

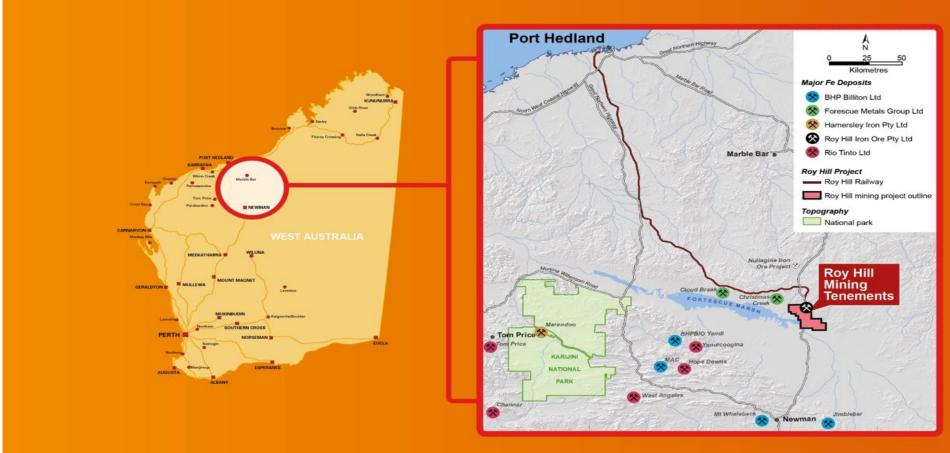
ROY HILL USE CASE : IBP IN AN MRO SETTING

Hari Lakkaraju – Manager Technology Projects & ERP Strategy

LEAD • CARE • THINK • PERFORM

Roy Hill : Overview



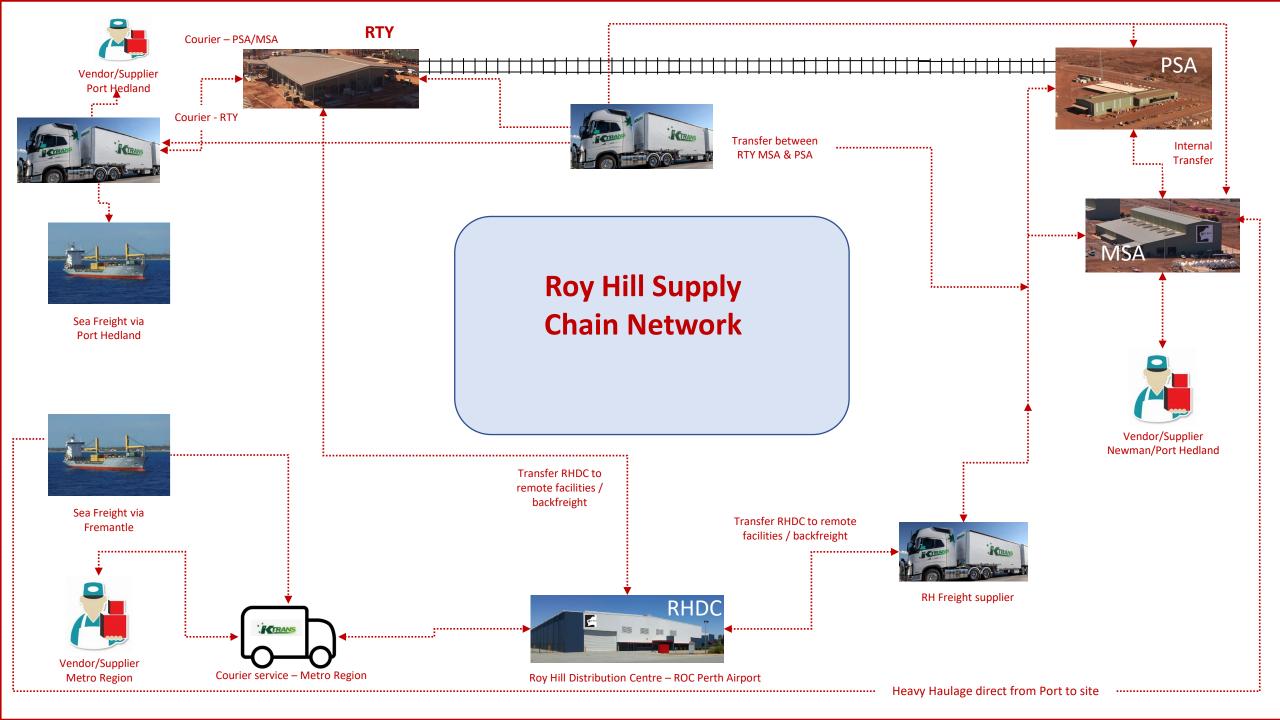


RH Railway Track distance (344 KM) : Madrid to Sevilla

ROC to Port Hedland distance (1600 KM): Madrid to Milan







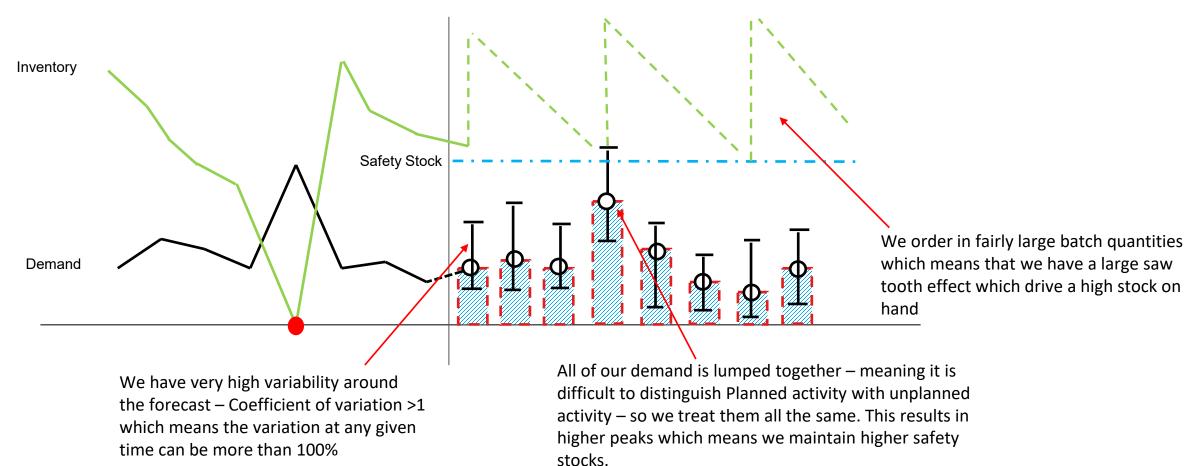




S.No	Торіс
1	Introduction : Roy Hill Overview
2	Supply Chain Network Model
3	Current Situation
4	IBP : Solution Approach
5	IBP : Results & Learnings
6	Ongoing Innovations : Rotables Pool Size Optimiser
7	IBP : Continuous Improvement and Next Steps

The base scenario assumes a traditional Min/ Max and Lot size approach, with a forecasted inventory using a 12 month historical view as the input for the simulation. By implication emergency stock levels are influenced by a mixture of planned and unplanned demand

ROY HILL



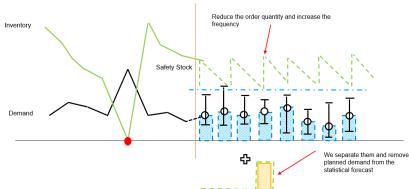
How did we get there? Our goal is to provide a path forward by moving 3 maturity phases



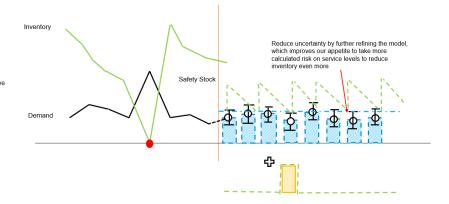
(Optimise Statistically on usage alone)

Possible today

Phase 1 – manage inventory as a buffer to operations and attempt to optimise based on statistical variation. Because variation is high the optimiser will force you to hold higher buffer inventories to deal with the high uncertainty Medium Term – reduce demand uncertainty (Separate Planned and Unplanned work)

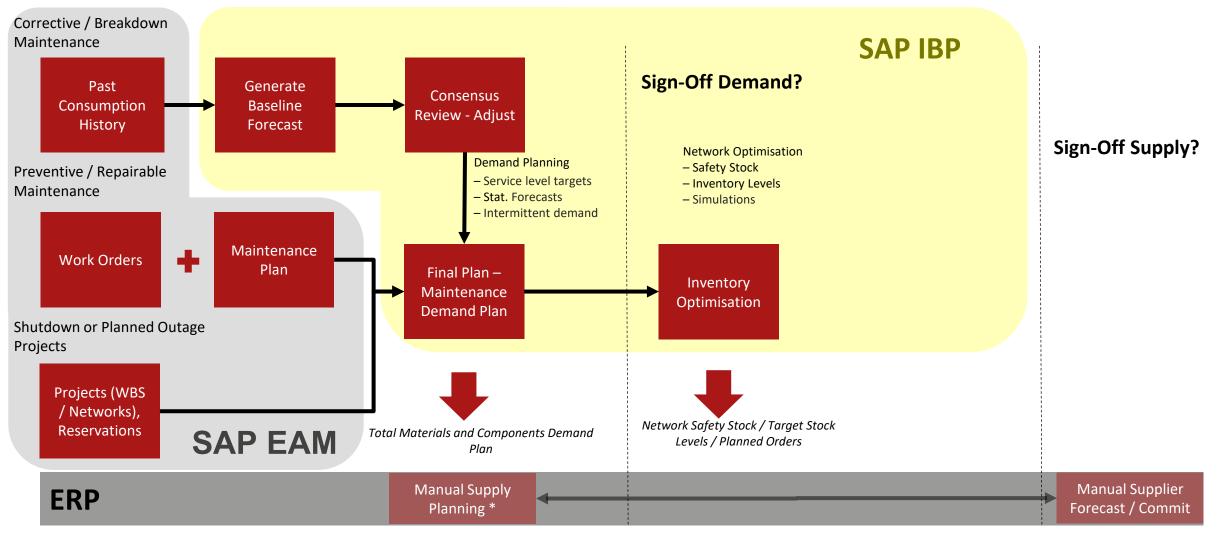


Phase 2 – manage inventory as a buffer to unplanned operations and rely on MRP to manage planned activity using an order planning method. This means you have less exposure to uncertainty as you can plan MRO materials for planned work and only carry working capital for the unplanned component Future – reduce supply uncertainty (Integrate with suppliers)



Phase 3 – Optimise total inventory base by reducing supply uncertainties. For the 3rd phase we would measure the actual lead times and variation and then seek to reduce them through supplier collaboration

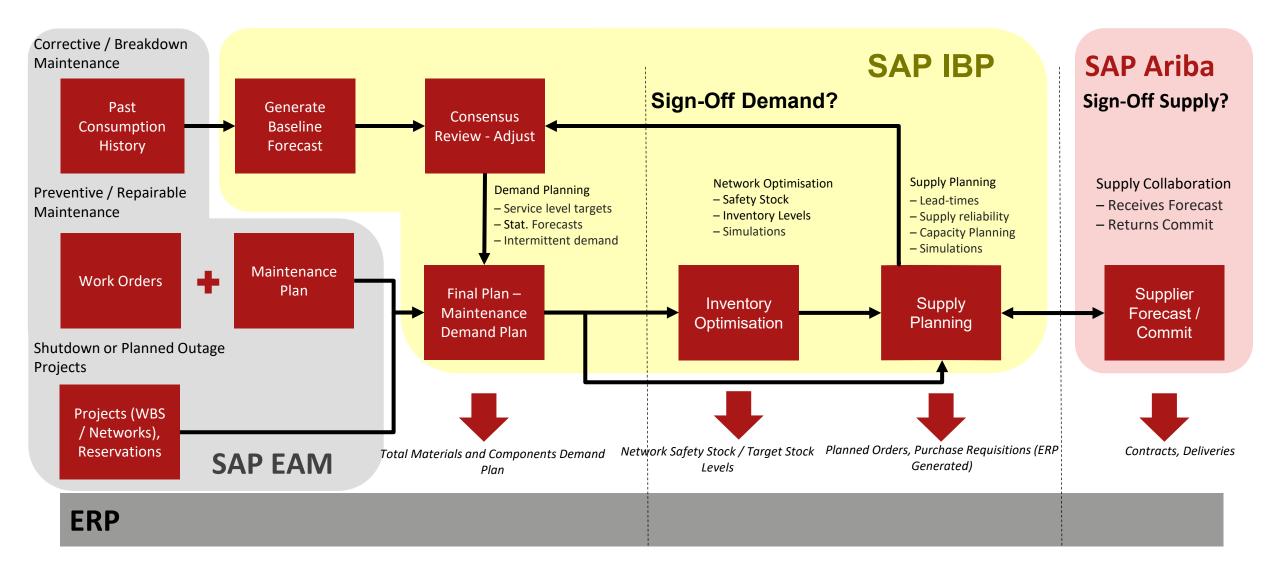
IBP : Solution



RON HILL

IBP : Future State





IBP : Value Proposition Realisation

Actioned

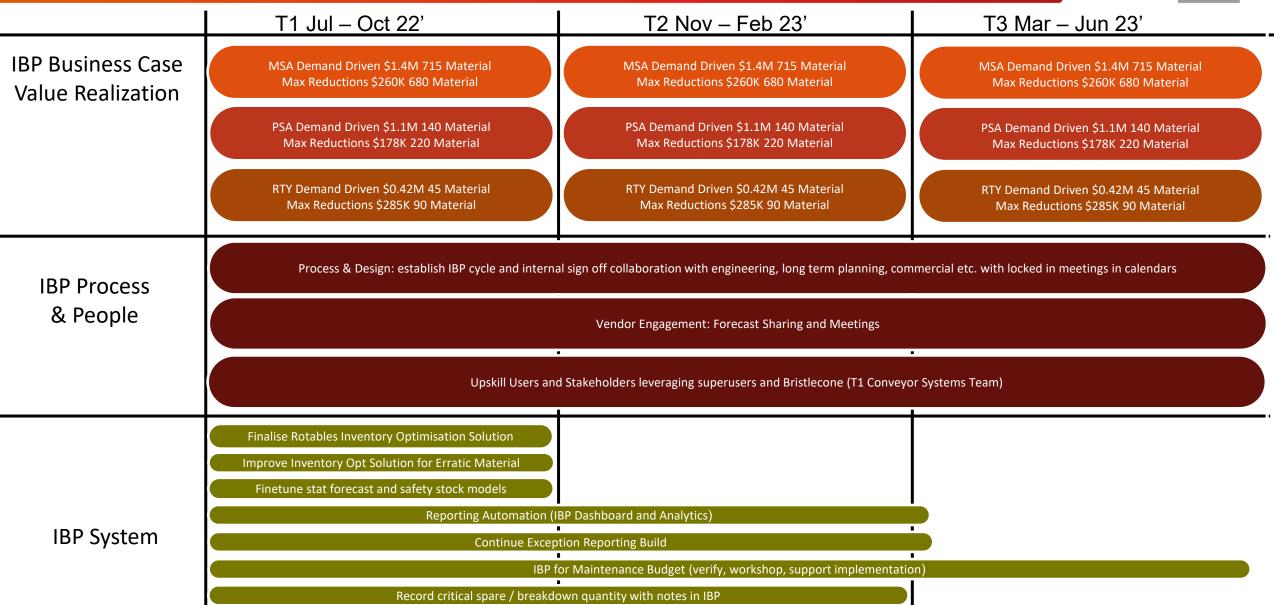


\$16.8M inventory optimisation identified since go live Sep-21 and \$5.5M reduced with \$3.2M bled

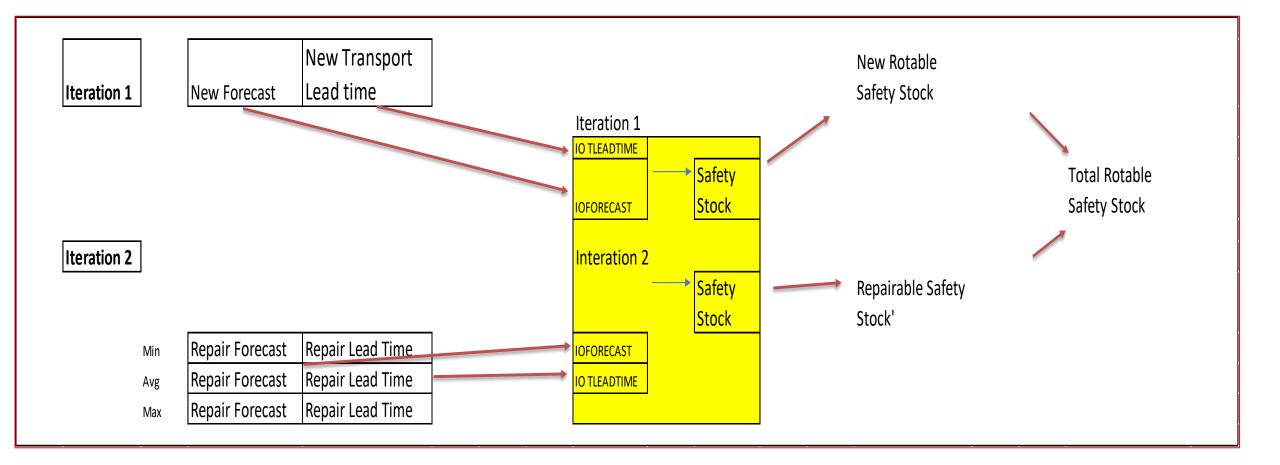


Continuous Improvement : IBP FY23 Delivery





Ongoing Innovations : Rotables – Pool Size Optimiser



ROY HILL

Other Benefits & Questions

Accuracy / Productivity

- Improved forecast accuracy of spares demand
- Phase In Phase Out Planning
- Demand based procurement of spares as per forecast rather than holding inventory
- Exception based plan management, leads to enhancement in productivity
- Use of statistical forecasting to improve Maintenance master data

Inventory Optimization

- Improved service levels by exception handling and right stocking
- Reduced obsolescence of inventory
- Improved inventory planning through product classification based on failure mode, frequency cost, criticality and variability
- Better visibility of rotables pool size
- Automation of MRP parameters, stocking strategy updates



Greater Visibility

- Inventory Projection Better visibility of inventory situation of spares
- Improved management level reporting through customized KPI tracking reports, dashboards & analytics
- Visibility of total demand of spares and nature of demand including WBS, PM05 & Cost centres.
- Improved visibility of warehouse storage requirements across months (in terms of amount of different spares to be stored)

Enhanced Collaboration

 Collaboration with external suppliers with possibility to share forecast

- What-if simulations to make better informed decision between spares, PM and asset management.
- Tighter integration with working capital requirement and maintenance cost budget through financial impact analysis of proposed plans





Thank You for the Opportunity!