

30%

Malfunctioning Sensors \$5.1
Billion EBITDA

800

Trucks currently in use

630

Thousand tonnes lost capacity

Fuel Consumption



Efficiency



Time







1,200km

Huge Range

96%

Accurate Predictions

```
01 Preprocessing
            class SelfTuned
      scale pos wolght :1
```

02 Point in Time



Point in Time

Identifying instantaneous probability of carry back



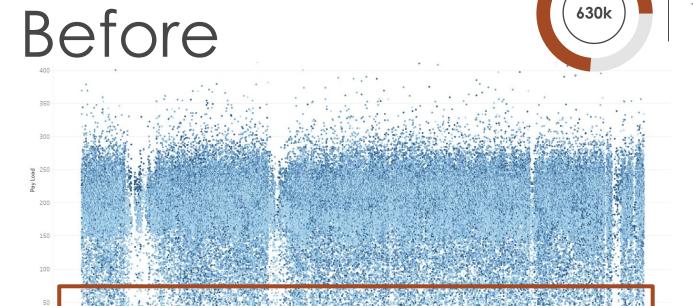
03 **Aggregate**



Sliding Window







Hour of Datetime [2017]

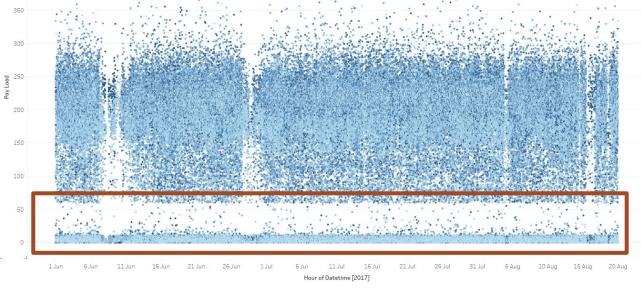
Tonnage Lost Capacity

January - August 2017 Site 2



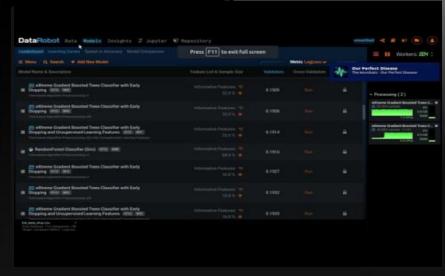


Identified Carry Back



January - August 2017 Site 2







HQ Feedback

Direct implementation into HQ systems



Using Existing Sensors

No new sensor installations needed, works with existing infrastructure





Real Results

High degree of accuracy in a huge network of vehicles



Ready Already

Prepared for integration into Rio Tinto's network



THANK YOU





