





Public Infrastructure & Construction - Monitoring Solution

Oracle Construction & Engineering Global Business Unit Territory Manager Edward Hartung



Safe Harbor Statement

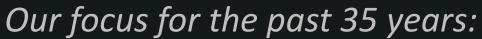
The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.









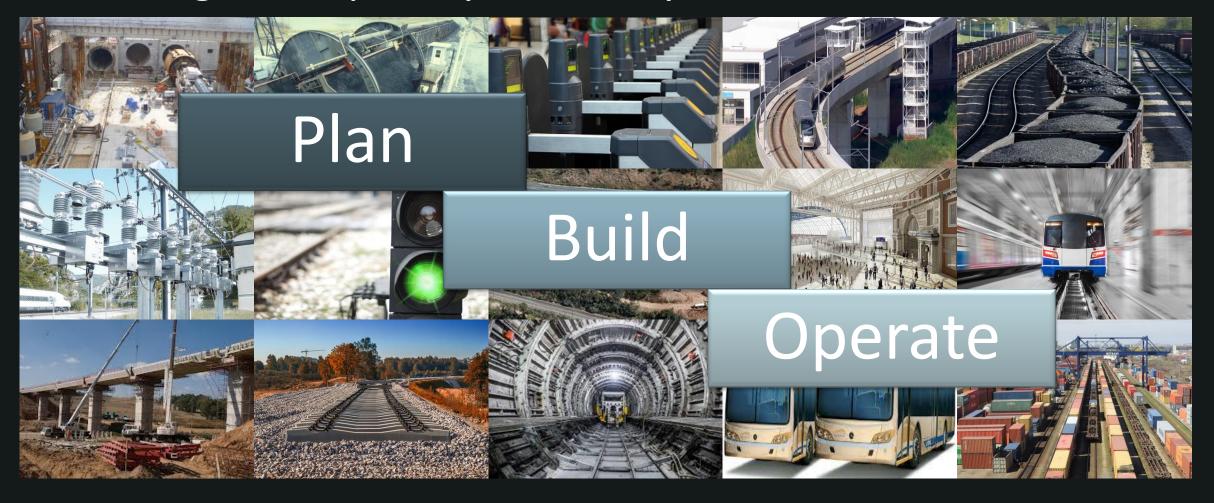




Transforming the world by helping organizations to plan, build and operate critical assets



Delivering a Complex System of Systems



End-to-End Lifecycle Solution

Scheduling, Resources & Risk

- Complex scheduling & resourcing
- CPM scheduling
- Risk management



Design & Construction Coordination

- Document & workflow management
- Communication management
- Model coordination
- Handover



Capital Planning & Portfolio Management

- Capital planning
- Ideation
- Strategic Alignment
- Portfolio management



Optimize, Monitor & Execute



Operations & Maintenance

Asset & facilities management



Payment Management

- Payment management & processing
- Supply chain financing



Project Controls

- **Budgeting & costs** Contract & change
 - management
- Earned value management



Field Mobility

- Quality
- Safety
- **Drawings**
- Model visualization





Why our customers focus on infrastructure development



Use infrastructure as a catalyst for economic development



Cope with rapid urbanisation and improved service delivery objectives



Promote regional integration and develop economic corridors



Correct historic underinvestment in infrastructure and maintenance

Challenges our customers face in infrastructure development



Where to invest?

How much to invest?

Securing funding



Long duration projects

It is like running a temporary business



Multiple stakeholders across many organizations



Lack of real time visibility in overall project performance

Negative outcomes in infrastructure projects to resolve



Cost increase due to uncontrolled scope and contract changes



Schedule delays due to resource and materials constraint



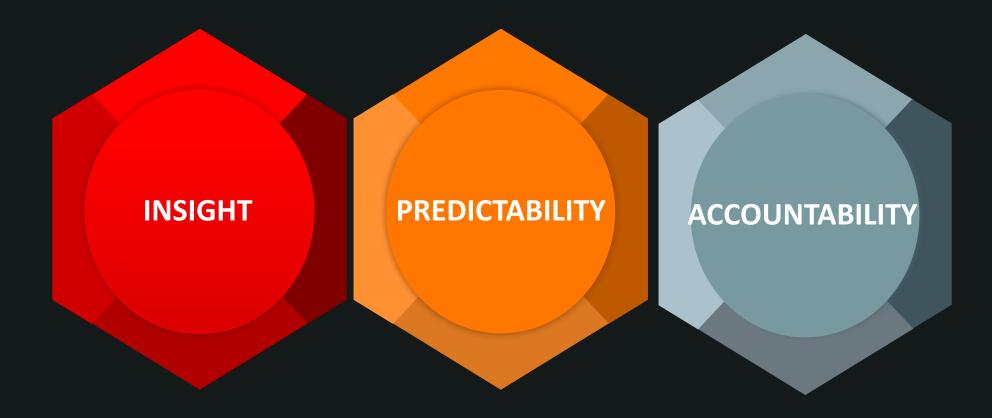
Payment disputes due to incorrect invoicing



Delay in ramp-up to full capacity



Helping our customers to achieve......



With infrastructure project delivery



Oracle Primavera Solution Functionality



A full function Enterprise Project Portfolio Management solution for public sector infrastructure development







Oracle Primavera Infrastructure Solution

A technology platform for public infrastructure development & project management

Gain insight in the full public infrastructure lifecycle performance



Selecting the right projects to enable the city's transformation



Implementing projects with confidence and with predictable outcomes



Maintain the infrastructure and facilities for sustainable productivity

Built on the Oracle Primavera technology platform to provide a full enterprise project portfolio management solution for Public Sector



Public Infrastructure Monitoring Solution Deployment

Local **National National** PPP Goverment Government **Planning** Plan Monitoring **Plan & Monitor National** Strategic **PMO** national level Manage **Program 3 Program 1 Program 2** and Align with **PMO PMO PMO** department level Evaluation **Implement Project Facility Facility Project Project** contractor level DFI **Banks Suppliers** Contractors



The Owner Problem

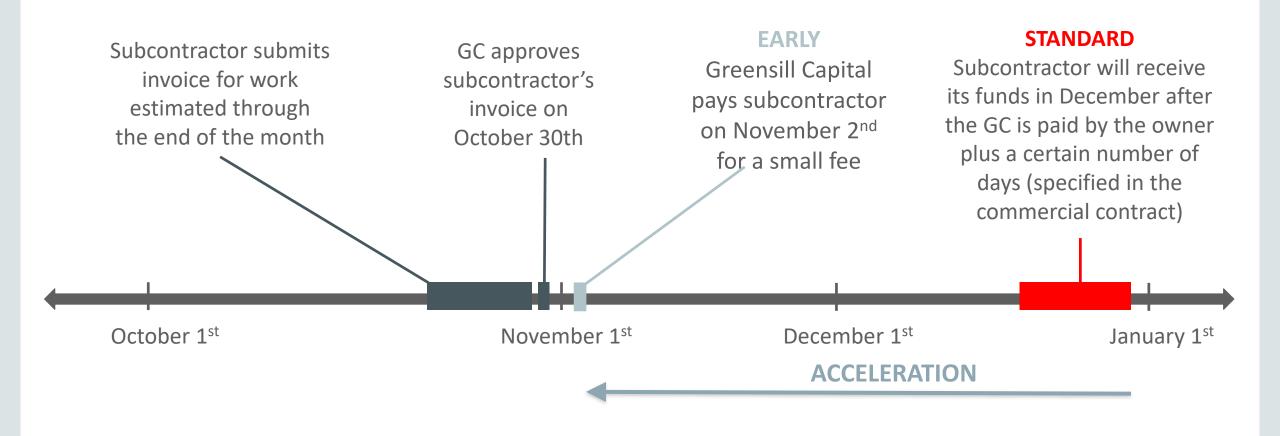


Scope-Centered Single System





Payment Timelines – Standard vs. Early Payment



Program Benefits



General Contractor

- Competitive differentiation
- Lower bids + more coverage
- Ability to help project partners
- Reduced risk of sub default
- New revenue stream



Subcontractor

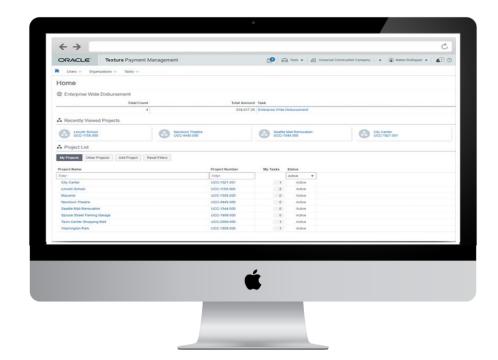
- Faster payment + known timing
- Affordable capital option
- Reduction in financial strain
- Vendor discount opportunities
- Potential to invest in growth



Textura: Optimize Payment Management and Accelerate Payments

Cloud based, collaborative payment management and supply chain financing:

- Increase efficiency: eliminate paper and electronic gridlock by providing a single source of truth to the supply chain
- Mitigate Risk: automate and streamline collection of compliance materials
- Strengthen Supply Chain: close the finance gap to the supply chain and reduce risk



Payment & Processing

Supply Chain Finance

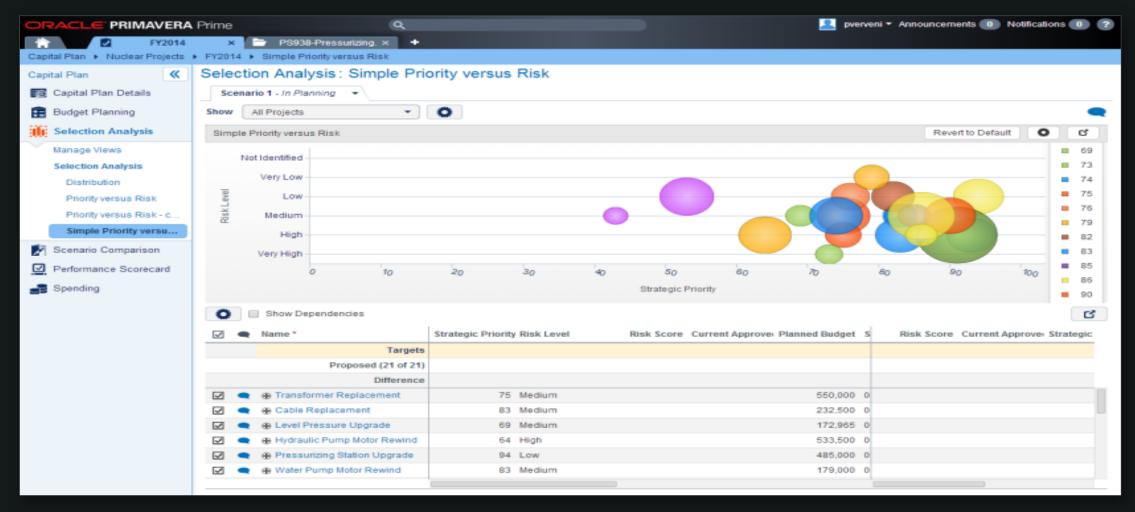
"Oracle Textura Payment Management helped Torcon streamline its payment processes, enabling staff to focus on value-added tasks"

-Karen Zavali, Project Accountant, Torcon, Inc



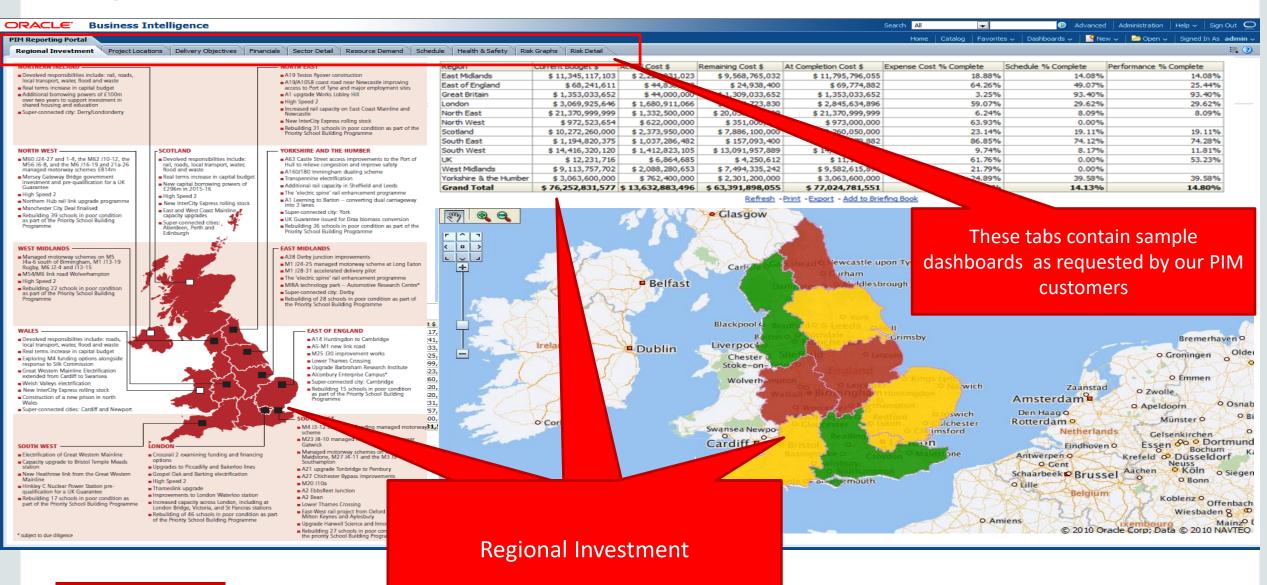
Oracle | Primavera
Public Infrastructure Monitoring Solution
Overview

Selecting the correct projects for infrastructure investment



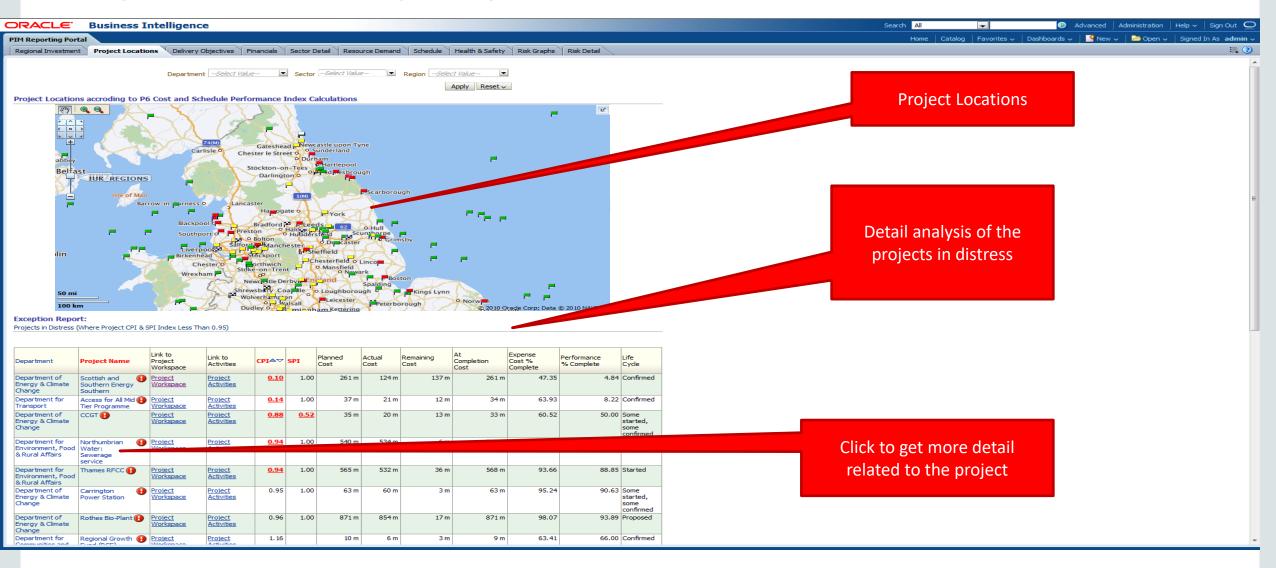


Regional Investment

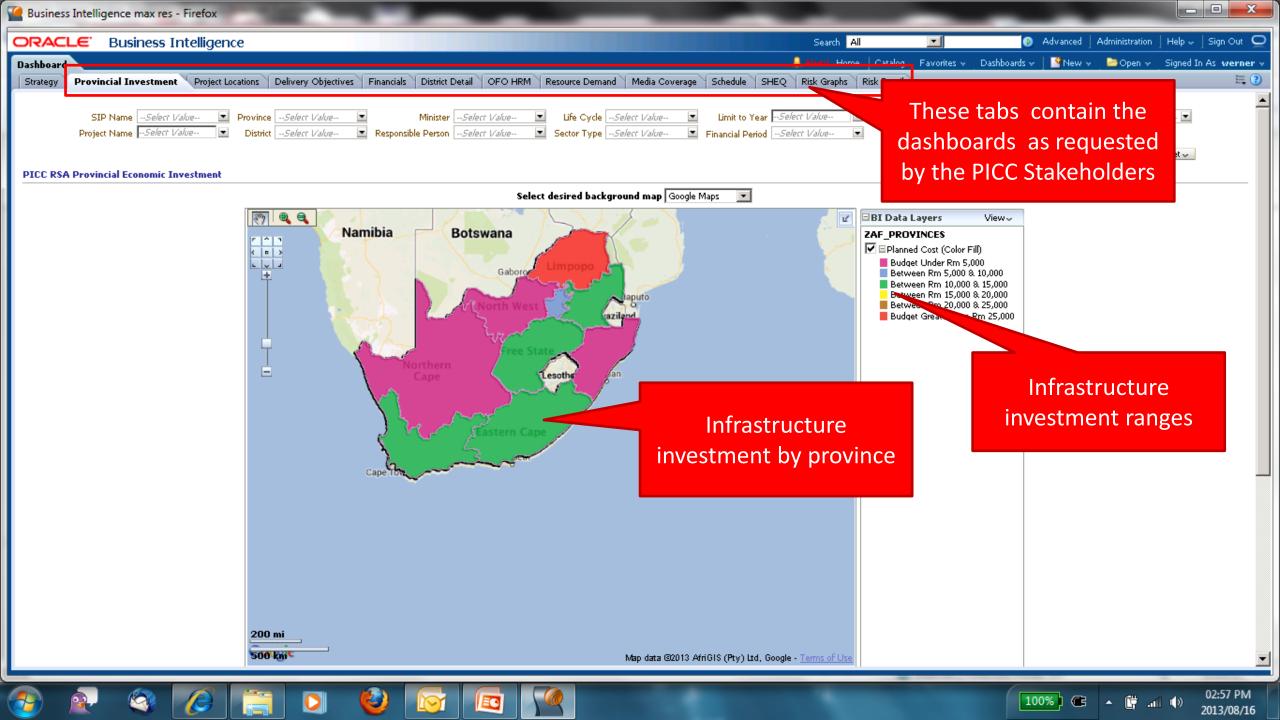


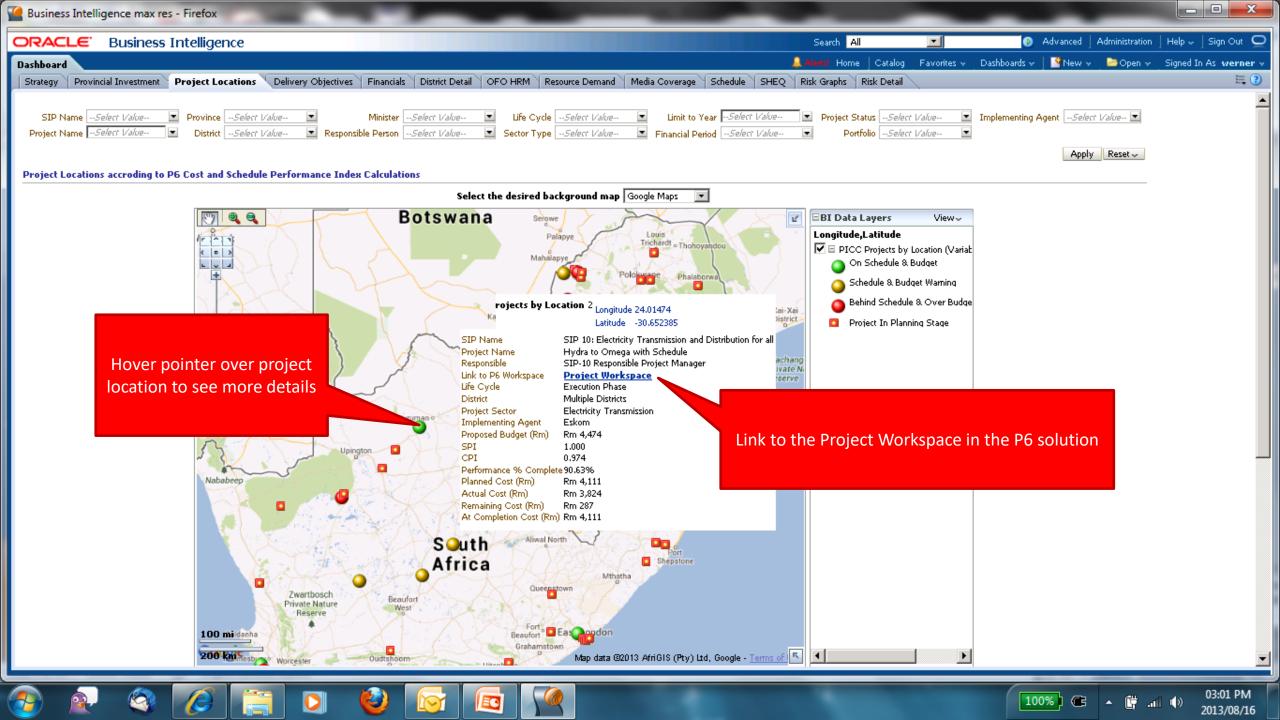


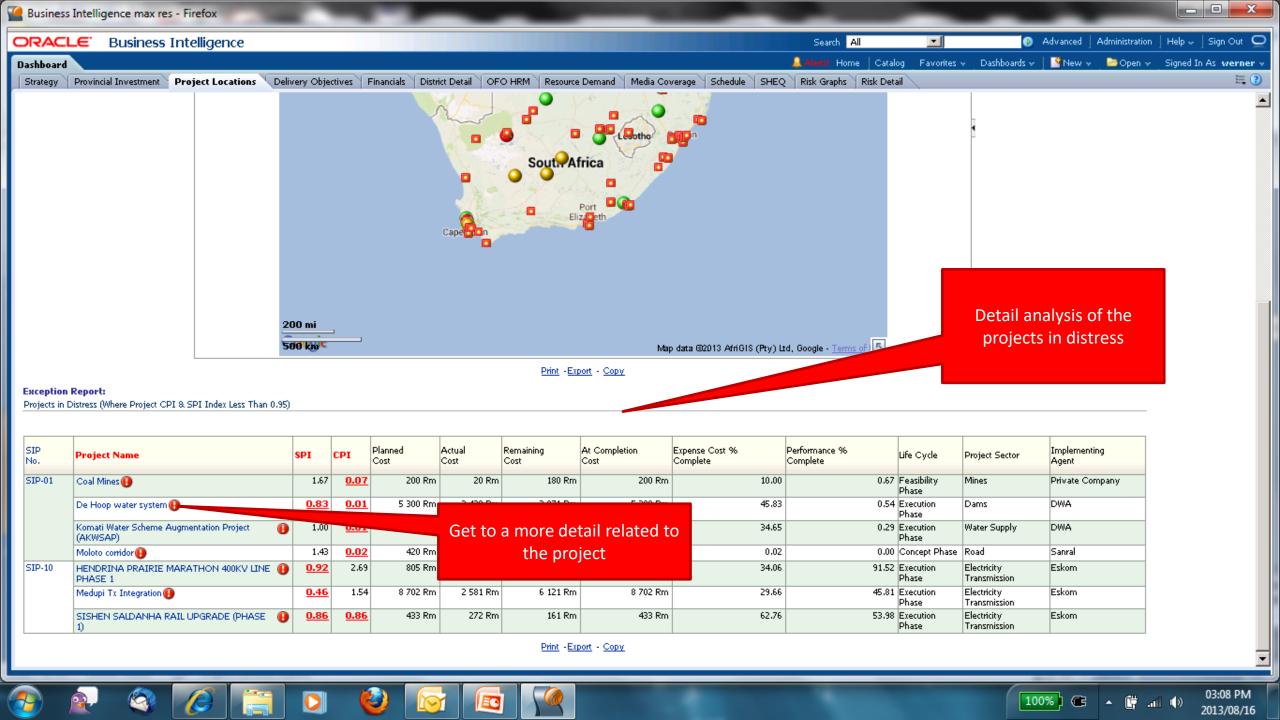
Project locations | Projects in distress

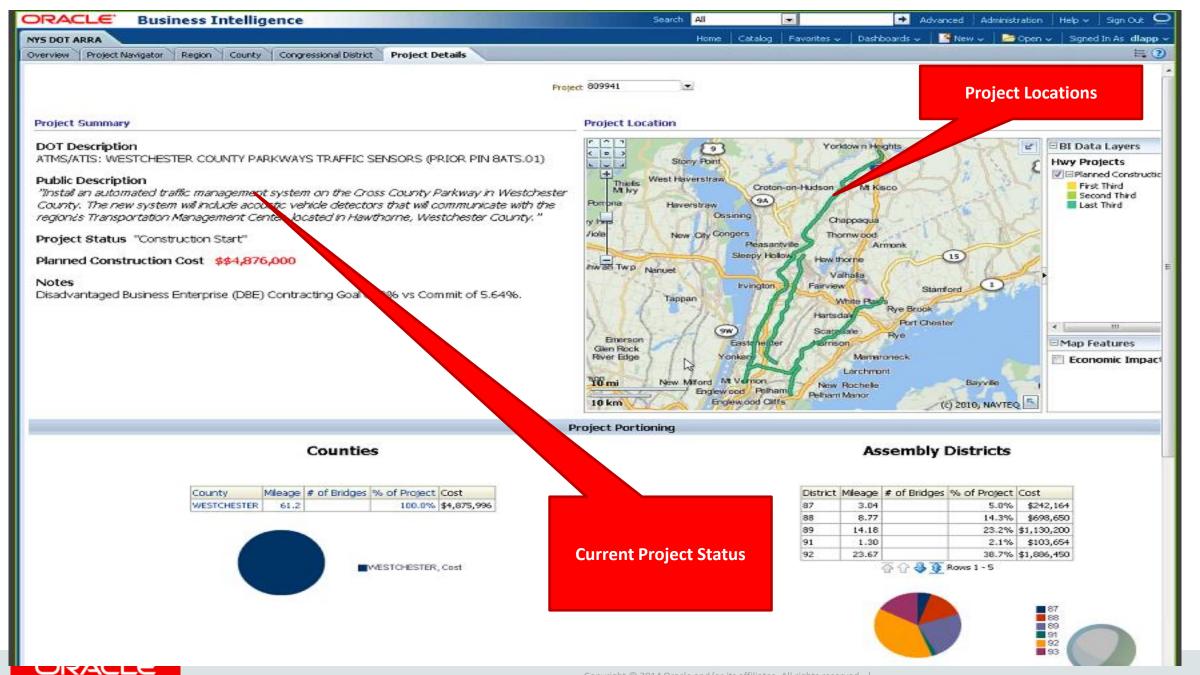
















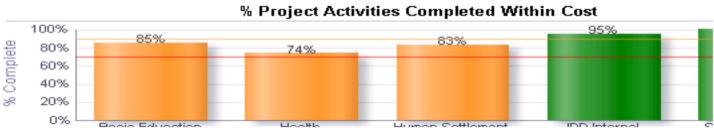
IDD Key Performance Areas

% Complete
63%
Positive Schedule
Completion %



Sector	% Complete
Basic Education	98%
Health	48%
Human Settlement	57%
IDD Internal	93%
Spatial Projects	100%
Grand Total	63%

% Complete
80%
Cost Variance is
the Earned Value
minus the Actual...



Sector	% Complete
Basic Education	85%
Health	74%
Human Settlement	83%
IDD Internal	95%
Spatial Projects	100%
Grand Total	80%

Ratio

Sector

Basic Education Health

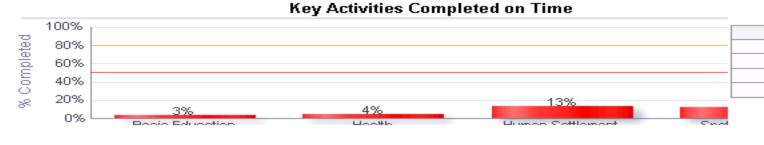
Human Settlement

Spatial Projects

Key Activity

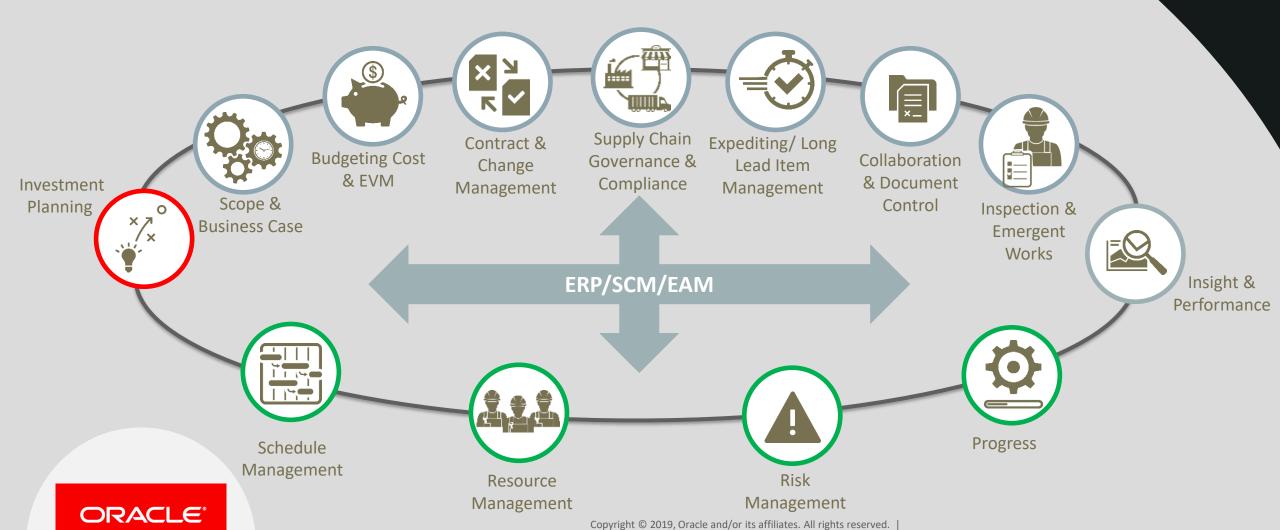
5 %

Key activity
completion within
baseline date

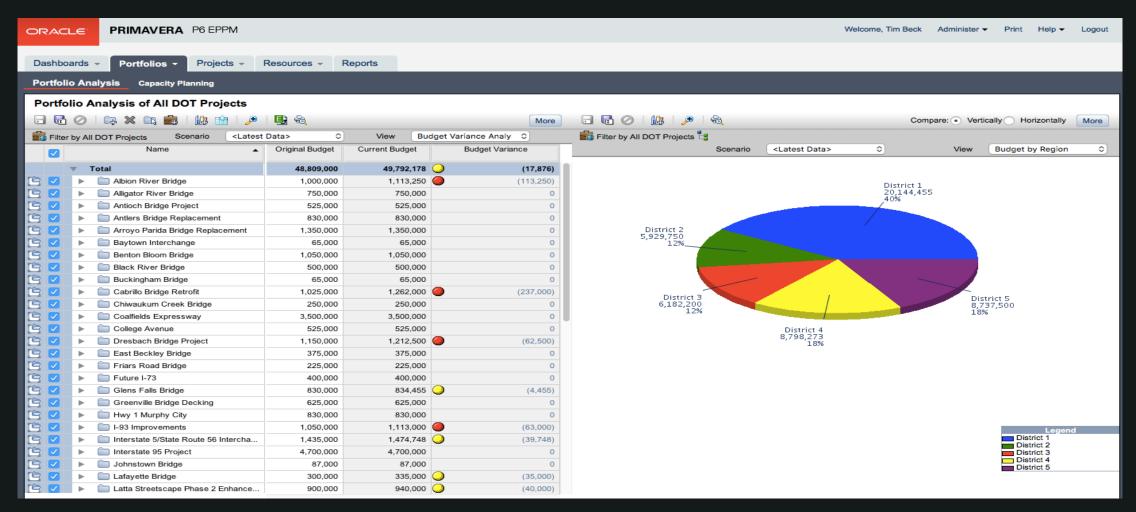




Opex Solution

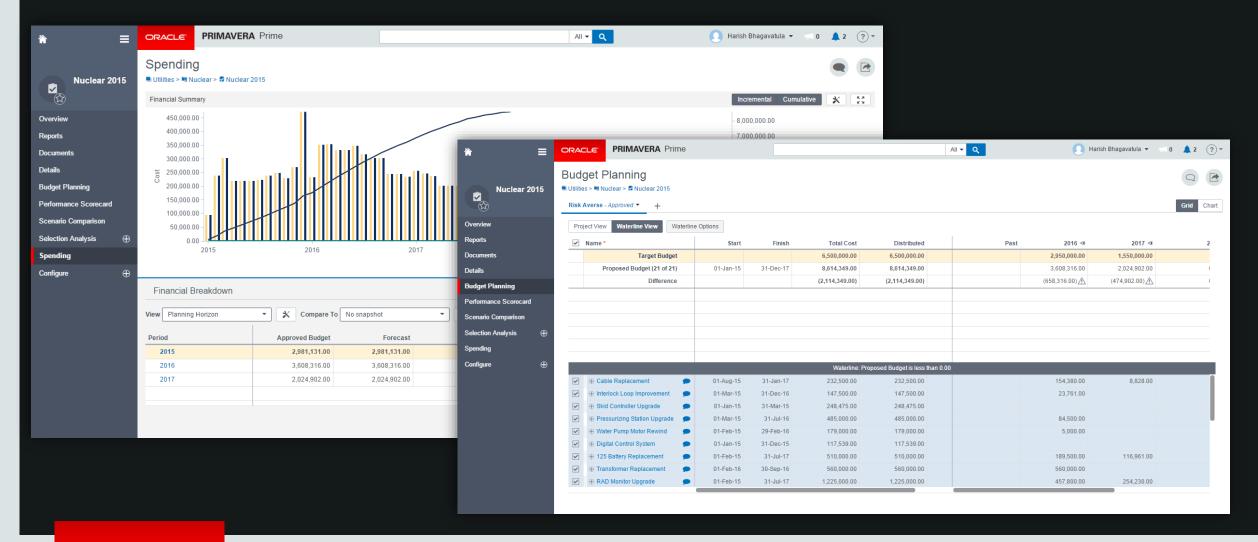


Tracking the inventory of projects

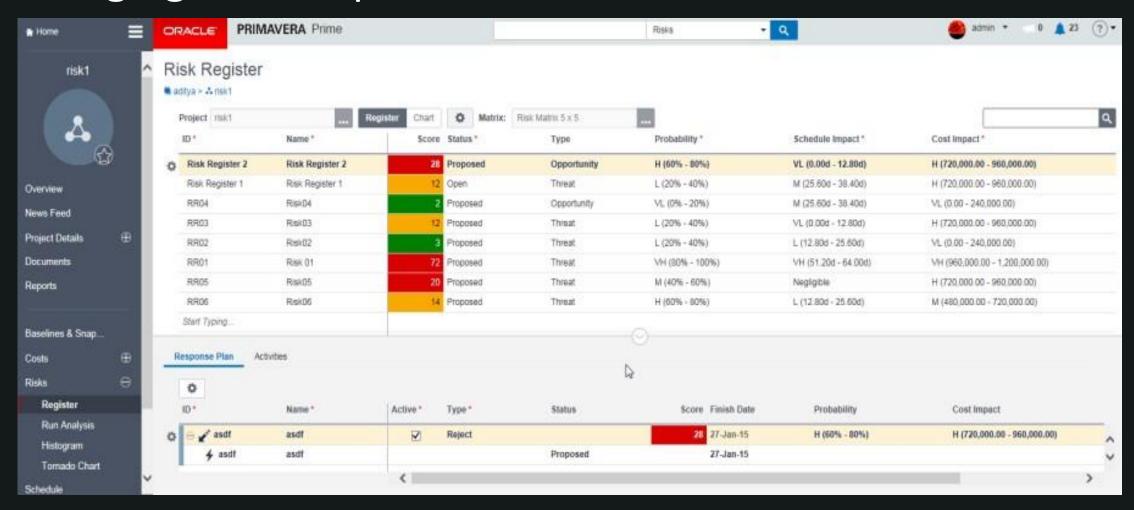




Prepare long range capital plans

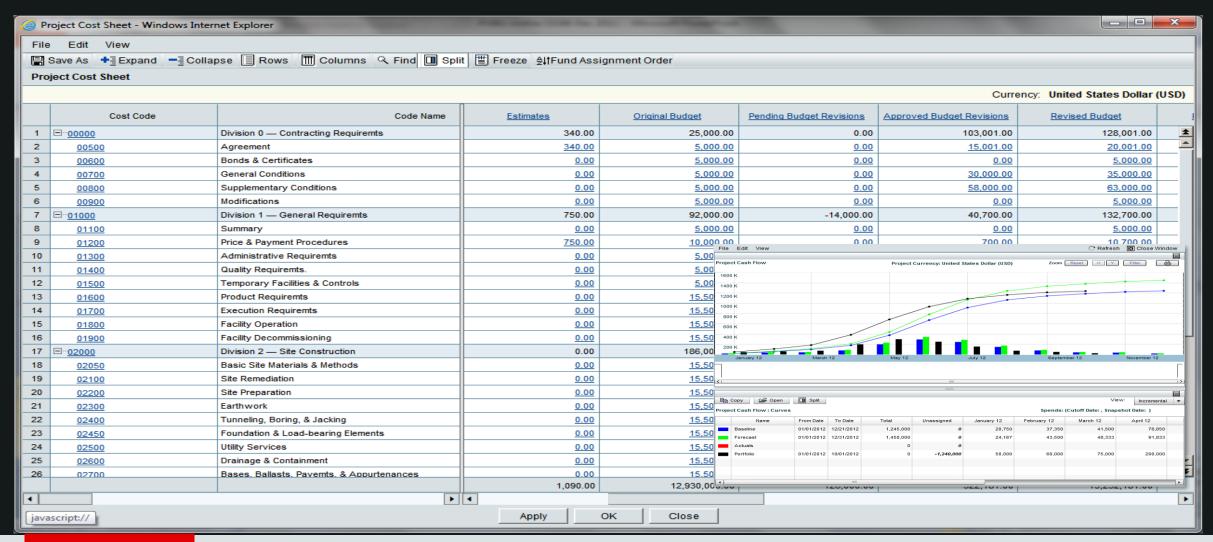


Managing the risk profiles



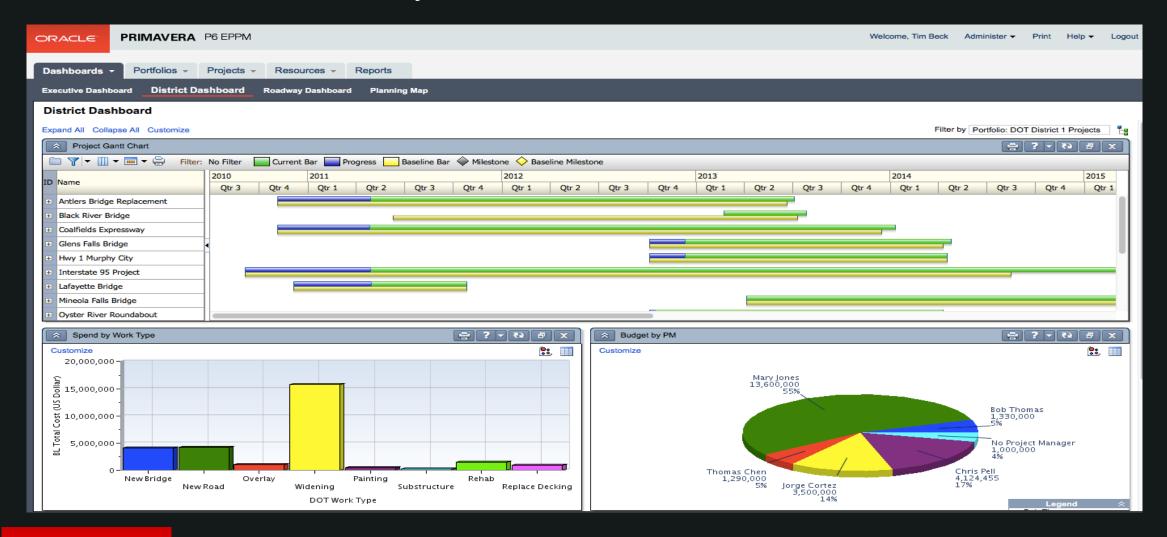


Manage the budgets and cash flow



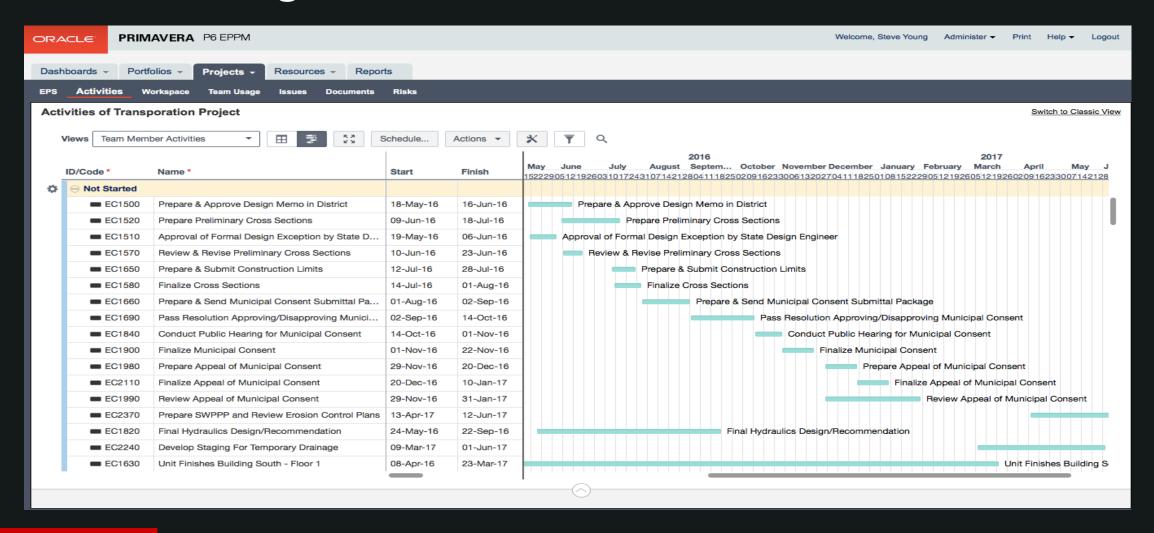


Monitor the summary schedules





Plan and manage the detailed schedules



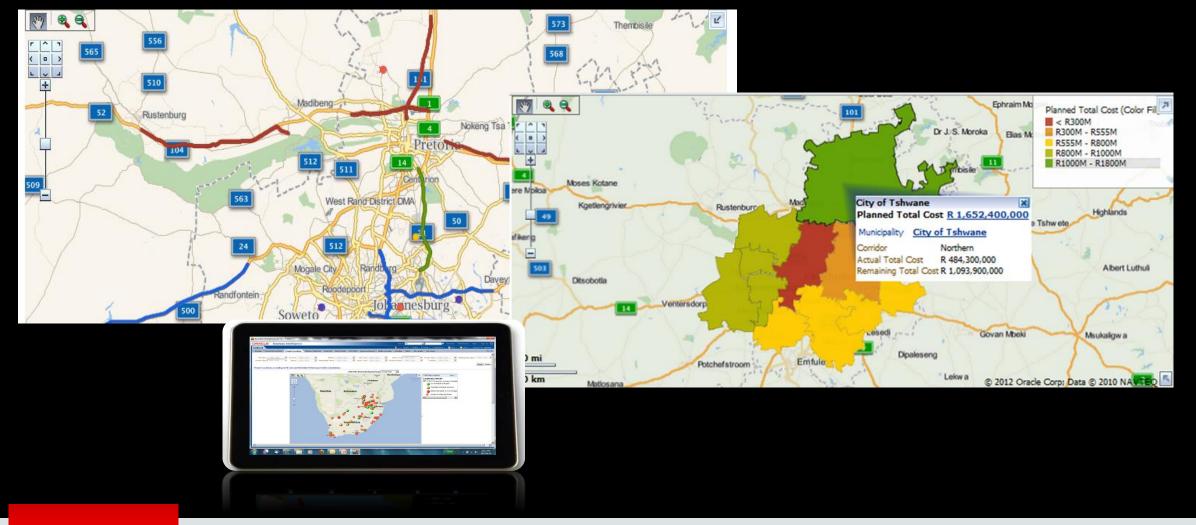


Track performance



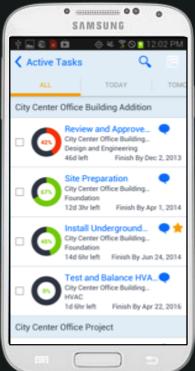


Track performance – spatial reporting



Mobile workforce



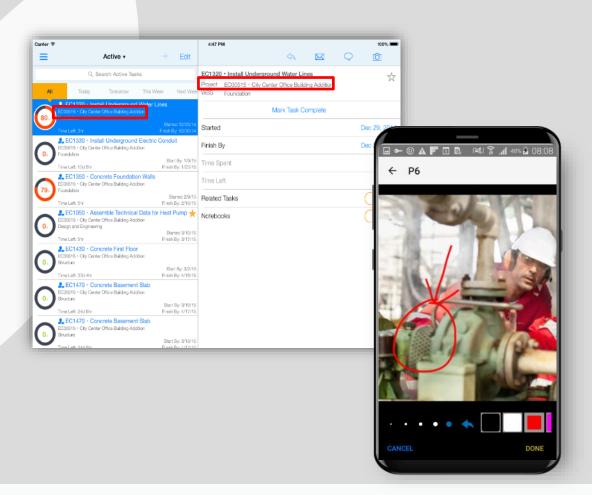






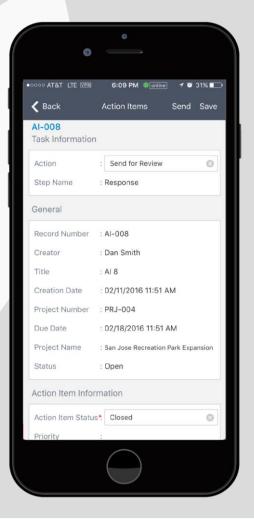
Field Productivity

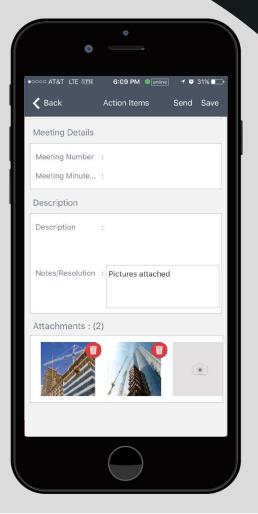
- Manage field status/productivity issues in both Online and TAR use cases (Inspections, Emergent work, Status, HSE etc.) through simple to use mobile applications
- View documents & provide updates from the field
- Capture changes including photos
- On/Off line modes
- '35% see savings in deploying mobile technology in the Field'- Accenture



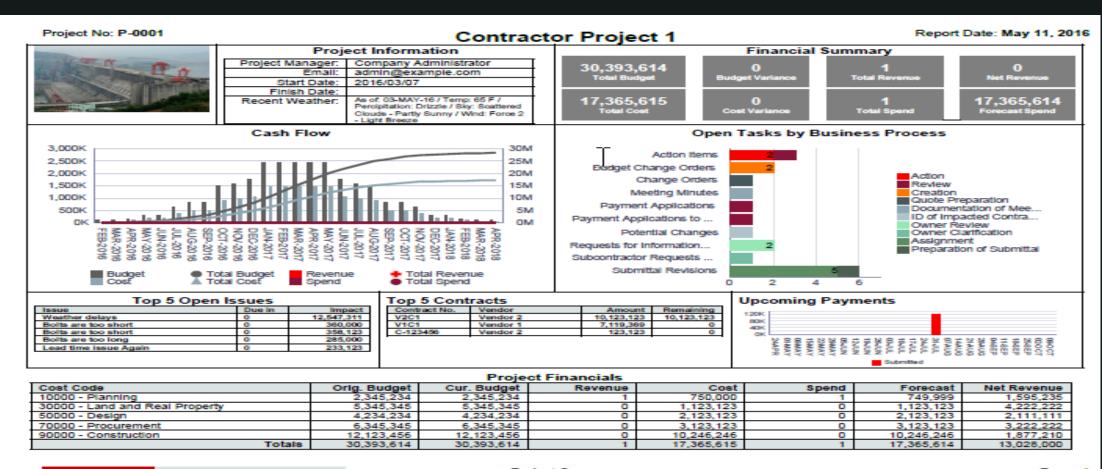
Operations – Administration Efficiencies

- Effectively capture, manage and control all Health, Safety and Environmental (HS&E) incidents
- Manage and control Vendor activity on an operational asset
- Provide ePermits for access to asset via mobility etc.
- Undertake Regulatory asset Inspections (field based), and ensure they are checked off





Project status reports





PRIMAVERA Unifier

Project Summary

Page: 1



Need reporting



(0)

Planned Total Cost (Color Fil 21

Albert Luthuli

© 2012 Oracle Corp: Data © 2010 NAVIEO

nned Total Cost R 1,652,400,000

unicipality City of Tshwane

Corridor Northern
Actual Total Cost R 484,300,000





Towards collaboration.....

ORACLE®