

# **Rubros Materialization Flow (Baseline → SDMT)**

Finanzas SD – Architecture, Flows & SOPs

Arquitectura, Flujos y Procedimientos

## 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`.