

Breaking the 14-hour reporting barrier

Truffle brought specialist expertise to a six-month reporting challenge, with a redesigned pipeline projected to cut processing time by 96%.

01 Problem

The customer's contractor safety team depended on work-hours data it could trust. Yet daily processing took about 14 hours, and dashboard totals had failed to match the source for roughly six months.

The problem had persisted despite previous attempts by multiple teams. Behind a single Power BI dashboard lay several connected failures, demanding expertise across the entire system to tackle both speed and accuracy.

02 Solution

Truffle data engineer Achmad stepped into an unfamiliar environment and took on the challenge from source to dashboard. Working across Azure Data Factory, Azure SQL, and Power BI, he uncovered the bottleneck and the hidden gaps behind the unreliable totals.

- **Rebuilt for speed:** Replaced one-project-at-a-time processing with parallel execution, validated through triggered runs.
- **Uncovered the hidden gaps:** Fixed SQL logic that silently excluded work hours and traced broken site mappings and archived projects.
- **Revealed a major blind spot:** Identified about 13.71 million contractor work hours excluded by a pre-2019 cutoff.

03 Reward

The redesigned pipeline creates a path to same-day reporting, with a projected 96% reduction in processing time. The customer also gained the insight to address months of reporting discrepancies.

13.5 hours

Projected processing time saved per run

Approximate daily processing time: 14 hours / Projected full processing run: 25-30 min

96%

Projected reduction in processing time

What is holding your data back?

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