

Rubros Materialization Flow (Baseline → SDMT)

Finanzas SD - Architecture, Flows & SOPs

Arquitectura, Flujos y Procedimientos

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1 Rubros Materialization Flow (Baseline → SDMT)

1.1 End-to-end flow

1. PMO Baseline Creation (/baseline)

- Prefactura baseline is written to finz_prefacturas with:
 - pk = BASELINE#{baselineId}, sk = METADATA
 - payload.labor_estimates[] and payload.non_labor_estimates[]

2. Materialization trigger (SDMT “Materializar Ahora” / admin backfill)

- Calls materializeRubrosFromBaseline({ projectId, baselineId }).
- Loads the baseline payload from finz_prefacturas and generates rubros.

3. Rubros persistence (finz_rubros)

- Each rubro is written with:
 - pk = PROJECT#{projectId}
 - sk = RUBRO#{baselineId}#<type>#<stableLineItemId>
 - metadata.baseline_id = baselineId
 - linea_codigo and metadata.linea_codigo for taxonomy mapping

4. SDMT consumption

- Catalog/Forecast/Recon read rubros via /projects/{projectId}/rubros
- Summary endpoint aggregates via /projects/{projectId}/rubros-summary

1.2 Expected rubro schema (finz_rubros)

```
[
  {
    "pk": "PROJECT#P-123",
    "sk": "RUBRO#base_abc#labor#ingeniero-delivery-1",
    "rubroId": "base_abc#labor#ingeniero-delivery-1",
    "baselineId": "base_abc",
    "projectId": "P-123",
    "linea_codigo": "MOD-LEAD",
    "nombre": "Ingeniero Delivery",
    "descripcion": "Ingeniero Delivery (lead)",
    "category": "Labor",
    "qty": 1,
    "unit_cost": 1200000,
    "currency": "USD",
    "recurring": true,
    "one_time": false,
    "start_month": 1,
    "end_month": 12,
    "total_cost": 14400000,
    "metadata": {
      "baseline_id": "base_abc",
      "project_id": "P-123",
      "linea_codigo": "MOD-LEAD"
    }
  }
]
```

1.3 Troubleshooting checklist

• Rubros written = 0

- Confirm payload.labor_estimates or payload.non_labor_estimates exist in finz_prefacturas.

- Ensure `materializeRubrosFromBaseline` logs warnings for UNMAPPED taxonomy IDs.
- **Catalog shows empty**
 - Verify `/projects/{projectId}/rubros` returns entries with `metadata.baseline_id` matching the active baseline.
- **Rubros summary fails**
 - Confirm `/projects/{projectId}/rubros-summary` is deployed and returns CORS headers.
- **Forecast fallback shows error**
 - Check fallback logs and ensure allocations/rubros include a valid `projectId`.
- **Missing taxonomy mapping**
 - Validate `finz_rubros_taxonomia` includes the category/description combination.
 - Items without a match will be tagged with `linea_codigo = UNMAPPED`.