Case Study

Mining and Minerals | Diamonds
Implementation of a Centralised Data Base

PetraDiamonds

Client Background

Petra Diamonds has been a Pragma client since 2008, using On Key at a number of their mines, including:

- Cullinan Diamond Mine (Gauteng)
- Finsch Diamond Mine (Northern Cape)
- Koffiefontein Diamond Mine (Free State)
- Williamson Diamond Mine (Tanzania)

Up to 2019, each site used its own On Key database. A Reliability and Asset Management (RAM) project was launched, and amongst others, the aim was to develop a new, centralised database that included a common asset type tree. The asset type tree aids as placeholders for all the different assets shared throughout the group while still allowing the individual sites to follow their own maintenance procedure.

Key Challenges

Change Management
As with any cross site/central database implementation, as project consultants we deal with a multitude of different people and "The way things are done" on one site can be entirely different to another. People are by nature adverse to change and do not like being told what to do especially when it is not "the way it has always been done".

Buy in
Another challenge in this type of implementation is creating buy-in from site management and different levels of work force including; Planners, Clerks, Artisans, Foremen and Engineers. As Pragma consultants we become an intermediary between Group Management, Site Management and work force.

Value Add

Task optimising
- Task duration auditing for resource distribution

Asset tree optimising
- Detailed asset information

Additional workshops and training for clerks and planners on On Key
- Query builder for more detailed and informative dashboards
- Demonstrations and knowledge share sessions with foremen and engineers

With the requirements for work on specific assets being set-up correctly, On Key assists artisans working on equipment to comply with legal and safety precautions.

> *"The implementation of the new centralised On Key database at Petra Diamonds has required full time work by two Pragma Project Engineers. These Engineers have immersed themselves into the Petra Diamonds culture forming close working relationships with all Petra staff and often refer to themselves as Petra Employees rather than Pragma Employees. This, I believe is key to the success of a project like this." – Petra Diamonds: Asset and Maintenance Manager*

Pragma Intervention

- Implementing a Reliability and Asset Management Project Team
- Assisting with the appointment of a senior planner role at group level and training to take ownership of On Key once the project is concluded
- Empowering planners to take ownership of assets in their sections and consulting with foremen and engineers to ensure best maintenance practices
  - Making use of artisan assistance in assigning maintenance strategies to assets
  - Review sheets for foremen and engineers to accept maintenance strategies
  - Buy-in is created by spreading the input and ownership to all involved parties and creating an atmosphere of "Together, we have created best practice maintenance strategies" and not "This is the way it is now, do it."
- Ensuring timeous changes to maintenance strategies when requested to keep artisan faith in a system working for them

Tools and Technology

- On Key EAM
- On Key Integrate
- On Key Import Tool
- Browse Window and Query Builder

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