

# **Forecast Pipeline Testing & Validation**

Finanzas SD – Architecture, Flows & SOPs

Arquitectura, Flujos y Procedimientos

January 29, 2026

## 1 Forecast Pipeline Testing & Validation

**Date:** December 11, 2025

**Status:** Fixed - Ready for Testing

### 1.1 Executive Summary

Fixed critical data structure mismatch causing forecast, portfolio, and cost catalog screens to show “all zeros”. The issue was seed scripts creating DynamoDB records with pk PROJECT#{id}#MONTH#{month} while handlers queried with PROJECT#{id}.

### 1.2 Root Cause

**Problem:** Partition key mismatch - Seed: pk = PROJECT#P-CLOUD-ECOPETROL#MONTH#2025-01  
- Query: pk = PROJECT#P-CLOUD-ECOPETROL - Result: Query returns 0 items

**Fix:** Changed seed scripts to use pk = PROJECT#{id}, sk = ALLOC#{month}#{id}

### 1.3 Testing Instructions

```
[]} cd services/finanzas-api
  # Reset and reseed npm run reset:dev-projects --force # TODO: seed:canonical-projects script has been removed. # Create test projects through the application UI before validation.
  # Validate npm run verify:allocations npm run verify:payroll npm run verify:forecast-pipeline P-CLOUD-ECOPETROL
```

### 1.4 Expected Outcomes

All 5 critical screens should show non-zero data: 1. Forecast: 12-month grid with data  
2. Cost Catalog: Rubros with costs 3. Portfolio: MOD charts 4. Reconciliation: Invoices load 5. Changes: Line items work

### 1.5 Test Projects

- P-CLOUD-ECOPETROL (\$22.5M, 48mo)
- P-DATACENTER-ETB (\$25M, 60mo)
- P-NOC-CLARO-BOG (\$18.5M, 60mo)
- P-WIFI-ELDORADO (\$4.2M, 24mo)