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      "PA02": {
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        "legacy_id": "P7"
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        "vigilancia epidemiológica"
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      "SISPRO": [
        "Sistema Integral de Información de la Protección Social"
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  "semantic_expansion": null,
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      "method_type": "scoring",
      "priority": 10,
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      "priority": 11,
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      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
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    "semantic_expansion": null,
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    "pattern": "el presupuesto asignado permite cubrir|análisis de suficiencia",
    "specificity": "MEDIUM",
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    "context_requirement": null,
    "semantic_expansion": null,
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        "type": "gobernanza"
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        "type": "procesos"
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        "type": "talento_humano"
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        "method_type": "extraction",
        "priority": 3,
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"priority": 11,
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    "context_requirement": null,
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    "flags": "i",
    "id": "PAT-Q004-004",
    "match_type": "REGEX",
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    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
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    "flags": "i",
    "id": "PAT-Q004-005",
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    "validation_rule": null,
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"semantic_expansion": null,
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"confidence_weight": 0.85,
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"id": "PAT-Q004-007",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
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"context_scope": "PARAGRAPH"
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    "type": "restricciones_temporales"
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    "priority": 2,
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    "priority": 3,
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    "priority": 4,
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    "priority": 5,
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    "method_type": "extraction",
    "priority": 7,

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    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
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"text": "¿El plan justifica su alcance en materia de género mencionando el marco legal (ej. Ley 1257) o reconociendo restricciones explí
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    "type": "completeness",
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        "type": "columna_producto"
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        "required": true,
        "type": "columna_responsable"
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        "type": "formato_tabular"
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        "priority": 1,
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        "method_type": "analysis",
        "priority": 2,
        "description": "FinancialAuditor._process_financial_table"
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        "function": "_deduplicate_tables",
        "method_type": "analysis",
        "priority": 3,
        "description": "PDETMunicipalPlanAnalyzer._deduplicate_tables"
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        "function": "_classify_tables",
        "method_type": "analysis",
        "priority": 4,
        "description": "PDETMunicipalPlanAnalyzer._classify_tables"
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        "function": "_is_likely_header",
        "method_type": "analysis",
        "priority": 5,
        "description": "PDETMunicipalPlanAnalyzer._is_likely_header"
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    "method_type": "analysis",
    "priority": 6,
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    "method_type": "analysis",
    "priority": 7,
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    "validation_rule": null,
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    "context_scope": "PARAGRAPH",
    "pattern_ref": "PAT-0038"
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    "pattern_ref": "PAT-0037"
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_requirement": null,
"semantic_expansion": null,
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"pattern_ref": "PAT-0015"
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"question_global": 6,
"question_id": "Q006",
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"scoring_modality": "TYPE_A",
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{
"required": true,
"type": "logica_causal_explicita"
},
{
"required": true,
"type": "poblacion_objetivo_definida"
}
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    "incomplete_text"
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    "method_type": "analysis",
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    "class": "BayesianMechanismInference",
    "function": "_infer_single_mechanism",
    "method_type": "analysis",
    "priority": 2,
    "description": "BayesianMechanismInference._infer_single_mechanism"
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    "function": "_infer_mechanism_type",
    "method_type": "analysis",
    "priority": 3,
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    "method_type": "analysis",
    "priority": 4,
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    "method_type": "analysis",
    "priority": 5,
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    "priority": 6,
    "description": "CausalExtractor.extract_causal_hierarchy"
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    "method_type": "analysis",
    "priority": 7,
    "description": "TeoriaCambio.construir_grafo_causal"
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    "function": "_es_conexion_valida",
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    "priority": 8,
    "description": "TeoriaCambio._es_conexion_valida"
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    "method_type": "analysis",
    "priority": 9,
    "description": "PDETMunicipalPlanAnalyzer.construct_causal_dag"
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    "method_type": "analysis",
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"semantic_expansion": null,
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"semantic_expansion": null,
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"semantic_expansion": null,
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"id": "PAT-Q007-003",
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q007-004",
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"category": "GENERAL",
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"flags": "i",
"id": "PAT-Q007-005",
"match_type": "REGEX",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
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"flags": "i",
"id": "PAT-Q007-006",
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"pattern": "con el fin de|para lograr que|lo cual genera|porque permite",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
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"match_type": "REGEX",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"semantic_expansion": null,
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"scoring_modality": "TYPE_A",
"text": "¿La descripción de las actividades de género detalla el instrumento ('mediante talleres', 'a través de capital semilla'), la població
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"cluster_id": "CL02",
"dimension_id": "DIM02",

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  {
    "required": true,
    "type": "vinculo_diagnostico_actividad"
  }
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    "priority": 1,
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    "method_type": "scoring",
    "priority": 2,
    "description": "CausalExtractor._calculate_composite_likelihood"
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    "function": "_initialize_prior",
    "method_type": "analysis",
    "priority": 3,
    "description": "CausalExtractor._initialize_prior"
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    "function": "_calculate_type_transition_prior",
    "method_type": "scoring",
    "priority": 4,
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    "function": "_identify_causal_edges",
    "method_type": "analysis",
    "priority": 5,
    "description": "PDETMunicipalPlanAnalyzer._identify_causal_edges"
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    "function": "_refine_edge_probabilities",
    "method_type": "analysis",
    "priority": 6,
    "description": "PDETMunicipalPlanAnalyzer._refine_edge_probabilities"
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    "function": "construct_scm",
    "method_type": "analysis",
    "priority": 7,
    "description": "BayesianCounterfactualAuditor.construct_scm"
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  {
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    "function": "_create_default_equations",
    "method_type": "analysis",
    "priority": 8,
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      "method_type": "extraction",
      "priority": 9,
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      "flags": "i",
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      "pattern": "la actividad X atiende el determinante Y",
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      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "pattern": "dependencia económica|falta de oportunidades laborales",
      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "flags": "i",
      "id": "PAT-Q008-004",
      "match_type": "REGEX",
      "pattern": "patrones culturales machistas|estereotipos de género",
      "specificity": "MEDIUM",
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      "context_requirement": null,
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q008-006",
"match_type": "REGEX",
"pattern": "árbol de problemas|diagnóstico causal",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"text": "¿El PDM vincula explícitamente las actividades propuestas con las 'causas raíz' de la desigualdad de género (ej. dependencia e
"validations": {
"completeness_check": {
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"threshold": 0.8
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"priority": 7,
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"method_type": "analysis",
"priority": 8,
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"function": "refutation_and_sanity_checks",
"method_type": "analysis",
"priority": 9,
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"semantic_expansion": null,
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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          "emergencia natural",
          "clima"
        ],
        "PA01": [
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          "violencia",
          "víctima"
        ]
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      "pattern_ref": "PAT-0082"
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      "flags": "i",
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      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
    }
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  "scoring_modality": "TYPE_A",
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      "threshold": 0.8
    }
  }
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  "dimension_id": "DIM02",
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      "type": "complementariedad_explicita"
    },
    {
      "required": true,
      "type": "secuenciacion_logica"
    }
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],
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    "method_type": "analysis",
    "priority": 1,
    "description": "PolicyContradictionDetector._detect_logical_incompatibilities"
  },
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    "method_type": "scoring",
    "priority": 2,
    "description": "PolicyContradictionDetector._calculate_coherence_metrics"
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    "function": "_calculate_objective_alignment",
    "method_type": "scoring",
    "priority": 3,
    "description": "PolicyContradictionDetector._calculate_objective_alignment"
  },
  {
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    "function": "_calculate_graph_fragmentation",
    "method_type": "scoring",
    "priority": 4,
    "description": "PolicyContradictionDetector._calculate_graph_fragmentation"
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    "method_type": "validation",
    "priority": 5,
    "description": "OperationalizationAuditor.audit_sequence_logic"
  },
  {
    "class": "BayesianMechanismInference",
    "function": "_calculate_coherence_factor",
    "method_type": "scoring",
    "priority": 6,
    "description": "BayesianMechanismInference._calculate_coherence_factor"
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  {
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    "method_type": "scoring",
    "priority": 7,
    "description": "PDETMunicipalPlanAnalyzer._score_causal_coherence"
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    "class": "AdaptivePriorCalculator",
    "function": "calculate_likelihood_adaptativo",
    "method_type": "scoring",
    "priority": 8,
    "description": "AdaptivePriorCalculator.calculate_likelihood_adaptativo"
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    "id": "PAT-Q010-000",
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"id": "PAT-Q010-001",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
{
"category": "GENERAL",
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"flags": "i",
"id": "PAT-Q010-002",
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q010-003",
"match_type": "REGEX",
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"category": "GENERAL",
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"flags": "i",
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"pattern": "la estrategia combina prevención, atención y acceso a la justicia",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"flags": "i",
"id": "PAT-Q010-005",
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"pattern": "el programa de autonomía económica se complementa con el de prevención de VBG",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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      "flags": "i",
      "id": "PAT-Q010-006",
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      "pattern": "evitando duplicidad de esfuerzos|no redundancia",
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      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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  "text": "¿El conjunto de actividades de género demuestra una estrategia coherente? Se debe buscar evidencia de 'complementariedad',
  "validations": {
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      "type": "completeness",
      "threshold": 0.8
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      "type": "fuente_verificacion"
    },
    {
      "required": true,
      "type": "linea_base_producto"
    },
    {
      "required": true,
      "type": "meta_cuantitativa"
    }
  ],
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      "method_type": "scoring",
      "priority": 1,
      "description": "PDETMunicipalPlanAnalyzer._score_indicators"
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      "function": "audit_evidence_traceability",
      "method_type": "validation",
      "priority": 2,
      "description": "OperationalizationAuditor.audit_evidence_traceability"
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      "method_type": "analysis",
      "priority": 3,
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      "method_type": "analysis",
      "priority": 4,
      "description": "BeachEvidentialTest.apply_test_logic"
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      "method_type": "analysis",
      "priority": 5,
      "description": "TextMiningEngine.diagnose_critical_links"
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    {
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      "function": "_extract_metadata",
      "method_type": "extraction",
      "priority": 6,
      "description": "IndustrialPolicyProcessor._extract_metadata"
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    {
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      "function": "_calculate_quality_score",
      "method_type": "scoring",
      "priority": 7,
      "description": "IndustrialPolicyProcessor._calculate_quality_score"
    },
    {
      "class": "AdaptivePriorCalculator",
      "function": "generate_traceability_record",
      "method_type": "analysis",
      "priority": 8,
      "description": "AdaptivePriorCalculator.generate_traceability_record"
    }
  ],
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      "confidence_weight": 0.85,
      "flags": "i",
      "id": "PAT-Q011-001",
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      "pattern": "número de mujeres capacitadas|personas formadas",
      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
    },
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      "flags": "i",
      "id": "PAT-Q011-002",
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      "pattern": "emprendimientos apoyados|unidades productivas",
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      "context_requirement": null,
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"flags": "i",
"id": "PAT-Q011-007",
"match_type": "REGEX",
"pattern": "listados de asistencia|actas de entrega|registros administrativos",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q011-008",

"match_type": "REGEX",
"pattern": "informes de supervisión|sistema de seguimiento",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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{
"category": "INDICADOR",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q011-009",
"match_type": "REGEX",
"pattern": "Ficha de Indicador|Anexo de metas",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
}
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"question_global": 11,
"question_id": "Q011",
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"scoring_modality": "TYPE_A",
"text": "¿Los indicadores de producto para género (ej. mujeres capacitadas, kits entregados) incluyen 'línea base', 'meta' cuantitativa, y
"validations": {
"completeness_check": {
"type": "completeness",
"threshold": 0.8
}
}
},
{
"base_slot": "D3-Q2",
"cluster_id": "CL02",
"dimension_id": "DIM03",
"expected_elements": [
{
"required": true,
"type": "dosificacion_definida"
},
{
"required": true,
"type": "proporcionalidad_meta_brecha"
}
],
"failure_contract": {
"abort_if": [
"missing_required_element",
"incomplete_text"
],
"emit_code": "ABORT-Q012-REQ"
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"method_sets": [
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"class": "AdvancedDAGValidator",
"function": "_calculate_bayesian_posterior",
"method_type": "scoring",
"priority": 1,
"description": "AdvancedDAGValidator._calculate_bayesian_posterior"
},
{
"class": "AdvancedDAGValidator",
"function": "_calculate_confidence_interval",
"method_type": "scoring",
"priority": 2,
"description": "AdvancedDAGValidator._calculate_confidence_interval"
},
{
"class": "AdaptivePriorCalculator",

"function": "_adjust_domain_weights",
"method_type": "analysis",
"priority": 3,
"description": "AdaptivePriorCalculator._adjust_domain_weights"
},
{
"class": "PDETMunicipalPlanAnalyzer",
"function": "_get_spanish_stopwords",
"method_type": "analysis",
"priority": 4,
"description": "PDETMunicipalPlanAnalyzer._get_spanish_stopwords"
},
{
"class": "BayesianMechanismInference",
"function": "_log_refactored_components",
"method_type": "analysis",
"priority": 5,
"description": "BayesianMechanismInference._log_refactored_components"
},
{
"class": "PDETMunicipalPlanAnalyzer",
"function": "analyze_financial_feasibility",
"method_type": "analysis",
"priority": 6,
"description": "PDETMunicipalPlanAnalyzer.analyze_financial_feasibility"
},
{
"class": "PDETMunicipalPlanAnalyzer",
"function": "_score_indicators",
"method_type": "scoring",
"priority": 7,
"description": "PDETMunicipalPlanAnalyzer._score_indicators"
},
{
"class": "PDETMunicipalPlanAnalyzer",
"function": "_interpret_risk",
"method_type": "analysis",
"priority": 8,
"description": "PDETMunicipalPlanAnalyzer._interpret_risk"
},
{
"class": "FinancialAuditor",
"function": "_calculate_sufficiency",
"method_type": "scoring",
"priority": 9,
"description": "FinancialAuditor._calculate_sufficiency"
},
{
"class": "BayesianMechanismInference",
"function": "_test_sufficiency",
"method_type": "analysis",
"priority": 10,
"description": "BayesianMechanismInference._test_sufficiency"
},
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"class": "BayesianMechanismInference",
"function": "_test_necessity",
"method_type": "analysis",
"priority": 11,
"description": "BayesianMechanismInference._test_necessity"
},
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"class": "PDETMunicipalPlanAnalyzer",
"function": "_assess_financial_sustainability",
"method_type": "analysis",
"priority": 12,
"description": "PDETMunicipalPlanAnalyzer._assess_financial_sustainability"
},
{
"class": "AdaptivePriorCalculator",
"function": "calculate_likelihood_adaptativo",
"method_type": "scoring",
"priority": 13,

"description": "AdaptivePriorCalculator.calculate_likelihood_adaptativo"
},
{
"class": "IndustrialPolicyProcessor",
"function": "_calculate_quality_score",
"method_type": "scoring",
"priority": 14,
"description": "IndustrialPolicyProcessor._calculate_quality_score"
},
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"class": "TeoriaCambio",
"function": "_generar_sugerencias_internas",
"method_type": "analysis",
"priority": 15,
"description": "TeoriaCambio._generar_sugerencias_internas"
},
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"class": "PDETMunicipalPlanAnalyzer",
"function": "_deduplicate_tables",
"method_type": "analysis",
"priority": 16,
"description": "PDETMunicipalPlanAnalyzer._deduplicate_tables"
},
{
"class": "PDETMunicipalPlanAnalyzer",
"function": "_indicator_to_dict",
"method_type": "analysis",
"priority": 17,
"description": "PDETMunicipalPlanAnalyzer._indicator_to_dict"
},
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"class": "PDETMunicipalPlanAnalyzer",
"function": "_generate_recommendations",
"method_type": "analysis",
"priority": 18,
"description": "PDETMunicipalPlanAnalyzer._generate_recommendations"
},
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"class": "IndustrialPolicyProcessor",
"function": "_compile_pattern_registry",
"method_type": "analysis",
"priority": 19,
"description": "IndustrialPolicyProcessor._compile_pattern_registry"
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"function": "_score_responsibility_clarity",
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"priority": 8,
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"method_type": "analysis",
"priority": 10,
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"method_type": "analysis",
"priority": 20,
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"priority": 21,
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"priority": 22,

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    "pattern_ref": "PAT-0090"
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  "priority": 2,
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  "priority": 4,
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  "priority": 19,
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"priority": 24,
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"semantic_expansion": null,
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"context_scope": "PARAGRAPH"
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"question_id": "Q014",
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"text": "¿Existe una relación factible entre la actividad (ej. 'un taller de formación') y la meta del producto asociado (ej. '5.000 mujeres en
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"threshold": 0.8
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"dimension_id": "DIM03",
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"type": "conexion_producto_resultado"
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"required": true,
"type": "mecanismo_causal_explicito"
}
],
"failure_contract": {
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"priority": 1,

"description": "PDETMunicipalPlanAnalyzer._identify_confounders"
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{
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"function": "_effect_to_dict",
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"priority": 2,
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"method_type": "analysis",
"priority": 6,
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"priority": 7,
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{
"class": "BayesianCounterfactualAuditor",
"function": "_evaluate_counterfactual",
"method_type": "analysis",
"priority": 8,
"description": "BayesianCounterfactualAuditor._evaluate_counterfactual"
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"priority": 9,
"description": "CausalExtractor._assess_financial_consistency"
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"function": "_infer_activity_sequence",
"method_type": "analysis",
"priority": 10,
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        "required": true,
        "type": "supuestos_identificados"
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    "method_type": "analysis",
    "priority": 8,
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    "method_type": "scoring",
    "priority": 7,
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    "priority": 8,
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        "enfoque correctivo"
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        "prevención de daños",
        "reducción de vulnerabilidad",
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        "beneficio esperado",
        "resultado anticipado",
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"method_type": "analysis",
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"incomplete_text"
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    "priority": 4,
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    "method_type": "analysis",
    "priority": 5,
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    "method_type": "analysis",
    "priority": 6,
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"aun con sus deficiencias",
"admitiendo su imperfección"
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"limitation_recognition": [
"reconociendo sus limitaciones",
"con las limitaciones propias",
"consciente de sus restricciones",
"asumiendo su carácter parcial",
"entendiendo sus alcances limitados"
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"a pesar de sus limitaciones",
"con reservas metodológicas",
"siendo conscientes de que",
"reconociendo que es aproximado"
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"probablemente",
"aproximadamente",
"en principio",
"en teoría",
"potencialmente"
]
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"method_type": "analysis",
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"method_type": "analysis",
"priority": 3,
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"function": "_interpret_risk",
"method_type": "analysis",

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    "function": "_interpret_sensitivity",
    "method_type": "analysis",
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    "method_type": "analysis",
    "priority": 6,
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    "method_type": "analysis",
    "priority": 7,
    "description": "AdaptivePriorCalculator.sensitivity_analysis"
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    "context_requirement": null,
    "semantic_expansion": null,
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    "context_requirement": null,
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"validation_rule": null,
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"required": true,
"type": "hipotesis_limite"
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    "priority": 1,
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    "method_type": "analysis",
    "priority": 7,
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    "method_type": "scoring",
    "priority": 8,
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_requirement": null,
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    "validations": {
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      {
        "required": true,
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      {
        "required": true,
        "type": "teoria_cambio_explicita"
      }
    ],
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        "incomplete_text"
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        "method_type": "analysis",
        "priority": 1,
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        "method_type": "analysis",
        "priority": 2,
        "description": "TeoriaCambio.validacion_completa"
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        "method_type": "analysis",
        "priority": 3,
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        "method_type": "analysis",
        "priority": 4,
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        "function": "generate_causal_model_json",
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  {
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    "method_type": "analysis",
    "priority": 6,
    "description": "AdvancedDAGValidator.export_nodes"
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    "function": "export_causal_network",
    "method_type": "analysis",
    "priority": 7,
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    "function": "extract_causal_hierarchy",
    "method_type": "extraction",
    "priority": 8,
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    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
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    "validation_rule": null,
    "context_requirement": null,
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      "context_requirement": null,
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    },
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      "category": "GENERAL",
      "confidence_weight": 0.85,
      "flags": "i",
      "id": "PAT-Q026-005",
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      "pattern": "supuesto comprobable|hipótesis de trabajo|asunción crítica|creencia fundamental|premisa operativa|condición necesaria|s
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          "supuesto verificable",
          "presunción testeable",
          "hipótesis validable"
        ],
        "foundational_beliefs": [
          "creencia fundamental",
          "premisa operativa",
          "axioma operacional",
          "hipótesis fundacional"
        ],
        "critical_conditions": [
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          "condición necesaria",
          "condición asumida",
          "premisa de diseño"
        ],
        "working_hypotheses": [
          "hipótesis de trabajo",
          "postulado validable",
          "conjetura de base",
          "premisa subyacente"
        ]
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  {
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  }
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    "missing_required_element",
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    "priority": 2,
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    "priority": 3,
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    "method_type": "scoring",
    "priority": 4,
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    "method_type": "analysis",
    "priority": 5,
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    "method_type": "validation",
    "priority": 6,
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    "function": "_compute_overall_confidence",
    "method_type": "analysis",
    "priority": 7,
    "description": "PolicyAnalysisEmbedder._compute_overall_confidence"
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"semantic_expansion": null,
"context_scope": "PARAGRAPH",
"pattern_ref": "PAT-0060"
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"pattern_ref": "PAT-0076"
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"semantic_expansion": null,
"context_scope": "PARAGRAPH",
"pattern_ref": "PAT-0098"
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"question_global": 27,
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"scoring_modality": "TYPE_A",
"text": "¿Los saltos en la cadena causal de género son proporcionales y realistas (ej. un taller de 2 horas no genera 'empoderamiento e

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    "dimension_id": "DIM06",
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        "type": "propone_pilotos_o_pruebas"
      },
      {
        "required": true,
        "type": "reconoce_inconsistencias"
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        "incomplete_text"
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        "method_type": "analysis",
        "priority": 1,
        "description": "IndustrialGradeValidator.execute_suite"
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      {
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        "function": "validate_engine_readiness",
        "method_type": "validation",
        "priority": 2,
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        "function": "_benchmark_operation",
        "method_type": "analysis",
        "priority": 3,
        "description": "IndustrialGradeValidator._benchmark_operation"
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        "function": "validate_quality_criteria",
        "method_type": "validation",
        "priority": 4,
        "description": "AdaptivePriorCalculator.validate_quality_criteria"
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        "method_type": "scoring",
        "priority": 5,
        "description": "HierarchicalGenerativeModel._calculate_r_hat"
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        "class": "HierarchicalGenerativeModel",
        "function": "_calculate_ess",
        "method_type": "scoring",
        "priority": 6,
        "description": "HierarchicalGenerativeModel._calculate_ess"
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"description": "AdvancedDAGValidator.calculate_acyclicity_pvalue"
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"priority": 8,
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"flags": "i",
"id": "PAT-Q028-000",
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"semantic_expansion": null,
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"id": "PAT-Q028-001",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"confidence_weight": 0.85,
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"id": "PAT-Q028-002",
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"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"flags": "i",
"id": "PAT-Q028-003",
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH",
"pattern_ref": "PAT-0026"
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"question_global": 28,
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"scoring_modality": "TYPE_A",
"text": "¿El plan reconoce 'inconsistencias' en su lógica causal para género y propone 'pilotos' o 'pruebas' para 'testear los supuestos' d
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"type": "completeness",
"threshold": 0.8
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"cluster_id": "CL02",
"dimension_id": "DIM06",
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"type": "ciclos_aprendizaje"
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{
"required": true,
"type": "mecanismos_correccion"
},
{
"required": true,
"type": "sistema_monitoreo"
}
],
"failure_contract": {
"abort_if": [
"missing_required_element",
"incomplete_text"
],
"emit_code": "ABORT-Q029-REQ"
},
"method_sets": [
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"class": "ConfigLoader",
"function": "update_priors_from_feedback",
"method_type": "analysis",
"priority": 1,
"description": "ConfigLoader.update_priors_from_feedback"
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{
"class": "ConfigLoader",
"function": "check_uncertainty_reduction_criterion",
"method_type": "analysis",
"priority": 2,
"description": "ConfigLoader.check_uncertainty_reduction_criterion"
},

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      "function": "_save_prior_history",
      "method_type": "analysis",
      "priority": 3,
      "description": "ConfigLoader._save_prior_history"
    },
    {
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      "function": "_load_uncertainty_history",
      "method_type": "analysis",
      "priority": 4,
      "description": "ConfigLoader._load_uncertainty_history"
    },
    {
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      "function": "_extract_feedback_from_audit",
      "method_type": "validation",
      "priority": 5,
      "description": "CDAFFramework._extract_feedback_from_audit"
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    {
      "class": "AdvancedDAGValidator",
      "function": "_calculate_node_importance",
      "method_type": "scoring",
      "priority": 6,
      "description": "AdvancedDAGValidator._calculate_node_importance"
    },
    {
      "class": "BayesFactorTable",
      "function": "get_bayes_factor",
      "method_type": "analysis",
      "priority": 7,
      "description": "BayesFactorTable.get_bayes_factor"
    }
  ],
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      "confidence_weight": 0.85,
      "flags": "i",
      "id": "PAT-Q029-000",
      "match_type": "REGEX",
      "pattern": "sistema de seguimiento y evaluación|M&E",
      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
    },
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      "confidence_weight": 0.85,
      "flags": "i",
      "id": "PAT-Q029-001",
      "match_type": "REGEX",
      "pattern": "monitoreo de indicadores de proceso",
      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "confidence_weight": 0.85,
      "flags": "i",
      "id": "PAT-Q029-002",
      "match_type": "REGEX",
      "pattern": "alerta temprana|semáforo de indicadores",
      "specificity": "MEDIUM",
      "validation_rule": null,
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      "flags": "i",
      "id": "PAT-Q029-003",
      "match_type": "REGEX",
      "pattern": "mecanismo de ajuste|medida correctiva|plan de mejora",
      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "flags": "i",
      "id": "PAT-Q029-004",
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      "pattern": "retroalimentación|feedback",
      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "flags": "i",
      "id": "PAT-Q029-005",
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      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
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      "context_scope": "PARAGRAPH",
      "pattern_ref": "PAT-0033"
    },
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      "confidence_weight": 0.85,
      "flags": "i",
      "id": "PAT-Q029-006",
      "match_type": "REGEX",
      "pattern": "lecciones aprendidas|gestión del conocimiento",
      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
    }
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  "question_global": 29,
  "question_id": "Q029",
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  "scoring_modality": "TYPE_A",
  "text": "¿Se describe un sistema de monitoreo para la política de género que incluya 'mecanismos de corrección', 'retroalimentación' o 'a
  "validations": {
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      "type": "completeness",
      "threshold": 0.8
    }
  }
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  {
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    "type": "enfoque_diferencial"
  }
],
"failure_contract": {
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    "missing_required_element",
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  ],
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"method_sets": [
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    "function": "_calculate_language_specificity",
    "method_type": "scoring",
    "priority": 1,
    "description": "CausalExtractor._calculate_language_specificity"
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    "method_type": "analysis",
    "priority": 2,
    "description": "CausalExtractor._assess_temporal_coherence"
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    "function": "diagnose_critical_links",
    "method_type": "analysis",
    "priority": 3,
    "description": "TextMiningEngine.diagnose_critical_links"
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  {
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    "function": "identify_failure_points",
    "method_type": "analysis",
    "priority": 4,
    "description": "CausalInferenceSetup.identify_failure_points"
  },
  {
    "class": "CausalInferenceSetup",
    "function": "_get_dynamics_pattern",
    "method_type": "analysis",
    "priority": 5,
    "description": "CausalInferenceSetup._get_dynamics_pattern"
  },
  {
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    "function": "chunk_text",
    "method_type": "analysis",
    "priority": 6,
    "description": "SemanticProcessor.chunk_text"
  },
  {
    "class": "SemanticProcessor",
    "function": "_detect_pdm_structure",
    "method_type": "analysis",
    "priority": 7,
    "description": "SemanticProcessor._detect_pdm_structure"
  },
  {
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    "function": "_detect_table",
    "method_type": "analysis",
    "priority": 8,
    "description": "SemanticProcessor._detect_table"

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    },
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      "function": "generate_traceability_record",
      "method_type": "analysis",
      "priority": 9,
      "description": "AdaptivePriorCalculator.generate_traceability_record"
    }
  ],
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      "flags": "i",
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      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
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      "context_scope": "PARAGRAPH",
      "pattern_ref": "PAT-0058"
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      "category": "GENERAL",
      "confidence_weight": 0.85,
      "flags": "i",
      "id": "PAT-Q030-001",
      "match_type": "REGEX",
      "pattern": "mujeres rurales|mujeres indígenas|mujeres afrodescendientes|afrodescendiente|comunidad negra|palenquero|raizal",
      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "confidence_weight": 0.85,
      "flags": "i",
      "id": "PAT-Q030-002",
      "match_type": "REGEX",
      "pattern": "mujeres con discapacidad|mujeres víctimas|mujeres LBT|diversamente hábil|capacidad diversa|movilidad reducida",
      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "flags": "i",
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      "specificity": "MEDIUM",
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      "context_scope": "PARAGRAPH",
      "pattern_ref": "PAT-0051"
    },
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      "flags": "i",
      "id": "PAT-Q030-004",
      "match_type": "REGEX",
      "pattern": "contexto cultural|patrones machistas arraigados",
      "specificity": "MEDIUM",
      "validation_rule": null,
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      "confidence_weight": 0.85,
      "flags": "i",
      "id": "PAT-Q030-005",
      "match_type": "LITERAL",
      "pattern": "restricciones normativas|marco legal limitante",
      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "confidence_weight": 0.85,
      "flags": "i",
      "id": "PAT-Q030-006",
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      "pattern": "estrategias territorializadas|acciones adaptadas al contexto",
      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
    }
  ],
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  "question_global": 30,
  "question_id": "Q030",
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  "scoring_modality": "TYPE_A",
  "text": "¿La lógica causal para la equidad de género considera el contexto, reconociendo 'grupos afectados' (ej. mujeres rurales, víctima
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    "completeness_check": {
      "type": "completeness",
      "threshold": 0.8
    }
  }
},
{
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  "cluster_id": "CL04",
  "dimension_id": "DIM01",
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      "minimum": 2,
      "type": "fuentes_oficiales"
    },
    {
      "minimum": 3,
      "type": "indicadores_cuantitativos"
    },
    {
      "minimum": 2,
      "type": "series_temporales_años"
    }
  ],
  "failure_contract": {
    "abort_if": [
      "missing_required_element",
      "incomplete_text"
    ],
    "emit_code": "ABORT-Q031-REQ"
  },
  "method_sets": [
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      "function": "diagnose_critical_links",
      "method_type": "analysis",
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"priority": 1,
"description": "TextMiningEngine.diagnose_critical_links"
},
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"class": "TextMiningEngine",
"function": "_analyze_link_text",
"method_type": "analysis",
"priority": 2,
"description": "TextMiningEngine._analyze_link_text"
},
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"class": "IndustrialPolicyProcessor",
"function": "process",
"method_type": "analysis",
"priority": 3,
"description": "IndustrialPolicyProcessor.process"
},
{
"class": "IndustrialPolicyProcessor",
"function": "_match_patterns_in_sentences",
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      "priority": 15,
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      "method_type": "analysis",
      "priority": 17,
      "description": "SemanticProcessor.embed_single"
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      "semantic_expansion": null,
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"semantic_expansion": null,
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"semantic_expansion": null,
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    "context_requirement": null,
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      "required": true,
      "type": "cuantificacion_magnitud"
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      "type": "vacios_explicitos"
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      "function": "_audit_systemic_risk",
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      "priority": 2,
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      "priority": 3,
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      "method_type": "analysis",
      "priority": 4,
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      "method_type": "analysis",
      "priority": 5,
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    "priority": 7,
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    "method_type": "analysis",
    "priority": 8,
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    "method_type": "analysis",
    "priority": 9,
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    "method_type": "scoring",
    "priority": 10,
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    "function": "calculate_posterior",
    "method_type": "scoring",
    "priority": 11,
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    "context_requirement": null,
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    "flags": "i",
    "id": "PAT-Q032-001",
    "match_type": "REGEX",
    "pattern": "déficit de cupos en albergues|necesidades humanitarias insatisfechas",
    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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  "semantic_expansion": null,
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  "context_requirement": null,
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  "id": "PAT-Q032-007",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"text": "¿El texto dimensiona la magnitud del fenómeno migratorio, cuantificando la presión sobre los servicios públicos o la población c
"validations": {
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"type": "suficiencia_justificada"
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"required": true,
"type": "trazabilidad_ppi_bpin"
}
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"class": "FinancialAuditor",
"function": "_process_financial_table",
"method_type": "analysis",
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"description": "FinancialAuditor._process_financial_table"
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"method_type": "analysis",
"priority": 3,
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"method_type": "analysis",
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"method_type": "analysis",
"priority": 7,
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"class": "PDETMunicipalPlanAnalyzer",
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"method_type": "extraction",
"priority": 8,
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"priority": 9,
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"priority": 10,
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"class": "PDETMunicipalPlanAnalyzer",
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"method_type": "analysis",
"priority": 11,
"description": "PDETMunicipalPlanAnalyzer._analyze_funding_sources"
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"class": "PDETMunicipalPlanAnalyzer",
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"method_type": "scoring",
"priority": 12,
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"function": "aggregate_risk_and_prioritize",
"method_type": "analysis",

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    "pattern": "recursos para la atención humanitaria|albergues|ayuda alimentaria",
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    "context_requirement": null,
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    "pattern": "presupuesto para el Punto de Atención y Orientación|PAO",
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    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "category": "GENERAL",
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    "flags": "i",
    "id": "PAT-Q033-004",
    "match_type": "REGEX",
    "pattern": "asignación para programas de integración socioeconómica|empleabilidad",
    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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      "priority": 5,
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    "priority": 9,
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    "priority": 10,
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"method_type": "analysis",
"priority": 2,
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"priority": 3,
"description": "PDETMunicipalPlanAnalyzer._deduplicate_tables"
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      "priority": 7,
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"question_id": "Q036",
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"scoring_modality": "TYPE_A",
"text": "¿Las actividades para la población migrante se presentan en un formato estructurado (tabla, cuadro) que incluya columnas para
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{
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      "priority": 1,
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      "priority": 2,
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      "method_type": "analysis",
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      "method_type": "analysis",
      "priority": 4,
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      "priority": 5,
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      "method_type": "extraction",
      "priority": 6,
      "description": "CausalExtractor.extract_causal_hierarchy"
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      "function": "construir_grafo_causal",
      "method_type": "analysis",
      "priority": 7,
      "description": "TeoriaCambio.construir_grafo_causal"
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        "priority": 5,
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"method_type": "analysis",
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"priority": 8,
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"method_type": "extraction",
"priority": 9,
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"context_requirement": null,
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"context_scope": "PARAGRAPH"
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    "method_type": "analysis",
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    "method_type": "analysis",
    "priority": 10,
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    "priority": 6,
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    "priority": 7,
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  "semantic_expansion": null,
  "context_scope": "PARAGRAPH"
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  "pattern": "la estrategia combina asistencia, protección e integración",
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}
}
},
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},
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"required": true,
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"missing_required_element",
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"priority": 1,
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"class": "OperationalizationAuditor",
"function": "audit_evidence_traceability",
"method_type": "validation",
"priority": 2,
"description": "OperationalizationAuditor.audit_evidence_traceability"
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{
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"function": "assign_probative_value",
"method_type": "analysis",
"priority": 3,
"description": "CausalInferenceSetup.assign_probative_value"
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      "method_type": "analysis",
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      "priority": 6,
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      "function": "_calculate_quality_score",
      "method_type": "scoring",
      "priority": 7,
      "description": "IndustrialPolicyProcessor._calculate_quality_score"
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    {
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      "method_type": "analysis",
      "priority": 8,
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      "specificity": "MEDIUM",
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      "pattern_ref": "PAT-0073"
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      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "validation_rule": null,
      "context_requirement": null,
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_requirement": null,
"semantic_expansion": null,
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"match_type": "REGEX",
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"semantic_expansion": null,
"context_scope": "PARAGRAPH",
"pattern_ref": "PAT-0013"
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"context_requirement": null,
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"context_scope": "PARAGRAPH",
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        "flags": "i",
        "id": "PAT-Q041-009",
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        "validation_rule": null,
        "context_requirement": null,
        "semantic_expansion": null,
        "context_scope": "PARAGRAPH"
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    "validations": {
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        "type": "completeness",
        "threshold": 0.8
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    }
  },
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      {
        "required": true,
        "type": "proporcionalidad_meta_problema"
      }
    ],
    "failure_contract": {
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        "priority": 1,
        "description": "AdvancedDAGValidator._calculate_bayesian_posterior"
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        "function": "_calculate_confidence_interval",
        "method_type": "scoring",
        "priority": 2,
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        "method_type": "analysis",
        "priority": 3,
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"method_type": "analysis",
"priority": 5,
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"function": "analyze_financial_feasibility",
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"priority": 6,
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"priority": 9,
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{
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"function": "_calculate_quality_score",
"method_type": "scoring",
"priority": 14,

"description": "IndustrialPolicyProcessor._calculate_quality_score"
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"method_type": "analysis",
"priority": 15,
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"method_type": "analysis",
"priority": 16,
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"class": "PDETMunicipalPlanAnalyzer",
"function": "_indicator_to_dict",
"method_type": "analysis",
"priority": 17,
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"function": "_generate_recommendations",
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"priority": 18,
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"priority": 19,
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"method_type": "analysis",
"priority": 20,
"description": "IndustrialPolicyProcessor._build_point_patterns"
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"class": "IndustrialPolicyProcessor",
"function": "_empty_result",
"method_type": "analysis",
"priority": 21,
"description": "IndustrialPolicyProcessor._empty_result"
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"flags": "i",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"category": "INDICADOR",
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      "pattern": "universo de atención|flujo migratorio estimado",
      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "flags": "i",
      "id": "PAT-Q042-003",
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      "pattern": "la meta se establece en función de la capacidad de los albergues y los recursos de cooperación",
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      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
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      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "confidence_weight": 0.85,
      "flags": "i",
      "id": "PAT-Q042-005",
      "match_type": "REGEX",
      "pattern": "la dosificación de la ayuda humanitaria sigue los estándares Esfera",
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      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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  "question_global": 42,
  "question_id": "Q042",
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  "scoring_modality": "TYPE_A",
  "text": "¿Las metas de los productos (ej. 'atender a 5.000 migrantes en albergues') son proporcionales a la magnitud del flujo migratorio
  "validations": {
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      "threshold": 0.8
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  }
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  {
    "required": true,
    "type": "trazabilidad_presupuestal"
  }
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"failure_contract": {
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    "method_type": "analysis",
    "priority": 1,
    "description": "FinancialAuditor._match_program_to_node"
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    "method_type": "extraction",
    "priority": 3,
    "description": "PDETMunicipalPlanAnalyzer._extract_from_responsibility_tables"
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    "method_type": "analysis",
    "priority": 4,
    "description": "PDETMunicipalPlanAnalyzer._consolidate_entities"
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    "method_type": "analysis",
    "priority": 5,
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    "method_type": "scoring",
    "priority": 6,
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    "method_type": "analysis",
    "priority": 7,
    "description": "PolicyAnalysisEmbedder.process_document"
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    "function": "_generate_query_from_pdq",

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"method_type": "analysis",
"priority": 9,
"description": "PolicyAnalysisEmbedder.semantic_search"
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"class": "PolicyAnalysisEmbedder",
"function": "_apply_mmr",
"method_type": "analysis",
"priority": 10,
"description": "PolicyAnalysisEmbedder._apply_mmr"
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"class": "SemanticAnalyzer",
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"method_type": "analysis",
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"priority": 12,
"description": "SemanticAnalyzer._classify_policy_domain"
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"priority": 13,
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"priority": 14,
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"priority": 15,
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"class": "SemanticAnalyzer",
"function": "_process_segment",
"method_type": "analysis",
"priority": 16,
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"class": "SemanticAnalyzer",
"function": "_calculate_semantic_complexity",
"method_type": "scoring",
"priority": 17,
"description": "SemanticAnalyzer._calculate_semantic_complexity"
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"function": "_compute_evidence_confidence",
"method_type": "analysis",
"priority": 18,
"description": "IndustrialPolicyProcessor._compute_evidence_confidence"

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      "method_type": "analysis",
      "priority": 19,
      "description": "PDETMunicipalPlanAnalyzer._entity_to_dict"
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    {
      "class": "AdaptivePriorCalculator",
      "function": "generate_traceability_record",
      "method_type": "analysis",
      "priority": 20,
      "description": "AdaptivePriorCalculator.generate_traceability_record"
    },
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      "class": "PolicyAnalysisEmbedder",
      "function": "generate_pdq_report",
      "method_type": "analysis",
      "priority": 21,
      "description": "PolicyAnalysisEmbedder.generate_pdq_report"
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      "function": "generate_accountability_matrix",
      "method_type": "analysis",
      "priority": 22,
      "description": "ReportingEngine.generate_accountability_matrix"
    }
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      "match_type": "REGEX",
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      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "flags": "i",
      "id": "PAT-Q043-001",
      "match_type": "REGEX",
      "pattern": "programa del PPI|línea de inversión en integración",
      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
    },
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      "confidence_weight": 0.85,
      "flags": "i",
      "id": "PAT-Q043-002",
      "match_type": "REGEX",
      "pattern": "recursos del proyecto|presupuesto para el PAO",
      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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"context_scope": "PARAGRAPH",
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},
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"category": "GENERAL",
"confidence_weight": 0.85,
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"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
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"pattern_ref": "PAT-0018"
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"flags": "i",
"id": "PAT-Q043-005",
"match_type": "REGEX",
"pattern": "articulado con la Personería|operado por un socio de la cooperación (ONG)",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q043-006",
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"pattern": "convenio con|contrato de suministro",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
}
],
"policy_area_id": "PA10",
"question_global": 43,
"question_id": "Q043",
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"scoring_modality": "TYPE_A",
"text": "¿Los productos para migración tienen trazabilidad presupuestal (vinculados a códigos BPIN, PPI) y organizacional (asociados a
"validations": {
"completeness_check": {
"type": "completeness",
"threshold": 0.8
}
}
},
{
"base_slot": "D3-Q4",
"cluster_id": "CL04",
"dimension_id": "DIM03",
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"required": true,
"type": "financiamiento_realista"
},
{

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    "required": true,
    "type": "capacidad_institucional_realista"
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],
"failure_contract": {
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      "type": "supuestos_identificados"
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      "priority": 3,
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      "priority": 5,
      "description": "HierarchicalGenerativeModel._generate_independence_tests"
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      "method_type": "analysis",
      "priority": 6,
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      "method_type": "analysis",
      "priority": 7,
      "description": "AdvancedDAGValidator._perform_sensitivity_analysis_internal"
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"priority": 3,
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"function": "sensitivity_analysis",
"method_type": "analysis",
"priority": 4,
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"class": "HierarchicalGenerativeModel",
"function": "_calculate_r_hat",
"method_type": "scoring",
"priority": 5,
"description": "HierarchicalGenerativeModel._calculate_r_hat"
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"context_requirement": null,
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      "context_requirement": null,
      "semantic_expansion": null,
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      "semantic_expansion": null,
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      "flags": "i",
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      "context_requirement": null,
      "semantic_expansion": null,
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    "method_type": "scoring",
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    "priority": 2,
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    "priority": 4,
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    "priority": 5,
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    "priority": 7,
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"semantic_expansion": null,
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        "type": "alineacion_pnd"
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        "priority": 4,
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        "method_type": "analysis",
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"description": "IndustrialPolicyProcessor._analyze_causal_dimensions"
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"function": "validate_quality_criteria",
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"context_requirement": null,
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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  "question_id": "Q050",
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  "dimension_id": "DIM05",
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      "priority": 1,
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      "method_type": "analysis",
      "priority": 2,
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"priority": 8,
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q051-005",
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"type": "usa_proxies"
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"incomplete_text"
],
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"method_sets": [

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"function": "_embed_texts",
"method_type": "analysis",
"priority": 14,
"description": "PolicyAnalysisEmbedder._embed_texts"
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"class": "PolicyAnalysisEmbedder",
"function": "_compute_overall_confidence",
"method_type": "analysis",
"priority": 15,
"description": "PolicyAnalysisEmbedder._compute_overall_confidence"
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      "method_type": "extraction",
      "priority": 26,
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      "context_requirement": null,
      "semantic_expansion": null,
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_scope": "PARAGRAPH"
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"priority": 6,
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"priority": 7,
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_scope": "PARAGRAPH"
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"category": "GENERAL",
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"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"flags": "i",
"id": "PAT-Q054-006",
"match_type": "REGEX",
"pattern": "estrategias de resiliencia|flexibilidad en la respuesta humanitaria",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
}
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"text": "¿Los impactos en la integración se alinean con marcos nacionales/globales y consideran 'riesgos sistémicos' (ej. cambios en la
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"threshold": 0.8
}
}
},
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"required": true,
"type": "efectos_no_deseados"
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{
"required": true,
"type": "hipotesis_limite"
}
],
"failure_contract": {
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],
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      "priority": 3,
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    "priority": 7,
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"context_requirement": null,
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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      "method_type": "analysis",
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        "flags": "i",
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        "context_requirement": null,
        "semantic_expansion": null,
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      {
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        "type": "indicadores_cuantitativos"
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        "minimum": 3,
        "type": "series_temporales_años"
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"priority": 4,
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"priority": 11,

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"priority": 12,
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"method_type": "analysis",
"priority": 13,
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"method_type": "analysis",
"priority": 15,
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"priority": 17,
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"semantic_expansion": null,
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"legal_mandate": "TBD",
"jurisdiction": "National",
"founding_year": "TBD"
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"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"flags": "i",
"id": "PAT-Q061-004",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
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"flags": "i",
"id": "PAT-Q061-007",
"match_type": "REGEX",
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"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"pattern": "amenaza|extorsión|secuestro",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q061-009",
"match_type": "REGEX",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q061-013",
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"pattern": "por cada 100\\.000 habitantes|número de casos|número de víctimas|familias",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
}
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"question_id": "Q061",
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"scoring_modality": "TYPE_A",
"text": "¿El diagnóstico presenta datos numéricos (tasas de homicidio, cifras de desplazamiento, casos de reclutamiento) para el área d
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"índice de",
"cobertura de"
],
"specificity": "HIGH"
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"territorial",
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        "razón"
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        "DNP",
        "SISPRO",
        "SIVIGILA",
        "Ministerio"
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},
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      "type": "cuantificacion_brecha"
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    {
      "required": true,
      "type": "sesgos_reconocidos"
    },
    {
      "required": true,
      "type": "vacios_explicitos"
    }
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      "function": "counterfactual_query",
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      "priority": 7,
      "description": "BayesianCounterfactualAuditor.counterfactual_query"
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      "class": "BayesianCounterfactualAuditor",
      "function": "_test_effect_stability",
      "method_type": "analysis",
      "priority": 8,
      "description": "BayesianCounterfactualAuditor._test_effect_stability"
    },
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      "method_type": "analysis",
      "priority": 9,
      "description": "PolicyContradictionDetector._detect_numerical_inconsistencies"
    },
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      }
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"semantic_expansion": null,
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"priority": 6,
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"semantic_expansion": null,
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    "method_type": "analysis",
    "priority": 8,
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    "function": "refutation_and_sanity_checks",
    "method_type": "analysis",
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    "id": "PAT-Q069-001",
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    "validation_rule": null,
    "context_requirement": null,
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    "specificity": "MEDIUM",
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"priority": 7,
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"priority": 8,
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      "semantic_expansion": null,
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        "type": "meta_cuantitativa"
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      "priority": 8,
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"text": "¿Los indicadores de producto para prevención (ej. alertas gestionadas, personas en rutas de protección) incluyen 'línea base', 'r
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    "type": "completeness",
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        "method_type": "analysis",
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        "method_type": "scoring",
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  "priority": 11,
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  "priority": 13,
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  "priority": 14,
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  "priority": 15,
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  "priority": 17,
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"priority": 21,
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"match_type": "REGEX",
"pattern": "cobertura del|atenderá al \\d+% de las alertas emitidas",
"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q072-002",
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"pattern": "universo de atención|población en riesgo",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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      "context_scope": "PARAGRAPH"
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  }
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{
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    {
      "required": true,
      "type": "trazabilidad_presupuestal"
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"priority": 8,
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"priority": 14,
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      "priority": 22,
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      "method_type": "analysis",
      "priority": 23,
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      "method_type": "analysis",
      "priority": 24,
      "description": "PolicyAnalysisEmbedder.compare_policy_interventions"
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      "priority": 25,
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"specificity": "MEDIUM",
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"match_type": "REGEX",
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    "priority": 2,
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    "priority": 4,
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    "priority": 5,
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    "priority": 6,
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"context_scope": "PARAGRAPH"
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    "priority": 4,
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    "priority": 5,
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    "priority": 6,
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    "priority": 7,
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    "method_type": "analysis",
    "priority": 8,
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"specificity": "MEDIUM",
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"context_requirement": null,
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q081-003",
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"context_requirement": null,
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"validation_rule": null,
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"semantic_expansion": null,

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      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
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      "pattern_ref": "PAT-0091"
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  "scoring_modality": "TYPE_A",
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    {
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    {
      "required": true,
      "type": "usa_proxies"
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      "priority": 2,
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"method_type": "analysis",
"priority": 4,
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"priority": 5,
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"method_type": "scoring",
"priority": 6,
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"method_type": "analysis",
"priority": 7,
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"priority": 8,
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"method_type": "analysis",
"priority": 9,
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"function": "process_document",
"method_type": "analysis",
"priority": 10,
"description": "PolicyAnalysisEmbedder.process_document"
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"priority": 11,
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"method_type": "analysis",
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"priority": 13,
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  "method_type": "analysis",
  "priority": 14,
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  "method_type": "analysis",
  "priority": 15,
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  "priority": 16,
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  "priority": 18,
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    "priority": 27,
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    "semantic_expansion": null,
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    "semantic_expansion": null,
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  {
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    "flags": "i",
    "id": "PAT-Q082-002",
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    "pattern": "proxy|variable instrumental|indicador sustituto|medición referencial|estimación indirecta|subrogado|aproximación estadístic
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"medida vicaria",
"medición sustitutiva"
],
"measurement_variants": [
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"indicador derivado",
"medición alternativa"
],
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"medición indiciaria",
"indicador de reemplazo",
"aproximación estadística"
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"id": "PAT-Q082-003",
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"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q082-004",
"match_type": "REGEX",
"pattern": "el número de organizaciones sociales activas como proxy del tejido social",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
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"id": "PAT-Q082-005",
"match_type": "REGEX",
"pattern": "este indicador es válido porque refleja|captura la percepción de estabilidad",
"specificity": "MEDIUM",
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"context_requirement": null,
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},
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"required": true,
"type": "reconoce_limitaciones"
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"priority": 1,
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"class": "SemanticAnalyzer",
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"method_type": "extraction",
"priority": 2,
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"function": "_quantify_uncertainty",
"method_type": "analysis",
"priority": 3,
"description": "BayesianMechanismInference._quantify_uncertainty"
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"function": "get_diagnostics",
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    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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      "context_requirement": null,
      "semantic_expansion": null,
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      "threshold": 0.8
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      "method_type": "analysis",
      "priority": 2,
      "description": "BayesianCounterfactualAuditor.refutation_and_sanity_checks"
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      "function": "_test_effect_stability",
      "method_type": "analysis",
      "priority": 3,
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"function": "sensitivity_analysis",
"method_type": "analysis",
"priority": 7,
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_scope": "PARAGRAPH"
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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},
{
"required": true,
"type": "efectos_no_deseados"
},
{
"required": true,
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    "method_type": "analysis",
    "priority": 1,
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    "priority": 2,
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    "method_type": "scoring",
    "priority": 3,
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    "method_type": "analysis",
    "priority": 4,
    "description": "AdaptivePriorCalculator._add_ood_noise"
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    "function": "validate_quality_criteria",
    "method_type": "validation",
    "priority": 5,
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    "priority": 6,
    "description": "PDETMunicipalPlanAnalyzer._compute_e_value"
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    "function": "_compute_robustness_value",
    "method_type": "analysis",
    "priority": 7,
    "description": "PDETMunicipalPlanAnalyzer._compute_robustness_value"
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    "function": "_calculate_coherence_factor",
    "method_type": "scoring",
    "priority": 8,
    "description": "BayesianMechanismInference._calculate_coherence_factor"
  }
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    "flags": "i",
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"semantic_expansion": null,
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"specificity": "MEDIUM",
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"context_scope": "PARAGRAPH"
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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      "context_requirement": null,
      "semantic_expansion": null,
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      "pattern_ref": "PAT-0102"
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  }
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    {
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      "type": "supuestos_verificables"
    },
    {
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      "type": "teoria_cambio_explicita"
    }
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      "method_type": "analysis",
      "priority": 1,
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      "method_type": "analysis",
      "priority": 2,
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      "method_type": "analysis",
      "priority": 3,
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      "function": "generate_causal_model_json",
      "method_type": "analysis",
      "priority": 5,
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      "method_type": "analysis",
      "priority": 6,
      "description": "AdvancedDAGValidator.export_nodes"
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      "function": "export_causal_network",
      "method_type": "analysis",
      "priority": 7,
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    },
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      "function": "extract_causal_hierarchy",
      "method_type": "extraction",
      "priority": 8,
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    }
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      "pattern": "teoría de cambio|marco lógico|cadena causal|modelo lógico de seguridad",
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      "context_requirement": null,
      "semantic_expansion": null,
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      "specificity": "MEDIUM",
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"context_requirement": null,
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"dimension_id": "DIM06",
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{
"required": true,
"type": "proporcionalidad_eslabones"
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"failure_contract": {

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      "priority": 1,
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      "priority": 2,
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      "function": "_test_sufficiency",
      "method_type": "analysis",
      "priority": 3,
      "description": "BayesianMechanismInference._test_sufficiency"
    },
    {
      "class": "BayesianMechanismInference",
      "function": "_calculate_coherence_factor",
      "method_type": "scoring",
      "priority": 4,
      "description": "BayesianMechanismInference._calculate_coherence_factor"
    },
    {
      "class": "BayesianCounterfactualAuditor",
      "function": "_test_effect_stability",
      "method_type": "analysis",
      "priority": 5,
      "description": "BayesianCounterfactualAuditor._test_effect_stability"
    },
    {
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      "function": "validate_connection_matrix",
      "method_type": "validation",
      "priority": 6,
      "description": "IndustrialGradeValidator.validate_connection_matrix"
    },
    {
      "class": "PolicyAnalysisEmbedder",
      "function": "_compute_overall_confidence",
      "method_type": "analysis",
      "priority": 7,
      "description": "PolicyAnalysisEmbedder._compute_overall_confidence"
    }
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      "validation_rule": null,
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"semantic_expansion": null,
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"context_requirement": null,
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"validations": {
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      "priority": 3,
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      "method_type": "scoring",
      "priority": 7,
      "description": "AdvancedDAGValidator.calculate_acyclicity_pvalue"
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      "method_type": "analysis",
      "priority": 8,
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"semantic_expansion": null,
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    {
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      "type": "mecanismos_correccion"
    },
    {
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      "type": "sistema_monitoreo"
    }
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    "priority": 6,
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    "priority": 7,
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    "flags": "i",
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        "flags": "i",
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        "context_requirement": null,
        "semantic_expansion": null,
        "context_scope": "PARAGRAPH"
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        "threshold": 0.8
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    "method_type": "analysis",
    "priority": 2,
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    "method_type": "analysis",
    "priority": 3,
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    "priority": 7,
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    "method_type": "analysis",
    "priority": 8,
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        "context_requirement": null,
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      {
        "minimum": 3,
        "type": "indicadores_cuantitativos"
      },
      {
        "minimum": 3,
        "type": "series_temporales_años"
      }
    ],
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    "method_type": "analysis",
    "priority": 2,
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    "method_type": "analysis",
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    "description": "IndustrialPolicyProcessor.process"
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    "function": "_match_patterns_in_sentences",
    "method_type": "analysis",
    "priority": 4,
    "description": "IndustrialPolicyProcessor._match_patterns_in_sentences"
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    "method_type": "extraction",
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    "description": "IndustrialPolicyProcessor._extract_point_evidence"
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    "priority": 6,
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    "method_type": "extraction",
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    "priority": 8,
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    "method_type": "extraction",
    "priority": 9,
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    "priority": 11,
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    "priority": 13,
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    "method_type": "analysis",
    "priority": 15,
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  },
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    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
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  "semantic_expansion": null,
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"cobertura de"
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      "priority": 3,
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      "priority": 4,
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      "method_type": "analysis",
      "priority": 5,
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"priority": 10,
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"priority": 11,
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"specificity": "MEDIUM",
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{
"required": true,
"type": "trazabilidad_ppi_bpin"
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"priority": 1,
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"priority": 2,
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"method_type": "analysis",
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"priority": 8,
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"function": "aggregate_risk_and_prioritize",
"method_type": "analysis",
"priority": 13,

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    "semantic_expansion": null,
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    "pattern": "asignación para obras de mitigación|compra de predios",
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    "context_requirement": null,
    "semantic_expansion": null,
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"flags": "i",
"id": "PAT-Q093-008",
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"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
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"validations": {
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      "priority": 1,
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      "priority": 3,
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      "method_type": "analysis",
      "priority": 4,
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      "method_type": "scoring",
      "priority": 5,
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      "priority": 6,
      "description": "PDETMunicipalPlanAnalyzer._consolidate_entities"
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      "function": "extract_entity_activity",
      "method_type": "extraction",
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    "description": "MechanismPartExtractor.extract_entity_activity"
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  {
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    "method_type": "analysis",
    "priority": 8,
    "description": "MechanismPartExtractor._normalize_entity"
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    "method_type": "validation",
    "priority": 9,
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    "priority": 10,
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"priority": 6,
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"priority": 7,
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"semantic_expansion": null,
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"semantic_expansion": null,
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"semantic_expansion": null,
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q095-007",
"match_type": "REGEX",
"pattern": "complejidad técnica de los estudios de riesgo",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"flags": "i",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"scoring_modality": "TYPE_E",
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"validations": {
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{
"required": true,
"type": "columna_producto"
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"required": true,
"type": "columna_responsable"
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{
"required": true,
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}
],
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"method_type": "extraction",
"priority": 1,
"description": "PDFProcessor.extract_tables"
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"class": "FinancialAuditor",
"function": "_process_financial_table",
"method_type": "analysis",
"priority": 2,
"description": "FinancialAuditor._process_financial_table"
},
{

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    "priority": 3,
    "description": "PDETMunicipalPlanAnalyzer._deduplicate_tables"
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    "method_type": "analysis",
    "priority": 4,
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    "priority": 5,
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    "priority": 6,
    "description": "PDETMunicipalPlanAnalyzer._clean_dataframe"
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    "function": "generate_accountability_matrix",
    "method_type": "analysis",
    "priority": 7,
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    "semantic_expansion": null,
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  "question_id": "Q096",
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  "scoring_modality": "TYPE_A",
  "text": "¿Las actividades ambientales y de gestión del riesgo se presentan en un formato estructurado (tabla, cuadro) que incluya colum
  "validations": {
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},
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  {
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    "type": "logica_causal_explicita"
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  {
    "required": true,
    "type": "poblacion_objetivo_definida"
  }
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    "method_type": "analysis",
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    "function": "_infer_mechanism_type",
    "method_type": "analysis",
    "priority": 3,
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    "method_type": "analysis",
    "priority": 4,
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    "priority": 5,
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    "priority": 6,
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    "method_type": "analysis",
    "priority": 7,
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"priority": 8,
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"method_type": "analysis",
"priority": 9,
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"function": "classify_test",
"method_type": "analysis",
"priority": 10,
"description": "BeachEvidentialTest.classify_test"
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{
"class": "IndustrialPolicyProcessor",
"function": "_analyze_causal_dimensions",
"method_type": "analysis",
"priority": 11,
"description": "IndustrialPolicyProcessor._analyze_causal_dimensions"
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q097-003",
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"pattern": "programas de educación ambiental|comparendos ambientales",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH",
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"pattern": "familias en zonas de riesgo|comunidades ribereñas",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
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"pattern": "propietarios de predios en cuencas|sector productivo",
"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
{
"category": "GENERAL",
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"flags": "i",
"id": "PAT-Q097-008",
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"pattern": "lo cual genera resiliencia|porque reduce la contaminación",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
}
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"question_global": 97,
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"text": "¿La descripción de las actividades ambientales detalla el instrumento ('mediante la construcción de un jarillón', 'a través de incen
"validations": {
"completeness_check": {
"type": "completeness",
"threshold": 0.8
}
}
},
{
"base_slot": "D2-Q3",
"cluster_id": "CL01",
"dimension_id": "DIM02",
"expected_elements": [
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"required": true,
"type": "aborda_causa_raiz"
},
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"method_type": "analysis",
"priority": 8,
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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    "priority": 3,
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    "priority": 4,
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    "priority": 6,
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    "function": "_audit_systemic_risk",
    "method_type": "validation",
    "priority": 7,
    "description": "OperationalizationAuditor._audit_systemic_risk"
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"method_type": "analysis",
"priority": 8,
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"function": "refutation_and_sanity_checks",
"method_type": "analysis",
"priority": 9,
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"semantic_expansion": null,
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_requirement": null,
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      "priority": 2,
      "description": "PolicyContradictionDetector._calculate_coherence_metrics"
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      "priority": 3,
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      "method_type": "scoring",
      "priority": 4,
      "description": "PolicyContradictionDetector._calculate_graph_fragmentation"
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      "method_type": "validation",
      "priority": 5,
      "description": "OperationalizationAuditor.audit_sequence_logic"
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      "method_type": "scoring",
      "priority": 6,
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      "method_type": "scoring",
      "priority": 7,
      "description": "PDETMunicipalPlanAnalyzer._score_causal_coherence"
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      "function": "calculate_likelihood_adaptativo",
      "method_type": "scoring",
      "priority": 8,
      "description": "AdaptivePriorCalculator.calculate_likelihood_adaptativo"
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"semantic_expansion": null,
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"specificity": "MEDIUM",
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      "type": "linea_base_producto"
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    {
      "required": true,
      "type": "meta_cuantitativa"
    }
  ],
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      "priority": 1,
      "description": "PDETMunicipalPlanAnalyzer._score_indicators"
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      "method_type": "validation",
      "priority": 2,
      "description": "OperationalizationAuditor.audit_evidence_traceability"
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      "method_type": "analysis",
      "priority": 3,
      "description": "CausalInferenceSetup.assign_probative_value"
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    "priority": 6,
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    "function": "_calculate_quality_score",
    "method_type": "scoring",
    "priority": 7,
    "description": "IndustrialPolicyProcessor._calculate_quality_score"
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    "function": "generate_traceability_record",
    "method_type": "analysis",
    "priority": 8,
    "description": "AdaptivePriorCalculator.generate_traceability_record"
  }
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    "pattern_ref": "PAT-0073"
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    "id": "PAT-Q101-001",
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    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
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    "id": "PAT-Q101-002",
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    "pattern": "metros lineales de jarillón|obras de mitigación construidas",
    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
  },
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    "flags": "i",
    "id": "PAT-Q101-003",
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"flags": "i",
"id": "PAT-Q101-004",
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"pattern": "toneladas de residuos aprovechados",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"flags": "i",
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"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH",
"pattern_ref": "PAT-0008"
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"context_requirement": null,
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"context_requirement": null,
"semantic_expansion": null,
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"pattern_ref": "PAT-0007"
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"flags": "i",
"id": "PAT-Q101-008",
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"pattern": "informes de interventoría|actas de obra|registros de la Secretaría de Planeación",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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    "text": "¿Los indicadores de producto para ambiente (ej. hectáreas reforestadas, metros de jarillón construidos) incluyen 'línea base', 'm
    "validations": {
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        "type": "completeness",
        "threshold": 0.8
      }
    }
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  "text": "¿Se explicita la cadena causal que lleva a la mejora ambiental, mencionando 'supuestos' (ej. 'si la comunidad adopta la separac
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        "method_type": "analysis",
        "priority": 2,
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        "method_type": "analysis",
        "priority": 3,
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        "method_type": "analysis",
        "priority": 4,
        "description": "AdaptivePriorCalculator.sensitivity_analysis"
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        "priority": 5,
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    "priority": 2,
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    "priority": 4,
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      "type": "ruta_transmision"
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      "method_type": "analysis",
      "priority": 5,
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      "priority": 6,
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      "method_type": "analysis",
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"context_requirement": null,
"semantic_expansion": null,
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"flags": "i",
"id": "PAT-Q111-002",
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  "scoring_modality": "TYPE_A",
  "text": "¿El PDM define 'impactos' de largo plazo (ej. 'sostenibilidad hídrica del territorio')? Se debe verificar si se menciona la ruta desde
  "validations": {
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      "type": "completeness",
      "threshold": 0.8
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  }
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  "cluster_id": "CL01",
  "dimension_id": "DIM05",
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    {
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      "type": "usa_indices_compuestos"
    },
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      "type": "usa_proxies"
    }
  ],
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"priority": 2,
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"priority": 4,
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"priority": 6,
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"class": "BayesianMechanismInference",
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"priority": 7,
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  "priority": 16,
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  "method_type": "analysis",
  "priority": 18,
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  "priority": 19,
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  "method_type": "analysis",
  "priority": 20,
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  "priority": 21,
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"match_type": "REGEX",
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"specificity": "MEDIUM",
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      "flags": "i",
      "id": "PAT-Q112-004",
      "match_type": "REGEX",
      "pattern": "la recurrencia de emergencias como proxy inverso de la resiliencia",
      "specificity": "MEDIUM",
      "validation_rule": null,
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      "context_scope": "PARAGRAPH"
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      "confidence_weight": 0.85,
      "flags": "i",
      "id": "PAT-Q112-005",
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      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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  "scoring_modality": "TYPE_A",
  "text": "¿Se utilizan 'índices' (ej. Índice de Sostenibilidad Ambiental) o 'proxies' para medir los impactos en el área ambiental, justificand
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      "type": "reconoce_limitaciones"
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      "method_type": "extraction",
      "priority": 2,
      "description": "SemanticAnalyzer.extract_semantic_cube"
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      "method_type": "analysis",
      "priority": 3,
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      "priority": 4,
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      "priority": 5,
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      "method_type": "analysis",
      "priority": 6,
      "description": "AdaptivePriorCalculator._perturb_evidence"
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      "pattern": "dado que es difícil medir la cultura ambiental|para aproximar la medición",
      "specificity": "MEDIUM",
      "validation_rule": null,
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q113-004",
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"flags": "i",
"id": "PAT-Q113-005",
"match_type": "REGEX",
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"class": "BayesianCounterfactualAuditor",
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"method_type": "analysis",
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"priority": 6,
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      "method_type": "analysis",
      "priority": 7,
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"priority": 1,

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    "method_type": "analysis",
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    "method_type": "scoring",
    "priority": 3,
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    "method_type": "analysis",
    "priority": 4,
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    "method_type": "validation",
    "priority": 5,
    "description": "AdaptivePriorCalculator.validate_quality_criteria"
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    "priority": 6,
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    "method_type": "analysis",
    "priority": 7,
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    "priority": 8,
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"flags": "i",
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"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"flags": "i",
"id": "PAT-Q115-006",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
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        "threshold": 0.8
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        "type": "supuestos_verificables"
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        "required": true,
        "type": "teoria_cambio_explicita"
      }
    ],
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        "method_type": "analysis",
        "priority": 1,
        "description": "TeoriaCambio.construir_grafo_causal"
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        "method_type": "analysis",
        "priority": 2,
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        "function": "export_nodes",
        "method_type": "analysis",
        "priority": 3,
        "description": "TeoriaCambio.export_nodes"
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        "method_type": "analysis",
        "priority": 4,
        "description": "ReportingEngine.generate_causal_diagram"
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        "method_type": "analysis",
        "priority": 5,
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      "priority": 6,
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      "method_type": "analysis",
      "priority": 7,
      "description": "PDETMunicipalPlanAnalyzer.export_causal_network"
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      "function": "extract_causal_hierarchy",
      "method_type": "extraction",
      "priority": 8,
      "description": "CausalExtractor.extract_causal_hierarchy"
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      "context_requirement": null,
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      "pattern": "mediador|variable intermedia|eslabón|conciencia ambiental|adopción de tecnología",
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      "semantic_expansion": null,
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      "pattern_ref": "PAT-0104"
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  "question_global": 116,
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  "scoring_modality": "TYPE_A",
  "text": "¿Existe una 'teoría de cambio' explícita para la gestión ambiental, preferiblemente en un 'diagrama', que identifique causas (ej. f
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      "threshold": 0.8
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  }
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{
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  "dimension_id": "DIM06",
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    },
    {
      "required": true,
      "type": "proporcionalidad_eslabones"
    }
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      "incomplete_text"
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    "method_type": "analysis",
    "priority": 3,
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    "method_type": "scoring",
    "priority": 4,
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  },
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    "method_type": "analysis",
    "priority": 5,
    "description": "BayesianCounterfactualAuditor._test_effect_stability"
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    "method_type": "validation",
    "priority": 6,
    "description": "IndustrialGradeValidator.validate_connection_matrix"
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    "function": "_compute_overall_confidence",
    "method_type": "analysis",
    "priority": 7,
    "description": "PolicyAnalysisEmbedder._compute_overall_confidence"
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    "specificity": "MEDIUM",
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      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH",
      "pattern_ref": "PAT-0098"
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  "question_global": 117,
  "question_id": "Q117",
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  "scoring_modality": "TYPE_A",
  "text": "¿Los saltos en la cadena causal ambiental son proporcionales (ej. un programa de reciclaje no genera por sí solo 'sostenibilidad
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      "threshold": 0.8
    }
  }
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  "dimension_id": "DIM06",
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      "type": "propone_pilotos_o_pruebas"
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    {
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      "type": "reconoce_inconsistencias"
    }
  ],
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    "method_type": "validation",
    "priority": 2,
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    "method_type": "analysis",
    "priority": 3,
    "description": "IndustrialGradeValidator._benchmark_operation"
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    "priority": 4,
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    "method_type": "scoring",
    "priority": 5,
    "description": "HierarchicalGenerativeModel._calculate_r_hat"
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  {
    "class": "HierarchicalGenerativeModel",
    "function": "_calculate_ess",
    "method_type": "scoring",
    "priority": 6,
    "description": "HierarchicalGenerativeModel._calculate_ess"
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  {
    "class": "AdvancedDAGValidator",
    "function": "calculate_acyclicity_pvalue",
    "method_type": "scoring",
    "priority": 7,
    "description": "AdvancedDAGValidator.calculate_acyclicity_pvalue"
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    "function": "analyze_performance",
    "method_type": "analysis",
    "priority": 8,
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  }
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    "flags": "i",
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q118-002",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"flags": "i",
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"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q118-004",
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"pattern": "validar la hipótesis de costo-efectividad",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH",
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"flags": "i",
"id": "PAT-Q118-006",
"match_type": "REGEX",
"pattern": "aprendizaje adaptativo|gestión adaptativa de recursos naturales",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"

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    "scoring_modality": "TYPE_A",
    "text": "¿El plan reconoce 'inconsistencias' en su lógica ambiental y propone 'pilotos' o 'pruebas' para 'testear los supuestos' de sus inte
    "validations": {
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        "threshold": 0.8
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    }
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    "base_slot": "D6-Q4",
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    "dimension_id": "DIM06",
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      {
        "required": true,
        "type": "mecanismos_correccion"
      },
      {
        "required": true,
        "type": "sistema_monitoreo"
      }
    ],
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    "method_sets": [
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        "method_type": "analysis",
        "priority": 1,
        "description": "ConfigLoader.update_priors_from_feedback"
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        "function": "check_uncertainty_reduction_criterion",
        "method_type": "analysis",
        "priority": 2,
        "description": "ConfigLoader.check_uncertainty_reduction_criterion"
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        "method_type": "analysis",
        "priority": 3,
        "description": "ConfigLoader._save_prior_history"
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        "function": "_load_uncertainty_history",
        "method_type": "analysis",
        "priority": 4,
        "description": "ConfigLoader._load_uncertainty_history"
      },
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        "function": "_extract_feedback_from_audit",
        "method_type": "validation",
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    "priority": 5,
    "description": "CDAFFramework._extract_feedback_from_audit"
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  {
    "class": "AdvancedDAGValidator",
    "function": "_calculate_node_importance",
    "method_type": "scoring",
    "priority": 6,
    "description": "AdvancedDAGValidator._calculate_node_importance"
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  {
    "class": "BayesFactorTable",
    "function": "get_bayes_factor",
    "method_type": "analysis",
    "priority": 7,
    "description": "BayesFactorTable.get_bayes_factor"
  }
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    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "flags": "i",
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    "pattern": "monitoreo en tiempo real con imágenes satelitales",
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    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "flags": "i",
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    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
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"context_scope": "PARAGRAPH"
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"id": "PAT-Q119-005",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"match_type": "REGEX",
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
}
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"policy_area_id": "PA03",
"question_global": 119,
"question_id": "Q119",
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"scoring_modality": "TYPE_A",
"text": "¿Se describe un sistema de monitoreo para la gestión ambiental que incluya 'mecanismos de corrección' o 'aprendizaje' para ad
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"type": "completeness",
"threshold": 0.8
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"cluster_id": "CL01",
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"required": true,
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"method_sets": [

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      "method_type": "analysis",
      "priority": 2,
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      "method_type": "analysis",
      "priority": 3,
      "description": "TextMiningEngine.diagnose_critical_links"
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      "function": "identify_failure_points",
      "method_type": "analysis",
      "priority": 4,
      "description": "CausalInferenceSetup.identify_failure_points"
    },
    {
      "class": "CausalInferenceSetup",
      "function": "_get_dynamics_pattern",
      "method_type": "analysis",
      "priority": 5,
      "description": "CausalInferenceSetup._get_dynamics_pattern"
    },
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      "class": "SemanticProcessor",
      "function": "chunk_text",
      "method_type": "analysis",
      "priority": 6,
      "description": "SemanticProcessor.chunk_text"
    },
    {
      "class": "SemanticProcessor",
      "function": "_detect_pdm_structure",
      "method_type": "analysis",
      "priority": 7,
      "description": "SemanticProcessor._detect_pdm_structure"
    },
    {
      "class": "SemanticProcessor",
      "function": "_detect_table",
      "method_type": "analysis",
      "priority": 8,
      "description": "SemanticProcessor._detect_table"
    },
    {
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      "function": "generate_traceability_record",
      "method_type": "analysis",
      "priority": 9,
      "description": "AdaptivePriorCalculator.generate_traceability_record"
    }
  ],
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      "confidence_weight": 0.85,
      "flags": "i",
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      "specificity": "MEDIUM",
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"flags": "i",
"id": "PAT-Q120-001",
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"semantic_expansion": null,
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    {
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    {
      "minimum": 3,
      "type": "series_temporales_años"
    }
  ],
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      "priority": 1,
      "description": "TextMiningEngine.diagnose_critical_links"
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      "function": "_analyze_link_text",
      "method_type": "analysis",
      "priority": 2,
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      "method_type": "analysis",
      "priority": 3,
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"priority": 5,
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"priority": 6,
"description": "CausalExtractor._extract_goals"
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"method_type": "extraction",
"priority": 7,
"description": "CausalExtractor._parse_goal_context"
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"function": "_parse_amount",
"method_type": "extraction",
"priority": 8,
"description": "FinancialAuditor._parse_amount"
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"priority": 9,
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"priority": 10,
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"method_type": "extraction",
"priority": 11,
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"priority": 14,

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      "priority": 15,
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      "method_type": "analysis",
      "priority": 17,
      "description": "SemanticProcessor.embed_single"
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      "pattern": "línea base social|diagnóstico sectorial|situación inicial",
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      "context_requirement": null,
      "semantic_expansion": null,
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      "specificity": "MEDIUM",
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      "flags": "i",
      "id": "PAT-Q121-002",
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  "validation_rule": null,
  "context_requirement": null,
  "semantic_expansion": null,
  "context_scope": "PARAGRAPH"
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  "flags": "i",
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"context_requirement": null,
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"context_scope": "PARAGRAPH"
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"flags": "i",
"id": "PAT-Q121-009",
"match_type": "REGEX",
"pattern": "déficit cuantitativo de vivienda|déficit cualitativo|hacinamiento",
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"validation_rule": null,
"context_requirement": null,
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"context_requirement": null,
"semantic_expansion": null,
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"id": "PAT-Q121-011",
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    "flags": "i",
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    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
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"scoring_modality": "TYPE_A",
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      "cobertura de"
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      "año",
      "periodo",
      "histórico",
      "serie"
    ],
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  "unidades_medicion": {
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    "patterns": [
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      "por 1.000",
      "%",
      "porcentaje",
      "tasa",
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    ],
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  },
  "verificar_fuentes": {
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    "patterns": [
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"DANE",
"DNP",
"SISPRO",
"SIVIGILA",
"Ministerio"
],
"specificity": "MEDIUM"
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{
"required": true,
"type": "vacios_explicitos"
}
],
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"priority": 1,
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"class": "OperationalizationAuditor",
"function": "_audit_systemic_risk",
"method_type": "validation",
"priority": 2,
"description": "OperationalizationAuditor._audit_systemic_risk"
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"function": "_detect_allocation_gaps",
"method_type": "analysis",
"priority": 3,
"description": "FinancialAuditor._detect_allocation_gaps"
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"method_type": "analysis",
"priority": 4,
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      "priority": 6,
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      "method_type": "analysis",
      "priority": 7,
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      "method_type": "analysis",
      "priority": 8,
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      "method_type": "analysis",
      "priority": 9,
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      "function": "_calculate_numerical_divergence",
      "method_type": "scoring",
      "priority": 10,
      "description": "PolicyContradictionDetector._calculate_numerical_divergence"
    },
    {
      "class": "BayesianConfidenceCalculator",
      "function": "calculate_posterior",
      "method_type": "scoring",
      "priority": 11,
      "description": "BayesianConfidenceCalculator.calculate_posterior"
    },
    {
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      "function": "analyze_performance",
      "method_type": "analysis",
      "priority": 12,
      "description": "PerformanceAnalyzer.analyze_performance"
    }
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      "flags": "i",
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      "pattern": "déficit de|población sin acceso a|hogares sin cobertura",
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      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "flags": "i",
      "id": "PAT-Q122-001",
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      "pattern": "barreras de acceso a la salud|barreras geográficas para la educación",
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"validation_rule": null,
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"category": "INDICADOR",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"flags": "i",
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"match_type": "REGEX",
"pattern": "información desactualizada del SISBEN|falta de caracterización",
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
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"category": "GENERAL",
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"flags": "i",
"id": "PAT-Q122-005",
"match_type": "REGEX",
"pattern": "no se cuenta con datos sobre salud mental|vacío de información",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
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"match_type": "REGEX",
"pattern": "subregistro de|dificultad en la medición de la calidad",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
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"context_scope": "PARAGRAPH"
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"category": "GENERAL",
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      "flags": "i",
      "id": "PAT-Q122-007",
      "match_type": "REGEX",
      "pattern": "causas de la deserción escolar|determinantes sociales de la salud",
      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
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  "question_global": 122,
  "question_id": "Q122",
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  "scoring_modality": "TYPE_B",
  "text": "¿El texto dimensiona la magnitud de los problemas sociales (ej. desnutrición, analfabetismo) cuantificando el déficit o la poblacio
  "validations": {
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      "type": "completeness",
      "threshold": 0.8
    }
  }
},
{
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    {
      "required": true,
      "type": "suficiencia_justificada"
    },
    {
      "required": true,
      "type": "trazabilidad_ppi_bpin"
    }
  ],
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      "function": "trace_financial_allocation",
      "method_type": "analysis",
      "priority": 1,
      "description": "FinancialAuditor.trace_financial_allocation"
    },
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      "function": "_process_financial_table",
      "method_type": "analysis",
      "priority": 2,
      "description": "FinancialAuditor._process_financial_table"
    },
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      "function": "_match_program_to_node",
      "method_type": "analysis",
      "priority": 3,
      "description": "FinancialAuditor._match_program_to_node"
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    "priority": 13,
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        "priority": 6,
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"method_type": "analysis",
"priority": 8,
"description": "TeoriaCambio._es_conexion_valida"
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"method_type": "analysis",
"priority": 9,
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"method_type": "analysis",
"priority": 10,
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  "pattern": "población migrante|personas con discapacidad|diversamente hábil|capacidad diversa|movilidad reducida",
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  "context_requirement": null,
  "semantic_expansion": null,
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  "context_requirement": null,
  "semantic_expansion": null,
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"required": true,
"type": "vinculo_diagnostico_actividad"
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"priority": 3,
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"function": "_calculate_type_transition_prior",
"method_type": "scoring",
"priority": 4,
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    "priority": 6,
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    "method_type": "analysis",
    "priority": 7,
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"semantic_expansion": null,
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"text": "¿El PDM vincula explícitamente las actividades (ej. programa de alimentación escolar) con las 'causas raíz' de los problemas so
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      "priority": 3,
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    "method_type": "analysis",
    "priority": 9,
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    "priority": 10,
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    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "pattern": "focalización inadecuada de subsidios|colados en el SISBEN",
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    "context_requirement": null,
    "semantic_expansion": null,
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    "category": "GENERAL",
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"semantic_expansion": null,
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q129-005",
"match_type": "LITERAL",
"pattern": "corrupción en la contratación",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"semantic_expansion": null,
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"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"question_global": 129,
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"scoring_modality": "TYPE_A",
"text": "¿El plan identifica posibles riesgos en la implementación de los programas sociales (ej. focalización inadecuada, baja calidad de
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"type": "completeness",
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}
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"cluster_id": "CL03",
"dimension_id": "DIM02",
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{
"required": true,
"type": "secuenciacion_logica"
}
],
"failure_contract": {
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"function": "_detect_logical_incompatibilities",
"method_type": "analysis",
"priority": 1,
"description": "PolicyContradictionDetector._detect_logical_incompatibilities"
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"function": "_calculate_coherence_metrics",
"method_type": "scoring",
"priority": 2,
"description": "PolicyContradictionDetector._calculate_coherence_metrics"
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"class": "PolicyContradictionDetector",
"function": "_calculate_objective_alignment",
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"priority": 3,
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"function": "_calculate_graph_fragmentation",
"method_type": "scoring",
"priority": 4,
"description": "PolicyContradictionDetector._calculate_graph_fragmentation"
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"priority": 6,
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"method_type": "scoring",
"priority": 7,
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    },
    {
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      "type": "meta_cuantitativa"
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    "method_type": "scoring",
    "priority": 7,
    "description": "IndustrialPolicyProcessor._calculate_quality_score"
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    "context_requirement": null,
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    "context_scope": "PARAGRAPH"
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    "validation_rule": null,
    "context_requirement": null,
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"id": "PAT-Q131-007",
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"semantic_expansion": null,
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  "text": "¿Los indicadores de producto social (ej. cupos escolares creados, familias con subsidio de vivienda) incluyen 'línea base', 'meta
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  ],
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      "priority": 2,
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      "method_type": "analysis",
      "priority": 3,
      "description": "AdaptivePriorCalculator._adjust_domain_weights"
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      "method_type": "analysis",
      "priority": 4,
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      "priority": 5,
      "description": "BayesianMechanismInference._log_refactored_components"
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  "priority": 6,
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  "method_type": "scoring",
  "priority": 9,
  "description": "FinancialAuditor._calculate_sufficiency"
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  "method_type": "analysis",
  "priority": 10,
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  "priority": 11,
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  "method_type": "analysis",
  "priority": 12,
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  "method_type": "scoring",
  "priority": 13,
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  "method_type": "scoring",
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  "method_type": "analysis",
  "priority": 15,
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"priority": 16,
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"function": "_build_point_patterns",
"method_type": "analysis",
"priority": 20,
"description": "IndustrialPolicyProcessor._build_point_patterns"
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"method_type": "analysis",
"priority": 21,
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q132-002",
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"context_requirement": null,
"semantic_expansion": null,
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"flags": "i",
"id": "PAT-Q132-003",
"match_type": "REGEX",
"pattern": "la meta se establece en función de los recursos SGP",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q132-005",
"match_type": "REGEX",
"pattern": "frecuencia de las brigadas de salud|intensidad horaria de los programas culturales",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"scoring_modality": "TYPE_A",
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"threshold": 0.8
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},
{
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"type": "trazabilidad_presupuestal"
}

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    "priority": 1,
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    "priority": 2,
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    "priority": 3,
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    "priority": 5,
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    "priority": 6,
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    "method_type": "analysis",
    "priority": 7,
    "description": "PolicyAnalysisEmbedder.process_document"
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  {
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    "function": "_generate_query_from_pdq",
    "method_type": "analysis",
    "priority": 8,
    "description": "PolicyAnalysisEmbedder._generate_query_from_pdq"
  },
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    "function": "semantic_search",
    "method_type": "analysis",
    "priority": 9,
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"priority": 11,
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"priority": 13,
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"method_type": "analysis",
"priority": 14,
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"function": "_process_segment",
"method_type": "analysis",
"priority": 16,
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"class": "SemanticAnalyzer",
"function": "_calculate_semantic_complexity",
"method_type": "scoring",
"priority": 17,
"description": "SemanticAnalyzer._calculate_semantic_complexity"
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"method_type": "analysis",
"priority": 18,
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"priority": 19,
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"method_type": "analysis",

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      "method_type": "analysis",
      "priority": 21,
      "description": "PolicyAnalysisEmbedder.generate_pdq_report"
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      "method_type": "analysis",
      "priority": 22,
      "description": "ReportingEngine.generate_accountability_matrix"
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      "method_type": "analysis",
      "priority": 9,
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"method_type": "analysis",
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"priority": 20,
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"method_type": "scoring",
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"priority": 26,
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"context_requirement": null,
"semantic_expansion": null,
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"cluster_id": "CL03",
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{
"required": true,
"type": "mecanismo_causal_explicito"

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    "priority": 3,
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    "method_type": "analysis",
    "priority": 6,
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    "method_type": "analysis",
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  "priority": 14,
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  "priority": 16,
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  "priority": 17,
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  "method_type": "analysis",
  "priority": 18,
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  "priority": 19,
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"priority": 22,
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"priority": 23,
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"method_type": "analysis",
"priority": 24,
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"method_type": "analysis",
"priority": 25,
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"id": "PAT-Q135-001",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"flags": "i",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"semantic_expansion": null,
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH",
"pattern_ref": "PAT-0030"
}
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"question_id": "Q135",
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"dimension_id": "DIM04",
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"required": true,
"type": "horizonte_temporal"
},
{
"required": true,
"type": "linea_base_resultado"
},

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      "type": "meta_resultado"
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      "required": true,
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      "method_type": "extraction",
      "priority": 2,
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      "function": "_calculate_language_specificity",
      "method_type": "scoring",
      "priority": 3,
      "description": "CausalExtractor._calculate_language_specificity"
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      "method_type": "scoring",
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      "description": "CausalExtractor._calculate_composite_likelihood"
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      "function": "_calculate_semantic_distance",
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      "priority": 5,
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      "priority": 6,
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      "method_type": "scoring",
      "priority": 7,
      "description": "PDETMunicipalPlanAnalyzer._score_indicators"
    },
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      "class": "PDETMunicipalPlanAnalyzer",
      "function": "_find_outcome_mentions",
      "method_type": "analysis",
      "priority": 8,
      "description": "PDETMunicipalPlanAnalyzer._find_outcome_mentions"
    },
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      "method_type": "scoring",
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      "function": "_extract_goals",
      "method_type": "extraction",
      "priority": 10,
      "description": "CausalExtractor._extract_goals"
    },
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      "class": "CausalExtractor",
      "function": "_parse_goal_context",
      "method_type": "extraction",
      "priority": 11,
      "description": "CausalExtractor._parse_goal_context"
    },
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      "function": "_classify_goal_type",
      "method_type": "analysis",
      "priority": 12,
      "description": "CausalExtractor._classify_goal_type"
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"semantic_expansion": null,
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"semantic_expansion": null,
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{
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"type": "supuestos_identificados"
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    "method_type": "analysis",
    "priority": 2,
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    "method_type": "analysis",
    "priority": 6,
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  },
  {
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    "function": "_perform_sensitivity_analysis_internal",
    "method_type": "analysis",
    "priority": 7,
    "description": "AdvancedDAGValidator._perform_sensitivity_analysis_internal"
  },
  {
    "class": "BayesFactorTable",
    "function": "get_bayes_factor",
    "method_type": "analysis",
    "priority": 8,
    "description": "BayesFactorTable.get_bayes_factor"
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_requirement": null,
"semantic_expansion": null,
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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      {
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        "type": "justificacion_capacidad"
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      {
        "required": true,
        "type": "justificacion_recursos"
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        "method_type": "analysis",
        "priority": 1,
        "description": "PDETMunicipalPlanAnalyzer._get_prior_effect"
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        "method_type": "analysis",
        "priority": 2,
        "description": "PDETMunicipalPlanAnalyzer._estimate_effect_bayesian"
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        "method_type": "analysis",
        "priority": 3,
        "description": "PDETMunicipalPlanAnalyzer._compute_robustness_value"
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        "method_type": "analysis",
        "priority": 4,
        "description": "AdaptivePriorCalculator.sensitivity_analysis"
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        "method_type": "scoring",
        "priority": 5,
        "description": "HierarchicalGenerativeModel._calculate_r_hat"
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      "method_type": "scoring",
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      "function": "_calculate_statistical_power",
      "method_type": "scoring",
      "priority": 7,
      "description": "AdvancedDAGValidator._calculate_statistical_power"
    },
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      "function": "_aggregate_bayesian_confidence",
      "method_type": "analysis",
      "priority": 8,
      "description": "BayesianMechanismInference._aggregate_bayesian_confidence"
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      "flags": "i",
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      "pattern": "meta ambiciosa pero factible|meta realista dado el presupuesto del SGP",
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      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "confidence_weight": 0.85,
      "flags": "i",
      "id": "PAT-Q138-001",
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      "pattern": "la meta se justifica por la construcción de la nueva infraestructura",
      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
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      "specificity": "MEDIUM",
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      "context_requirement": null,
      "semantic_expansion": null,
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      "flags": "i",
      "id": "PAT-Q138-005",
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      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
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  "scoring_modality": "TYPE_A",
  "text": "¿La ambición de las metas de resultado social (ej. 'aumentar la cobertura educativa en 5 puntos') se justifica en función de la inv
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  }
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    {
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    }
  ],
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      "priority": 1,
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"function": "_generate_optimal_remediations",
"method_type": "analysis",
"priority": 4,
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"class": "OperationalizationAuditor",
"function": "_get_remediation_text",
"method_type": "analysis",
"priority": 5,
"description": "OperationalizationAuditor._get_remediation_text"
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"function": "aggregate_risk_and_prioritize",
"method_type": "analysis",
"priority": 6,
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"semantic_expansion": null,
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    "method_type": "scoring",
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    "method_type": "scoring",
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    "priority": 3,
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    "priority": 4,
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    "method_type": "analysis",
    "priority": 5,
    "description": "IndustrialPolicyProcessor._analyze_causal_dimensions"
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  {
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    "function": "validate_quality_criteria",
    "method_type": "validation",
    "priority": 6,
    "description": "AdaptivePriorCalculator.validate_quality_criteria"
  }
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    "context_requirement": null,
    "semantic_expansion": null,
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"flags": "i",
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    "priority": 3,
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    "method_type": "analysis",
    "priority": 4,
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    "priority": 5,
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    "priority": 6,
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    "method_type": "analysis",
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  "context_requirement": null,
  "semantic_expansion": null,
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  "context_requirement": null,
  "semantic_expansion": null,
  "context_scope": "PARAGRAPH"
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  "id": "PAT-Q141-003",
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  "validation_rule": null,
  "context_requirement": null,
  "semantic_expansion": null,
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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{
"required": true,
"type": "usa_proxies"
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"priority": 2,
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"priority": 5,
"description": "PDETMunicipalPlanAnalyzer._interpret_sensitivity"
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"method_type": "scoring",
"priority": 6,
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"method_type": "analysis",
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"priority": 8,
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"priority": 20,
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"function": "_compute_evidence_confidence",
"method_type": "analysis",
"priority": 21,
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"class": "IndustrialPolicyProcessor",
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"method_type": "analysis",
"priority": 22,
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      "priority": 26,
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      "priority": 27,
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      "method_type": "analysis",
      "priority": 28,
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      "specificity": "MEDIUM",
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      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "confidence_weight": 0.85,
      "flags": "i",
      "id": "PAT-Q142-001",
      "match_type": "REGEX",
      "pattern": "Coeficiente de Gini|indicador compuesto de calidad de vida",
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      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_requirement": null,
"semantic_expansion": null,
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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},
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"required": true,
"type": "reconoce_limitaciones"
}

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    "method_type": "analysis",
    "priority": 6,
    "description": "AdaptivePriorCalculator._perturb_evidence"
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    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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"id": "PAT-Q143-003",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"category": "GENERAL",
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"flags": "i",
"id": "PAT-Q143-004",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"policy_area_id": "PA04",
"question_global": 143,
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"scoring_modality": "TYPE_A",
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"dimension_id": "DIM05",
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  {
    "required": true,
    "type": "riesgos_sistemicos"
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],
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    "priority": 2,
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    "priority": 3,
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    "priority": 4,
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  {
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    "method_type": "analysis",
    "priority": 5,
    "description": "PDETMunicipalPlanAnalyzer._interpret_sensitivity"
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    "function": "_break_cycles",
    "method_type": "analysis",
    "priority": 6,
    "description": "PDETMunicipalPlanAnalyzer._break_cycles"
  },
  {
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    "function": "sensitivity_analysis",
    "method_type": "analysis",
    "priority": 7,
    "description": "AdaptivePriorCalculator.sensitivity_analysis"
  }
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"patterns": [
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_requirement": null,
"semantic_expansion": null,
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    "context_requirement": null,
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      "priority": 3,
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      "priority": 4,
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      "priority": 5,
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      "priority": 6,
      "description": "AdvancedDAGValidator.export_nodes"
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      "type": "proporcionalidad_eslabones"
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  ],
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      "method_type": "analysis",
      "priority": 1,
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      "method_type": "analysis",
      "priority": 2,
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    "priority": 4,
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    "priority": 5,
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    "method_type": "analysis",
    "priority": 7,
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"text": "¿Los saltos en la cadena causal social son proporcionales (ej. la entrega de un kit escolar no garantiza por sí sola la calidad edu
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"threshold": 0.8
}
}
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"dimension_id": "DIM06",
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{
"required": true,
"type": "reconoce_inconsistencias"
}
],
"failure_contract": {
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"function": "execute_suite",
"method_type": "analysis",
"priority": 1,
"description": "IndustrialGradeValidator.execute_suite"
},
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"class": "IndustrialGradeValidator",
"function": "validate_engine_readiness",
"method_type": "validation",
"priority": 2,
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      "function": "_benchmark_operation",
      "method_type": "analysis",
      "priority": 3,
      "description": "IndustrialGradeValidator._benchmark_operation"
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      "method_type": "validation",
      "priority": 4,
      "description": "AdaptivePriorCalculator.validate_quality_criteria"
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      "method_type": "scoring",
      "priority": 5,
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      "method_type": "scoring",
      "priority": 6,
      "description": "HierarchicalGenerativeModel._calculate_ess"
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      "function": "calculate_acyclicity_pvalue",
      "method_type": "scoring",
      "priority": 7,
      "description": "AdvancedDAGValidator.calculate_acyclicity_pvalue"
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      "method_type": "analysis",
      "priority": 8,
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      "validation_rule": null,
      "context_requirement": null,
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      "context_scope": "PARAGRAPH",
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      "flags": "i",
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      "pattern": "se requiere validar|es necesario probar si el subsidio genera los incentivos correctos",
      "specificity": "MEDIUM",
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    },
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"context_scope": "PARAGRAPH"
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"context_requirement": null,
"semantic_expansion": null,
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"flags": "i",
"id": "PAT-Q148-004",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_requirement": null,
"semantic_expansion": null,
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"flags": "i",
"id": "PAT-Q148-006",
"match_type": "REGEX",
"pattern": "aprendizaje adaptativo|gestión adaptativa de la política social",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
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"policy_area_id": "PA04",
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      "method_type": "analysis",
      "priority": 4,
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      "priority": 6,
      "description": "AdvancedDAGValidator._calculate_node_importance"
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"semantic_expansion": null,
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      "method_type": "analysis",
      "priority": 2,
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      "method_type": "analysis",
      "priority": 3,
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      "method_type": "analysis",
      "priority": 4,
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      "priority": 5,
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      "method_type": "analysis",
      "priority": 7,
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      "method_type": "analysis",
      "priority": 8,
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      "method_type": "analysis",
      "priority": 9,
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"context_requirement": null,
"semantic_expansion": null,
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"semantic_expansion": null,
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"context_requirement": null,
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"semantic_expansion": null,
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{
"minimum": 3,
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{
"minimum": 3,
"type": "series_temporales_años"
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],
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"priority": 3,
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"method_type": "analysis",
"priority": 4,
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"method_type": "extraction",
"priority": 6,
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"method_type": "extraction",
"priority": 7,
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"method_type": "extraction",
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"priority": 9,
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"priority": 17,
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q151-006",
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    "context_requirement": null,
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    "flags": "i",
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    "specificity": "HIGH"
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          "poblacional"
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          "serie"
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          "tasa",
          "razón"
        ],
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          "datos de",
          "DANE",
          "DNP",
          "SISPRO",
          "SIVIGILA",
          "Ministerio"
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        "type": "cuantificacion_magnitud"
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        "type": "vacios_explicitos"
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      "method_type": "analysis",
      "priority": 8,
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      "pattern": "Enlace Municipal de Víctimas|equipo del Enlace",
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_scope": "PARAGRAPH"
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q154-007",
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"context_requirement": null,
"semantic_expansion": null,
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"context_requirement": null,
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"context_requirement": null,
"semantic_expansion": null,
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}
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    "priority": 1,
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    "priority": 2,
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    "method_type": "analysis",
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  {
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    "method_type": "analysis",
    "priority": 4,
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    "method_type": "analysis",
    "priority": 5,
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  },
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    "function": "_analyze_causal_dimensions",
    "method_type": "analysis",
    "priority": 6,
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  },
  {
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    "method_type": "extraction",
    "priority": 7,
    "description": "IndustrialPolicyProcessor._extract_metadata"
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"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"pattern": "Acuerdo de Paz|Punto 5 sobre Víctimas|PDET",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
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"context_requirement": null,
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_requirement": null,
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"context_requirement": null,
"semantic_expansion": null,
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"id": "PAT-Q155-008",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
}
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"policy_area_id": "PA05",
"question_global": 155,
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"type": "columna_costo"
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      "method_type": "extraction",
      "priority": 1,
      "description": "PDFProcessor.extract_tables"
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      "method_type": "analysis",
      "priority": 2,
      "description": "FinancialAuditor._process_financial_table"
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      "function": "_deduplicate_tables",
      "method_type": "analysis",
      "priority": 3,
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      "method_type": "analysis",
      "priority": 4,
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      "method_type": "analysis",
      "priority": 5,
      "description": "PDETMunicipalPlanAnalyzer._is_likely_header"
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      "method_type": "analysis",
      "priority": 6,
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      "function": "generate_accountability_matrix",
      "method_type": "analysis",
      "priority": 7,
      "description": "ReportingEngine.generate_accountability_matrix"
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      "flags": "i",
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"context_requirement": null,
"semantic_expansion": null,
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"id": "PAT-Q156-002",
"match_type": "REGEX",
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"context_requirement": null,
"semantic_expansion": null,
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    "question_global": 156,
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    "text": "¿Las actividades para las víctimas y la paz se presentan en un formato estructurado (tabla, cuadro) que incluya columnas para "
    "validations": {
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      {
        "required": true,
        "type": "logica_causal_explicita"
      },
      {
        "required": true,
        "type": "poblacion_objetivo_definida"
      }
    ],
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        "incomplete_text"
      ],
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        "method_type": "analysis",
        "priority": 1,
        "description": "BayesianMechanismInference.infer_mechanisms"
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        "class": "BayesianMechanismInference",
        "function": "_infer_single_mechanism",
        "method_type": "analysis",
        "priority": 2,
        "description": "BayesianMechanismInference._infer_single_mechanism"
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        "function": "_infer_mechanism_type",
        "method_type": "analysis",
        "priority": 3,
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"priority": 4,
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"function": "_test_necessity",
"method_type": "analysis",
"priority": 5,
"description": "BayesianMechanismInference._test_necessity"
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"method_type": "extraction",
"priority": 6,
"description": "CausalExtractor.extract_causal_hierarchy"
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"method_type": "analysis",
"priority": 7,
"description": "TeoriaCambio.construir_grafo_causal"
},
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"class": "TeoriaCambio",
"function": "_es_conexion_valida",
"method_type": "analysis",
"priority": 8,
"description": "TeoriaCambio._es_conexion_valida"
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"function": "construct_causal_dag",
"method_type": "analysis",
"priority": 9,
"description": "PDETMunicipalPlanAnalyzer.construct_causal_dag"
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"class": "BeachEvidentialTest",
"function": "classify_test",
"method_type": "analysis",
"priority": 10,
"description": "BeachEvidentialTest.classify_test"
},
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"class": "IndustrialPolicyProcessor",
"function": "_analyze_causal_dimensions",
"method_type": "analysis",
"priority": 11,
"description": "IndustrialPolicyProcessor._analyze_causal_dimensions"
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH",
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  "pattern": "entrega de ayuda humanitaria|asistencia funeraria",
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  "validation_rule": null,
  "context_requirement": null,
  "semantic_expansion": null,
  "context_scope": "PARAGRAPH"
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  "flags": "i",
  "id": "PAT-Q157-002",
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  "pattern": "acompañamiento psicosocial|rehabilitación comunitaria",
  "specificity": "MEDIUM",
  "validation_rule": null,
  "context_requirement": null,
  "semantic_expansion": null,
  "context_scope": "PARAGRAPH"
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  "flags": "i",
  "id": "PAT-Q157-003",
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  "pattern": "proyectos productivos|generación de ingresos para víctimas",
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  "validation_rule": null,
  "context_requirement": null,
  "semantic_expansion": null,
  "context_scope": "PARAGRAPH"
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  "context_requirement": null,
  "semantic_expansion": null,
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  "pattern_ref": "PAT-0086"
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  "flags": "i",
  "id": "PAT-Q157-005",
  "match_type": "REGEX",
  "pattern": "víctimas de desplazamiento forzado|víctimas de violencia sexual",
  "specificity": "MEDIUM",
  "validation_rule": null,
  "context_requirement": null,
  "semantic_expansion": null,
  "context_scope": "PARAGRAPH"
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"pattern": "lo cual permite la estabilización socioeconómica|porque fortalece el tejido social",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"policy_area_id": "PA05",
"question_global": 157,
"question_id": "Q157",
"scoring_definition_ref": "scoring_modalities.TYPE_A",
"scoring_modality": "TYPE_A",
"text": "¿La descripción de las actividades para víctimas detalla el instrumento ('mediante indemnización administrativa', 'a través de pro
"validations": {
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"type": "completeness",
"threshold": 0.8
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}
},
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"base_slot": "D2-Q3",
"cluster_id": "CL02",
"dimension_id": "DIM02",
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"required": true,
"type": "aborda_causa_raiz"
},
{
"required": true,
"type": "vinculo_diagnostico_actividad"
}
],
"failure_contract": {
"abort_if": [
"missing_required_element",
"incomplete_text"
],
"emit_code": "ABORT-Q158-REQ"
},
"method_sets": [
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"class": "CausalExtractor",
"function": "_extract_causal_links",
"method_type": "extraction",
"priority": 1,
"description": "CausalExtractor._extract_causal_links"

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      "function": "_calculate_composite_likelihood",
      "method_type": "scoring",
      "priority": 2,
      "description": "CausalExtractor._calculate_composite_likelihood"
    },
    {
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      "function": "_initialize_prior",
      "method_type": "analysis",
      "priority": 3,
      "description": "CausalExtractor._initialize_prior"
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    {
      "class": "CausalExtractor",
      "function": "_calculate_type_transition_prior",
      "method_type": "scoring",
      "priority": 4,
      "description": "CausalExtractor._calculate_type_transition_prior"
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      "class": "PDETMunicipalPlanAnalyzer",
      "function": "_identify_causal_edges",
      "method_type": "analysis",
      "priority": 5,
      "description": "PDETMunicipalPlanAnalyzer._identify_causal_edges"
    },
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      "class": "PDETMunicipalPlanAnalyzer",
      "function": "_refine_edge_probabilities",
      "method_type": "analysis",
      "priority": 6,
      "description": "PDETMunicipalPlanAnalyzer._refine_edge_probabilities"
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      "function": "construct_scm",
      "method_type": "analysis",
      "priority": 7,
      "description": "BayesianCounterfactualAuditor.construct_scm"
    },
    {
      "class": "BayesianCounterfactualAuditor",
      "function": "_create_default_equations",
      "method_type": "analysis",
      "priority": 8,
      "description": "BayesianCounterfactualAuditor._create_default_equations"
    },
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      "class": "SemanticAnalyzer",
      "function": "extract_semantic_cube",
      "method_type": "extraction",
      "priority": 9,
      "description": "SemanticAnalyzer.extract_semantic_cube"
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      "confidence_weight": 0.85,
      "flags": "i",
      "id": "PAT-Q158-000",
      "match_type": "REGEX",
      "pattern": "para abordar el daño causado|en respuesta a la necesidad de",
      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
    },
    {
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    "id": "PAT-Q158-001",
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    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
  },
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    "category": "GENERAL",
    "confidence_weight": 0.85,
    "flags": "i",
    "id": "PAT-Q158-002",
    "match_type": "REGEX",
    "pattern": "causa estructural del conflicto|factor de persistencia de la violencia",
    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
  },
  {
    "category": "GENERAL",
    "confidence_weight": 0.85,
    "flags": "i",
    "id": "PAT-Q158-003",
    "match_type": "REGEX",
    "pattern": "necesidades de rehabilitación psicosocial|requerimientos de generación de ingresos",
    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "category": "GENERAL",
    "confidence_weight": 0.85,
    "flags": "i",
    "id": "PAT-Q158-004",
    "match_type": "REGEX",
    "pattern": "dignificación de las víctimas|reconocimiento del buen nombre",
    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
  },
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    "category": "TEMPORAL",
    "confidence_weight": 0.85,
    "flags": "i",
    "id": "PAT-Q158-005",
    "match_type": "REGEX",
    "pattern": "árbol de problemas|diagnóstico del daño",
    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
  }
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"question_global": 158,
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"scoring_modality": "TYPE_A",
"text": "¿El PDM vincula explícitamente las actividades (ej. actos de memoria) con las 'causas raíz' del conflicto y las necesidades de la
"validations": {
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      "type": "completeness",
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  }
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{
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    },
    {
      "required": true,
      "type": "riesgos_identificados"
    }
  ],
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      "priority": 1,
      "description": "PDETMunicipalPlanAnalyzer._bayesian_risk_inference"
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      "function": "sensitivity_analysis",
      "method_type": "analysis",
      "priority": 2,
      "description": "PDETMunicipalPlanAnalyzer.sensitivity_analysis"
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      "class": "PDETMunicipalPlanAnalyzer",
      "function": "_interpret_risk",
      "method_type": "analysis",
      "priority": 3,
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      "function": "_audit_systemic_risk",
      "method_type": "validation",
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    "method_type": "analysis",
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    "method_type": "analysis",
    "priority": 10,
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    "context_requirement": null,
    "semantic_expansion": null,
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    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"method_type": "scoring",
"priority": 2,
"description": "PolicyContradictionDetector._calculate_coherence_metrics"
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"priority": 3,
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"priority": 4,
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"method_type": "validation",
"priority": 5,
"description": "OperationalizationAuditor.audit_sequence_logic"
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"method_type": "scoring",
"priority": 6,
"description": "BayesianMechanismInference._calculate_coherence_factor"
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    "context_scope": "PARAGRAPH"
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    "pattern": "la rehabilitación psicosocial complementa la indemnización",
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    "semantic_expansion": null,
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    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "flags": "i",
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    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "confidence_weight": 0.85,
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      "pattern": "la estrategia combina los cinco componentes de la reparación integral",
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      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
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  "text": "¿El conjunto de actividades para las víctimas demuestra una estrategia coherente? Se debe buscar evidencia de 'complementar
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    {
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    },
    {
      "required": true,
      "type": "meta_cuantitativa"
    }
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      "priority": 1,
      "description": "PDETMunicipalPlanAnalyzer._score_indicators"
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      "method_type": "validation",
      "priority": 2,
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      "method_type": "analysis",
      "priority": 3,
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"priority": 6,
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"function": "_calculate_quality_score",
"method_type": "scoring",
"priority": 7,
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"priority": 8,
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"context_requirement": null,
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      "context_requirement": null,
      "semantic_expansion": null,
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      "flags": "i",
      "id": "PAT-Q161-009",
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      "pattern": "informes de la UARIV|actas del CTJT|listados de beneficiarios",
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      "context_requirement": null,
      "semantic_expansion": null,
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  "scoring_modality": "TYPE_A",
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      "threshold": 0.8
    }
  }
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  "cluster_id": "CL02",
  "dimension_id": "DIM03",
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      "type": "proporcionalidad_meta_problema"
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  ],
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      "incomplete_text"
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      "priority": 1,
      "description": "AdvancedDAGValidator._calculate_bayesian_posterior"
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      "function": "_calculate_confidence_interval",
      "method_type": "scoring",
      "priority": 2,
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      "function": "_adjust_domain_weights",
      "method_type": "analysis",
      "priority": 3,
      "description": "AdaptivePriorCalculator._adjust_domain_weights"
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"method_type": "analysis",
"priority": 5,
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"method_type": "analysis",
"priority": 6,
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"priority": 8,
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"function": "_calculate_sufficiency",
"method_type": "scoring",
"priority": 9,
"description": "FinancialAuditor._calculate_sufficiency"
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"class": "BayesianMechanismInference",
"function": "_test_sufficiency",
"method_type": "analysis",
"priority": 10,
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"method_type": "analysis",
"priority": 11,
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"method_type": "analysis",
"priority": 12,
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"priority": 13,
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"method_type": "scoring",

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    "description": "IndustrialPolicyProcessor._calculate_quality_score"
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  {
    "class": "TeoriaCambio",
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    "method_type": "analysis",
    "priority": 15,
    "description": "TeoriaCambio._generar_sugerencias_internas"
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    "method_type": "analysis",
    "priority": 16,
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    "method_type": "analysis",
    "priority": 17,
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    "function": "_generate_recommendations",
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    "priority": 18,
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    "priority": 19,
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    "method_type": "analysis",
    "priority": 20,
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    "priority": 21,
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  }
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    "flags": "i",
    "id": "PAT-Q162-000",
    "match_type": "REGEX",
    "pattern": "la meta de indemnización cubre un X% del universo por indemnizar",
    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "flags": "i",
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"specificity": "MEDIUM",
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"context_scope": "PARAGRAPH"
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"pattern": "universo de atención|población víctima total en el RUV",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"specificity": "MEDIUM",
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"scoring_modality": "TYPE_A",
"text": "¿Las metas de los productos (ej. 'reparar a 1.000 víctimas') son proporcionales a la magnitud del universo de víctimas diagnosti
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"threshold": 0.8
}
}
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      "priority": 5,
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      "method_type": "scoring",
      "priority": 6,
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"priority": 19,
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"context_scope": "PARAGRAPH"
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"flags": "i",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"category": "TERRITORIAL",
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"id": "PAT-Q163-005",
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"context_requirement": null,
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"context_requirement": null,
"semantic_expansion": null,
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"pattern_ref": "PAT-0048"
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"text": "¿Los productos para víctimas tienen trazabilidad presupuestal (vinculados a códigos BPIN, PPI) y organizacional (asociados al "
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      "method_type": "analysis",
      "priority": 2,
      "description": "AdvancedDAGValidator._is_acyclic"
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      "method_type": "analysis",
      "priority": 3,
      "description": "AdvancedDAGValidator.get_graph_stats"
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      "function": "_calculate_node_importance",
      "method_type": "scoring",
      "priority": 4,
      "description": "AdvancedDAGValidator._calculate_node_importance"
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      "function": "_generate_subgraph",
      "method_type": "analysis",
      "priority": 5,
      "description": "AdvancedDAGValidator._generate_subgraph"
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      "method_type": "analysis",
      "priority": 6,
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      "method_type": "analysis",
      "priority": 7,
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      "method_type": "analysis",
      "priority": 8,
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  "method_type": "analysis",
  "priority": 12,
  "description": "AdvancedDAGValidator._create_empty_result"
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  "method_type": "analysis",
  "priority": 13,
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  "method_type": "validation",
  "priority": 15,
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  "method_type": "analysis",
  "priority": 16,
  "description": "IndustrialGradeValidator.run_performance_benchmarks"
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  "method_type": "analysis",
  "priority": 17,
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  "method_type": "analysis",
  "priority": 18,
  "description": "IndustrialGradeValidator._log_metric"
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  "class": "IndustrialGradeValidator",
  "function": "validate_engine_readiness",

"method_type": "validation",
"priority": 19,
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"method_type": "analysis",
"priority": 20,
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"method_type": "scoring",
"priority": 21,
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"priority": 24,
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"method_type": "validation",
"priority": 25,
"description": "IndustrialGradeValidator.validate_causal_categories"
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"priority": 26,
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"context_requirement": null,
"semantic_expansion": null,
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    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "flags": "i",
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    "pattern": "plazo para concertar los planes de retorno",
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    "context_requirement": null,
    "semantic_expansion": null,
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    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
  }
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"question_global": 164,
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"scoring_modality": "TYPE_A",
"text": "¿Existe una relación factible entre la actividad (ej. 'acompañamiento a retornos') y la meta del producto asociado (ej. '500 familia
"validations": {
  "completeness_check": {
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}
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},
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    {
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      "type": "mecanismo_causal_explicito"
    }
  ],
  "failure_contract": {
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      "method_type": "analysis",
      "priority": 1,
      "description": "PDETMunicipalPlanAnalyzer._identify_confounders"
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      "priority": 6,
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      "method_type": "analysis",
      "priority": 7,
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"class": "BayesianCounterfactualAuditor",
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"function": "_assess_financial_consistency",
"method_type": "analysis",
"priority": 9,
"description": "CausalExtractor._assess_financial_consistency"
},
{
"class": "BayesianMechanismInference",
"function": "_infer_activity_sequence",
"method_type": "analysis",
"priority": 10,
"description": "BayesianMechanismInference._infer_activity_sequence"
},
{
"class": "BayesianMechanismInference",
"function": "_generate_necessity_remediation",
"method_type": "analysis",
"priority": 11,
"description": "BayesianMechanismInference._generate_necessity_remediation"
},
{
"class": "BayesianCounterfactualAuditor",
"function": "refutation_and_sanity_checks",
"method_type": "analysis",
"priority": 12,
"description": "BayesianCounterfactualAuditor.refutation_and_sanity_checks"
},
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"class": "IndustrialPolicyProcessor",
"function": "_load_questionnaire",
"method_type": "analysis",
"priority": 13,
"description": "IndustrialPolicyProcessor._load_questionnaire"
},
{
"class": "PDETMunicipalPlanAnalyzer",
"function": "analyze_financial_feasibility",
"method_type": "analysis",
"priority": 14,
"description": "PDETMunicipalPlanAnalyzer.analyze_financial_feasibility"
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"function": "construct_causal_dag",
"method_type": "analysis",
"priority": 15,
"description": "PDETMunicipalPlanAnalyzer.construct_causal_dag"
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"class": "PDETMunicipalPlanAnalyzer",
"function": "estimate_causal_effects",
"method_type": "analysis",
"priority": 16,
"description": "PDETMunicipalPlanAnalyzer.estimate_causal_effects"
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{
"class": "PDETMunicipalPlanAnalyzer",
"function": "generate_counterfactuals",
"method_type": "analysis",
"priority": 17,
"description": "PDETMunicipalPlanAnalyzer.generate_counterfactuals"
},
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"method_type": "analysis",

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    "priority": 18,
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    "function": "_check_structural_violation",
    "method_type": "analysis",
    "priority": 19,
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    "method_type": "scoring",
    "priority": 20,
    "description": "CausalExtractor._calculate_type_transition_prior"
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    "method_type": "scoring",
    "priority": 21,
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    "method_type": "analysis",
    "priority": 7,
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    "method_type": "analysis",
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      "method_type": "scoring",
      "priority": 7,
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      "method_type": "analysis",
      "priority": 8,
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"required": true,
"type": "vinculo_resultado_problema"
}
],
"failure_contract": {
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    "priority": 3,
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    "method_type": "analysis",
    "priority": 6,
    "description": "BayesianCounterfactualAuditor.aggregate_risk_and_prioritize"
  },
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    "method_type": "analysis",
    "priority": 7,
    "description": "FinancialAuditor._detect_allocation_gaps"
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    "context_requirement": null,
    "semantic_expansion": null,
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    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "flags": "i",
    "id": "PAT-Q169-003",
    "match_type": "REGEX",
    "pattern": "criterio de éxito|se considerará un logro si mejora la convivencia",
    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "validation_rule": null,
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    "semantic_expansion": null,
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    "pattern_ref": "PAT-0108"
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    "flags": "i",
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    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
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    "context_scope": "PARAGRAPH",
    "pattern_ref": "PAT-0078"
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"validations": {
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    "type": "completeness",
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    {
      "required": true,
      "type": "alineacion_ods"
    },
    {
      "required": true,
      "type": "alineacion_pnd"
    }
  ],
  "failure_contract": {
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      "incomplete_text"
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      "method_type": "scoring",
      "priority": 1,
      "description": "PDETMunicipalPlanAnalyzer._score_pdet_alignment"
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      "function": "_score_causal_coherence",
      "method_type": "scoring",
      "priority": 2,
      "description": "PDETMunicipalPlanAnalyzer._score_causal_coherence"
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      "method_type": "validation",
      "priority": 3,
      "description": "CDAFFramework._validate_dnp_compliance"
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    {
      "class": "CDAFFramework",
      "function": "_generate_dnp_report",
      "method_type": "analysis",
      "priority": 4,
      "description": "CDAFFramework._generate_dnp_report"
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      "method_type": "analysis",
      "priority": 5,
      "description": "IndustrialPolicyProcessor._analyze_causal_dimensions"
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      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
    },
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      "match_type": "REGEX",
      "pattern": "implementación de iniciativas PDET|Programas de Desarrollo con Enfoque Territorial",
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      "validation_rule": null,
      "context_requirement": null,
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      "semantic_expansion": null,
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      "flags": "i",
      "id": "PAT-Q170-004",
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      "validation_rule": null,
      "context_requirement": null,
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  "question_global": 170,
  "question_id": "Q170",
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  "scoring_modality": "TYPE_A",
  "text": "¿El plan declara la alineación de sus resultados de paz y víctimas con marcos superiores como el PND, los Acuerdos de Paz o l
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      "threshold": 0.8
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    {
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    },
    {
      "required": true,
      "type": "ruta_transmision"
    }
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      "method_type": "analysis",
      "priority": 1,
      "description": "PDETMunicipalPlanAnalyzer.generate_counterfactuals"
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      "priority": 2,
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      "priority": 3,
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      "function": "_find_mediator_mentions",
      "method_type": "analysis",
      "priority": 4,
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    {
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      "function": "_validar_orden_causal",
      "method_type": "analysis",
      "priority": 5,
      "description": "TeoriaCambio._validar_orden_causal"
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    {
      "class": "CausalExtractor",
      "function": "_assess_temporal_coherence",
      "method_type": "analysis",
      "priority": 6,
      "description": "CausalExtractor._assess_temporal_coherence"
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      "function": "_generate_interventions",
      "method_type": "analysis",
      "priority": 7,
      "description": "TextMiningEngine._generate_interventions"
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      "function": "construct_scm",
      "method_type": "analysis",
      "priority": 8,
      "description": "BayesianCounterfactualAuditor.construct_scm"
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      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
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      "pattern_ref": "PAT-0070"
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      "flags": "i",
      "id": "PAT-Q171-001",
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      "pattern": "reconciliación|paz estable y duradera|superación del conflicto",
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      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "flags": "i",
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      "pattern": "restablecimiento del tejido social|confianza ciudadana",
      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "flags": "i",
      "id": "PAT-Q171-003",
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      "context_requirement": null,
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"flags": "i",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"text": "¿El PDM define 'impactos' de largo plazo para la construcción de paz (ej. 'reconciliación territorial', 'garantías de no repetición')?
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},
{
"required": true,
"type": "usa_proxies"
}
],
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"incomplete_text"
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"method_type": "scoring",
"priority": 1,
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"function": "_estimate_score_confidence",
"method_type": "scoring",

"priority": 2,
"description": "PDETMunicipalPlanAnalyzer._estimate_score_confidence"
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"class": "PDETMunicipalPlanAnalyzer",
"function": "_compute_e_value",
"method_type": "analysis",
"priority": 3,
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"function": "_compute_robustness_value",
"method_type": "analysis",
"priority": 4,
"description": "PDETMunicipalPlanAnalyzer._compute_robustness_value"
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"function": "_interpret_sensitivity",
"method_type": "analysis",
"priority": 5,
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"class": "ReportingEngine",
"function": "_calculate_quality_score",
"method_type": "scoring",
"priority": 6,
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},
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"method_type": "analysis",
"priority": 7,
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"function": "evaluate_policy_numerical_consistency",
"method_type": "analysis",
"priority": 8,
"description": "PolicyAnalysisEmbedder.evaluate_policy_numerical_consistency"
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"function": "get_diagnostics",
"method_type": "analysis",
"priority": 9,
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},
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"class": "PolicyAnalysisEmbedder",
"function": "process_document",
"method_type": "analysis",
"priority": 10,
"description": "PolicyAnalysisEmbedder.process_document"
},
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"class": "PolicyAnalysisEmbedder",
"function": "_generate_query_from_pdq",
"method_type": "analysis",
"priority": 11,
"description": "PolicyAnalysisEmbedder._generate_query_from_pdq"
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"method_type": "analysis",
"priority": 12,
"description": "PolicyAnalysisEmbedder._filter_by_pdq"
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  "function": "_extract_numerical_values",
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  "priority": 13,
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  "function": "_embed_texts",
  "method_type": "analysis",
  "priority": 14,
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  "function": "_compute_overall_confidence",
  "method_type": "analysis",
  "priority": 15,
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  "class": "FinancialAuditor",
  "function": "_calculate_sufficiency",
  "method_type": "scoring",
  "priority": 16,
  "description": "FinancialAuditor._calculate_sufficiency"
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  "function": "_interpret_overall_quality",
  "method_type": "analysis",
  "priority": 17,
  "description": "PDETMunicipalPlanAnalyzer._interpret_overall_quality"
},
{
  "class": "BayesianCounterfactualAuditor",
  "function": "aggregate_risk_and_prioritize",
  "method_type": "analysis",
  "priority": 18,
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  "class": "PolicyTextProcessor",
  "function": "normalize_unicode",
  "method_type": "analysis",
  "priority": 19,
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  "function": "segment_into_sentences",
  "method_type": "analysis",
  "priority": 20,
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  "class": "IndustrialPolicyProcessor",
  "function": "_compute_evidence_confidence",
  "method_type": "analysis",
  "priority": 21,
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  "class": "IndustrialPolicyProcessor",
  "function": "_compute_avg_confidence",
  "method_type": "analysis",
  "priority": 22,
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"priority": 23,
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"method_type": "analysis",
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"class": "PolicyTextProcessor",
"function": "compile_pattern",
"method_type": "analysis",
"priority": 25,
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"class": "PolicyTextProcessor",
"function": "extract_contextual_window",
"method_type": "extraction",
"priority": 26,
"description": "PolicyTextProcessor.extract_contextual_window"
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"function": "generate_executive_report",
"method_type": "analysis",
"priority": 27,
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"method_type": "analysis",
"priority": 28,
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"match_type": "REGEX",
"pattern": "Índice de Paz Territorial|Índice de Reconciliación|Índice de Confianza Institucional",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q172-001",
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"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH",
"pattern_ref": "PAT-0072"
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{
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"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q172-002",
"match_type": "REGEX",

"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH",
"pattern_ref": "PAT-0099"
},
{
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"flags": "i",
"id": "PAT-Q172-003",
"match_type": "REGEX",
"pattern": "las encuestas de confianza interpersonal como proxy del tejido social",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
{
"category": "GENERAL",
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"flags": "i",
"id": "PAT-Q172-004",
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"pattern": "el número de acciones colectivas entre excombatientes y víctimas como proxy de reconciliación",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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{
"category": "INDICADOR",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q172-005",
"match_type": "REGEX",
"pattern": "este indicador es válido porque refleja|captura la percepción de paz",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
}
],
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"scoring_modality": "TYPE_A",
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"validations": {
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},
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      "priority": 2,
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      "method_type": "analysis",
      "priority": 3,
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      "method_type": "analysis",
      "priority": 4,
      "description": "PDETMunicipalPlanAnalyzer._find_mediator_mentions"
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      "method_type": "analysis",
      "priority": 5,
      "description": "PolicyAnalysisEmbedder.get_diagnostics"
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      "method_type": "analysis",
      "priority": 6,
      "description": "AdaptivePriorCalculator._perturb_evidence"
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      "semantic_expansion": null,
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    "semantic_expansion": null,
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    "context_requirement": null,
    "semantic_expansion": null,
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    "context_requirement": null,
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    "match_type": "REGEX",
    "pattern": "aunque imperfecto, este proxy nos da una señal de cohesión social",
    "specificity": "MEDIUM",
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    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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"text": "Cuando un impacto en la paz es difícil de medir (ej. 'sanación del tejido social'), ¿se recurre a un 'proxy'? Se valora si el texto do
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    "type": "completeness",
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        "required": true,
        "type": "riesgos_sistemicos"
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    ],
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        "incomplete_text"
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        "method_type": "validation",
        "priority": 1,
        "description": "OperationalizationAuditor._audit_systemic_risk"
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        "method_type": "analysis",
        "priority": 2,
        "description": "BayesianCounterfactualAuditor.refutation_and_sanity_checks"
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        "class": "BayesianCounterfactualAuditor",
        "function": "_test_effect_stability",
        "method_type": "analysis",
        "priority": 3,
        "description": "BayesianCounterfactualAuditor._test_effect_stability"
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        "method_type": "analysis",
        "priority": 4,
        "description": "PDETMunicipalPlanAnalyzer._interpret_risk"
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        "function": "_interpret_sensitivity",
        "method_type": "analysis",
        "priority": 5,
        "description": "PDETMunicipalPlanAnalyzer._interpret_sensitivity"
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        "method_type": "analysis",
        "priority": 6,
        "description": "PDETMunicipalPlanAnalyzer._break_cycles"
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      {
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        "method_type": "analysis",
        "priority": 7,
        "description": "AdaptivePriorCalculator.sensitivity_analysis"
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  }
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    "context_requirement": null,
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    "flags": "i",
    "id": "PAT-Q174-002",
    "match_type": "REGEX",
    "pattern": "reconfiguración del conflicto armado|surgimiento de nuevos actores",
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    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
  },
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    "pattern": "crisis social o económica que exacerbe las tensiones",
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    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "id": "PAT-Q174-004",
    "match_type": "REGEX",
    "pattern": "estos factores podrían revertir los avances en la construcción de paz",
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    "context_requirement": null,
    "semantic_expansion": null,
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    "flags": "i",
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"semantic_expansion": null,
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"pattern": "estrategias de resiliencia comunitaria|diplomacia local",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"text": "¿Los impactos en la paz se alinean con marcos nacionales/globales y consideran 'riesgos sistémicos' (ej. reconfiguración del co
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},
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"dimension_id": "DIM05",
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"type": "analisis_realismo"
},
{
"required": true,
"type": "efectos_no_deseados"
},
{
"required": true,
"type": "hipotesis_limite"
}
],
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"incomplete_text"
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"function": "posterior_predictive_check",
"method_type": "analysis",
"priority": 1,
"description": "HierarchicalGenerativeModel.posterior_predictive_check"
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{
"class": "HierarchicalGenerativeModel",
"function": "_ablation_analysis",
"method_type": "analysis",
"priority": 2,

"description": "HierarchicalGenerativeModel._ablation_analysis"
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"class": "HierarchicalGenerativeModel",
"function": "_calculate_waic_difference",
"method_type": "scoring",
"priority": 3,
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"function": "_add_ood_noise",
"method_type": "analysis",
"priority": 4,
"description": "AdaptivePriorCalculator._add_ood_noise"
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"function": "validate_quality_criteria",
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"priority": 5,
"description": "AdaptivePriorCalculator.validate_quality_criteria"
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"method_type": "analysis",
"priority": 6,
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"class": "PDETMunicipalPlanAnalyzer",
"function": "_compute_robustness_value",
"method_type": "analysis",
"priority": 7,
"description": "PDETMunicipalPlanAnalyzer._compute_robustness_value"
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"class": "BayesianMechanismInference",
"function": "_calculate_coherence_factor",
"method_type": "scoring",
"priority": 8,
"description": "BayesianMechanismInference._calculate_coherence_factor"
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q175-001",
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"semantic_expansion": null,
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"pattern_ref": "PAT-0053"
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"flags": "i",
"id": "PAT-Q175-002",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
{
"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q175-003",
"match_type": "REGEX",
"pattern": "posible estigmatización de personas en reincorporación",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"flags": "i",
"id": "PAT-Q175-004",
"match_type": "REGEX",
"pattern": "trade-off entre justicia y paz|costo de oportunidad",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"flags": "i",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"flags": "i",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH",
"pattern_ref": "PAT-0103"
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"question_global": 175,
"question_id": "Q175",
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"scoring_modality": "TYPE_A",
"text": "¿La ambición del impacto de la construcción de paz (ej. 'paz total y duradera') es realista? Se debe buscar si se analizan 'efecto
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  }
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  "cluster_id": "CL02",
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    {
      "required": true,
      "type": "supuestos_verificables"
    },
    {
      "required": true,
      "type": "teoria_cambio_explicita"
    }
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      "incomplete_text"
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      "method_type": "analysis",
      "priority": 1,
      "description": "TeoriaCambio.construir_grafo_causal"
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      "class": "TeoriaCambio",
      "function": "validacion_completa",
      "method_type": "analysis",
      "priority": 2,
      "description": "TeoriaCambio.validacion_completa"
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      "method_type": "analysis",
      "priority": 3,
      "description": "TeoriaCambio.export_nodes"
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      "method_type": "analysis",
      "priority": 4,
      "description": "ReportingEngine.generate_causal_diagram"
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      "class": "ReportingEngine",
      "function": "generate_causal_model_json",
      "method_type": "analysis",
      "priority": 5,
      "description": "ReportingEngine.generate_causal_model_json"
    },
    {
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      "function": "export_nodes",
      "method_type": "analysis",
      "priority": 6,
      "description": "AdvancedDAGValidator.export_nodes"
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      "function": "export_causal_network",
      "method_type": "analysis",
      "priority": 7,
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    },
    {
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      "function": "extract_causal_hierarchy",
      "method_type": "extraction",
      "priority": 8,
      "description": "CausalExtractor.extract_causal_hierarchy"
    }
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      "pattern": "teoría de cambio|marco lógico|cadena causal|modelo lógico de paz",
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      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "flags": "i",
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      "specificity": "MEDIUM",
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      "context_requirement": null,
      "semantic_expansion": null,
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      "context_scope": "PARAGRAPH",
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      "flags": "i",
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      "specificity": "MEDIUM",
      "validation_rule": null,
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      "semantic_expansion": null,
      "context_scope": "PARAGRAPH",
      "pattern_ref": "PAT-0032"
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      "flags": "i",
      "id": "PAT-Q176-003",
      "match_type": "REGEX",
      "pattern": "mediador|variable intermedia|eslabón|confianza institucional|reconciliación",
      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "confidence_weight": 0.85,
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH",
"pattern_ref": "PAT-0104"
}
],
"policy_area_id": "PA05",
"question_global": 176,
"question_id": "Q176",
"scoring_definition_ref": "scoring_modalities.TYPE_A",
"scoring_modality": "TYPE_A",
"text": "¿Existe una 'teoría de cambio' explícita para la política de víctimas y construcción de paz, preferiblemente en un 'diagrama', que
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"required": true,
"type": "proporcionalidad_eslabones"
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"function": "apply_test_logic",
"method_type": "analysis",
"priority": 1,
"description": "BeachEvidentialTest.apply_test_logic"
},
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"class": "BayesianMechanismInference",
"function": "_test_necessity",
"method_type": "analysis",
"priority": 2,
"description": "BayesianMechanismInference._test_necessity"
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    "priority": 3,
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  },
  {
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    "function": "_calculate_coherence_factor",
    "method_type": "scoring",
    "priority": 4,
    "description": "BayesianMechanismInference._calculate_coherence_factor"
  },
  {
    "class": "BayesianCounterfactualAuditor",
    "function": "_test_effect_stability",
    "method_type": "analysis",
    "priority": 5,
    "description": "BayesianCounterfactualAuditor._test_effect_stability"
  },
  {
    "class": "IndustrialGradeValidator",
    "function": "validate_connection_matrix",
    "method_type": "validation",
    "priority": 6,
    "description": "IndustrialGradeValidator.validate_connection_matrix"
  },
  {
    "class": "PolicyAnalysisEmbedder",
    "function": "_compute_overall_confidence",
    "method_type": "analysis",
    "priority": 7,
    "description": "PolicyAnalysisEmbedder._compute_overall_confidence"
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"question_global": 177,
"question_id": "Q177",
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"scoring_modality": "TYPE_A",
"text": "¿Los saltos en la cadena causal de la paz son proporcionales (ej. un acto de memoria no genera por sí solo 'reconciliación total'
"validations": {
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"type": "completeness",
"threshold": 0.8
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}
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"cluster_id": "CL02",
"dimension_id": "DIM06",
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"type": "propone_pilotos_o_pruebas"
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{
"required": true,
"type": "reconoce_inconsistencias"
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"failure_contract": {
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"incomplete_text"

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      "class": "IndustrialGradeValidator",
      "function": "validate_engine_readiness",
      "method_type": "validation",
      "priority": 2,
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    {
      "class": "IndustrialGradeValidator",
      "function": "_benchmark_operation",
      "method_type": "analysis",
      "priority": 3,
      "description": "IndustrialGradeValidator._benchmark_operation"
    },
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      "function": "validate_quality_criteria",
      "method_type": "validation",
      "priority": 4,
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      "function": "_calculate_r_hat",
      "method_type": "scoring",
      "priority": 5,
      "description": "HierarchicalGenerativeModel._calculate_r_hat"
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      "function": "_calculate_ess",
      "method_type": "scoring",
      "priority": 6,
      "description": "HierarchicalGenerativeModel._calculate_ess"
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    {
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      "function": "calculate_acyclicity_pvalue",
      "method_type": "scoring",
      "priority": 7,
      "description": "AdvancedDAGValidator.calculate_acyclicity_pvalue"
    },
    {
      "class": "PerformanceAnalyzer",
      "function": "analyze_performance",
      "method_type": "analysis",
      "priority": 8,
      "description": "PerformanceAnalyzer.analyze_performance"
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"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
{
"category": "GENERAL",
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"flags": "i",
"id": "PAT-Q178-002",
"match_type": "REGEX",
"pattern": "plan piloto de reconciliación en una vereda",
"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q178-003",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q178-004",
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"semantic_expansion": null,
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"id": "PAT-Q178-006",
"match_type": "REGEX",

"pattern": "aprendizaje adaptativo|gestión adaptativa de la paz",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"text": "¿El plan reconoce 'inconsistencias' en su lógica de reparación y propone 'pilotos' o 'pruebas' para 'testear los supuestos' de sus
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"dimension_id": "DIM06",
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{
"required": true,
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{
"required": true,
"type": "sistema_monitoreo"
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"method_type": "analysis",
"priority": 1,
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"method_type": "analysis",
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"description": "ConfigLoader.check_uncertainty_reduction_criterion"
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"class": "ConfigLoader",
"function": "_save_prior_history",
"method_type": "analysis",
"priority": 3,
"description": "ConfigLoader._save_prior_history"
},
{
"class": "ConfigLoader",
"function": "_load_uncertainty_history",
"method_type": "analysis",
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"description": "ConfigLoader._load_uncertainty_history"
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"function": "_extract_feedback_from_audit",
"method_type": "validation",
"priority": 5,
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"method_type": "scoring",
"priority": 6,
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"method_type": "analysis",
"priority": 7,
"description": "BayesFactorTable.get_bayes_factor"
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"id": "PAT-Q179-000",
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"pattern": "sistema de seguimiento y evaluación|M&E del PAT",
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"context_requirement": null,
"semantic_expansion": null,
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"flags": "i",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q179-005",
"match_type": "REGEX",
"pattern": "ciclos de aprendizaje|sesiones del CTJT para revisar avances",
"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q179-006",
"match_type": "REGEX",
"pattern": "lecciones aprendidas en la implementación de la Ley 1448",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"question_global": 179,
"question_id": "Q179",
"scoring_definition_ref": "scoring_modalities.TYPE_A",
"scoring_modality": "TYPE_A",
"text": "¿Se describe un sistema de monitoreo para la política de víctimas que incluya 'mecanismos de corrección', 'retroalimentación' o
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"type": "completeness",
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{
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    "method_type": "scoring",
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    "method_type": "analysis",
    "priority": 2,
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    "method_type": "analysis",
    "priority": 3,
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    "class": "CausalInferenceSetup",
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    "method_type": "analysis",
    "priority": 4,
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  {
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    "function": "_get_dynamics_pattern",
    "method_type": "analysis",
    "priority": 5,
    "description": "CausalInferenceSetup._get_dynamics_pattern"
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  {
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    "function": "chunk_text",
    "method_type": "analysis",
    "priority": 6,
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    "function": "_detect_pdm_structure",
    "method_type": "analysis",
    "priority": 7,
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    "function": "_detect_table",
    "method_type": "analysis",
    "priority": 8,
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    "function": "generate_traceability_record",
    "method_type": "analysis",
    "priority": 9,
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"context_requirement": null,
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"semantic_expansion": null,
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"flags": "i",
"id": "PAT-Q180-003",
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"pattern": "personas en situación de discapacidad por el conflicto|diversamente hábil|capacidad diversa|movilidad reducida",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q180-005",
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"semantic_expansion": null,
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
}
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"question_global": 180,
"question_id": "Q180",
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"scoring_modality": "TYPE_A",
"text": "¿La lógica causal para la reparación considera el contexto, reconociendo 'grupos afectados' (sujetos de reparación colectiva, víc
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}
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{
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"type": "fuentes_oficiales"
},
{
"minimum": 3,
"type": "indicadores_cuantitativos"
},
{
"minimum": 3,
"type": "series_temporales_años"
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],
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"missing_required_element",
"incomplete_text"
],
"emit_code": "ABORT-Q181-REQ"
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"function": "diagnose_critical_links",
"method_type": "analysis",
"priority": 1,
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{
"class": "TextMiningEngine",
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"method_type": "analysis",
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},
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"function": "process",

"method_type": "analysis",
"priority": 3,
"description": "IndustrialPolicyProcessor.process"
},
{
"class": "IndustrialPolicyProcessor",
"function": "_match_patterns_in_sentences",
"method_type": "analysis",
"priority": 4,
"description": "IndustrialPolicyProcessor._match_patterns_in_sentences"
},
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"class": "IndustrialPolicyProcessor",
"function": "_extract_point_evidence",
"method_type": "extraction",
"priority": 5,
"description": "IndustrialPolicyProcessor._extract_point_evidence"
},
{
"class": "CausalExtractor",
"function": "_extract_goals",
"method_type": "extraction",
"priority": 6,
"description": "CausalExtractor._extract_goals"
},
{
"class": "CausalExtractor",
"function": "_parse_goal_context",
"method_type": "extraction",
"priority": 7,
"description": "CausalExtractor._parse_goal_context"
},
{
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"function": "_parse_amount",
"method_type": "extraction",
"priority": 8,
"description": "FinancialAuditor._parse_amount"
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"priority": 9,
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"priority": 10,
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"function": "_extract_quantitative_claims",
"method_type": "extraction",
"priority": 11,
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"function": "_parse_number",
"method_type": "extraction",
"priority": 12,
"description": "PolicyContradictionDetector._parse_number"
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{
"class": "PolicyContradictionDetector",
"function": "_statistical_significance_test",
"method_type": "analysis",
"priority": 13,
"description": "PolicyContradictionDetector._statistical_significance_test"

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      "function": "evaluate_policy_metric",
      "method_type": "analysis",
      "priority": 14,
      "description": "BayesianNumericalAnalyzer.evaluate_policy_metric",
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    },
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      "method_type": "analysis",
      "priority": 15,
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      "function": "chunk_text",
      "method_type": "analysis",
      "priority": 16,
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      "function": "embed_single",
      "method_type": "analysis",
      "priority": 17,
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      "pattern": "línea base|diagnóstico de infancia y adolescencia|situación inicial de la juventud",
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      "context_requirement": null,
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"semantic_expansion": null,
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"id": "PAT-Q181-009",
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"semantic_expansion": null,
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"flags": "i",
"id": "PAT-Q181-011",
"match_type": "REGEX",
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"context_requirement": null,
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"context_scope": "PARAGRAPH"
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"flags": "i",

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    "flags": "i",
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    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
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      "índice de",
      "cobertura de"
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      "año",
      "periodo",
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      "serie"
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    "patterns": [
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      "por 1.000",
      "%",
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      "tasa",
      "razón"
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        "según",
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        "DANE",
        "DNP",
        "SISPRO",
        "SIVIGILA",
        "Ministerio"
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      "type": "cuantificacion_magnitud"
    },
    {
      "required": true,
      "type": "vacios_explicitos"
    }
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      "priority": 2,
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      "priority": 3,
      "description": "FinancialAuditor._detect_allocation_gaps"
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      "priority": 4,
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      "priority": 5,
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      "method_type": "analysis",
      "priority": 7,
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      "function": "_test_effect_stability",
      "method_type": "analysis",
      "priority": 8,
      "description": "BayesianCounterfactualAuditor._test_effect_stability"
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      "method_type": "analysis",
      "priority": 9,
      "description": "PolicyContradictionDetector._detect_numerical_inconsistencies"
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      "function": "_calculate_numerical_divergence",
      "method_type": "scoring",
      "priority": 10,
      "description": "PolicyContradictionDetector._calculate_numerical_divergence"
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      "function": "calculate_posterior",
      "method_type": "scoring",
      "priority": 11,
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      "method_type": "analysis",
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      "context_requirement": null,
      "semantic_expansion": null,
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_requirement": null,
"semantic_expansion": null,
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q182-004",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"semantic_expansion": null,
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"category": "INDICADOR",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q182-006",
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"context_requirement": null,

"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_requirement": null,
"semantic_expansion": null,
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"text": "¿El texto dimensiona la magnitud de los problemas de la niñez y juventud (ej. consumo de SPA, violencia intrafamiliar) cuantifica
"validations": {
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"threshold": 0.8
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"type": "trazabilidad_ppi_bpin"
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"function": "_process_financial_table",
"method_type": "analysis",
"priority": 2,
"description": "FinancialAuditor._process_financial_table"
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"function": "_match_program_to_node",
"method_type": "analysis",
"priority": 3,
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"priority": 4,
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"method_type": "analysis",
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"class": "FinancialAuditor",
"function": "_calculate_sufficiency",
"method_type": "scoring",
"priority": 6,
"description": "FinancialAuditor._calculate_sufficiency"
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"method_type": "analysis",
"priority": 7,
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"method_type": "extraction",
"priority": 8,
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"function": "_identify_funding_source",
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"priority": 9,
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"priority": 11,
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      "method_type": "scoring",
      "priority": 12,
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      "function": "aggregate_risk_and_prioritize",
      "method_type": "analysis",
      "priority": 13,
      "description": "BayesianCounterfactualAuditor.aggregate_risk_and_prioritize"
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      "semantic_expansion": null,
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      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "flags": "i",
      "id": "PAT-Q183-003",
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      "pattern": "presupuesto para el fortalecimiento de Comisarías de Familia",
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      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
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      "flags": "i",
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"confidence_weight": 0.85,
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"id": "PAT-Q183-005",
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"semantic_expansion": null,
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"flags": "i",
"id": "PAT-Q183-006",
"match_type": "REGEX",
"pattern": "fondos para programas de prevención de SPA o embarazo adolescente",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"flags": "i",
"id": "PAT-Q183-007",
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"context_requirement": null,
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"context_scope": "PARAGRAPH",
"pattern_ref": "PAT-0022"
},
{
"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q183-008",
"match_type": "LITERAL",
"pattern": "fuentes: SGP, recursos propios, cofinanciación ICBF",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"question_global": 183,
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"validations": {
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      "type": "gobernanza"
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      "required": true,
      "type": "infraestructura_fisica"
    },
    {
      "required": true,
      "type": "procesos"
    },
    {
      "required": true,
      "type": "talento_humano"
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      "method_type": "analysis",
      "priority": 1,
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      "method_type": "extraction",
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      "method_type": "analysis",
      "priority": 4,
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      "priority": 5,
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      "method_type": "extraction",
      "priority": 7,
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      "context_requirement": null,
      "semantic_expansion": null,
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"semantic_expansion": null,
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"semantic_expansion": null,
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"function": "_process_financial_table",
"method_type": "analysis",
"priority": 2,
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"method_type": "analysis",
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      "priority": 9,
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      "priority": 10,
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      "priority": 11,
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
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},
{
"category": "GENERAL",
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"id": "PAT-Q187-006",
"match_type": "REGEX",
"pattern": "jóvenes en riesgo de consumo de SPA o reclutamiento",
"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q187-008",
"match_type": "REGEX",
"pattern": "lo cual fortalece su proyecto de vida|porque reduce los factores de riesgo",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"question_global": 187,
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"text": "¿La descripción de las actividades para jóvenes detalla el instrumento ('mediante escuelas de formación deportiva', 'a través de
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"threshold": 0.8
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}
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"cluster_id": "CL02",
"dimension_id": "DIM02",
"expected_elements": [
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},
{
"required": true,
"type": "vinculo_diagnostico_actividad"
}
],
"failure_contract": {
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"method_type": "extraction",
"priority": 1,
"description": "CausalExtractor._extract_causal_links"
},
{
"class": "CausalExtractor",
"function": "_calculate_composite_likelihood",
"method_type": "scoring",
"priority": 2,
"description": "CausalExtractor._calculate_composite_likelihood"
},
{
"class": "CausalExtractor",
"function": "_initialize_prior",
"method_type": "analysis",
"priority": 3,
"description": "CausalExtractor._initialize_prior"
},
{
"class": "CausalExtractor",
"function": "_calculate_type_transition_prior",
"method_type": "scoring",
"priority": 4,

"description": "CausalExtractor._calculate_type_transition_prior"
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"class": "PDETMunicipalPlanAnalyzer",
"function": "_identify_causal_edges",
"method_type": "analysis",
"priority": 5,
"description": "PDETMunicipalPlanAnalyzer._identify_causal_edges"
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"class": "PDETMunicipalPlanAnalyzer",
"function": "_refine_edge_probabilities",
"method_type": "analysis",
"priority": 6,
"description": "PDETMunicipalPlanAnalyzer._refine_edge_probabilities"
},
{
"class": "BayesianCounterfactualAuditor",
"function": "construct_scm",
"method_type": "analysis",
"priority": 7,
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"class": "BayesianCounterfactualAuditor",
"function": "_create_default_equations",
"method_type": "analysis",
"priority": 8,
"description": "BayesianCounterfactualAuditor._create_default_equations"
},
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"class": "SemanticAnalyzer",
"function": "extract_semantic_cube",
"method_type": "extraction",
"priority": 9,
"description": "SemanticAnalyzer.extract_semantic_cube"
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"flags": "i",
"id": "PAT-Q188-001",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q188-002",
"match_type": "REGEX",
"pattern": "causa estructural|factor de riesgo|nudo crítico",
"specificity": "MEDIUM",

"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q188-003",
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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{
"category": "GENERAL",
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"pattern": "falta de oportunidades laborales para jóvenes",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
{
"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q188-005",
"match_type": "REGEX",
"pattern": "entornos familiares violentos|vulnerabilidad socioeconómica",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q188-006",
"match_type": "REGEX",
"pattern": "falta de información sobre salud sexual y reproductiva",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
{
"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q188-007",
"match_type": "REGEX",
"pattern": "árbol de problemas|diagnóstico causal de infancia y juventud",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
}
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"policy_area_id": "PA06",
"question_global": 188,

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    "scoring_modality": "TYPE_A",
    "text": "¿El PDM vincula explícitamente las actividades (ej. transporte escolar) con las 'causas raíz' de los problemas (ej. deserción esco
    "validations": {
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        "type": "completeness",
        "threshold": 0.8
      }
    }
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        "type": "mitigacion_propuesta"
      },
      {
        "required": true,
        "type": "riesgos_identificados"
      }
    ],
    "failure_contract": {
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        "incomplete_text"
      ],
      "emit_code": "ABORT-Q189-REQ"
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        "method_type": "analysis",
        "priority": 1,
        "description": "PDETMunicipalPlanAnalyzer._bayesian_risk_inference"
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        "method_type": "analysis",
        "priority": 2,
        "description": "PDETMunicipalPlanAnalyzer.sensitivity_analysis"
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      {
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        "function": "_interpret_risk",
        "method_type": "analysis",
        "priority": 3,
        "description": "PDETMunicipalPlanAnalyzer._interpret_risk"
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      {
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        "function": "_compute_robustness_value",
        "method_type": "analysis",
        "priority": 4,
        "description": "PDETMunicipalPlanAnalyzer._compute_robustness_value"
      },
      {
        "class": "PDETMunicipalPlanAnalyzer",
        "function": "_compute_e_value",
        "method_type": "analysis",
        "priority": 5,
        "description": "PDETMunicipalPlanAnalyzer._compute_e_value"
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      {
        "class": "PDETMunicipalPlanAnalyzer",
        "function": "_interpret_sensitivity",
        "method_type": "analysis",
        "priority": 6,
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"description": "PDETMunicipalPlanAnalyzer._interpret_sensitivity"
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"class": "OperationalizationAuditor",
"function": "_audit_systemic_risk",
"method_type": "validation",
"priority": 7,
"description": "OperationalizationAuditor._audit_systemic_risk"
},
{
"class": "BayesianCounterfactualAuditor",
"function": "aggregate_risk_and_prioritize",
"method_type": "analysis",
"priority": 8,
"description": "BayesianCounterfactualAuditor.aggregate_risk_and_prioritize"
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"class": "BayesianCounterfactualAuditor",
"function": "refutation_and_sanity_checks",
"method_type": "analysis",
"priority": 9,
"description": "BayesianCounterfactualAuditor.refutation_and_sanity_checks"
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{
"class": "AdaptivePriorCalculator",
"function": "sensitivity_analysis",
"method_type": "analysis",
"priority": 10,
"description": "AdaptivePriorCalculator.sensitivity_analysis"
}
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH",
"pattern_ref": "PAT-0095"
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"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q189-001",
"match_type": "REGEX",
"pattern": "baja participación de los jóvenes|poca adherencia a los programas",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
{
"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q189-002",
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"pattern": "estigmatización de los beneficiarios del SRPA",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q189-003",
"match_type": "REGEX",
"pattern": "sostenibilidad de las escuelas de formación",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"flags": "i",
"id": "PAT-Q189-004",
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q189-005",
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q189-006",
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"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH",
"pattern_ref": "PAT-0082"
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{
"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q189-007",
"match_type": "REGEX",
"pattern": "estrategias de convocatoria|concertación con las comunidades",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"question_global": 189,
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"scoring_modality": "TYPE_A",
"text": "¿El plan identifica posibles riesgos en la implementación de los programas para niñez y juventud (ej. baja participación, estigma
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"type": "completeness",

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      "threshold": 0.8
    }
  }
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  "dimension_id": "DIM02",
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    },
    {
      "required": true,
      "type": "secuenciacion_logica"
    }
  ],
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    ],
    "emit_code": "ABORT-Q190-REQ"
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      "method_type": "analysis",
      "priority": 1,
      "description": "PolicyContradictionDetector._detect_logical_incompatibilities"
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      "function": "_calculate_coherence_metrics",
      "method_type": "scoring",
      "priority": 2,
      "description": "PolicyContradictionDetector._calculate_coherence_metrics"
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    {
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      "function": "_calculate_objective_alignment",
      "method_type": "scoring",
      "priority": 3,
      "description": "PolicyContradictionDetector._calculate_objective_alignment"
    },
    {
      "class": "PolicyContradictionDetector",
      "function": "_calculate_graph_fragmentation",
      "method_type": "scoring",
      "priority": 4,
      "description": "PolicyContradictionDetector._calculate_graph_fragmentation"
    },
    {
      "class": "OperationalizationAuditor",
      "function": "audit_sequence_logic",
      "method_type": "validation",
      "priority": 5,
      "description": "OperationalizationAuditor.audit_sequence_logic"
    },
    {
      "class": "BayesianMechanismInference",
      "function": "_calculate_coherence_factor",
      "method_type": "scoring",
      "priority": 6,
      "description": "BayesianMechanismInference._calculate_coherence_factor"
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    {
      "class": "PDETMunicipalPlanAnalyzer",
      "function": "_score_causal_coherence",
      "method_type": "scoring",
      "priority": 7,
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"description": "PDETMunicipalPlanAnalyzer._score_causal_coherence"
},
{
"class": "AdaptivePriorCalculator",
"function": "calculate_likelihood_adaptativo",
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"priority": 8,
"description": "AdaptivePriorCalculator.calculate_likelihood_adaptativo"
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],
"patterns": [
{
"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q190-000",
"match_type": "REGEX",
"pattern": "estrategia integral de protección|atención articulada",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
{
"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q190-001",
"match_type": "REGEX",
"pattern": "la jornada complementaria se articula con la prevención del consumo de SPA",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
{
"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q190-002",
"match_type": "REGEX",
"pattern": "sinergia entre la oferta cultural y la prevención de la violencia",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
{
"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q190-003",
"match_type": "REGEX",
"pattern": "la atención en primera infancia es prerrequisito para una trayectoria educativa exitosa",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
{
"category": "GENERAL",
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"flags": "i",
"id": "PAT-Q190-004",
"match_type": "REGEX",
"pattern": "en una primera fase se fortalecerá la oferta, luego se promoverá la demanda",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,

"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q190-005",
"match_type": "LITERAL",
"pattern": "la estrategia combina promoción, prevención y atención",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
}
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"policy_area_id": "PA06",
"question_global": 190,
"question_id": "Q190",
"scoring_definition_ref": "scoring_modalities.TYPE_A",
"scoring_modality": "TYPE_A",
"text": "¿El conjunto de actividades para niñez y juventud demuestra una estrategia coherente? Se debe buscar evidencia de 'complem
"validations": {
"completeness_check": {
"type": "completeness",
"threshold": 0.8
}
}
},
{
"base_slot": "D3-Q1",
"cluster_id": "CL02",
"dimension_id": "DIM03",
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"required": true,
"type": "fuente_verificacion"
},
{
"required": true,
"type": "linea_base_producto"
},
{
"required": true,
"type": "meta_cuantitativa"
}
],
"failure_contract": {
"abort_if": [
"missing_required_element",
"incomplete_text"
],
"emit_code": "ABORT-Q191-REQ"
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"method_sets": [
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"class": "PDETMunicipalPlanAnalyzer",
"function": "_score_indicators",
"method_type": "scoring",
"priority": 1,
"description": "PDETMunicipalPlanAnalyzer._score_indicators"
},
{
"class": "OperationalizationAuditor",
"function": "audit_evidence_traceability",
"method_type": "validation",
"priority": 2,
"description": "OperationalizationAuditor.audit_evidence_traceability"
},
{
"class": "CausalInferenceSetup",
"function": "assign_probative_value",

"method_type": "analysis",
"priority": 3,
"description": "CausalInferenceSetup.assign_probative_value"
},
{
"class": "BeachEvidentialTest",
"function": "apply_test_logic",
"method_type": "analysis",
"priority": 4,
"description": "BeachEvidentialTest.apply_test_logic"
},
{
"class": "TextMiningEngine",
"function": "diagnose_critical_links",
"method_type": "analysis",
"priority": 5,
"description": "TextMiningEngine.diagnose_critical_links"
},
{
"class": "IndustrialPolicyProcessor",
"function": "_extract_metadata",
"method_type": "extraction",
"priority": 6,
"description": "IndustrialPolicyProcessor._extract_metadata"
},
{
"class": "IndustrialPolicyProcessor",
"function": "_calculate_quality_score",
"method_type": "scoring",
"priority": 7,
"description": "IndustrialPolicyProcessor._calculate_quality_score"
},
{
"class": "AdaptivePriorCalculator",
"function": "generate_traceability_record",
"method_type": "analysis",
"priority": 8,
"description": "AdaptivePriorCalculator.generate_traceability_record"
}
],
"patterns": [
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"category": "INDICADOR",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q191-000",
"match_type": "REGEX",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH",
"pattern_ref": "PAT-0073"
},
{
"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q191-001",
"match_type": "REGEX",
"pattern": "niños y niñas atendidos en CDI|cupos de atención a primera infancia",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
{
"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q191-002",
"match_type": "REGEX",

"pattern": "estudiantes beneficiados con PAE|raciones entregadas",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
{
"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q191-003",
"match_type": "REGEX",
"pattern": "jóvenes formados para el empleo|jóvenes en escuelas deportivas",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
{
"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q191-004",
"match_type": "REGEX",
"pattern": "familias atendidas por la Comisaría",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"category": "GENERAL",
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        "type": "realismo_plazos"
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"priority": 24,
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"method_type": "validation",
"priority": 25,
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    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "flags": "i",
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    "pattern": "la meta de cobertura del PAE es ambiciosa pero alcanzable",
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    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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      "type": "completeness",
      "threshold": 0.8
    }
  }
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  "dimension_id": "DIM03",
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      "type": "conexion_producto_resultado"
    },
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      "required": true,
      "type": "mecanismo_causal_explicito"
    }
  ],
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"class": "BayesianCounterfactualAuditor",
"function": "_evaluate_factual",
"method_type": "analysis",
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"method_type": "analysis",
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"priority": 9,
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"method_type": "analysis",
"priority": 11,
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"function": "refutation_and_sanity_checks",
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"class": "IndustrialPolicyProcessor",
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"class": "PDETMunicipalPlanAnalyzer",
"function": "analyze_financial_feasibility",
"method_type": "analysis",
"priority": 14,
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"priority": 15,
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"function": "estimate_causal_effects",
"method_type": "analysis",
"priority": 16,
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"method_type": "analysis",
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"function": "_build_type_hierarchy",
"method_type": "analysis",
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"method_type": "analysis",
"priority": 19,
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"class": "CausalExtractor",
"function": "_calculate_type_transition_prior",
"method_type": "scoring",
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"function": "_calculate_textual_proximity",
"method_type": "scoring",
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"priority": 22,
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"class": "PDETMunicipalPlanAnalyzer",
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"method_type": "analysis",
"priority": 23,
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"method_type": "analysis",
"priority": 24,
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{
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"priority": 25,

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    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "flags": "i",
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    "context_scope": "PARAGRAPH"
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    "pattern": "variable intermedia|mediador|eslabón causal|permanencia escolar|empleabilidad",
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    "semantic_expansion": null,
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"text": "¿El PDM explica cómo los productos (ej. 'jóvenes formados en habilidades para el empleo') contribuyen a generar resultados (ej
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"required": true,
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"method_type": "extraction",
"priority": 1,
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{
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"priority": 3,
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"class": "CausalExtractor",
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"method_type": "analysis",
"priority": 6,
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},
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"priority": 7,
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"class": "PDETMunicipalPlanAnalyzer",
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"method_type": "analysis",
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"method_type": "scoring",
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"priority": 11,
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"function": "_classify_goal_type",
"method_type": "analysis",
"priority": 12,
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    "description": "TemporalLogicVerifier._extract_resources"
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    "method_type": "analysis",
    "priority": 15,
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    "function": "_generate_recommendations",
    "method_type": "analysis",
    "priority": 16,
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    "flags": "i",
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    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "id": "PAT-Q196-002",
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    "pattern": "tasa de trabajo infantil|prevalencia de desnutrición crónica",
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    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "flags": "i",
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    "match_type": "REGEX",
    "pattern": "porcentaje de jóvenes NINI",
    "specificity": "MEDIUM",
    "validation_rule": null,
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    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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      "context_requirement": null,
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      "flags": "i",
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      "flags": "i",
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      "flags": "i",
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      "context_requirement": null,
      "semantic_expansion": null,
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      "pattern_ref": "PAT-0068"
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  "policy_area_id": "PA06",
  "question_global": 196,
  "question_id": "Q196",
  "scoring_definition_ref": "scoring_modalities.TYPE_A",
  "scoring_modality": "TYPE_A",
  "text": "¿Los indicadores de resultado para niñez y juventud (ej. 'tasa de deserción escolar', 'tasa de fecundidad adolescente') están def
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        "type": "condiciones_habilitantes"
      },
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        "required": true,
        "type": "supuestos_identificados"
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        "priority": 1,
        "description": "TeoriaCambio._encontrar_caminos_completos"
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      {
        "class": "TeoriaCambio",
        "function": "validacion_completa",
        "method_type": "analysis",
        "priority": 2,
        "description": "TeoriaCambio.validacion_completa"
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        "method_type": "extraction",
        "priority": 3,
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        "priority": 4,
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        "priority": 5,
        "description": "HierarchicalGenerativeModel._generate_independence_tests"
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        "function": "construct_scm",
        "method_type": "analysis",
        "priority": 6,
        "description": "BayesianCounterfactualAuditor.construct_scm"
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      "method_type": "analysis",
      "priority": 7,
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      "function": "get_bayes_factor",
      "method_type": "analysis",
      "priority": 8,
      "description": "BayesFactorTable.get_bayes_factor"
    }
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      "semantic_expansion": null,
      "context_scope": "PARAGRAPH",
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"context_requirement": null,
"semantic_expansion": null,
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"id": "PAT-Q197-006",
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"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
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"scoring_modality": "TYPE_A",
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"emit_code": "ABORT-Q198-REQ"

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    "function": "_estimate_effect_bayesian",
    "method_type": "analysis",
    "priority": 2,
    "description": "PDETMunicipalPlanAnalyzer._estimate_effect_bayesian"
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    "method_type": "analysis",
    "priority": 3,
    "description": "PDETMunicipalPlanAnalyzer._compute_robustness_value"
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    "method_type": "analysis",
    "priority": 4,
    "description": "AdaptivePriorCalculator.sensitivity_analysis"
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    "method_type": "scoring",
    "priority": 5,
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    "method_type": "scoring",
    "priority": 6,
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    "method_type": "scoring",
    "priority": 7,
    "description": "AdvancedDAGValidator._calculate_statistical_power"
  },
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    "function": "_aggregate_bayesian_confidence",
    "method_type": "analysis",
    "priority": 8,
    "description": "BayesianMechanismInference._aggregate_bayesian_confidence"
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    "validation_rule": null,
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    "semantic_expansion": null,
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      "context_requirement": null,
      "semantic_expansion": null,
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    },
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      "context_scope": "PARAGRAPH",
      "pattern_ref": "PAT-0041"
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      "confidence_weight": 0.85,
      "flags": "i",
      "id": "PAT-Q198-003",
      "match_type": "REGEX",
      "pattern": "la capacidad de los orientadores escolares permite esta meta",
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      "context_requirement": null,
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      "context_scope": "PARAGRAPH"
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      "flags": "i",
      "id": "PAT-Q198-004",
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      "pattern": "en experiencias similares de otros municipios con programas de prevención",
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      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
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      "flags": "i",
      "id": "PAT-Q198-005",
      "match_type": "REGEX",
      "pattern": "benchmark|referente departamental|meta del Plan Decenal de Educación",
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      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
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  "question_global": 198,
  "question_id": "Q198",
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  "scoring_modality": "TYPE_A",
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    {
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      "type": "vinculo_resultado_problema"
    }
  ],
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      "method_type": "analysis",
      "priority": 2,
      "description": "PolicyContradictionDetector._identify_affected_sections"
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      "function": "_generate_resolution_recommendations",
      "method_type": "analysis",
      "priority": 3,
      "description": "PolicyContradictionDetector._generate_resolution_recommendations"
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      "method_type": "analysis",
      "priority": 6,
      "description": "BayesianCounterfactualAuditor.aggregate_risk_and_prioritize"
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    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "flags": "i",
    "id": "PAT-Q199-003",
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    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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"context_scope": "PARAGRAPH",
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"method_type": "scoring",
"priority": 2,
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    "method_type": "analysis",
    "priority": 5,
    "description": "IndustrialPolicyProcessor._analyze_causal_dimensions"
  },
  {
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    "function": "validate_quality_criteria",
    "method_type": "validation",
    "priority": 6,
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    "context_requirement": null,
    "semantic_expansion": null,
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    "id": "PAT-Q200-003",
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    "pattern": "articulado con el CONPES de Primera Infancia|Salud Mental",
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    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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      "semantic_expansion": null,
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  "scoring_modality": "TYPE_A",
  "text": "¿El plan declara la alineación de sus resultados de niñez y juventud con marcos superiores como el PND o los ODS (4, 5, 8)?",
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      "threshold": 0.8
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  }
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    {
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    },
    {
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      "type": "ruta_transmision"
    }
  ],
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      "function": "generate_counterfactuals",
      "method_type": "analysis",
      "priority": 1,
      "description": "PDETMunicipalPlanAnalyzer.generate_counterfactuals"
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      "method_type": "analysis",
      "priority": 2,
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      "function": "_generate_scenario_narrative",
      "method_type": "analysis",
      "priority": 3,
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"method_type": "analysis",
"priority": 5,
"description": "TeoriaCambio._validar_orden_causal"
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"function": "_assess_temporal_coherence",
"method_type": "analysis",
"priority": 6,
"description": "CausalExtractor._assess_temporal_coherence"
},
{
"class": "TextMiningEngine",
"function": "_generate_interventions",
"method_type": "analysis",
"priority": 7,
"description": "TextMiningEngine._generate_interventions"
},
{
"class": "BayesianCounterfactualAuditor",
"function": "construct_scm",
"method_type": "analysis",
"priority": 8,
"description": "BayesianCounterfactualAuditor.construct_scm"
}
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"patterns": [
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"flags": "i",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q201-001",
"match_type": "REGEX",
"pattern": "desarrollo integral de la niñez y la juventud|bienestar generacional",
"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"flags": "i",
"id": "PAT-Q201-002",
"match_type": "REGEX",
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"specificity": "MEDIUM",
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"context_requirement": null,
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      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
    },
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      "flags": "i",
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      "match_type": "REGEX",
      "pattern": "la suma de los resultados en educación y salud generará el impacto de",
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      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
    },
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      "confidence_weight": 0.85,
      "flags": "i",
      "id": "PAT-Q201-005",
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      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH",
      "pattern_ref": "PAT-0096"
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      "id": "PAT-Q201-006",
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      "pattern": "tiempo de maduración|efectos en el largo plazo|se espera observar en 15-20 años|el año pasado|desde \\d{4}|tendencia re
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      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "dynamic_update": "CURRENT_YEAR_WINDOW",
      "context_scope": "PARAGRAPH"
    }
  ],
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  "question_global": 201,
  "question_id": "Q201",
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  {
    "required": true,
    "type": "usa_proxies"
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    "priority": 3,
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    "method_type": "analysis",
    "priority": 4,
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    "method_type": "analysis",
    "priority": 5,
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    "method_type": "scoring",
    "priority": 6,
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"priority": 8,
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"function": "segment_into_sentences",
"method_type": "analysis",
"priority": 20,
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"function": "_compute_evidence_confidence",
"method_type": "analysis",
"priority": 21,
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    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "flags": "i",
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    "pattern": "Índice de Desarrollo Juvenil|indicador compuesto de bienestar",
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    "context_requirement": null,
    "semantic_expansion": null,
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    "validation_rule": null,
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    "id": "PAT-Q202-003",
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    "pattern": "la tasa de graduación de educación media como proxy de capital humano",
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    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
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    "flags": "i",
    "id": "PAT-Q202-004",
    "match_type": "REGEX",
    "pattern": "la tasa de homicidios juvenil como proxy inverso de cohesión social",
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"semantic_expansion": null,
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"required": true,
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"priority": 2,
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"priority": 3,
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{
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      "function": "_perturb_evidence",
      "method_type": "analysis",
      "priority": 6,
      "description": "AdaptivePriorCalculator._perturb_evidence"
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      "pattern": "dado que es difícil medir las habilidades para la vida|para aproximar",
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      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "pattern_ref": "PAT-0100"
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      "confidence_weight": 0.85,
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      "pattern": "la tasa de participación en programas de voluntariado como proxy de ciudadanía activa",
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      "context_requirement": null,
      "semantic_expansion": null,
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      "flags": "i",
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      "pattern": "este proxy es validado por estudios de juventud",
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      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"flags": "i",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"question_global": 203,
"question_id": "Q203",
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"scoring_modality": "TYPE_A",
"text": "Cuando un impacto en la juventud es difícil de medir (ej. 'fortalecimiento de habilidades para la vida'), ¿se recurre a un 'proxy'? S
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"required": true,
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],
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"function": "_audit_systemic_risk",
"method_type": "validation",
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"class": "BayesianCounterfactualAuditor",
"function": "refutation_and_sanity_checks",
"method_type": "analysis",
"priority": 2,
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"class": "BayesianCounterfactualAuditor",
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"priority": 3,
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"method_type": "analysis",
"priority": 4,
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"class": "PDETMunicipalPlanAnalyzer",
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"method_type": "analysis",
"priority": 5,
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"function": "_break_cycles",
"method_type": "analysis",
"priority": 6,
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"class": "AdaptivePriorCalculator",
"function": "sensitivity_analysis",
"method_type": "analysis",
"priority": 7,
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"pattern_ref": "PAT-0094"
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"flags": "i",
"id": "PAT-Q204-002",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
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"context_scope": "PARAGRAPH"
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"context_requirement": null,
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"semantic_expansion": null,
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      "type": "efectos_no_deseados"
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    {
      "required": true,
      "type": "hipotesis_limite"
    }
  ],
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      "priority": 1,
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      "method_type": "analysis",
      "priority": 2,
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      "method_type": "scoring",
      "priority": 3,
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      "function": "_add_ood_noise",
      "method_type": "analysis",
      "priority": 4,
      "description": "AdaptivePriorCalculator._add_ood_noise"
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      "function": "validate_quality_criteria",
      "method_type": "validation",
      "priority": 5,
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    {
      "class": "PDETMunicipalPlanAnalyzer",
      "function": "_compute_e_value",
      "method_type": "analysis",
      "priority": 6,
      "description": "PDETMunicipalPlanAnalyzer._compute_e_value"
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    {
      "class": "PDETMunicipalPlanAnalyzer",
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      "method_type": "analysis",
      "priority": 7,
      "description": "PDETMunicipalPlanAnalyzer._compute_robustness_value"
    },
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      "class": "BayesianMechanismInference",
      "function": "_calculate_coherence_factor",
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    "method_type": "scoring",
    "priority": 8,
    "description": "BayesianMechanismInference._calculate_coherence_factor"
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    "flags": "i",
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    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
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"function": "construir_grafo_causal",
"method_type": "analysis",
"priority": 1,
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"method_type": "analysis",
"priority": 2,
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"priority": 5,
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"method_type": "analysis",
"priority": 7,
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"method_type": "extraction",
"priority": 8,
"description": "CausalExtractor.extract_causal_hierarchy"
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"semantic_expansion": null,
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"context_requirement": null,
"semantic_expansion": null,
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"id": "PAT-Q206-004",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH",
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    "priority": 2,
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    "priority": 3,
    "description": "BayesianMechanismInference._test_sufficiency"
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    "method_type": "scoring",
    "priority": 4,
    "description": "BayesianMechanismInference._calculate_coherence_factor"
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    "method_type": "analysis",
    "priority": 5,
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    "method_type": "validation",
    "priority": 6,
    "description": "IndustrialGradeValidator.validate_connection_matrix"
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    "function": "_compute_overall_confidence",
    "method_type": "analysis",
    "priority": 7,
    "description": "PolicyAnalysisEmbedder._compute_overall_confidence"
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      {
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        "type": "reconoce_inconsistencias"
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    ],
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        "priority": 1,
        "description": "IndustrialGradeValidator.execute_suite"
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        "method_type": "validation",
        "priority": 2,
        "description": "IndustrialGradeValidator.validate_engine_readiness"
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        "function": "_benchmark_operation",
        "method_type": "analysis",
        "priority": 3,
        "description": "IndustrialGradeValidator._benchmark_operation"
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        "function": "validate_quality_criteria",
        "method_type": "validation",
        "priority": 4,
        "description": "AdaptivePriorCalculator.validate_quality_criteria"
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        "method_type": "scoring",
        "priority": 5,
        "description": "HierarchicalGenerativeModel._calculate_r_hat"
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    "method_type": "scoring",
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    "description": "HierarchicalGenerativeModel._calculate_ess"
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    "function": "calculate_acyclicity_pvalue",
    "method_type": "scoring",
    "priority": 7,
    "description": "AdvancedDAGValidator.calculate_acyclicity_pvalue"
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    "function": "analyze_performance",
    "method_type": "analysis",
    "priority": 8,
    "description": "PerformanceAnalyzer.analyze_performance"
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    "semantic_expansion": null,
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    "semantic_expansion": null,
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        "context_requirement": null,
        "semantic_expansion": null,
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        "specificity": "MEDIUM",
        "validation_rule": null,
        "context_requirement": null,
        "semantic_expansion": null,
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        "threshold": 0.8
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        "required": true,
        "type": "mecanismos_correccion"
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      {
        "required": true,
        "type": "sistema_monitoreo"
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      "method_type": "analysis",
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      "method_type": "analysis",
      "priority": 2,
      "description": "ConfigLoader.check_uncertainty_reduction_criterion"
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      "method_type": "analysis",
      "priority": 3,
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      "function": "_load_uncertainty_history",
      "method_type": "analysis",
      "priority": 4,
      "description": "ConfigLoader._load_uncertainty_history"
    },
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      "function": "_extract_feedback_from_audit",
      "method_type": "validation",
      "priority": 5,
      "description": "CDAFFramework._extract_feedback_from_audit"
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      "function": "_calculate_node_importance",
      "method_type": "scoring",
      "priority": 6,
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    },
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      "function": "get_bayes_factor",
      "method_type": "analysis",
      "priority": 7,
      "description": "BayesFactorTable.get_bayes_factor"
    }
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      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q209-002",
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"pattern": "alerta temprana sobre deserción escolar|alerta por vulneración de derechos",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"match_type": "REGEX",
"pattern": "mecanismo de ajuste|medida correctiva del PAI (Plan de Atención Integral)",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q209-004",
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"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q209-005",
"match_type": "REGEX",
"pattern": "ciclos de aprendizaje|reuniones del Consejo de Política Social",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"category": "GENERAL",
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"pattern": "lecciones aprendidas en la implementación",
"specificity": "MEDIUM",
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"context_requirement": null,

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      "context_scope": "PARAGRAPH"
    }
  ],
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  "question_global": 209,
  "question_id": "Q209",
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  "scoring_modality": "TYPE_A",
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  "validations": {
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      "threshold": 0.8
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},
{
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      "type": "analisis_contextual"
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      "required": true,
      "type": "enfoque_diferencial"
    }
  ],
  "failure_contract": {
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      "incomplete_text"
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      "function": "_calculate_language_specificity",
      "method_type": "scoring",
      "priority": 1,
      "description": "CausalExtractor._calculate_language_specificity"
    },
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    "priority": 13,
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    "method_type": "analysis",
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    "method_type": "analysis",
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"context_scope": "PARAGRAPH"
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"confidence_weight": 0.85,
"flags": "i",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"flags": "i",
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"validation_rule": null,
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"semantic_expansion": null,
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"specificity": "MEDIUM",
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"context_scope": "PARAGRAPH"
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"semantic_expansion": null,
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"semantic_expansion": null,
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"id": "PAT-Q211-009",
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"pattern": "kilómetros de vías terciarias en mal estado|estado de la red vial",
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"validation_rule": null,
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"semantic_expansion": null,
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"índice de",
"cobertura de"
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"periodo",
"histórico",
"serie"
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        "razón"
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        "DANE",
        "DNP",
        "SISPRO",
        "SIVIGILA",
        "Ministerio"
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    },
    {
      "required": true,
      "type": "vacios_explicitos"
    }
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    "priority": 6,
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    "method_type": "analysis",
    "priority": 7,
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    "function": "_test_effect_stability",
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    "priority": 8,
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    "method_type": "analysis",
    "priority": 9,
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    "method_type": "scoring",
    "priority": 10,
    "description": "PolicyContradictionDetector._calculate_numerical_divergence"
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    "priority": 11,
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    "method_type": "analysis",
    "priority": 12,
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"semantic_expansion": null,
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        "pattern": "causas de la informalidad|determinantes de la baja productividad",
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        "context_requirement": null,
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    "context_requirement": null,
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    "validation_rule": null,
    "context_requirement": null,
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    "context_requirement": null,
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      "priority": 5,
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      "priority": 6,
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      "priority": 8,
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      "method_type": "analysis",
      "priority": 9,
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      "method_type": "analysis",
      "priority": 10,
      "description": "BeachEvidentialTest.classify_test"
    },
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      "priority": 11,
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      "context_requirement": null,
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"context_requirement": null,
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"flags": "i",
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"context_requirement": null,
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    {
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      "type": "vinculo_diagnostico_actividad"
    }
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      "method_type": "extraction",
      "priority": 1,
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      "method_type": "scoring",
      "priority": 2,
      "description": "CausalExtractor._calculate_composite_likelihood"
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      "method_type": "analysis",
      "priority": 3,
      "description": "CausalExtractor._initialize_prior"
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      "method_type": "scoring",
      "priority": 4,
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      "priority": 5,
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      "method_type": "analysis",
      "priority": 6,
      "description": "PDETMunicipalPlanAnalyzer._refine_edge_probabilities"
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      "method_type": "analysis",
      "priority": 7,
      "description": "BayesianCounterfactualAuditor.construct_scm"
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      "function": "_create_default_equations",
      "method_type": "analysis",
      "priority": 8,
      "description": "BayesianCounterfactualAuditor._create_default_equations"
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      "function": "extract_semantic_cube",
      "method_type": "extraction",
      "priority": 9,
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      "context_requirement": null,
      "semantic_expansion": null,
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      "context_requirement": null,
      "semantic_expansion": null,
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"context_requirement": null,
"semantic_expansion": null,
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"scoring_modality": "TYPE_A",
"text": "¿El PDM vincula explícitamente las actividades (ej. actualización catastral) con las 'causas raíz' de los problemas (ej. baja tributa
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    "priority": 1,
    "description": "PDETMunicipalPlanAnalyzer._bayesian_risk_inference"
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    "method_type": "analysis",
    "priority": 2,
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    "method_type": "analysis",
    "priority": 3,
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    "priority": 4,
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    "method_type": "analysis",
    "priority": 5,
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    "method_type": "analysis",
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    "function": "_audit_systemic_risk",
    "method_type": "validation",
    "priority": 7,
    "description": "OperationalizationAuditor._audit_systemic_risk"
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    "priority": 8,
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      "priority": 9,
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      "context_scope": "PARAGRAPH"
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      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "confidence_weight": 0.85,
      "flags": "i",
      "id": "PAT-Q219-003",
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      "pattern": "sostenibilidad de las obras viales|falta de mantenimiento",
      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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    {
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"semantic_expansion": null,
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"id": "PAT-Q219-005",
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"pattern": "baja adopción de la asistencia técnica por parte de los productores",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"type": "completeness",
"threshold": 0.8
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},
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"dimension_id": "DIM02",
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"required": true,

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    "priority": 5,
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    "method_type": "scoring",
    "priority": 8,
    "description": "AdaptivePriorCalculator.calculate_likelihood_adaptativo"
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    "confidence_weight": 0.85,
    "flags": "i",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
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        "required": true,
        "type": "meta_cuantitativa"
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        "priority": 3,
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        "method_type": "analysis",
        "priority": 4,
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        "function": "diagnose_critical_links",
        "method_type": "analysis",
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    "description": "TextMiningEngine.diagnose_critical_links"
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  {
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    "method_type": "extraction",
    "priority": 6,
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    "method_type": "scoring",
    "priority": 7,
    "description": "IndustrialPolicyProcessor._calculate_quality_score"
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    "function": "generate_traceability_record",
    "method_type": "analysis",
    "priority": 8,
    "description": "AdaptivePriorCalculator.generate_traceability_record"
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    "context_requirement": null,
    "semantic_expansion": null,
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    "flags": "i",
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    "match_type": "REGEX",
    "pattern": "títulos de propiedad rural entregados|predios formalizados",
    "specificity": "MEDIUM",
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    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "confidence_weight": 0.85,
    "flags": "i",
    "id": "PAT-Q221-003",
    "match_type": "REGEX",
    "pattern": "kilómetros (Km) de vías terciarias con mantenimiento/mejoramiento",
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"semantic_expansion": null,
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"id": "PAT-Q221-004",
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"pattern": "familias beneficiadas con proyectos de riego|productores con asistencia técnica",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q221-005",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH",
"pattern_ref": "PAT-0008"
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH",
"pattern_ref": "PAT-0007"
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"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q221-008",
"match_type": "REGEX",
"pattern": "registros de la ANT/SNR|informes de interventoría de obra|actas de entrega",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
}
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"question_global": 221,

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    "scoring_modality": "TYPE_A",
    "text": "¿Los indicadores de producto para tierras (ej. predios formalizados, km de vía mejorados) incluyen 'línea base', 'meta' cuantitativ
    "validations": {
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        "type": "completeness",
        "threshold": 0.8
      }
    }
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    "cluster_id": "CL01",
    "dimension_id": "DIM03",
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        "type": "proporcionalidad_meta_problema"
      }
    ],
    "failure_contract": {
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        "incomplete_text"
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    "method_sets": [
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        "function": "_calculate_bayesian_posterior",
        "method_type": "scoring",
        "priority": 1,
        "description": "AdvancedDAGValidator._calculate_bayesian_posterior"
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        "function": "_calculate_confidence_interval",
        "method_type": "scoring",
        "priority": 2,
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        "method_type": "analysis",
        "priority": 3,
        "description": "AdaptivePriorCalculator._adjust_domain_weights"
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        "method_type": "analysis",
        "priority": 4,
        "description": "PDETMunicipalPlanAnalyzer._get_spanish_stopwords"
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        "method_type": "analysis",
        "priority": 5,
        "description": "BayesianMechanismInference._log_refactored_components"
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        "method_type": "analysis",
        "priority": 6,
        "description": "PDETMunicipalPlanAnalyzer.analyze_financial_feasibility"
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      {
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"priority": 7,
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"method_type": "analysis",
"priority": 8,
"description": "PDETMunicipalPlanAnalyzer._interpret_risk"
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"class": "FinancialAuditor",
"function": "_calculate_sufficiency",
"method_type": "scoring",
"priority": 9,
"description": "FinancialAuditor._calculate_sufficiency"
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"class": "BayesianMechanismInference",
"function": "_test_sufficiency",
"method_type": "analysis",
"priority": 10,
"description": "BayesianMechanismInference._test_sufficiency"
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"class": "BayesianMechanismInference",
"function": "_test_necessity",
"method_type": "analysis",
"priority": 11,
"description": "BayesianMechanismInference._test_necessity"
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"class": "PDETMunicipalPlanAnalyzer",
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"method_type": "analysis",
"priority": 12,
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"function": "calculate_likelihood_adaptativo",
"method_type": "scoring",
"priority": 13,
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"method_type": "scoring",
"priority": 14,
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"method_type": "analysis",
"priority": 15,
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"method_type": "analysis",
"priority": 16,
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"class": "PDETMunicipalPlanAnalyzer",
"function": "_indicator_to_dict",
"method_type": "analysis",
"priority": 17,

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"method_type": "analysis",
"priority": 18,
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"class": "IndustrialPolicyProcessor",
"function": "_compile_pattern_registry",
"method_type": "analysis",
"priority": 19,
"description": "IndustrialPolicyProcessor._compile_pattern_registry"
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"class": "IndustrialPolicyProcessor",
"function": "_build_point_patterns",
"method_type": "analysis",
"priority": 20,
"description": "IndustrialPolicyProcessor._build_point_patterns"
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"class": "IndustrialPolicyProcessor",
"function": "_empty_result",
"method_type": "analysis",
"priority": 21,
"description": "IndustrialPolicyProcessor._empty_result"
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"flags": "i",
"id": "PAT-Q222-000",
"match_type": "REGEX",
"pattern": "la meta de formalización cubre un X% del total de predios informales",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"category": "INDICADOR",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q222-001",
"match_type": "REGEX",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_requirement": null,
"semantic_expansion": null,
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"flags": "i",
"id": "PAT-Q222-003",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q222-004",
"match_type": "REGEX",
"pattern": "se priorizarán las veredas con mayor informalidad|vías más críticas",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"required": true,
"type": "trazabilidad_presupuestal"
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"function": "_match_program_to_node",
"method_type": "analysis",
"priority": 1,
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"function": "_match_goal_to_budget",
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"priority": 2,
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"priority": 4,
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"method_type": "analysis",
"priority": 5,
"description": "PDETMunicipalPlanAnalyzer.identify_responsible_entities"
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"class": "PDETMunicipalPlanAnalyzer",
"function": "_score_responsibility_clarity",
"method_type": "scoring",
"priority": 6,
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"priority": 7,
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"class": "PolicyAnalysisEmbedder",
"function": "_generate_query_from_pdq",
"method_type": "analysis",
"priority": 8,
"description": "PolicyAnalysisEmbedder._generate_query_from_pdq"
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"function": "semantic_search",
"method_type": "analysis",
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"description": "PolicyAnalysisEmbedder.semantic_search"
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"class": "PolicyAnalysisEmbedder",
"function": "_apply_mmr",
"method_type": "analysis",
"priority": 10,
"description": "PolicyAnalysisEmbedder._apply_mmr"
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"method_type": "analysis",
"priority": 11,
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    "function": "_classify_value_chain_link",
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    "priority": 14,
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    "function": "_vectorize_segments",
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    "priority": 15,
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    "priority": 16,
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    "function": "_calculate_semantic_complexity",
    "method_type": "scoring",
    "priority": 17,
    "description": "SemanticAnalyzer._calculate_semantic_complexity"
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    "function": "_compute_evidence_confidence",
    "method_type": "analysis",
    "priority": 18,
    "description": "IndustrialPolicyProcessor._compute_evidence_confidence"
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    "method_type": "analysis",
    "priority": 19,
    "description": "PDETMunicipalPlanAnalyzer._entity_to_dict"
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  {
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    "function": "generate_traceability_record",
    "method_type": "analysis",
    "priority": 20,
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    "priority": 22,
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"context_requirement": null,
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      "type": "realismo_plazos"
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    "priority": 26,
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    "context_scope": "PARAGRAPH"
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    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "context_requirement": null,
    "semantic_expansion": null,
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{
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"method_type": "analysis",
"priority": 6,
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"priority": 8,
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"priority": 9,
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"priority": 12,
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  "priority": 16,
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  "priority": 18,
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  "method_type": "analysis",
  "priority": 19,
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  "method_type": "scoring",
  "priority": 20,
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  "priority": 21,
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  "function": "_validar_orden_causal",
  "method_type": "analysis",
  "priority": 22,
  "description": "TeoriaCambio._validar_orden_causal"
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  "method_type": "analysis",
  "priority": 23,
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  "function": "compare_policy_interventions",
  "method_type": "analysis",
  "priority": 24,
  "description": "PolicyAnalysisEmbedder.compare_policy_interventions"
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    "semantic_expansion": null,
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    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "confidence_weight": 0.85,
    "flags": "i",
    "id": "PAT-Q225-002",
    "match_type": "REGEX",
    "pattern": "al mejorar las vías, se reducen los costos de transporte de los productos agrícolas",
    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
  },
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    "confidence_weight": 0.85,
    "flags": "i",
    "id": "PAT-Q225-003",
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    "pattern": "la actualización catastral fortalece las finanzas municipales, lo que permite mayor inversión",
    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
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"context_requirement": null,
"semantic_expansion": null,
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"pattern_ref": "PAT-0030"
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"question_id": "Q225",
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"scoring_modality": "TYPE_A",
"text": "¿El PDM explica cómo los productos (ej. 'vías terciarias mejoradas') contribuyen a generar resultados (ej. 'reducción de costos d
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"required": true,
"type": "meta_resultado"
},
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"required": true,
"type": "metrica_outcome"
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"priority": 1,
"description": "PDETMunicipalPlanAnalyzer._extract_entities_syntax"
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"priority": 2,
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"priority": 3,
"description": "CausalExtractor._calculate_language_specificity"
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"method_type": "analysis",
"priority": 6,
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"function": "_find_outcome_mentions",
"method_type": "analysis",
"priority": 8,
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"method_type": "scoring",
"priority": 9,
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"function": "_extract_goals",
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"priority": 10,
"description": "CausalExtractor._extract_goals"
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"class": "CausalExtractor",
"function": "_parse_goal_context",
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"priority": 11,
"description": "CausalExtractor._parse_goal_context"
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"method_type": "analysis",
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"description": "CausalExtractor._classify_goal_type"
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"description": "TemporalLogicVerifier._parse_temporal_marker"
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      "method_type": "analysis",
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      "method_type": "analysis",
      "priority": 16,
      "description": "PerformanceAnalyzer._generate_recommendations"
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      "context_requirement": null,
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      "pattern": "índice de estado de la red vial terciaria",
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"semantic_expansion": null,
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"pattern_ref": "PAT-0004"
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"semantic_expansion": null,
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"scoring_modality": "TYPE_A",
"text": "¿Los indicadores de resultado para tierras (ej. 'porcentaje de actualización catastral', 'reducción del tiempo de viaje en zonas rur
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"threshold": 0.8
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}
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{
"required": true,
"type": "condiciones_habilitantes"
},
{
"required": true,
"type": "supuestos_identificados"
}
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"incomplete_text"
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"method_type": "analysis",
"priority": 1,
"description": "TeoriaCambio._encontrar_caminos_completos"
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"function": "validacion_completa",
"method_type": "analysis",
"priority": 2,
"description": "TeoriaCambio.validacion_completa"
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"class": "CausalExtractor",
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"method_type": "extraction",
"priority": 3,
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"function": "verify_conditional_independence",
"method_type": "analysis",
"priority": 4,

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"function": "_generate_independence_tests",
"method_type": "analysis",
"priority": 5,
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"method_type": "analysis",
"priority": 6,
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"method_type": "analysis",
"priority": 7,
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},
{
"class": "BayesFactorTable",
"function": "get_bayes_factor",
"method_type": "analysis",
"priority": 8,
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}
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"semantic_expansion": null,
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},
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"context_requirement": null,
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"id": "PAT-Q227-005",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"flags": "i",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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],
"policy_area_id": "PA07",
"question_global": 227,
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"scoring_modality": "TYPE_A",
"text": "¿Se explicita la cadena causal que lleva a la mejora territorial, mencionando 'supuestos' clave (ej. 'si los propietarios registran lo
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"threshold": 0.8
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},
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},

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      "method_type": "analysis",
      "priority": 1,
      "description": "PDETMunicipalPlanAnalyzer._get_prior_effect"
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      "method_type": "analysis",
      "priority": 2,
      "description": "PDETMunicipalPlanAnalyzer._estimate_effect_bayesian"
    },
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      "class": "PDETMunicipalPlanAnalyzer",
      "function": "_compute_robustness_value",
      "method_type": "analysis",
      "priority": 3,
      "description": "PDETMunicipalPlanAnalyzer._compute_robustness_value"
    },
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      "function": "sensitivity_analysis",
      "method_type": "analysis",
      "priority": 4,
      "description": "AdaptivePriorCalculator.sensitivity_analysis"
    },
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      "function": "_calculate_r_hat",
      "method_type": "scoring",
      "priority": 5,
      "description": "HierarchicalGenerativeModel._calculate_r_hat"
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      "class": "HierarchicalGenerativeModel",
      "function": "_calculate_ess",
      "method_type": "scoring",
      "priority": 6,
      "description": "HierarchicalGenerativeModel._calculate_ess"
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      "function": "_calculate_statistical_power",
      "method_type": "scoring",
      "priority": 7,
      "description": "AdvancedDAGValidator._calculate_statistical_power"
    },
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      "class": "BayesianMechanismInference",
      "function": "_aggregate_bayesian_confidence",
      "method_type": "analysis",
      "priority": 8,
      "description": "BayesianMechanismInference._aggregate_bayesian_confidence"
    }
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],
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    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "flags": "i",
    "id": "PAT-Q228-001",
    "match_type": "REGEX",
    "pattern": "la meta se justifica por el convenio interadministrativo con el IGAC",
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    "semantic_expansion": null,
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    "pattern": "con la inversión de X se espera lograr la actualización de Y hectáreas",
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    "semantic_expansion": null,
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    "id": "PAT-Q228-003",
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    "pattern": "la capacidad técnica de la Secretaría de Planeación permite",
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    "context_requirement": null,
    "semantic_expansion": null,
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    "flags": "i",
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    "pattern": "en experiencias similares de otros municipios gestores catastrales",
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    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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"semantic_expansion": null,
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"question_global": 228,
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"text": "¿La ambición de las metas de resultado (ej. 'actualizar el 100% del catastro') se justifica en función de los recursos, la capacida
"validations": {
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"dimension_id": "DIM04",
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"type": "criterios_exito_definidos"
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{
"required": true,
"type": "vinculo_resultado_problema"
}
],
"failure_contract": {
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"function": "_calculate_objective_alignment",
"method_type": "scoring",
"priority": 1,
"description": "PolicyContradictionDetector._calculate_objective_alignment"
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{
"class": "PolicyContradictionDetector",
"function": "_identify_affected_sections",
"method_type": "analysis",
"priority": 2,
"description": "PolicyContradictionDetector._identify_affected_sections"
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"class": "PolicyContradictionDetector",
"function": "_generate_resolution_recommendations",
"method_type": "analysis",
"priority": 3,
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"function": "_generate_optimal_remediations",
"method_type": "analysis",
"priority": 4,
"description": "OperationalizationAuditor._generate_optimal_remediations"
},
{
"class": "OperationalizationAuditor",

"function": "_get_remediation_text",
"method_type": "analysis",
"priority": 5,
"description": "OperationalizationAuditor._get_remediation_text"
},
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"function": "aggregate_risk_and_prioritize",
"method_type": "analysis",
"priority": 6,
"description": "BayesianCounterfactualAuditor.aggregate_risk_and_prioritize"
},
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"priority": 7,
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"semantic_expansion": null,
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"id": "PAT-Q229-002",
"match_type": "REGEX",
"pattern": "el resultado atiende directamente el conflicto de uso del suelo",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
{
"category": "INDICADOR",
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"flags": "i",
"id": "PAT-Q229-003",
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"pattern": "criterio de éxito|se considerará un logro si la informalidad baja de X%",
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
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        "context_requirement": null,
        "semantic_expansion": null,
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        "pattern_ref": "PAT-0108"
      },
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        "flags": "i",
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        "specificity": "MEDIUM",
        "validation_rule": null,
        "context_requirement": null,
        "semantic_expansion": null,
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        "context_scope": "PARAGRAPH",
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    "question_global": 229,
    "question_id": "Q229",
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    "scoring_modality": "TYPE_A",
    "text": "¿Los resultados propuestos (ej. 'aumento de la seguridad jurídica de la tenencia') 'atienden' o 'abordan' directamente los problem
    "validations": {
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      {
        "required": true,
        "type": "alineacion_ods"
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      {
        "required": true,
        "type": "alineacion_pnd"
      }
    ],
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        "incomplete_text"
      ],
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    "method_sets": [
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        "priority": 1,
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    },
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      "method_type": "scoring",
      "priority": 2,
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      "function": "_validate_dnp_compliance",
      "method_type": "validation",
      "priority": 3,
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      "class": "CDAFFramework",
      "function": "_generate_dnp_report",
      "method_type": "analysis",
      "priority": 4,
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    },
    {
      "class": "IndustrialPolicyProcessor",
      "function": "_analyze_causal_dimensions",
      "method_type": "analysis",
      "priority": 5,
      "description": "IndustrialPolicyProcessor._analyze_causal_dimensions"
    },
    {
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      "function": "validate_quality_criteria",
      "method_type": "validation",
      "priority": 6,
      "description": "AdaptivePriorCalculator.validate_quality_criteria"
    }
  ],
  "patterns": [
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      "flags": "i",
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      "pattern": "alineado con el Plan Nacional de Desarrollo|PND|transformación 1 y 4",
      "specificity": "MEDIUM",
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      "flags": "i",
      "id": "PAT-Q230-001",
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      "pattern": "contribuye al Punto 1 del Acuerdo de Paz|Reforma Rural Integral|RRI",
      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
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      "confidence_weight": 0.85,
      "flags": "i",
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      "specificity": "MEDIUM",
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"semantic_expansion": null,
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"dimension_id": "DIM05",
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"type": "rezago_temporal"
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"required": true,
"type": "ruta_transmision"
}
],
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],
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    "priority": 1,
    "description": "PDETMunicipalPlanAnalyzer.generate_counterfactuals"
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    "method_type": "analysis",
    "priority": 3,
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    "method_type": "analysis",
    "priority": 4,
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    "method_type": "analysis",
    "priority": 5,
    "description": "TeoriaCambio._validar_orden_causal"
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    "method_type": "analysis",
    "priority": 6,
    "description": "CausalExtractor._assess_temporal_coherence"
  },
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    "function": "_generate_interventions",
    "method_type": "analysis",
    "priority": 7,
    "description": "TextMiningEngine._generate_interventions"
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  {
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    "function": "construct_scm",
    "method_type": "analysis",
    "priority": 8,
    "description": "BayesianCounterfactualAuditor.construct_scm"
  }
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    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
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    "pattern_ref": "PAT-0070"
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    "confidence_weight": 0.85,
    "flags": "i",
    "id": "PAT-Q231-001",
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q231-002",
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"pattern": "cierre de brechas rural-urbanas|convergencia regional",
"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
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"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q231-003",
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"pattern": "la suma de los resultados de seguridad jurídica y productividad generará",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH",
"pattern_ref": "PAT-0106"
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"category": "GENERAL",
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"flags": "i",
"id": "PAT-Q231-006",
"match_type": "LITERAL",
"pattern": "rezago temporal|efectos estructurales",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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    "scoring_modality": "TYPE_A",
    "text": "¿El PDM define 'impactos' de largo plazo (ej. 'ordenamiento sostenible del territorio', 'desarrollo rural competitivo')? Se debe veri
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        "type": "completeness",
        "threshold": 0.8
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      {
        "required": true,
        "type": "usa_proxies"
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        "priority": 2,
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        "method_type": "analysis",
        "priority": 3,
        "description": "PDETMunicipalPlanAnalyzer._compute_e_value"
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      {
        "class": "PDETMunicipalPlanAnalyzer",
        "function": "_compute_robustness_value",
        "method_type": "analysis",
        "priority": 4,
        "description": "PDETMunicipalPlanAnalyzer._compute_robustness_value"
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        "class": "PDETMunicipalPlanAnalyzer",
        "function": "_interpret_sensitivity",
        "method_type": "analysis",
        "priority": 5,
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"description": "PDETMunicipalPlanAnalyzer._interpret_sensitivity"
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"class": "BayesianMechanismInference",
"function": "_aggregate_bayesian_confidence",
"method_type": "analysis",
"priority": 7,
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"function": "get_diagnostics",
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"function": "_generate_query_from_pdq",
"method_type": "analysis",
"priority": 11,
"description": "PolicyAnalysisEmbedder._generate_query_from_pdq"
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"function": "_filter_by_pdq",
"method_type": "analysis",
"priority": 12,
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"function": "_embed_texts",
"method_type": "analysis",
"priority": 14,
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"method_type": "analysis",
"priority": 15,
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"method_type": "scoring",
"priority": 16,
"description": "FinancialAuditor._calculate_sufficiency"
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"class": "PDETMunicipalPlanAnalyzer",
"function": "_interpret_overall_quality",
"method_type": "analysis",
"priority": 17,
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"priority": 18,
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"method_type": "analysis",
"priority": 19,
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"class": "PolicyTextProcessor",
"function": "segment_into_sentences",
"method_type": "analysis",
"priority": 20,
"description": "PolicyTextProcessor.segment_into_sentences"
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{
"class": "IndustrialPolicyProcessor",
"function": "_compute_evidence_confidence",
"method_type": "analysis",
"priority": 21,
"description": "IndustrialPolicyProcessor._compute_evidence_confidence"
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"class": "IndustrialPolicyProcessor",
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"priority": 24,
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    "priority": 27,
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  {
    "class": "IndustrialPolicyProcessor",
    "function": "export_results",
    "method_type": "analysis",
    "priority": 28,
    "description": "IndustrialPolicyProcessor.export_results"
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    "id": "PAT-Q232-000",
    "match_type": "REGEX",
    "pattern": "Índice de Competitividad|Índice de Pobreza Multidimensional Rural",
    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
  },
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    "confidence_weight": 0.85,
    "flags": "i",
    "id": "PAT-Q232-001",
    "match_type": "REGEX",
    "specificity": "MEDIUM",
    "validation_rule": null,
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    "semantic_expansion": null,
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    "flags": "i",
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    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"category": "INDICADOR",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q232-005",
"match_type": "REGEX",
"pattern": "este indicador es válido porque refleja|captura las dinámicas de desarrollo",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"scoring_modality": "TYPE_A",
"text": "¿Se utilizan 'índices' (ej. Índice de Competitividad Rural) o 'proxies' para medir los impactos en el desarrollo territorial, justificanc
"validations": {
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"threshold": 0.8
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}
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{
"base_slot": "D5-Q3",
"cluster_id": "CL01",
"dimension_id": "DIM05",
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{
"required": true,
"type": "proxy_para_intangibles"
},
{
"required": true,
"type": "reconoce_limitaciones"
}
],
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"priority": 2,
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"priority": 3,
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"class": "PDETMunicipalPlanAnalyzer",
"function": "_find_mediator_mentions",
"method_type": "analysis",
"priority": 4,
"description": "PDETMunicipalPlanAnalyzer._find_mediator_mentions"
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"class": "PolicyAnalysisEmbedder",
"function": "get_diagnostics",
"method_type": "analysis",
"priority": 5,
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},
{
"class": "AdaptivePriorCalculator",
"function": "_perturb_evidence",
"method_type": "analysis",
"priority": 6,
"description": "AdaptivePriorCalculator._perturb_evidence"
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"match_type": "REGEX",
"pattern": "dado que es difícil medir el arraigo territorial|para aproximar",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH",
"pattern_ref": "PAT-0100"
},
{
"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
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"match_type": "REGEX",
"pattern": "la inversión en mejoras de la vivienda rural como proxy de arraigo",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"

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        "context_requirement": null,
        "semantic_expansion": null,
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        "confidence_weight": 0.85,
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        "id": "PAT-Q233-004",
        "match_type": "LITERAL",
        "pattern": "una limitación es que no captura las motivaciones culturales",
        "specificity": "MEDIUM",
        "validation_rule": null,
        "context_requirement": null,
        "semantic_expansion": null,
        "context_scope": "PARAGRAPH"
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      {
        "category": "GENERAL",
        "confidence_weight": 0.85,
        "flags": "i",
        "id": "PAT-Q233-005",
        "match_type": "REGEX",
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        "specificity": "MEDIUM",
        "validation_rule": null,
        "context_requirement": null,
        "semantic_expansion": null,
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    "question_global": 233,
    "question_id": "Q233",
    "scoring_definition_ref": "scoring_modalities.TYPE_A",
    "scoring_modality": "TYPE_A",
    "text": "Cuando un impacto territorial es difícil de medir (ej. 'arraigo de la población al campo'), ¿se recurre a un 'proxy'? Se valora si el t
    "validations": {
      "completeness_check": {
        "type": "completeness",
        "threshold": 0.8
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    }
  },
  {
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      {
        "required": true,
        "type": "riesgos_sistemicos"
      }
    ],
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      "method_type": "validation",
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      "function": "refutation_and_sanity_checks",
      "method_type": "analysis",
      "priority": 2,
      "description": "BayesianCounterfactualAuditor.refutation_and_sanity_checks"
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      "function": "_test_effect_stability",
      "method_type": "analysis",
      "priority": 3,
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      "function": "_interpret_risk",
      "method_type": "analysis",
      "priority": 4,
      "description": "PDETMunicipalPlanAnalyzer._interpret_risk"
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    {
      "class": "PDETMunicipalPlanAnalyzer",
      "function": "_interpret_sensitivity",
      "method_type": "analysis",
      "priority": 5,
      "description": "PDETMunicipalPlanAnalyzer._interpret_sensitivity"
    },
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      "function": "_break_cycles",
      "method_type": "analysis",
      "priority": 6,
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      "method_type": "analysis",
      "priority": 7,
      "description": "AdaptivePriorCalculator.sensitivity_analysis"
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"semantic_expansion": null,
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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        "threshold": 0.8
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        "type": "efectos_no_deseados"
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        "type": "hipotesis_limite"
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        "method_type": "analysis",
        "priority": 2,
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        "method_type": "scoring",
        "priority": 3,
        "description": "HierarchicalGenerativeModel._calculate_waic_difference"
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        "method_type": "validation",
        "priority": 5,
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      "priority": 7,
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      "function": "_calculate_coherence_factor",
      "method_type": "scoring",
      "priority": 8,
      "description": "BayesianMechanismInference._calculate_coherence_factor"
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      "flags": "i",
      "id": "PAT-Q235-000",
      "match_type": "REGEX",
      "pattern": "la ambición del impacto es realista si se mantiene la cofinanciación nacional",
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      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
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      "flags": "i",
      "id": "PAT-Q235-001",
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      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH",
      "pattern_ref": "PAT-0053"
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      "flags": "i",
      "id": "PAT-Q235-002",
      "match_type": "REGEX",
      "pattern": "riesgo de valorización del suelo y expulsión de campesinos",
      "specificity": "MEDIUM",
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      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "confidence_weight": 0.85,
      "flags": "i",
      "id": "PAT-Q235-003",
      "match_type": "REGEX",
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      "validation_rule": null,
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"context_requirement": null,
"semantic_expansion": null,
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"category": "GENERAL",
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"id": "PAT-Q235-005",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH",
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"scoring_modality": "TYPE_A",
"text": "¿La ambición del impacto (ej. 'cierre total de la brecha rural-urbana') es realista? Se debe buscar si se analizan posibles 'efectos
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"type": "completeness",
"threshold": 0.8
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},
{
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"type": "teoria_cambio_explicita"
}

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    "method_type": "analysis",
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    "description": "TeoriaCambio.construir_grafo_causal"
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    "method_type": "analysis",
    "priority": 2,
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    "priority": 3,
    "description": "TeoriaCambio.export_nodes"
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    "method_type": "analysis",
    "priority": 4,
    "description": "ReportingEngine.generate_causal_diagram"
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    "function": "generate_causal_model_json",
    "method_type": "analysis",
    "priority": 5,
    "description": "ReportingEngine.generate_causal_model_json"
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    "function": "export_nodes",
    "method_type": "analysis",
    "priority": 6,
    "description": "AdvancedDAGValidator.export_nodes"
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    "function": "export_causal_network",
    "method_type": "analysis",
    "priority": 7,
    "description": "PDETMunicipalPlanAnalyzer.export_causal_network"
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    "function": "extract_causal_hierarchy",
    "method_type": "extraction",
    "priority": 8,
    "description": "CausalExtractor.extract_causal_hierarchy"
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"semantic_expansion": null,
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"flags": "i",
"id": "PAT-Q236-002",
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"pattern": "causa raíz de la informalidad|determinante estructural del subdesarrollo rural",
"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q236-003",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"flags": "i",
"id": "PAT-Q236-004",
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"pattern": "moderador|factor contextual|calidad del suelo|conflicto armado",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q236-005",
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"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH",
"pattern_ref": "PAT-0104"
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    "scoring_modality": "TYPE_A",
    "text": "¿Existe una 'teoría de cambio' explícita para la política de tierras, preferiblemente en un 'diagrama', que identifique causas (ej. c
    "validations": {
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        "type": "completeness",
        "threshold": 0.8
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    }
  },
  {
    "base_slot": "D6-Q2",
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    "dimension_id": "DIM06",
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        "type": "evita_saltos_logicos"
      },
      {
        "required": true,
        "type": "proporcionalidad_eslabones"
      }
    ],
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        "incomplete_text"
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        "function": "apply_test_logic",
        "method_type": "analysis",
        "priority": 1,
        "description": "BeachEvidentialTest.apply_test_logic"
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        "function": "_test_necessity",
        "method_type": "analysis",
        "priority": 2,
        "description": "BayesianMechanismInference._test_necessity"
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        "function": "_test_sufficiency",
        "method_type": "analysis",
        "priority": 3,
        "description": "BayesianMechanismInference._test_sufficiency"
      },
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        "function": "_calculate_coherence_factor",
        "method_type": "scoring",
        "priority": 4,
        "description": "BayesianMechanismInference._calculate_coherence_factor"
      },
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        "function": "_test_effect_stability",
        "method_type": "analysis",
        "priority": 5,
        "description": "BayesianCounterfactualAuditor._test_effect_stability"
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      {
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"function": "validate_connection_matrix",
"method_type": "validation",
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"description": "IndustrialGradeValidator.validate_connection_matrix"
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"function": "_compute_overall_confidence",
"method_type": "analysis",
"priority": 7,
"description": "PolicyAnalysisEmbedder._compute_overall_confidence"
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"semantic_expansion": null,
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"flags": "i",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH",
"pattern_ref": "PAT-0076"
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"flags": "i",
"id": "PAT-Q237-004",
"match_type": "REGEX",
"pattern": "se requieren pasos intermedios para lograr la competitividad",

"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q237-005",
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"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH",
"pattern_ref": "PAT-0056"
}
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"question_id": "Q237",
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"scoring_modality": "TYPE_A",
"text": "¿Los saltos en la cadena causal de tierras son proporcionales (ej. la formalización de un predio no genera por sí sola 'desarrollo
"validations": {
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"type": "completeness",
"threshold": 0.8
}
}
},
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"cluster_id": "CL01",
"dimension_id": "DIM06",
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"type": "propone_pilotos_o_pruebas"
},
{
"required": true,
"type": "reconoce_inconsistencias"
}
],
"failure_contract": {
"abort_if": [
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"function": "execute_suite",
"method_type": "analysis",
"priority": 1,
"description": "IndustrialGradeValidator.execute_suite"
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"class": "IndustrialGradeValidator",
"function": "validate_engine_readiness",
"method_type": "validation",
"priority": 2,
"description": "IndustrialGradeValidator.validate_engine_readiness"
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"function": "_benchmark_operation",
"method_type": "analysis",

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    "priority": 3,
    "description": "IndustrialGradeValidator._benchmark_operation"
  },
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    "class": "AdaptivePriorCalculator",
    "function": "validate_quality_criteria",
    "method_type": "validation",
    "priority": 4,
    "description": "AdaptivePriorCalculator.validate_quality_criteria"
  },
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    "class": "HierarchicalGenerativeModel",
    "function": "_calculate_r_hat",
    "method_type": "scoring",
    "priority": 5,
    "description": "HierarchicalGenerativeModel._calculate_r_hat"
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  {
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    "function": "_calculate_ess",
    "method_type": "scoring",
    "priority": 6,
    "description": "HierarchicalGenerativeModel._calculate_ess"
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  {
    "class": "AdvancedDAGValidator",
    "function": "calculate_acyclicity_pvalue",
    "method_type": "scoring",
    "priority": 7,
    "description": "AdvancedDAGValidator.calculate_acyclicity_pvalue"
  },
  {
    "class": "PerformanceAnalyzer",
    "function": "analyze_performance",
    "method_type": "analysis",
    "priority": 8,
    "description": "PerformanceAnalyzer.analyze_performance"
  }
],
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    "flags": "i",
    "id": "PAT-Q238-000",
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    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
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    "context_scope": "PARAGRAPH",
    "pattern_ref": "PAT-0071"
  },
  {
    "category": "GENERAL",
    "confidence_weight": 0.85,
    "flags": "i",
    "id": "PAT-Q238-001",
    "match_type": "REGEX",
    "pattern": "se requiere validar si la titulación por sí sola aumenta la inversión",
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    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
  },
  {
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    "confidence_weight": 0.85,
    "flags": "i",
    "id": "PAT-Q238-002",
    "match_type": "REGEX",
    "pattern": "plan piloto de catastro en una vereda|fase experimental",
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      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "confidence_weight": 0.85,
      "flags": "i",
      "id": "PAT-Q238-003",
      "match_type": "REGEX",
      "pattern": "testear el supuesto de que las vías mejoradas aumentan la comercialización",
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      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
    },
    {
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      "confidence_weight": 0.85,
      "flags": "i",
      "id": "PAT-Q238-004",
      "match_type": "REGEX",
      "pattern": "validar la hipótesis sobre la adopción de la asistencia técnica",
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      "validation_rule": null,
      "context_requirement": null,
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  "question_global": 238,
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  "scoring_modality": "TYPE_A",
  "text": "¿El plan reconoce 'inconsistencias' en su lógica de tierras y propone 'pilotos' o 'pruebas' para 'testear los supuestos' de sus inter
  "validations": {
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      "type": "completeness",
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},
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  {
    "required": true,
    "type": "mecanismos_correccion"
  },
  {
    "required": true,
    "type": "sistema_monitoreo"
  }
],
"failure_contract": {
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    "method_type": "analysis",
    "priority": 1,
    "description": "ConfigLoader.update_priors_from_feedback"
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    "method_type": "analysis",
    "priority": 2,
    "description": "ConfigLoader.check_uncertainty_reduction_criterion"
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    "function": "_save_prior_history",
    "method_type": "analysis",
    "priority": 3,
    "description": "ConfigLoader._save_prior_history"
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    "function": "_load_uncertainty_history",
    "method_type": "analysis",
    "priority": 4,
    "description": "ConfigLoader._load_uncertainty_history"
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    "function": "_extract_feedback_from_audit",
    "method_type": "validation",
    "priority": 5,
    "description": "CDAFFramework._extract_feedback_from_audit"
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    "method_type": "scoring",
    "priority": 6,
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    "function": "get_bayes_factor",
    "method_type": "analysis",
    "priority": 7,
    "description": "BayesFactorTable.get_bayes_factor"

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  }
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    "validation_rule": null,
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    "semantic_expansion": null,
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    "flags": "i",
    "id": "PAT-Q239-003",
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    "semantic_expansion": null,
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    "context_requirement": null,
    "semantic_expansion": null,
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"context_scope": "PARAGRAPH"
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"question_global": 239,
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"scoring_definition_ref": "scoring_modalities.TYPE_A",
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"text": "¿Se describe un sistema de monitoreo para la política de tierras que incluya 'mecanismos de corrección', 'retroalimentación' o 'a
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"priority": 1,
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"method_type": "analysis",
"priority": 2,
"description": "CausalExtractor._assess_temporal_coherence"
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"function": "diagnose_critical_links",
"method_type": "analysis",
"priority": 3,
"description": "TextMiningEngine.diagnose_critical_links"
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"method_type": "analysis",
"priority": 4,
"description": "CausalInferenceSetup.identify_failure_points"
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"class": "CausalInferenceSetup",
"function": "_get_dynamics_pattern",
"method_type": "analysis",
"priority": 5,
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"function": "chunk_text",
"method_type": "analysis",
"priority": 6,
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"class": "SemanticProcessor",
"function": "_detect_pdm_structure",
"method_type": "analysis",
"priority": 7,
"description": "SemanticProcessor._detect_pdm_structure"
},
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"class": "SemanticProcessor",
"function": "_detect_table",
"method_type": "analysis",
"priority": 8,
"description": "SemanticProcessor._detect_table"
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"class": "AdaptivePriorCalculator",
"function": "generate_traceability_record",
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"priority": 9,
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"flags": "i",
"id": "PAT-Q240-001",
"match_type": "REGEX",
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"context_requirement": null,
"semantic_expansion": null,

"context_scope": "PARAGRAPH"
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"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q240-002",
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"pattern": "comunidades indígenas y sus resguardos|territorios colectivos afrodescendientes|afrodescendiente|comunidad negra|pale
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"validation_rule": null,
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q240-004",
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q240-005",
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"category": "TERRITORIAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q240-006",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"scoring_modality": "TYPE_A",

"text": "¿La lógica causal para tierras considera el contexto, reconociendo 'grupos afectados' (comunidades étnicas, campesinos sin tier
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"minimum": 3,
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},
{
"minimum": 2,
"type": "series_temporales_años"
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"incomplete_text"
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"function": "process",
"method_type": "analysis",
"priority": 3,
"description": "IndustrialPolicyProcessor.process"
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"method_type": "analysis",
"priority": 4,
"description": "IndustrialPolicyProcessor._match_patterns_in_sentences"
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"method_type": "extraction",
"priority": 5,
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},
{
"class": "CausalExtractor",
"function": "_extract_goals",
"method_type": "extraction",

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  "priority": 6,
  "description": "CausalExtractor._extract_goals"
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{
  "class": "CausalExtractor",
  "function": "_parse_goal_context",
  "method_type": "extraction",
  "priority": 7,
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  "class": "FinancialAuditor",
  "function": "_parse_amount",
  "method_type": "extraction",
  "priority": 8,
  "description": "FinancialAuditor._parse_amount"
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  "method_type": "extraction",
  "priority": 9,
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  "method_type": "extraction",
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  "priority": 11,
  "description": "PolicyContradictionDetector._extract_quantitative_claims"
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  "function": "_parse_number",
  "method_type": "extraction",
  "priority": 12,
  "description": "PolicyContradictionDetector._parse_number"
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  "function": "_statistical_significance_test",
  "method_type": "analysis",
  "priority": 13,
  "description": "PolicyContradictionDetector._statistical_significance_test"
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  "function": "evaluate_policy_metric",
  "method_type": "analysis",
  "priority": 14,
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  "method_type": "analysis",
  "priority": 15,
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    "function": "embed_single",
    "method_type": "analysis",
    "priority": 17,
    "description": "SemanticProcessor.embed_single"
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    "match_type": "REGEX",
    "pattern": "línea base|diagnóstico de riesgo para líderes|situación de personas defensoras",
    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
  },
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    "flags": "i",
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    "specificity": "MEDIUM",
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    "context_scope": "PARAGRAPH",
    "pattern_ref": "PAT-0067"
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    "flags": "i",
    "id": "PAT-Q241-002",
    "match_type": "REGEX",
    "pattern": "Defensoría del Pueblo|Sistema de Alertas Tempranas|SAT",
    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "confidence_weight": 0.85,
    "flags": "i",
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    "pattern": "Personería Municipal|Procuraduría General de la Nación",
    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "id": "PAT-Q241-004",
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"legal_mandate": "TBD",
"jurisdiction": "National",
"founding_year": "TBD"
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"synonym_clusters": [
"functional_description",
"historical_name"
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"context_scope": "PARAGRAPH"
},
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"category": "GENERAL",
"confidence_weight": 0.85,
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"id": "PAT-Q241-005",
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"pattern": "Somos Defensores|INDEPAZ|Plataformas de DDHH",
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q241-006",
"match_type": "REGEX",
"pattern": "número de amenazas|casos de hostigamiento|atentados|homicidios",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q241-007",
"match_type": "REGEX",
"pattern": "líderes sociales|lideresas|defensores de derechos humanos",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q241-008",
"match_type": "REGEX",
"pattern": "líder comunal|ambiental|étnico|firmante del acuerdo",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"confidence_weight": 0.85,

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      "flags": "i",
      "id": "PAT-Q241-009",
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      "pattern": "solicitudes de protección|medidas de protección implementadas",
      "specificity": "MEDIUM",
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      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "pattern": "mapa de riesgo|zonas de mayor amenaza",
      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
    },
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      "flags": "i",
      "id": "PAT-Q241-011",
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      "pattern": "(?:19|20)\\\\d{2}|vigencia anterior|serie histórica de agresiones",
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      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
    },
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      "confidence_weight": 0.85,
      "flags": "i",
      "id": "PAT-Q241-012",
      "match_type": "REGEX",
      "pattern": "número de casos|número de líderes|tasa por cada 100.000",
      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
    }
  ],
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  "question_global": 241,
  "question_id": "Q241",
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  "text": "¿El diagnóstico presenta datos numéricos (número de amenazas, homicidios de líderes, medidas de protección activas) sobre la
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      "minimum_required": 3,
      "patterns": [
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        "\\d+\\s*por\\s*\\d+",
        "tasa de",
        "índice de",
        "cobertura de"
      ],
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      "minimum_required": 1,
      "patterns": [
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        "territorial",
        "poblacional"
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        "%",
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        "según",
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        "DNP",
        "SISPRO",
        "SIVIGILA",
        "Ministerio"
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    },
    {
      "required": true,
      "type": "vacios_explicitos"
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  ],
  "failure_contract": {
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  "method_sets": [
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"priority": 4,
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"method_type": "scoring",
"priority": 10,
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"function": "calculate_posterior",
"method_type": "scoring",

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    "method_type": "analysis",
    "priority": 12,
    "description": "PerformanceAnalyzer.analyze_performance"
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    "flags": "i",
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    "pattern": "universo de líderes en riesgo|población defensora expuesta",
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    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "flags": "i",
    "id": "PAT-Q242-002",
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    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "flags": "i",
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    "pattern": "subregistro por miedo a denunciar|cifra negra de amenazas",
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    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "flags": "i",
    "id": "PAT-Q242-004",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q242-006",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"flags": "i",
"id": "PAT-Q242-007",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"type": "completeness",
"threshold": 0.8
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{
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{
"required": true,
"type": "trazabilidad_ppi_bpin"

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  }
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    "priority": 1,
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    "method_type": "analysis",
    "priority": 2,
    "description": "FinancialAuditor._process_financial_table"
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    "method_type": "analysis",
    "priority": 3,
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    "function": "_match_goal_to_budget",
    "method_type": "analysis",
    "priority": 4,
    "description": "FinancialAuditor._match_goal_to_budget"
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    "function": "_perform_counterfactual_budget_check",
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    "priority": 5,
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    "method_type": "scoring",
    "priority": 6,
    "description": "FinancialAuditor._calculate_sufficiency"
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    "method_type": "analysis",
    "priority": 7,
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    "priority": 8,
    "description": "PDETMunicipalPlanAnalyzer._extract_budget_for_pillar"
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    "method_type": "analysis",
    "priority": 9,
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      "function": "_analyze_funding_sources",
      "method_type": "analysis",
      "priority": 11,
      "description": "PDETMunicipalPlanAnalyzer._analyze_funding_sources"
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      "function": "_score_financial_component",
      "method_type": "scoring",
      "priority": 12,
      "description": "PDETMunicipalPlanAnalyzer._score_financial_component"
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      "function": "aggregate_risk_and_prioritize",
      "method_type": "analysis",
      "priority": 13,
      "description": "BayesianCounterfactualAuditor.aggregate_risk_and_prioritize"
    }
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      "context_requirement": null,
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      "pattern_ref": "PAT-0016"
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      "flags": "i",
      "id": "PAT-Q243-001",
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      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "flags": "i",
      "id": "PAT-Q243-002",
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      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "confidence_weight": 0.85,
      "flags": "i",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"flags": "i",
"id": "PAT-Q243-004",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_requirement": null,
"semantic_expansion": null,
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_requirement": null,
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"flags": "i",
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"semantic_expansion": null,
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"scoring_modality": "TYPE_B",
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"cluster_id": "CL03",
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"required": true,
"type": "datos_sistemas"
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{
"required": true,
"type": "gobernanza"
},
{
"required": true,
"type": "procesos"
},
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"required": true,
"type": "talento_humano"
}
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"missing_required_element",
"incomplete_text"
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"method_type": "analysis",
"priority": 1,
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"class": "PDETMunicipalPlanAnalyzer",
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"priority": 2,
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"method_type": "extraction",
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      "method_type": "analysis",
      "priority": 4,
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      "function": "_score_entity_specificity",
      "method_type": "scoring",
      "priority": 5,
      "description": "PDETMunicipalPlanAnalyzer._score_entity_specificity"
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      "method_type": "analysis",
      "priority": 6,
      "description": "PDETMunicipalPlanAnalyzer._consolidate_entities"
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      "function": "extract_entity_activity",
      "method_type": "extraction",
      "priority": 7,
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      "function": "_normalize_entity",
      "method_type": "analysis",
      "priority": 8,
      "description": "MechanismPartExtractor._normalize_entity"
    },
    {
      "class": "MechanismPartExtractor",
      "function": "_validate_entity_activity",
      "method_type": "validation",
      "priority": 9,
      "description": "MechanismPartExtractor._validate_entity_activity"
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      "class": "MechanismPartExtractor",
      "function": "_calculate_ea_confidence",
      "method_type": "scoring",
      "priority": 10,
      "description": "MechanismPartExtractor._calculate_ea_confidence"
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      "function": "audit_evidence_traceability",
      "method_type": "validation",
      "priority": 11,
      "description": "OperationalizationAuditor.audit_evidence_traceability"
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      "flags": "i",
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      "pattern": "Mesa Territorial de Garantías|Comité de Evaluación de Riesgo y Recomendación de Medidas|CERREM",
      "specificity": "MEDIUM",
      "validation_rule": null,
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      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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"id": "PAT-Q244-002",
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"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q244-003",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"category": "TERRITORIAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q244-004",
"match_type": "REGEX",
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"context_requirement": null,
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"context_scope": "PARAGRAPH"
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"id": "PAT-Q244-005",
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"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q244-006",
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"pattern": "Observatorio Municipal de DDHH",
"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q244-007",
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"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q244-008",
"match_type": "REGEX",
"pattern": "falta de articulación con el nivel nacional|demoras en la respuesta de la UNP",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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{
"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q244-009",
"match_type": "REGEX",
"pattern": "cuello de botella|limitación presupuestal|barrera de confianza",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
}
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"policy_area_id": "PA08",
"question_global": 244,
"question_id": "Q244",
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"scoring_modality": "TYPE_B",
"text": "¿El PDM describe las capacidades para proteger a los líderes, mencionando entidades (Comité de Garantías, Personería) y sus
"validations": {
"completeness_check": {
"type": "completeness",
"threshold": 0.8
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}
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"base_slot": "D1-Q5",
"cluster_id": "CL03",
"dimension_id": "DIM01",
"expected_elements": [
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"required": true,
"type": "coherencia_demostrada"
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"required": true,
"type": "restricciones_legales"

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      "priority": 3,
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      "priority": 4,
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      "method_type": "analysis",
      "priority": 5,
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      "method_type": "analysis",
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      "method_type": "extraction",
      "priority": 7,
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      "required": true,
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    {
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      "method_type": "analysis",
      "priority": 2,
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      "method_type": "analysis",
      "priority": 3,
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      "priority": 4,
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      "method_type": "analysis",
      "priority": 5,
      "description": "PDETMunicipalPlanAnalyzer._is_likely_header"
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      "method_type": "analysis",
      "priority": 6,
      "description": "PDETMunicipalPlanAnalyzer._clean_dataframe"
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      "method_type": "analysis",
      "priority": 7,
      "description": "ReportingEngine.generate_accountability_matrix"
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  "pattern_ref": "PAT-0105"
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  "semantic_expansion": null,
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  "context_requirement": null,
  "semantic_expansion": null,
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  "specificity": "MEDIUM",
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  "context_requirement": null,
  "semantic_expansion": null,
  "context_scope": "PARAGRAPH",
  "pattern_ref": "PAT-0036"
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  "flags": "i",
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        "jurisdiction": "National",
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      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
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      "pattern_ref": "PAT-0015"
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  "question_global": 246,
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  "text": "¿Las actividades para la protección de líderes se presentan en un formato estructurado (tabla, cuadro) que incluya columnas pa
  "validations": {
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  }
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    {
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    },
    {
      "required": true,
      "type": "poblacion_objetivo_definida"
    }
  ],
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"priority": 2,
"description": "BayesianMechanismInference._infer_single_mechanism"
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"method_type": "analysis",
"priority": 3,
"description": "BayesianMechanismInference._infer_mechanism_type"
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"method_type": "analysis",
"priority": 4,
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"function": "_test_necessity",
"method_type": "analysis",
"priority": 5,
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"method_type": "extraction",
"priority": 6,
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"method_type": "analysis",
"priority": 7,
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"class": "TeoriaCambio",
"function": "_es_conexion_valida",
"method_type": "analysis",
"priority": 8,
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"function": "construct_causal_dag",
"method_type": "analysis",
"priority": 9,
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"function": "classify_test",
"method_type": "analysis",
"priority": 10,
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"class": "IndustrialPolicyProcessor",
"function": "_analyze_causal_dimensions",
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"priority": 11,
"description": "IndustrialPolicyProcessor._analyze_causal_dimensions"

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      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "pattern": "gestión de medidas materiales ante la UNP|esquemas de seguridad",
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      "context_requirement": null,
      "semantic_expansion": null,
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      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "context_requirement": null,
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"semantic_expansion": null,
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"pattern": "firmantes del Acuerdo de Paz|líderes comunales (JAC)",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"flags": "i",
"id": "PAT-Q247-007",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"flags": "i",
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"pattern": "lo cual genera un entorno más seguro|porque cambia la narrativa estigmatizante",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"base_slot": "D2-Q3",
"cluster_id": "CL03",
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"type": "aborda_causa_raiz"
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{
"required": true,
"type": "vinculo_diagnostico_actividad"

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  "failure_contract": {
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      "method_type": "extraction",
      "priority": 1,
      "description": "CausalExtractor._extract_causal_links"
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      "function": "_calculate_composite_likelihood",
      "method_type": "scoring",
      "priority": 2,
      "description": "CausalExtractor._calculate_composite_likelihood"
    },
    {
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      "method_type": "analysis",
      "priority": 3,
      "description": "CausalExtractor._initialize_prior"
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      "function": "_calculate_type_transition_prior",
      "method_type": "scoring",
      "priority": 4,
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      "function": "_identify_causal_edges",
      "method_type": "analysis",
      "priority": 5,
      "description": "PDETMunicipalPlanAnalyzer._identify_causal_edges"
    },
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      "function": "_refine_edge_probabilities",
      "method_type": "analysis",
      "priority": 6,
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      "function": "construct_scm",
      "method_type": "analysis",
      "priority": 7,
      "description": "BayesianCounterfactualAuditor.construct_scm"
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    {
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      "function": "_create_default_equations",
      "method_type": "analysis",
      "priority": 8,
      "description": "BayesianCounterfactualAuditor._create_default_equations"
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    {
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      "function": "extract_semantic_cube",
      "method_type": "extraction",
      "priority": 9,
      "description": "SemanticAnalyzer.extract_semantic_cube"
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  "validation_rule": null,
  "context_requirement": null,
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  "context_requirement": null,
  "semantic_expansion": null,
  "context_scope": "PARAGRAPH",
  "pattern_ref": "PAT-0061"
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  "flags": "i",
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  "pattern": "causa estructural|factor de amenaza|nudo crítico",
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  "validation_rule": null,
  "context_requirement": null,
  "semantic_expansion": null,
  "context_scope": "PARAGRAPH"
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  "confidence_weight": 0.85,
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  "id": "PAT-Q248-003",
  "match_type": "LITERAL",
  "pattern": "estigmatización y señalamientos",
  "specificity": "MEDIUM",
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  "context_requirement": null,
  "semantic_expansion": null,
  "context_scope": "PARAGRAPH"
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  "flags": "i",
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  "context_requirement": null,
  "semantic_expansion": null,
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"id": "PAT-Q248-007",
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"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
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"scoring_modality": "TYPE_A",
"text": "¿El PDM vincula explícitamente las actividades (ej. consejos de seguridad) con las 'causas raíz' del riesgo (ej. estigmatización, p
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"threshold": 0.8
}
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"cluster_id": "CL03",
"dimension_id": "DIM02",
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"required": true,
"type": "riesgos_identificados"
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"failure_contract": {
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"missing_required_element",
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    "description": "PDETMunicipalPlanAnalyzer._bayesian_risk_inference"
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    "method_type": "analysis",
    "priority": 2,
    "description": "PDETMunicipalPlanAnalyzer.sensitivity_analysis"
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  {
    "class": "PDETMunicipalPlanAnalyzer",
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    "method_type": "analysis",
    "priority": 3,
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    "method_type": "analysis",
    "priority": 4,
    "description": "PDETMunicipalPlanAnalyzer._compute_robustness_value"
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    "function": "_compute_e_value",
    "method_type": "analysis",
    "priority": 5,
    "description": "PDETMunicipalPlanAnalyzer._compute_e_value"
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    "method_type": "analysis",
    "priority": 6,
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    "function": "_audit_systemic_risk",
    "method_type": "validation",
    "priority": 7,
    "description": "OperationalizationAuditor._audit_systemic_risk"
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  {
    "class": "BayesianCounterfactualAuditor",
    "function": "aggregate_risk_and_prioritize",
    "method_type": "analysis",
    "priority": 8,
    "description": "BayesianCounterfactualAuditor.aggregate_risk_and_prioritize"
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  {
    "class": "BayesianCounterfactualAuditor",
    "function": "refutation_and_sanity_checks",
    "method_type": "analysis",
    "priority": 9,
    "description": "BayesianCounterfactualAuditor.refutation_and_sanity_checks"
  },
  {
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    "function": "sensitivity_analysis",
    "method_type": "analysis",
    "priority": 10,
    "description": "AdaptivePriorCalculator.sensitivity_analysis"
  }
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    "flags": "i",
    "id": "PAT-Q249-000",
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},
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"flags": "i",
"id": "PAT-Q249-001",
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"pattern": "fallas o demoras en los esquemas de protección de la UNP",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
{
"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q249-002",
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"pattern": "filtración de información sensible|falta de confianza",
"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"context_requirement": null,
"semantic_expansion": null,
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},
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"flags": "i",
"id": "PAT-Q249-004",
"match_type": "REGEX",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"flags": "i",
"id": "PAT-Q249-005",
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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        "id": "PAT-Q249-007",
        "match_type": "REGEX",
        "pattern": "protocolos de confidencialidad|canales de comunicación seguros",
        "specificity": "MEDIUM",
        "validation_rule": null,
        "context_requirement": null,
        "semantic_expansion": null,
        "context_scope": "PARAGRAPH"
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    "scoring_modality": "TYPE_A",
    "text": "¿El plan identifica posibles riesgos en la implementación de las medidas de protección (ej. fallas en los esquemas, filtración de i
    "validations": {
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        "type": "completeness",
        "threshold": 0.8
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        "type": "complementariedad_explicita"
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      {
        "required": true,
        "type": "secuenciacion_logica"
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    ],
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    "method_sets": [
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        "method_type": "analysis",
        "priority": 1,
        "description": "PolicyContradictionDetector._detect_logical_incompatibilities"
      },
      {
        "class": "PolicyContradictionDetector",
        "function": "_calculate_coherence_metrics",
        "method_type": "scoring",
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    "priority": 2,
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  {
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    "method_type": "scoring",
    "priority": 3,
    "description": "PolicyContradictionDetector._calculate_objective_alignment"
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    "method_type": "scoring",
    "priority": 4,
    "description": "PolicyContradictionDetector._calculate_graph_fragmentation"
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    "function": "audit_sequence_logic",
    "method_type": "validation",
    "priority": 5,
    "description": "OperationalizationAuditor.audit_sequence_logic"
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    "method_type": "scoring",
    "priority": 6,
    "description": "BayesianMechanismInference._calculate_coherence_factor"
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  {
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    "function": "_score_causal_coherence",
    "method_type": "scoring",
    "priority": 7,
    "description": "PDETMunicipalPlanAnalyzer._score_causal_coherence"
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    "function": "calculate_likelihood_adaptativo",
    "method_type": "scoring",
    "priority": 8,
    "description": "AdaptivePriorCalculator.calculate_likelihood_adaptativo"
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    "pattern": "estrategia integral de garantías|de manera articulada",
    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "confidence_weight": 0.85,
    "flags": "i",
    "id": "PAT-Q250-001",
    "match_type": "REGEX",
    "pattern": "la protección material se complementa con la protección política (no estigmatización)",
    "specificity": "MEDIUM",
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    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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      "validation_rule": null,
      "context_requirement": null,
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      "category": "GENERAL",
      "confidence_weight": 0.85,
      "flags": "i",
      "id": "PAT-Q250-003",
      "match_type": "REGEX",
      "pattern": "la activación de la ruta es el primer paso para la evaluación del riesgo",
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      "context_requirement": null,
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      "flags": "i",
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      "context_requirement": null,
      "semantic_expansion": null,
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      "pattern": "la estrategia combina prevención, protección e investigación",
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  }
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  "expected_elements": [
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      "required": true,
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      "required": true,
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    {
      "required": true,
      "type": "meta_cuantitativa"
    }
  ],
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      "function": "_score_indicators",
      "method_type": "scoring",
      "priority": 1,
      "description": "PDETMunicipalPlanAnalyzer._score_indicators"
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    {
      "class": "OperationalizationAuditor",
      "function": "audit_evidence_traceability",
      "method_type": "validation",
      "priority": 2,
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    },
    {
      "class": "CausalInferenceSetup",
      "function": "assign_probative_value",
      "method_type": "analysis",
      "priority": 3,
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      "method_type": "analysis",
      "priority": 4,
      "description": "BeachEvidentialTest.apply_test_logic"
    },
    {
      "class": "TextMiningEngine",
      "function": "diagnose_critical_links",
      "method_type": "analysis",
      "priority": 5,
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      "function": "_extract_metadata",
      "method_type": "extraction",
      "priority": 6,
      "description": "IndustrialPolicyProcessor._extract_metadata"
    },
    {
      "class": "IndustrialPolicyProcessor",
      "function": "_calculate_quality_score",
      "method_type": "scoring",
      "priority": 7,
      "description": "IndustrialPolicyProcessor._calculate_quality_score"
    },
    {
      "class": "AdaptivePriorCalculator",
      "function": "generate_traceability_record",
      "method_type": "analysis",
      "priority": 8,
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    "description": "AdaptivePriorCalculator.generate_traceability_record"
  }
],
"patterns": [
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    "flags": "i",
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    "pattern": "líderes con medidas de protección gestionadas ante la UNP",
    "specificity": "MEDIUM",
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    "context_scope": "PARAGRAPH"
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    "context_requirement": null,
    "semantic_expansion": null,
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    "specificity": "MEDIUM",
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    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "confidence_weight": 0.85,
    "flags": "i",
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    "context_requirement": null,
    "semantic_expansion": null,
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    "glossary_metadata": {
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      "legal_mandate": "TBD",
      "jurisdiction": "National",
      "founding_year": "TBD"
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  },
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    "validation_rule": null,
    "context_requirement": null,
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    "pattern_ref": "PAT-0008"
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  {
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    "confidence_weight": 0.85,
    "flags": "i",
    "id": "PAT-Q251-006",
    "match_type": "REGEX",
    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH",
    "pattern_ref": "PAT-0013"
  },
  {
    "category": "GENERAL",
    "confidence_weight": 0.85,
    "flags": "i",
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    "validation_rule": null,
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  {
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    "confidence_weight": 0.85,
    "flags": "i",
    "id": "PAT-Q251-008",
    "match_type": "REGEX",
    "pattern": "informes de la Secretaría de Gobierno|actas de la Mesa de Garantías",
    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
  },
  {
    "category": "TERRITORIAL",
    "confidence_weight": 0.85,
    "flags": "i",
    "id": "PAT-Q251-009",
    "match_type": "REGEX",
    "pattern": "registros de la Personería Municipal",
    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
  }
],
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"question_global": 251,
"question_id": "Q251",
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"scoring_modality": "TYPE_A",
"text": "¿Los indicadores de producto para protección de líderes (ej. líderes con medidas de protección, campañas realizadas) incluyen
"validations": {
"completeness_check": {
"type": "completeness",
"threshold": 0.8
}
}
},
{
"base_slot": "D3-Q2",
"cluster_id": "CL03",
"dimension_id": "DIM03",
"expected_elements": [
{
"required": true,
"type": "proporcionalidad_meta_problema"
}
],
"failure_contract": {
"abort_if": [
"missing_required_element",
"incomplete_text"
],
"emit_code": "ABORT-Q252-REQ"
},
"method_sets": [
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"function": "_calculate_bayesian_posterior",
"method_type": "scoring",
"priority": 1,
"description": "AdvancedDAGValidator._calculate_bayesian_posterior"
},
{
"class": "AdvancedDAGValidator",
"function": "_calculate_confidence_interval",
"method_type": "scoring",
"priority": 2,
"description": "AdvancedDAGValidator._calculate_confidence_interval"
},
{
"class": "AdaptivePriorCalculator",
"function": "_adjust_domain_weights",
"method_type": "analysis",
"priority": 3,
"description": "AdaptivePriorCalculator._adjust_domain_weights"
},
{
"class": "PDETMunicipalPlanAnalyzer",
"function": "_get_spanish_stopwords",
"method_type": "analysis",
"priority": 4,
"description": "PDETMunicipalPlanAnalyzer._get_spanish_stopwords"
},
{
"class": "BayesianMechanismInference",
"function": "_log_refactored_components",
"method_type": "analysis",
"priority": 5,
"description": "BayesianMechanismInference._log_refactored_components"
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{
"class": "PDETMunicipalPlanAnalyzer",
"function": "analyze_financial_feasibility",
"method_type": "analysis",
"priority": 6,
"description": "PDETMunicipalPlanAnalyzer.analyze_financial_feasibility"
},

{
  "class": "PDETMunicipalPlanAnalyzer",
  "function": "_score_indicators",
  "method_type": "scoring",
  "priority": 7,
  "description": "PDETMunicipalPlanAnalyzer._score_indicators"
},
{
  "class": "PDETMunicipalPlanAnalyzer",
  "function": "_interpret_risk",
  "method_type": "analysis",
  "priority": 8,
  "description": "PDETMunicipalPlanAnalyzer._interpret_risk"
},
{
  "class": "FinancialAuditor",
  "function": "_calculate_sufficiency",
  "method_type": "scoring",
  "priority": 9,
  "description": "FinancialAuditor._calculate_sufficiency"
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"method_type": "extraction",
"priority": 11,
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"semantic_expansion": null,
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"method_type": "analysis",
"priority": 1,
"description": "TeoriaCambio._encontrar_caminos_completos"
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    "method_type": "analysis",
    "priority": 6,
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    "method_type": "analysis",
    "priority": 7,
    "description": "AdvancedDAGValidator._perform_sensitivity_analysis_internal"
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    "function": "get_bayes_factor",
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    "priority": 8,
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    "id": "PAT-Q257-004",
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    "context_requirement": null,
    "semantic_expansion": null,
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    "id": "PAT-Q257-005",
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    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "flags": "i",
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    "pattern": "se requiere una acción efectiva de la Fiscalía para que haya impunidad cero",
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    "validation_rule": null,
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      "jurisdiction": "National",
      "founding_year": "TBD"
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  }
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"validations": {
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      "type": "justificacion_capacidad"
    },
    {
      "required": true,
      "type": "justificacion_recursos"
    }
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      "priority": 1,
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      "method_type": "analysis",
      "priority": 2,
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      "priority": 3,
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      "function": "sensitivity_analysis",
      "method_type": "analysis",
      "priority": 4,
      "description": "AdaptivePriorCalculator.sensitivity_analysis"
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      "function": "_calculate_r_hat",
      "method_type": "scoring",
      "priority": 5,
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    "priority": 8,
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],
"patterns": [
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    "match_type": "REGEX",
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    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "context_requirement": null,
    "semantic_expansion": null,
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    "pattern": "con la inversión en prevención se espera reducir las amenazas",
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    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
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    "id": "PAT-Q258-003",
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    "context_requirement": null,
    "semantic_expansion": null,
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    "flags": "i",
    "id": "PAT-Q258-004",
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"id": "PAT-Q258-005",
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"pattern": "benchmark|referente internacional|meta del PND en protección",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"text": "¿La ambición de las metas de resultado (ej. 'cero homicidios de líderes') se justifica en función de la inversión, la capacidad de r
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"type": "completeness",
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"dimension_id": "DIM04",
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{
"required": true,
"type": "vinculo_resultado_problema"
}
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"failure_contract": {
"abort_if": [
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"function": "_calculate_objective_alignment",
"method_type": "scoring",
"priority": 1,
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"function": "_identify_affected_sections",
"method_type": "analysis",
"priority": 2,
"description": "PolicyContradictionDetector._identify_affected_sections"
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"method_type": "analysis",
"priority": 3,
"description": "PolicyContradictionDetector._generate_resolution_recommendations"
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"function": "_generate_optimal_remediations",
"method_type": "analysis",
"priority": 4,
"description": "OperationalizationAuditor._generate_optimal_remediations"
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{
"class": "OperationalizationAuditor",
"function": "_get_remediation_text",
"method_type": "analysis",
"priority": 5,
"description": "OperationalizationAuditor._get_remediation_text"
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"class": "BayesianCounterfactualAuditor",
"function": "aggregate_risk_and_prioritize",
"method_type": "analysis",
"priority": 6,
"description": "BayesianCounterfactualAuditor.aggregate_risk_and_prioritize"
},
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"class": "FinancialAuditor",
"function": "_detect_allocation_gaps",
"method_type": "analysis",
"priority": 7,
"description": "FinancialAuditor._detect_allocation_gaps"
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"patterns": [
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
{
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"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q259-002",
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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        "validation_rule": null,
        "context_requirement": null,
        "semantic_expansion": null,
        "context_scope": "PARAGRAPH"
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        "specificity": "MEDIUM",
        "validation_rule": null,
        "context_requirement": null,
        "semantic_expansion": null,
        "context_scope": "PARAGRAPH",
        "pattern_ref": "PAT-0108"
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        "confidence_weight": 0.85,
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        "specificity": "MEDIUM",
        "validation_rule": null,
        "context_requirement": null,
        "semantic_expansion": null,
        "evidence_modality": "TABLE",
        "context_scope": "PARAGRAPH",
        "pattern_ref": "PAT-0078"
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    "question_global": 259,
    "question_id": "Q259",
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    "scoring_modality": "TYPE_A",
    "text": "¿Los resultados propuestos (ej. 'creación de un entorno seguro para la defensa de los DDHH') 'atienden' o 'abordan' directamen
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        "type": "completeness",
        "threshold": 0.8
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    "dimension_id": "DIM04",
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        "type": "alineacion_acuerdo_paz"
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      {
        "required": true,
        "type": "alineacion_jurisprudencia"
      },
      {
        "required": true,
        "type": "alineacion_pnd"
      }
    ],
    "failure_contract": {
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      "incomplete_text"
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      "method_type": "scoring",
      "priority": 1,
      "description": "PDETMunicipalPlanAnalyzer._score_pdet_alignment"
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    {
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      "function": "_score_causal_coherence",
      "method_type": "scoring",
      "priority": 2,
      "description": "PDETMunicipalPlanAnalyzer._score_causal_coherence"
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      "function": "_validate_dnp_compliance",
      "method_type": "validation",
      "priority": 3,
      "description": "CDAFFramework._validate_dnp_compliance"
    },
    {
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      "function": "_generate_dnp_report",
      "method_type": "analysis",
      "priority": 4,
      "description": "CDAFFramework._generate_dnp_report"
    },
    {
      "class": "IndustrialPolicyProcessor",
      "function": "_analyze_causal_dimensions",
      "method_type": "analysis",
      "priority": 5,
      "description": "IndustrialPolicyProcessor._analyze_causal_dimensions"
    },
    {
      "class": "AdaptivePriorCalculator",
      "function": "validate_quality_criteria",
      "method_type": "validation",
      "priority": 6,
      "description": "AdaptivePriorCalculator.validate_quality_criteria"
    }
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      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH",
      "pattern_ref": "PAT-0023"
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      "flags": "i",
      "id": "PAT-Q260-001",
      "match_type": "REGEX",
      "pattern": "contribuye al Punto 2.1 del Acuerdo de Paz|Garantías de Seguridad",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q260-003",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q260-004",
"match_type": "REGEX",
"pattern": "implementación del Plan de Acción Oportuna|PAO",
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
}
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"scoring_modality": "TYPE_A",
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"type": "completeness",
"threshold": 0.8
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{
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},
{
"required": true,
"type": "ruta_transmision"

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  }
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    "method_type": "analysis",
    "priority": 1,
    "description": "PDETMunicipalPlanAnalyzer.generate_counterfactuals"
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    "method_type": "analysis",
    "priority": 2,
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    "priority": 3,
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    "function": "_find_mediator_mentions",
    "method_type": "analysis",
    "priority": 4,
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  {
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    "function": "_validar_orden_causal",
    "method_type": "analysis",
    "priority": 5,
    "description": "TeoriaCambio._validar_orden_causal"
  },
  {
    "class": "CausalExtractor",
    "function": "_assess_temporal_coherence",
    "method_type": "analysis",
    "priority": 6,
    "description": "CausalExtractor._assess_temporal_coherence"
  },
  {
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    "function": "_generate_interventions",
    "method_type": "analysis",
    "priority": 7,
    "description": "TextMiningEngine._generate_interventions"
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  {
    "class": "BayesianCounterfactualAuditor",
    "function": "construct_scm",
    "method_type": "analysis",
    "priority": 8,
    "description": "BayesianCounterfactualAuditor.construct_scm"
  }
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"patterns": [
  {
    "category": "GENERAL",
    "confidence_weight": 0.85,
    "flags": "i",
    "id": "PAT-Q261-000",
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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{
"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q261-001",
"match_type": "REGEX",
"pattern": "fortalecimiento de la democracia local|gobernanza democrática",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"category": "GENERAL",
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"flags": "i",
"id": "PAT-Q261-002",
"match_type": "REGEX",
"pattern": "un espacio cívico abierto y seguro|pleno ejercicio de la ciudadanía",
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q261-003",
"match_type": "REGEX",
"pattern": "la suma de los resultados de protección y participación generará el impacto de",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_requirement": null,
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"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q261-005",
"match_type": "REGEX",
"pattern": "tiempo de maduración|efectos en el largo plazo|se espera observar en 8-10 años",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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    "scoring_modality": "TYPE_A",
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    "validations": {
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        "threshold": 0.8
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    }
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    "dimension_id": "DIM05",
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      {
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        "type": "usa_indices_compuestos"
      },
      {
        "required": true,
        "type": "usa_proxies"
      }
    ],
    "failure_contract": {
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        "incomplete_text"
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        "method_type": "scoring",
        "priority": 1,
        "description": "PDETMunicipalPlanAnalyzer.calculate_quality_score"
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        "function": "_estimate_score_confidence",
        "method_type": "scoring",
        "priority": 2,
        "description": "PDETMunicipalPlanAnalyzer._estimate_score_confidence"
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        "class": "PDETMunicipalPlanAnalyzer",
        "function": "_compute_e_value",
        "method_type": "analysis",
        "priority": 3,
        "description": "PDETMunicipalPlanAnalyzer._compute_e_value"
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        "class": "PDETMunicipalPlanAnalyzer",
        "function": "_compute_robustness_value",
        "method_type": "analysis",
        "priority": 4,
        "description": "PDETMunicipalPlanAnalyzer._compute_robustness_value"
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      {
        "class": "PDETMunicipalPlanAnalyzer",
        "function": "_interpret_sensitivity",
        "method_type": "analysis",
        "priority": 5,
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"description": "PDETMunicipalPlanAnalyzer._interpret_sensitivity"
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"class": "ReportingEngine",
"function": "_calculate_quality_score",
"method_type": "scoring",
"priority": 6,
"description": "ReportingEngine._calculate_quality_score"
},
{
"class": "BayesianMechanismInference",
"function": "_aggregate_bayesian_confidence",
"method_type": "analysis",
"priority": 7,
"description": "BayesianMechanismInference._aggregate_bayesian_confidence"
},
{
"class": "PolicyAnalysisEmbedder",
"function": "evaluate_policy_numerical_consistency",
"method_type": "analysis",
"priority": 8,
"description": "PolicyAnalysisEmbedder.evaluate_policy_numerical_consistency"
},
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"class": "PolicyAnalysisEmbedder",
"function": "get_diagnostics",
"method_type": "analysis",
"priority": 9,
"description": "PolicyAnalysisEmbedder.get_diagnostics"
},
{
"class": "PolicyAnalysisEmbedder",
"function": "process_document",
"method_type": "analysis",
"priority": 10,
"description": "PolicyAnalysisEmbedder.process_document"
},
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"class": "PolicyAnalysisEmbedder",
"function": "_generate_query_from_pdq",
"method_type": "analysis",
"priority": 11,
"description": "PolicyAnalysisEmbedder._generate_query_from_pdq"
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"function": "_filter_by_pdq",
"method_type": "analysis",
"priority": 12,
"description": "PolicyAnalysisEmbedder._filter_by_pdq"
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"class": "PolicyAnalysisEmbedder",
"function": "_extract_numerical_values",
"method_type": "extraction",
"priority": 13,
"description": "PolicyAnalysisEmbedder._extract_numerical_values"
},
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"class": "PolicyAnalysisEmbedder",
"function": "_embed_texts",
"method_type": "analysis",
"priority": 14,
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{
"class": "PolicyAnalysisEmbedder",
"function": "_compute_overall_confidence",
"method_type": "analysis",
"priority": 15,
"description": "PolicyAnalysisEmbedder._compute_overall_confidence"
},
{

"class": "FinancialAuditor",
"function": "_calculate_sufficiency",
"method_type": "scoring",
"priority": 16,
"description": "FinancialAuditor._calculate_sufficiency"
},
{
"class": "PDETMunicipalPlanAnalyzer",
"function": "_interpret_overall_quality",
"method_type": "analysis",
"priority": 17,
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},
{
"class": "BayesianCounterfactualAuditor",
"function": "aggregate_risk_and_prioritize",
"method_type": "analysis",
"priority": 18,
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},
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"class": "PolicyTextProcessor",
"function": "normalize_unicode",
"method_type": "analysis",
"priority": 19,
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{
"class": "PolicyTextProcessor",
"function": "segment_into_sentences",
"method_type": "analysis",
"priority": 20,
"description": "PolicyTextProcessor.segment_into_sentences"
},
{
"class": "IndustrialPolicyProcessor",
"function": "_compute_evidence_confidence",
"method_type": "analysis",
"priority": 21,
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"method_type": "analysis",
"priority": 23,
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{
"class": "IndustrialPolicyProcessor",
"function": "_construct_evidence_bundle",
"method_type": "analysis",
"priority": 24,
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"function": "compile_pattern",
"method_type": "analysis",
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    "flags": "i",
    "id": "PAT-Q262-003",
    "match_type": "REGEX",
    "pattern": "el número de organizaciones sociales activas como proxy de un espacio cívico vibrante",
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    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q262-005",
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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{
"required": true,
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"required": true,
"type": "reconoce_limitaciones"
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"incomplete_text"
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"priority": 1,
"description": "CausalExtractor._calculate_semantic_distance"
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    "description": "SemanticAnalyzer.extract_semantic_cube"
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    "method_type": "analysis",
    "priority": 3,
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    "method_type": "analysis",
    "priority": 4,
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    "function": "get_diagnostics",
    "method_type": "analysis",
    "priority": 5,
    "description": "PolicyAnalysisEmbedder.get_diagnostics"
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  {
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    "function": "_perturb_evidence",
    "method_type": "analysis",
    "priority": 6,
    "description": "AdaptivePriorCalculator._perturb_evidence"
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    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "context_scope": "PARAGRAPH",
    "pattern_ref": "PAT-0100"
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    "category": "GENERAL",
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    "flags": "i",
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    "semantic_expansion": null,
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        "semantic_expansion": null,
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        "context_requirement": null,
        "semantic_expansion": null,
        "context_scope": "PARAGRAPH"
      },
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        "id": "PAT-Q263-005",
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        "validation_rule": null,
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        "semantic_expansion": null,
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    "scoring_modality": "TYPE_A",
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        "threshold": 0.8
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    }
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  {
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    "dimension_id": "DIM05",
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      {
        "required": true,
        "type": "riesgos_sistemicos"
      }
    ],
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      "priority": 1,
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      "function": "refutation_and_sanity_checks",
      "method_type": "analysis",
      "priority": 2,
      "description": "BayesianCounterfactualAuditor.refutation_and_sanity_checks"
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    {
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      "function": "_test_effect_stability",
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      "priority": 3,
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      "priority": 4,
      "description": "PDETMunicipalPlanAnalyzer._interpret_risk"
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      "function": "_interpret_sensitivity",
      "method_type": "analysis",
      "priority": 5,
      "description": "PDETMunicipalPlanAnalyzer._interpret_sensitivity"
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      "method_type": "analysis",
      "priority": 6,
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      "function": "sensitivity_analysis",
      "method_type": "analysis",
      "priority": 7,
      "description": "AdaptivePriorCalculator.sensitivity_analysis"
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      "context_requirement": null,
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      "flags": "i",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"semantic_expansion": null,
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"flags": "i",
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"context_requirement": null,
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      {
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        "type": "efectos_no_deseados"
      },
      {
        "required": true,
        "type": "hipotesis_limite"
      }
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        "method_type": "scoring",
        "priority": 3,
        "description": "HierarchicalGenerativeModel._calculate_waic_difference"
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        "method_type": "analysis",
        "priority": 4,
        "description": "AdaptivePriorCalculator._add_ood_noise"
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        "method_type": "validation",
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      "method_type": "analysis",
      "priority": 7,
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      "method_type": "scoring",
      "priority": 8,
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      "semantic_expansion": null,
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      "flags": "i",
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"semantic_expansion": null,
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"context_requirement": null,
"semantic_expansion": null,
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"context_requirement": null,
"semantic_expansion": null,
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"pattern_ref": "PAT-0103"
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"question_global": 265,
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"type": "supuestos_verificables"
},
{
"required": true,
"type": "teoria_cambio_explicita"
}

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    "priority": 1,
    "description": "TeoriaCambio.construir_grafo_causal"
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    "method_type": "analysis",
    "priority": 2,
    "description": "TeoriaCambio.validacion_completa"
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    "function": "export_nodes",
    "method_type": "analysis",
    "priority": 3,
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    "method_type": "analysis",
    "priority": 4,
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    "method_type": "analysis",
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    "method_type": "analysis",
    "priority": 6,
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    "method_type": "analysis",
    "priority": 7,
    "description": "PDETMunicipalPlanAnalyzer.export_causal_network"
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  {
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    "function": "extract_causal_hierarchy",
    "method_type": "extraction",
    "priority": 8,
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  }
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"context_requirement": null,
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"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q266-002",
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"pattern": "causa raíz de la violencia contra líderes|determinante estructural",
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"id": "PAT-Q266-004",
"match_type": "REGEX",
"pattern": "moderador|factor contextual|presencia de actores armados",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
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"semantic_expansion": null,
"context_scope": "PARAGRAPH",
"pattern_ref": "PAT-0104"
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    "question_global": 266,
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    "text": "¿Existe una 'teoría de cambio' explícita para la protección de líderes, preferiblemente en un 'diagrama', que identifique causas (e
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        "type": "completeness",
        "threshold": 0.8
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    "cluster_id": "CL03",
    "dimension_id": "DIM06",
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        "type": "evita_saltos_logicos"
      },
      {
        "required": true,
        "type": "proporcionalidad_eslabones"
      }
    ],
    "failure_contract": {
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        "missing_required_element",
        "incomplete_text"
      ],
      "emit_code": "ABORT-Q267-REQ"
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        "function": "apply_test_logic",
        "method_type": "analysis",
        "priority": 1,
        "description": "BeachEvidentialTest.apply_test_logic"
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        "class": "BayesianMechanismInference",
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        "method_type": "analysis",
        "priority": 2,
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        "function": "_test_sufficiency",
        "method_type": "analysis",
        "priority": 3,
        "description": "BayesianMechanismInference._test_sufficiency"
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        "method_type": "scoring",
        "priority": 4,
        "description": "BayesianMechanismInference._calculate_coherence_factor"
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      {
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        "function": "_test_effect_stability",
        "method_type": "analysis",
        "priority": 5,
        "description": "BayesianCounterfactualAuditor._test_effect_stability"
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      {
        "class": "IndustrialGradeValidator",
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"method_type": "validation",
"priority": 6,
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"function": "_compute_overall_confidence",
"method_type": "analysis",
"priority": 7,
"description": "PolicyAnalysisEmbedder._compute_overall_confidence"
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH",
"pattern_ref": "PAT-0060"
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH",
"pattern_ref": "PAT-0076"
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"id": "PAT-Q267-004",
"match_type": "REGEX",
"pattern": "se requieren pasos intermedios para generar confianza",

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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q267-005",
"match_type": "REGEX",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH",
"pattern_ref": "PAT-0056"
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"question_global": 267,
"question_id": "Q267",
"scoring_definition_ref": "scoring_modalities.TYPE_A",
"scoring_modality": "TYPE_A",
"text": "¿Los saltos en la cadena causal de protección son proporcionales (ej. una campaña de comunicación no elimina por sí sola las
"validations": {
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"type": "completeness",
"threshold": 0.8
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}
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"base_slot": "D6-Q3",
"cluster_id": "CL03",
"dimension_id": "DIM06",
"expected_elements": [
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},
{
"required": true,
"type": "reconoce_inconsistencias"
}
],
"failure_contract": {
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"incomplete_text"
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"method_type": "analysis",
"priority": 1,
"description": "IndustrialGradeValidator.execute_suite"
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"class": "IndustrialGradeValidator",
"function": "validate_engine_readiness",
"method_type": "validation",
"priority": 2,
"description": "IndustrialGradeValidator.validate_engine_readiness"
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"function": "_benchmark_operation",
"method_type": "analysis",

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    "method_type": "validation",
    "priority": 4,
    "description": "AdaptivePriorCalculator.validate_quality_criteria"
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    "method_type": "scoring",
    "priority": 5,
    "description": "HierarchicalGenerativeModel._calculate_r_hat"
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    "method_type": "scoring",
    "priority": 6,
    "description": "HierarchicalGenerativeModel._calculate_ess"
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    "function": "calculate_acyclicity_pvalue",
    "method_type": "scoring",
    "priority": 7,
    "description": "AdvancedDAGValidator.calculate_acyclicity_pvalue"
  },
  {
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    "function": "analyze_performance",
    "method_type": "analysis",
    "priority": 8,
    "description": "PerformanceAnalyzer.analyze_performance"
  }
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"patterns": [
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    "flags": "i",
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    "pattern": "se requiere validar si las campañas de no estigmatización son efectivas",
    "specificity": "MEDIUM",
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    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "category": "GENERAL",
    "confidence_weight": 0.85,
    "flags": "i",
    "id": "PAT-Q268-002",
    "match_type": "REGEX",
    "pattern": "plan piloto de protección colectiva en una comunidad",
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
{
"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q268-004",
"match_type": "REGEX",
"pattern": "validar la hipótesis sobre la efectividad de las medidas blandas",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"category": "GENERAL",
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"flags": "i",
"id": "PAT-Q268-005",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH",
"pattern_ref": "PAT-0065"
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"category": "GENERAL",
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"flags": "i",
"id": "PAT-Q268-006",
"match_type": "REGEX",
"pattern": "aprendizaje adaptativo|gestión adaptativa de la protección",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"policy_area_id": "PA08",
"question_global": 268,
"question_id": "Q268",
"scoring_definition_ref": "scoring_modalities.TYPE_A",
"scoring_modality": "TYPE_A",
"text": "¿El plan reconoce 'inconsistencias' en su lógica de protección y propone 'pilotos' o 'pruebas' para 'testear los supuestos' de sus
"validations": {
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"type": "completeness",
"threshold": 0.8
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"dimension_id": "DIM06",
"expected_elements": [
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    "type": "ciclos_aprendizaje"
  },
  {
    "required": true,
    "type": "mecanismos_correccion"
  },
  {
    "required": true,
    "type": "sistema_monitoreo"
  }
],
"failure_contract": {
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    "missing_required_element",
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    "function": "update_priors_from_feedback",
    "method_type": "analysis",
    "priority": 1,
    "description": "ConfigLoader.update_priors_from_feedback"
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    "function": "check_uncertainty_reduction_criterion",
    "method_type": "analysis",
    "priority": 2,
    "description": "ConfigLoader.check_uncertainty_reduction_criterion"
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    "function": "_save_prior_history",
    "method_type": "analysis",
    "priority": 3,
    "description": "ConfigLoader._save_prior_history"
  },
  {
    "class": "ConfigLoader",
    "function": "_load_uncertainty_history",
    "method_type": "analysis",
    "priority": 4,
    "description": "ConfigLoader._load_uncertainty_history"
  },
  {
    "class": "CDAFFramework",
    "function": "_extract_feedback_from_audit",
    "method_type": "validation",
    "priority": 5,
    "description": "CDAFFramework._extract_feedback_from_audit"
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    "function": "_calculate_node_importance",
    "method_type": "scoring",
    "priority": 6,
    "description": "AdvancedDAGValidator._calculate_node_importance"
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    "class": "BayesFactorTable",
    "function": "get_bayes_factor",
    "method_type": "analysis",
    "priority": 7,
    "description": "BayesFactorTable.get_bayes_factor"

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  }
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"patterns": [
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    "flags": "i",
    "id": "PAT-Q269-000",
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    "pattern": "sistema de seguimiento y evaluación|M&E de garantías",
    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "flags": "i",
    "id": "PAT-Q269-001",
    "match_type": "REGEX",
    "pattern": "monitoreo en tiempo real de las Alertas Tempranas",
    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "category": "GENERAL",
    "confidence_weight": 0.85,
    "flags": "i",
    "id": "PAT-Q269-002",
    "match_type": "REGEX",
    "pattern": "semáforo de riesgo|mapa de calor de amenazas",
    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
  },
  {
    "category": "GENERAL",
    "confidence_weight": 0.85,
    "flags": "i",
    "id": "PAT-Q269-003",
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    "pattern": "mecanismo de ajuste urgente de las medidas de protección",
    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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  {
    "category": "GENERAL",
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    "flags": "i",
    "id": "PAT-Q269-004",
    "match_type": "REGEX",
    "pattern": "retroalimentación desde la Mesa de Garantías|diálogo con líderes",
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    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
  },
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    "category": "GENERAL",
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    "flags": "i",
    "id": "PAT-Q269-005",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"flags": "i",
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"pattern": "lecciones aprendidas en la implementación de la ruta de protección",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"policy_area_id": "PA08",
"question_global": 269,
"question_id": "Q269",
"scoring_definition_ref": "scoring_modalities.TYPE_A",
"scoring_modality": "TYPE_A",
"text": "¿Se describe un sistema de monitoreo para la protección de líderes que incluya 'mecanismos de corrección', 'retroalimentación'
"validations": {
"completeness_check": {
"type": "completeness",
"threshold": 0.8
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}
},
{
"base_slot": "D6-Q5",
"cluster_id": "CL03",
"dimension_id": "DIM06",
"expected_elements": [
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"required": true,
"type": "analisis_contextual"
},
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"required": true,
"type": "enfoque_diferencial"
}
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"failure_contract": {
"abort_if": [
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"incomplete_text"
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"function": "_calculate_language_specificity",
"method_type": "scoring",
"priority": 1,
"description": "CausalExtractor._calculate_language_specificity"
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"class": "CausalExtractor",
"function": "_assess_temporal_coherence",
"method_type": "analysis",
"priority": 2,
"description": "CausalExtractor._assess_temporal_coherence"
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"function": "diagnose_critical_links",
"method_type": "analysis",
"priority": 3,
"description": "TextMiningEngine.diagnose_critical_links"
},
{
"class": "CausalInferenceSetup",
"function": "identify_failure_points",
"method_type": "analysis",
"priority": 4,
"description": "CausalInferenceSetup.identify_failure_points"
},
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"class": "CausalInferenceSetup",
"function": "_get_dynamics_pattern",
"method_type": "analysis",
"priority": 5,
"description": "CausalInferenceSetup._get_dynamics_pattern"
},
{
"class": "SemanticProcessor",
"function": "chunk_text",
"method_type": "analysis",
"priority": 6,
"description": "SemanticProcessor.chunk_text"
},
{
"class": "SemanticProcessor",
"function": "_detect_pdm_structure",
"method_type": "analysis",
"priority": 7,
"description": "SemanticProcessor._detect_pdm_structure"
},
{
"class": "SemanticProcessor",
"function": "_detect_table",
"method_type": "analysis",
"priority": 8,
"description": "SemanticProcessor._detect_table"
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"class": "AdaptivePriorCalculator",
"function": "generate_traceability_record",
"method_type": "analysis",
"priority": 9,
"description": "AdaptivePriorCalculator.generate_traceability_record"
}
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"flags": "i",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q270-001",
"match_type": "REGEX",
"pattern": "líderes ambientales|líderes comunales (JAC)|líderes de restitución",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,

"context_scope": "PARAGRAPH"
},
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"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q270-002",
"match_type": "REGEX",
"pattern": "autoridades étnicas|guardia indígena|consejos comunitarios afro|afrodescendiente|comunidad negra|palenquero|raizal",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
{
"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q270-003",
"match_type": "REGEX",
"pattern": "firmantes del Acuerdo de Paz|población en reincorporación",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"flags": "i",
"id": "PAT-Q270-004",
"match_type": "REGEX",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"evidence_modality": "FIGURE",
"context_scope": "PARAGRAPH",
"pattern_ref": "PAT-0051"
},
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"category": "GENERAL",
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"flags": "i",
"id": "PAT-Q270-005",
"match_type": "REGEX",
"pattern": "contexto de economías ilegales|disputas por la tierra",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
{
"category": "TERRITORIAL",
"confidence_weight": 0.85,
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"id": "PAT-Q270-006",
"match_type": "REGEX",
"pattern": "estrategias territorializadas|medidas de protección colectiva adaptadas",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
}
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"question_global": 270,
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        "type": "completeness",
        "threshold": 0.8
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    }
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  {
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    "cluster_id": "CL04",
    "dimension_id": "DIM01",
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        "minimum": 2,
        "type": "fuentes_oficiales"
      },
      {
        "minimum": 3,
        "type": "indicadores_cuantitativos"
      },
      {
        "minimum": 2,
        "type": "series_temporales_años"
      }
    ],
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        "missing_required_element",
        "incomplete_text"
      ],
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        "function": "diagnose_critical_links",
        "method_type": "analysis",
        "priority": 1,
        "description": "TextMiningEngine.diagnose_critical_links"
      },
      {
        "class": "TextMiningEngine",
        "function": "_analyze_link_text",
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        "SIVIGILA",
        "Ministerio"
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    {
      "required": true,
      "type": "vacios_explicitos"
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  "priority": 10,
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}
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  {
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    "type": "trazabilidad_ppi_bpin"
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    "method_type": "analysis",
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    "function": "_calculate_sufficiency",
    "method_type": "scoring",
    "priority": 6,
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    "priority": 7,
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      "priority": 8,
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      "priority": 9,
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      "method_type": "analysis",
      "priority": 11,
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      "priority": 12,
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      "priority": 13,
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"context_requirement": null,
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"context_scope": "PARAGRAPH"
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    "priority": 8,
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    "priority": 9,
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"legal_mandate": "TBD",
"jurisdiction": "National",
"founding_year": "TBD"
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"semantic_expansion": null,
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{
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{
"required": true,
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"priority": 2,
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"priority": 3,
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"priority": 4,
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"priority": 5,
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"priority": 6,
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"priority": 7,
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"semantic_expansion": null,
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q275-008",
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"context_requirement": null,
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      "threshold": 0.8
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      "type": "columna_cronograma"
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      "type": "columna_producto"
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    {
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    {
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      "type": "formato_tabular"
    }
  ],
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      "method_type": "extraction",
      "priority": 1,
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      "method_type": "analysis",
      "priority": 2,
      "description": "FinancialAuditor._process_financial_table"
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      "priority": 7,
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      "semantic_expansion": null,
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      "context_scope": "PARAGRAPH",
      "pattern_ref": "PAT-0105"
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      "pattern_ref": "PAT-0039"
    },
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"context_scope": "PARAGRAPH",
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"question_global": 276,
"question_id": "Q276",
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"scoring_modality": "TYPE_A",
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"completeness_check": {
"type": "completeness",
"threshold": 0.8
}
}
},
{
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"dimension_id": "DIM02",
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    "type": "instrumento_especificado"
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  {
    "required": true,
    "type": "logica_causal_explicita"
  },
  {
    "required": true,
    "type": "poblacion_objetivo_definida"
  }
],
"failure_contract": {
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    "priority": 6,
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  "question_global": 280,
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  "validations": {
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    {
      "required": true,
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      "method_type": "scoring",
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      "function": "generate_traceability_record",
      "method_type": "analysis",
      "priority": 8,
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      "pattern": "cupos adecuados o creados en centros de detención transitoria",
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      "validation_rule": null,
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"semantic_expansion": null,
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"semantic_expansion": null,
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  "scoring_modality": "TYPE_A",
  "text": "¿Los indicadores de producto para PPL (ej. PPL atendidos en salud, cupos carcelarios creados) incluyen 'línea base', 'meta' cua
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  ],
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      "priority": 2,
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      "priority": 4,
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      "priority": 5,
      "description": "BayesianMechanismInference._log_refactored_components"
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"method_type": "scoring",
"priority": 9,
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"method_type": "analysis",
"priority": 10,
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"priority": 11,
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"priority": 13,
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"priority": 14,
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      "method_type": "analysis",
      "priority": 19,
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      "method_type": "analysis",
      "priority": 20,
      "description": "IndustrialPolicyProcessor._build_point_patterns"
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      "function": "_empty_result",
      "method_type": "analysis",
      "priority": 21,
      "description": "IndustrialPolicyProcessor._empty_result"
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      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "confidence_weight": 0.85,
      "flags": "i",
      "id": "PAT-Q282-001",
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      "semantic_expansion": null,
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    {
      "category": "TERRITORIAL",
      "confidence_weight": 0.85,
      "flags": "i",
      "id": "PAT-Q282-002",
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      "specificity": "MEDIUM",
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"text": "¿Las metas de los productos (ej. 'crear 100 nuevos cupos') son proporcionales a la magnitud del problema diagnosticado (ej. 'dé
"validations": {
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"type": "completeness",
"threshold": 0.8
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{
"base_slot": "D3-Q3",
"cluster_id": "CL04",
"dimension_id": "DIM03",
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"required": true,
"type": "trazabilidad_presupuestal"
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"priority": 3,
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"priority": 5,
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  "method_type": "analysis",
  "priority": 20,
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  "priority": 21,
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  "priority": 22,
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    "context_requirement": null,
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    "pattern": "programa del PPI|línea de inversión en seguridad y justicia",
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    "context_requirement": null,
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    "context_requirement": null,
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    "validation_rule": null,
    "context_requirement": null,
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    "confidence_weight": 0.85,
    "flags": "i",
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    "pattern": "Secretaría de Gobierno|Secretaría de Salud|Personería Municipal",
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    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "flags": "i",
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"context_requirement": null,
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"id": "PAT-Q284-003",
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  "priority": 6,
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"semantic_expansion": null,
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"priority": 15,
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"confidence_weight": 0.85,
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"id": "PAT-Q286-006",
"match_type": "REGEX",
"pattern": "Meta Cuatrienio:|Meta\\\\s+(?:19|20)\\\\d{2}:|se espera reducir a|llegar a un X%",
"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH",
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"semantic_expansion": null,
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"pattern_ref": "PAT-0004"
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"question_global": 286,
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"scoring_modality": "TYPE_A",
"text": "¿Los indicadores de resultado para la crisis carcelaria (ej. 'tasa de hacinamiento', 'porcentaje de PPL con atención en salud') est
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{
"required": true,
"type": "supuestos_identificados"
}
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"incomplete_text"
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"method_sets": [
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"function": "_encontrar_caminos_completos",
"method_type": "analysis",
"priority": 1,
"description": "TeoriaCambio._encontrar_caminos_completos"
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"class": "TeoriaCambio",
"function": "validacion_completa",
"method_type": "analysis",
"priority": 2,
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"method_type": "extraction",
"priority": 3,
"description": "CausalExtractor.extract_causal_hierarchy"
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      "method_type": "analysis",
      "priority": 4,
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      "method_type": "analysis",
      "priority": 5,
      "description": "HierarchicalGenerativeModel._generate_independence_tests"
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      "function": "construct_scm",
      "method_type": "analysis",
      "priority": 6,
      "description": "BayesianCounterfactualAuditor.construct_scm"
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    {
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      "function": "_perform_sensitivity_analysis_internal",
      "method_type": "analysis",
      "priority": 7,
      "description": "AdvancedDAGValidator._perform_sensitivity_analysis_internal"
    },
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      "class": "BayesFactorTable",
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      "method_type": "analysis",
      "priority": 8,
      "description": "BayesFactorTable.get_bayes_factor"
    }
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_requirement": null,
"semantic_expansion": null,
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"scoring_modality": "TYPE_A",
"text": "¿Se explicita la cadena causal que lleva a la mejora de la situación carcelaria, mencionando 'supuestos' clave (ej. 'si los PPL pa
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"type": "completeness",
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  {
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    "required": true,
    "type": "justificacion_recursos"
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    "method_type": "analysis",
    "priority": 1,
    "description": "PDETMunicipalPlanAnalyzer._get_prior_effect"
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    "method_type": "analysis",
    "priority": 2,
    "description": "PDETMunicipalPlanAnalyzer._estimate_effect_bayesian"
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    "method_type": "analysis",
    "priority": 3,
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    "method_type": "analysis",
    "priority": 4,
    "description": "AdaptivePriorCalculator.sensitivity_analysis"
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    "method_type": "scoring",
    "priority": 5,
    "description": "HierarchicalGenerativeModel._calculate_r_hat"
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    "method_type": "scoring",
    "priority": 6,
    "description": "HierarchicalGenerativeModel._calculate_ess"
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    "function": "_calculate_statistical_power",
    "method_type": "scoring",
    "priority": 7,
    "description": "AdvancedDAGValidator._calculate_statistical_power"
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  {
    "class": "BayesianMechanismInference",

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    "function": "_aggregate_bayesian_confidence",
    "method_type": "analysis",
    "priority": 8,
    "description": "BayesianMechanismInference._aggregate_bayesian_confidence"
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    "semantic_expansion": null,
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    "pattern_ref": "PAT-0083"
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    "flags": "i",
    "id": "PAT-Q288-001",
    "match_type": "REGEX",
    "pattern": "la meta se justifica por la construcción del nuevo centro de detención",
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    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "context_requirement": null,
    "semantic_expansion": null,
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    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "flags": "i",
    "id": "PAT-Q288-004",
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    "pattern": "en comparación con los estándares de las Reglas Mandela",
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    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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"semantic_expansion": null,
"context_scope": "PARAGRAPH",
"pattern_ref": "PAT-0025"
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"question_global": 288,
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"scoring_modality": "TYPE_A",
"text": "¿La ambición de las metas de resultado (ej. 'reducir el hacinamiento al 20%') se justifica en función de la inversión, la capacidad
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"type": "criterios_exito_definidos"
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{
"required": true,
"type": "vinculo_resultado_problema"
}
],
"failure_contract": {
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"function": "_calculate_objective_alignment",
"method_type": "scoring",
"priority": 1,
"description": "PolicyContradictionDetector._calculate_objective_alignment"
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"class": "PolicyContradictionDetector",
"function": "_identify_affected_sections",
"method_type": "analysis",
"priority": 2,

"description": "PolicyContradictionDetector._identify_affected_sections"
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{
"class": "PolicyContradictionDetector",
"function": "_generate_resolution_recommendations",
"method_type": "analysis",
"priority": 3,
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"method_type": "analysis",
"priority": 4,
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"class": "OperationalizationAuditor",
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"method_type": "analysis",
"priority": 5,
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"class": "BayesianCounterfactualAuditor",
"function": "aggregate_risk_and_prioritize",
"method_type": "analysis",
"priority": 6,
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"class": "FinancialAuditor",
"function": "_detect_allocation_gaps",
"method_type": "analysis",
"priority": 7,
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"semantic_expansion": null,
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"flags": "i",
"id": "PAT-Q289-002",
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"context_scope": "PARAGRAPH"
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"id": "PAT-Q289-004",
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"specificity": "MEDIUM",
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_requirement": null,
"semantic_expansion": null,
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"context_scope": "PARAGRAPH",
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}
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"scoring_modality": "TYPE_A",
"text": "¿Los resultados propuestos (ej. 'mejora de las condiciones de reclusión') 'atienden' o 'abordan' directamente los problemas de d
"validations": {
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"type": "completeness",
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{
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},
{

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    "type": "alineacion_pnd"
  }
],
"failure_contract": {
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    "method_type": "scoring",
    "priority": 1,
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    "function": "_score_causal_coherence",
    "method_type": "scoring",
    "priority": 2,
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    "method_type": "validation",
    "priority": 3,
    "description": "CDAFFramework._validate_dnp_compliance"
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    "function": "_generate_dnp_report",
    "method_type": "analysis",
    "priority": 4,
    "description": "CDAFFramework._generate_dnp_report"
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    "function": "_analyze_causal_dimensions",
    "method_type": "analysis",
    "priority": 5,
    "description": "IndustrialPolicyProcessor._analyze_causal_dimensions"
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  {
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    "function": "validate_quality_criteria",
    "method_type": "validation",
    "priority": 6,
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    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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},
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"id": "PAT-Q290-002",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"id": "PAT-Q290-003",
"match_type": "REGEX",
"pattern": "acata las Reglas Mínimas de Tratamiento de Reclusos|Reglas Mandela",
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"category": "GENERAL",
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"flags": "i",
"id": "PAT-Q290-004",
"match_type": "REGEX",
"pattern": "en concordancia con la Política Criminal",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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],
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"question_global": 290,
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"scoring_modality": "TYPE_A",
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"type": "completeness",
"threshold": 0.8
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      "method_type": "analysis",
      "priority": 1,
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      "function": "_simulate_intervention",
      "method_type": "analysis",
      "priority": 2,
      "description": "PDETMunicipalPlanAnalyzer._simulate_intervention"
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      "function": "_generate_scenario_narrative",
      "method_type": "analysis",
      "priority": 3,
      "description": "PDETMunicipalPlanAnalyzer._generate_scenario_narrative"
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  "semantic_expansion": null,
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  "context_requirement": null,
  "semantic_expansion": null,
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  "flags": "i",
  "id": "PAT-Q291-005",
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  "pattern": "tiempo de maduración|se espera observar en 5-10 años|efectos post-penitenciarios",
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"text": "¿El PDM define 'impactos' de largo plazo (ej. 'sistema carcelario resocializador', 'reducción de la criminalidad')? Se debe verifica
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"required": true,
"type": "usa_proxies"
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"failure_contract": {
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"function": "_compute_evidence_confidence",
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"priority": 22,
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"priority": 24,
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"method_type": "analysis",
"priority": 25,
"description": "PolicyTextProcessor.compile_pattern"

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      "priority": 26,
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      "match_type": "REGEX",
      "pattern": "tasa de reincidencia|Índice de Seguridad Ciudadana",
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      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "confidence_weight": 0.85,
      "flags": "i",
      "id": "PAT-Q292-001",
      "match_type": "REGEX",
      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
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      "flags": "i",
      "id": "PAT-Q292-005",
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      "context_requirement": null,
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    {
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      "type": "proxy_para_intangibles"
    },
    {
      "required": true,
      "type": "reconoce_limitaciones"
    }
  ],
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      "incomplete_text"
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    "emit_code": "ABORT-Q293-REQ"
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      "method_type": "scoring",
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    "priority": 2,
    "description": "SemanticAnalyzer.extract_semantic_cube"
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    "description": "BayesianMechanismInference._quantify_uncertainty"
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    "priority": 4,
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    "function": "get_diagnostics",
    "method_type": "analysis",
    "priority": 5,
    "description": "PolicyAnalysisEmbedder.get_diagnostics"
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    "function": "_perturb_evidence",
    "method_type": "analysis",
    "priority": 6,
    "description": "AdaptivePriorCalculator._perturb_evidence"
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"patterns": [
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    "flags": "i",
    "id": "PAT-Q293-000",
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    "pattern": "dado que es difícil medir la reintegración social|para aproximar la medición",
    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
    "context_scope": "PARAGRAPH"
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    "pattern_ref": "PAT-0100"
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      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "confidence_weight": 0.85,
      "flags": "i",
      "id": "PAT-Q293-004",
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      "pattern": "una limitación es que no captura el restablecimiento de lazos familiares",
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      "context_requirement": null,
      "semantic_expansion": null,
      "context_scope": "PARAGRAPH"
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      "confidence_weight": 0.85,
      "flags": "i",
      "id": "PAT-Q293-005",
      "match_type": "REGEX",
      "pattern": "aunque imperfecto, este proxy nos da una señal de inclusión social",
      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
      "semantic_expansion": null,
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  "question_global": 293,
  "question_id": "Q293",
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  "scoring_modality": "TYPE_A",
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      "threshold": 0.8
    }
  }
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  "cluster_id": "CL04",
  "dimension_id": "DIM05",
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    },
    {
      "required": true,
      "type": "riesgos_sistemicos"
    }
  ],
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    "method_type": "validation",
    "priority": 1,
    "description": "OperationalizationAuditor._audit_systemic_risk"
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    "function": "refutation_and_sanity_checks",
    "method_type": "analysis",
    "priority": 2,
    "description": "BayesianCounterfactualAuditor.refutation_and_sanity_checks"
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    "function": "_test_effect_stability",
    "method_type": "analysis",
    "priority": 3,
    "description": "BayesianCounterfactualAuditor._test_effect_stability"
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    "method_type": "analysis",
    "priority": 4,
    "description": "PDETMunicipalPlanAnalyzer._interpret_risk"
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    "function": "_interpret_sensitivity",
    "method_type": "analysis",
    "priority": 5,
    "description": "PDETMunicipalPlanAnalyzer._interpret_sensitivity"
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    "function": "_break_cycles",
    "method_type": "analysis",
    "priority": 6,
    "description": "PDETMunicipalPlanAnalyzer._break_cycles"
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  {
    "class": "AdaptivePriorCalculator",
    "function": "sensitivity_analysis",
    "method_type": "analysis",
    "priority": 7,
    "description": "AdaptivePriorCalculator.sensitivity_analysis"
  }
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    "confidence_weight": 0.85,
    "flags": "i",
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    "pattern": "visión de una política criminal restaurativa|humanización del sistema",
    "specificity": "MEDIUM",
    "validation_rule": null,
    "context_requirement": null,
    "semantic_expansion": null,
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"flags": "i",
"id": "PAT-Q294-002",
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"context_requirement": null,
"semantic_expansion": null,
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"match_type": "REGEX",
"pattern": "estos factores podrían agravar el hacinamiento y anular los esfuerzos",
"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
},
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"category": "GENERAL",
"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q294-005",
"match_type": "REGEX",
"pattern": "el mecanismo causal es vulnerable a|sensible a las decisiones del Congreso",
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"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"confidence_weight": 0.85,
"flags": "i",
"id": "PAT-Q294-006",
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"pattern": "estrategias de justicia restaurativa|medidas alternativas a la prisión",
"specificity": "MEDIUM",
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    "priority": 7,
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    "method_type": "scoring",
    "priority": 8,
    "description": "BayesianMechanismInference._calculate_coherence_factor"
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    "confidence_weight": 0.85,
    "flags": "i",
    "id": "PAT-Q295-002",
    "match_type": "REGEX",
    "pattern": "riesgo de que mejores condiciones carcelarias reduzcan el efecto disuasorio",
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    "context_requirement": null,
    "semantic_expansion": null,
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    "confidence_weight": 0.85,
    "flags": "i",
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"context_scope": "PARAGRAPH"
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"flags": "i",
"id": "PAT-Q295-005",
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"context_requirement": null,
"semantic_expansion": null,
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"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH",
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    },
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      "priority": 1,
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      "method_type": "analysis",
      "priority": 2,
      "description": "TeoriaCambio.validacion_completa"
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      "method_type": "analysis",
      "priority": 3,
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      "method_type": "analysis",
      "priority": 4,
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      "method_type": "analysis",
      "priority": 5,
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      "method_type": "analysis",
      "priority": 6,
      "description": "AdvancedDAGValidator.export_nodes"
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      "method_type": "analysis",
      "priority": 7,
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      "priority": 8,
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"semantic_expansion": null,
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"context_requirement": null,
"semantic_expansion": null,
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"context_requirement": null,
"semantic_expansion": null,
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{
"required": true,
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"method_type": "analysis",
"priority": 1,
"description": "BeachEvidentialTest.apply_test_logic"
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"function": "_test_necessity",
"method_type": "analysis",
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"class": "BayesianMechanismInference",
"function": "_test_sufficiency",
"method_type": "analysis",
"priority": 3,
"description": "BayesianMechanismInference._test_sufficiency"
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"class": "BayesianMechanismInference",
"function": "_calculate_coherence_factor",
"method_type": "scoring",
"priority": 4,
"description": "BayesianMechanismInference._calculate_coherence_factor"
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{
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"function": "_test_effect_stability",
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    "method_type": "validation",
    "priority": 6,
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  {
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    "function": "_compute_overall_confidence",
    "method_type": "analysis",
    "priority": 7,
    "description": "PolicyAnalysisEmbedder._compute_overall_confidence"
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    "context_scope": "PARAGRAPH",
    "pattern_ref": "PAT-0097"
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_requirement": null,
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"text": "¿Los saltos en la cadena causal de la política carcelaria son proporcionales (ej. un programa de lectura no elimina por sí solo la
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"dimension_id": "DIM06",
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{
"required": true,
"type": "reconoce_inconsistencias"
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],
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"function": "execute_suite",
"method_type": "analysis",
"priority": 1,
"description": "IndustrialGradeValidator.execute_suite"
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{
"class": "IndustrialGradeValidator",
"function": "validate_engine_readiness",
"method_type": "validation",
"priority": 2,
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      "function": "_benchmark_operation",
      "method_type": "analysis",
      "priority": 3,
      "description": "IndustrialGradeValidator._benchmark_operation"
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      "function": "validate_quality_criteria",
      "method_type": "validation",
      "priority": 4,
      "description": "AdaptivePriorCalculator.validate_quality_criteria"
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      "method_type": "scoring",
      "priority": 5,
      "description": "HierarchicalGenerativeModel._calculate_r_hat"
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      "method_type": "scoring",
      "priority": 6,
      "description": "HierarchicalGenerativeModel._calculate_ess"
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      "function": "calculate_acyclicity_pvalue",
      "method_type": "scoring",
      "priority": 7,
      "description": "AdvancedDAGValidator.calculate_acyclicity_pvalue"
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      "function": "analyze_performance",
      "method_type": "analysis",
      "priority": 8,
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      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
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      "context_scope": "PARAGRAPH",
      "pattern_ref": "PAT-0071"
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      "confidence_weight": 0.85,
      "flags": "i",
      "id": "PAT-Q298-001",
      "match_type": "REGEX",
      "pattern": "se requiere validar si los programas de trabajo realmente mejoran la empleabilidad",
      "specificity": "MEDIUM",
      "validation_rule": null,
      "context_requirement": null,
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"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"context_requirement": null,
"semantic_expansion": null,
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"id": "PAT-Q298-004",
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"specificity": "MEDIUM",
"validation_rule": null,
"context_requirement": null,
"semantic_expansion": null,
"context_scope": "PARAGRAPH"
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"text": "¿El plan reconoce 'inconsistencias' en su lógica de resocialización y propone 'pilotos' o 'pruebas' para 'testear los supuestos' de
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{
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  "cluster_id": "CL04",
  "dimension_id": "DIM06",
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    {
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      "type": "mecanismos_correccion"
    },
    {
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      "type": "sistema_monitoreo"
    }
  ],
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      "function": "update_priors_from_feedback",
      "method_type": "analysis",
      "priority": 1,
      "description": "ConfigLoader.update_priors_from_feedback"
    },
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      "method_type": "analysis",
      "priority": 2,
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      "function": "_save_prior_history",
      "method_type": "analysis",
      "priority": 3,
      "description": "ConfigLoader._save_prior_history"
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      "class": "ConfigLoader",
      "function": "_load_uncertainty_history",
      "method_type": "analysis",
      "priority": 4,
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      "function": "_extract_feedback_from_audit",
      "method_type": "validation",
      "priority": 5,
      "description": "CDAFFramework._extract_feedback_from_audit"
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    {
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      "function": "_calculate_node_importance",
      "method_type": "scoring",
      "priority": 6,
      "description": "AdvancedDAGValidator._calculate_node_importance"
    },
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        "description": "Count 3 elements, weighted",
        "failure_code": "F-D-MIN",
        "weights": [
          0.4,
          0.3,
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      },
      "TYPE_E": {
        "aggregation": "binary_presence",
        "description": "Boolean presence check",
        "failure_code": "F-E-MIN"
      },
      "TYPE_F": {
        "aggregation": "normalized_continuous",
        "description": "Continuous scale",
        "failure_code": "F-F-MIN",
        "normalization": "minmax"
      }
    }
  },
  "semantic_layers": {
    "disambiguation": {
      "confidence_threshold": 0.72,
      "entity_linker": "spaCy_es_core_news_lg"
    },
    "embedding_strategy": {
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      "hybrid": {
        "bm25": true,
        "fusion": "RRF"
      },
      "model": "multilingual-e5-base"
    }
  }
},
"generated_at": "2025-10-29T02:21:25.777170+00:00",
"integrity": {
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  "question_count": {
    "macro": 1,
    "meso": 4,
    "micro": 300,
    "total": 305
  },
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    "ruleset_hash": "9daaaf91c4c9bc90c3212c196c719f7120fca4c3b2b7875851c3e18e428e600a"
  },
  "observability": {
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      "logs": {
        "fields": [
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          "question_id",
          "pattern_id",
          "matched_text",
          "confidence",
          "trace_id",
          "ruleset_hash"
        ],
        "format": "jsonl"
      },
      "metrics": [
        {
          "aggregation": "sum",
          "level": "MICRO",
          "name": "pattern_match_count"
        },
        {
          "aggregation": "p95",
          "level": "METHOD_SET",
          "name": "rule_latency_ms"
        },
        {
          "aggregation": "ratio",
          "level": "DIMENSION",
          "name": "validation_failure_rate"
        }
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      "tracing": {
        "propagation": "W3C",
        "span_structure": [
          "LOAD_RULESET",
          "PARSE_DOCUMENT",
          "EXTRACT_PATTERN",
          "VALIDATE",
          "AGGREGATE",
          "EMIT_SCORE"
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  "schema_version": "2.0.0",
  "version": "1.0.0"
}
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