# Problem Statement Worksheet

**Maintenance Cost is too high and is affecting the bottomline due to commodity prices going down.**

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## 1 Context

**We are working on this problem to protect company profitability from future downward ore pricing shifts.Due to multiple companies expanding their mining operations the price of iron ore has gone down from $110/ton to around $55/ton with our break even point at $50/ton our expenditure is too close for comfort. In 2018 the we spent $30M on ore crusher maintenance and projected to be $40M in 2019 year.**

## 2 Criteria for success

**Identify costly inefficiencies in maintenance plan from the maintenance data logs.**

## 3 Scope of solution space

**The scope of the solution is in developing a data driven maintenance schedule and maximizes the life of the equipment.**

## 4 Constraints within solution space

**Resistance from the reliability engineering team, Cutting the OEM recommended OEM imit of one maintenance event at every 50,000 tons of iron ore processed.**

## 5 Stakeholders to provide key insight

**Chanel Adams – Reliability Engineer, Jonas Richards – Asset Integrity Manager, Bruce Banner Maintenance SME, Jane Steere - Principal Maintenance, Fargo Williams – Change Manager, Tara Starr - Maintenance SME**

## 6 Key data sources

**Data Historian, Ellipse, SAP, T3000 DCS, Ore Crusher System,**

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