



KNOW YOUR LIMITLESS

CASE STUDY

A Single Version of Truth for PPC Cement South Africa with the Help of Flow

PRODUCTS:

FLOW

INDUSTRY:

CEMENT

INTEGRATOR:

DARNER
ENGINEERING

END USER:

PPC



01

Introduction

With its extensive reach, PPC operates 11 cement factories spread across South Africa, Botswana, the Democratic Republic of Congo, Ethiopia, Rwanda, Zimbabwe. This sprawling network ensures PPC's capacity to produce an approximate of eleven and a half million tonnes of cement products annually.

Beyond cement, PPC's ventures extend into the realm of Materials business, with Pronto Readymix (inclusive of Ulula Ash) and 3Q Mahuma Concrete under its belt.

04

Results

The implementation of Flow across the three targeted sites has transformed PPC's approach to data management and decision-making. With approximately 8500 measures and 130 events tracked per site, the shift has enabled enhanced visibility and trust in the data presented.

The integration with SAP through SQL for the publication of shift production information, alongside automatic assignment of process orders to produced bags, exemplifies the system's efficiency.

Generating roughly 60 reports per site, the solution empowers over 50 people per site to utilise Flow reports and dashboards daily, ensuring that actionable, trustworthy information is always within reach.

02

Problem

Despite its impressive scale and operations, PPC was confronted with a significant challenge: the need for an enterprise-wide manufacturing reporting and information management solution.

The existing system was fragmented and inconsistent, hampering the ability of departmental managers to access reliable data and make informed decisions.

With KPI collection, calculation, and visualisation varying across sites, the quest for a standardised system was paramount to enhancing efficiency, transparency, and decision-making quality.

03

Solution

The search for a solution led PPC to Flow, a robust tool designed to serve as the singular source of truth for enterprise data. Teaming up with Darner Engineering, PPC embarked on the journey to redefine its KPI definition and dashboard standards, focusing initially on its three mega sites: PPC Slurry, PPC De Hoek, and PPC Dwaalboom.

Darner Engineering spearheaded the implementation process, ushering in a new era of data management for PPC. The transition from Excel to Flow as the main tool for KPI information and production management marked a significant milestone in PPC's operational overhaul.

05

3
Sites

8500
Measures per
site

130
Events per site

60
Reports
generated per
site

Process orders are
automatically
assigned to bags
produced by
matching process order
context with product
selections on the SCADA.

SAP integration
using SQL to publish
shift production
information to SAP
once verified.

Canary Historian,
Laboratory Information
Management
System (SQL),
Energy System (SQL),
SAP (SQL), Wayware (SQL)

50+
Users per site

