



Kumba Iron Ore Operational Readiness (OR) Support

Sites: Sishen & Kolomela

Year: 2012 – 2020

Project Team over Period:



Strauss Oosthuizen
PROJECT LEADER

Industrial Engineers



Project Professionals

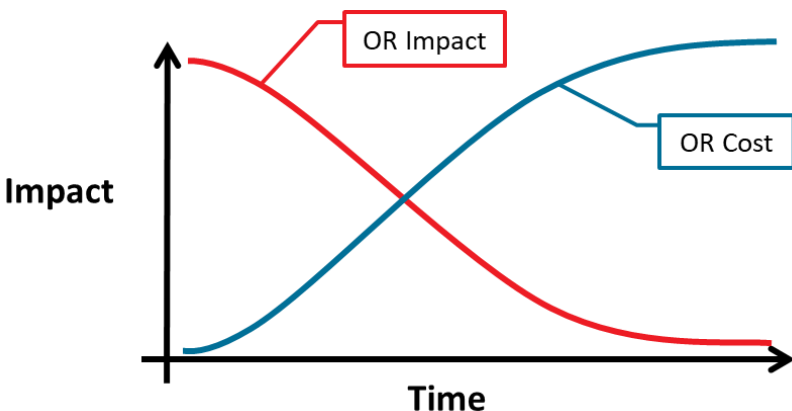
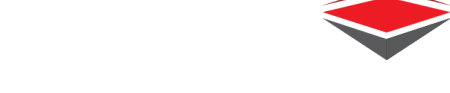
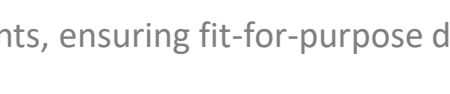
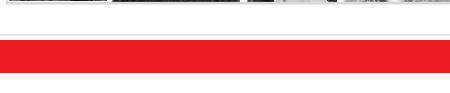


FIG 1: Kumba understands that the earlier OR is addressed in project study phases, the bigger the impact at the lowest cost. Leaving it too late will negatively impact your project timeline, handover to the owner and achieving of planned benefits with a high cost to fix.

PROJECT DESCRIPTION

To support the owners on various new and/or upgraded infrastructure development projects by ensuring that all processes, people and technology are integrated and prepared for ramp-up and sustainable post project completion in alignment with business requirements.

PROJECT OVERVIEW:

To support growth as well as stay-in-business projects to define all stakeholder requirements, ensuring fit-for-purpose designs and end-to-end integrated solutions with a defined and implemented OR project execution plan.

PROBLEM STATEMENT:

The client required a OR specialist to ensure operational stakeholder requirement design consideration and timeous OR activity execution.

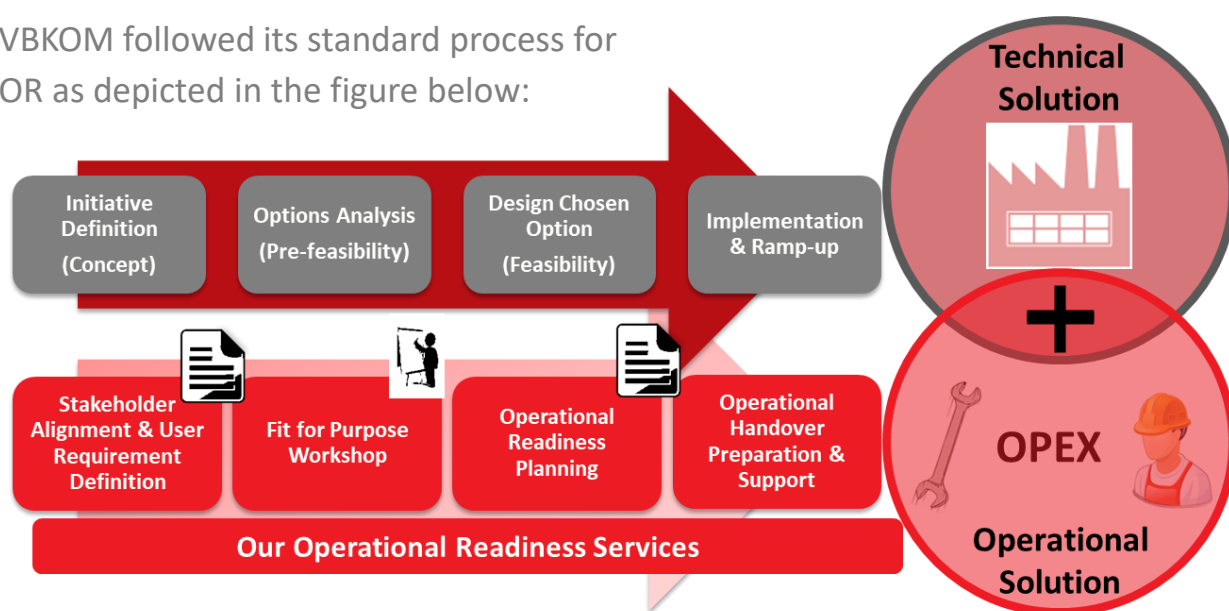
OBJECTIVES:

Ensure sustainable productive operation that:

- › Is functional.
- › Is operable.
- › Is maintainable.
- › Has capable, trained and motivated staff.
- › Delivers on business case targets.
- › Meets environmental and regulatory requirements.
- › Satisfies stakeholder expectations.
- › Is safe.

METHOD:

VBKOM followed its standard process for OR as depicted in the figure below:



CUSTOMER VALUE AND PROJECT RESULTS

Through VBKOM's OR support Kumba:

- › Integrated solutions between different projects and stakeholders.
- › Optimised ramp-up periods for projects with on-time operational implementation.
- › Easier project handover due to operational user buy-in.
- › Sustainable solutions that are practical to maintain and operate.
- › Updated maintenance and supply chain systems to maintain new systems.



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Typical Kumba Areas for Projects Completed

- › Fixed and modular plants
- › New mining area development
- › Primary to quaternary and in-pit crushing
- › Trolley assist / pantograph systems
- › Warehouses & distribution centre
- › HME and general workshops
- › Bus routes, mine entry and parking
- › Explosive facilities
- › Fire systems
- › Plant discard systems
- › Dispatch systems
- › Scada, simocode and PLC upgrades
- › Scrap yard
- › Heavy Mining Equipment (HME) filling stations
- › Diesel storage
- › Fatigue management systems
- › Caucus rooms
- › Laboratory sampling & analysis
- › Town resettlement
- › Waste tyre yards
- › Change house facilities
- › Storm and clean water systems
- › Tailing storage facilities
- › Waste water treatment works
- › Automatic plant sampling systems
- › Pump systems
- › Tripper cars and stockpiles
- › Feeders, conveyors, stackers, reclaimers and chutes
- › Load-out stations
- › Control and protection systems
- › Pollution control facilities
- › Dust management monitoring and management systems
- › LDV and HME segregation and separation
- › Radio communication
- › Flocculent dosing
- › Silt traps
- › Sample preparation facility
- › Overhead cranes
- › Barcoding system
- › Pedestrian walkways and car-parks/ports
- › Dewatering and recharge infrastructure
- › Personnel rehabilitation centres
- › On-boarding and health clinic facilities
- › Sewer systems
- › Helipads & airports
- › Office buildings

