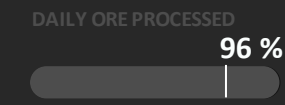
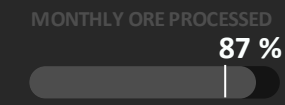
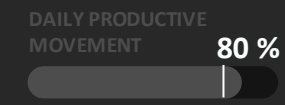
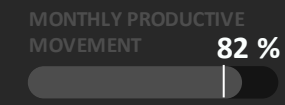


Mine Performance



Month to Date | Week to Date | **Today** | Week Forecast | Month Forecast

9:54 AM Monday 17th November 2014

Mine 1

<p>DAYS REMAINING 25</p> <p>BLAST PVP 73%</p>	<p>METERS</p> <p>THROUGHPUT</p> <p>PERFORMANCE</p> <p>EXPLOSIVES</p> <p>DOWNTIME</p>	<p>DIG RATE 3580tph</p> <p>UTILISATION 91%</p>	<p>LOST TONNES</p> <p>TONNES</p> <p>PERFORMANCE</p> <p>DOWNTIME</p>	<p>TRUCK PVP 73%</p> <p>UTILISATION 95%</p>	<p>LOST TONNES</p> <p>TONNES</p> <p>PERFORMANCE</p> <p>DOWNTIME</p>	<p>OHP PVP 50%</p> <p>THROUGHPUT 1600tph</p>	<p>LOST TONNES</p> <p>TONNES</p> <p>PERFORMANCE</p> <p>DOWNTIME</p>	<p>PERCENTAGE FULL 87%</p> <p>TONNES 1375kt</p>	<p>FINES VS. LUMP</p> <p>QUALITY</p> <p>SAMPLING</p>

Mine 2

<p>DAYS REMAINING 25</p> <p>BLAST PVP 73%</p>	<p>METERS</p> <p>THROUGHPUT</p> <p>PERFORMANCE</p> <p>EXPLOSIVES</p> <p>DOWNTIME</p>	<p>DIG RATE 1575tph</p> <p>UTILISATION 42%</p>	<p>LOST TONNES</p> <p>TONNES</p> <p>PERFORMANCE</p> <p>DOWNTIME</p>	<p>TRUCK PVP 73%</p> <p>UTILISATION 95%</p>	<p>LOST TONNES</p> <p>TONNES</p> <p>PERFORMANCE</p> <p>DOWNTIME</p>	<p>OHP PVP 81%</p> <p>THROUGHPUT 3800tph</p>	<p>LOST TONNES</p> <p>TONNES</p> <p>PERFORMANCE</p> <p>DOWNTIME</p>	<p>PERCENTAGE FULL 50%</p> <p>TONNES 750kt</p>	<p>FINES VS. LUMP</p> <p>QUALITY</p> <p>SAMPLING</p>

Mine 3

<p>DAYS REMAINING 25</p> <p>BLAST PVP 73%</p>	<p>METERS</p> <p>THROUGHPUT</p> <p>PERFORMANCE</p> <p>EXPLOSIVES</p> <p>DOWNTIME</p>	<p>DIG RATE 1575tph</p> <p>UTILISATION 42%</p>	<p>LOST TONNES</p> <p>TONNES</p> <p>PERFORMANCE</p> <p>DOWNTIME</p>	<p>TRUCK PVP 73%</p> <p>UTILISATION 95%</p>	<p>LOST TONNES</p> <p>TONNES</p> <p>PERFORMANCE</p> <p>DOWNTIME</p>	<p>OHP PVP 81%</p> <p>THROUGHPUT 3800tph</p>	<p>LOST TONNES</p> <p>TONNES</p> <p>PERFORMANCE</p> <p>DOWNTIME</p>	<p>PERCENTAGE FULL 50%</p> <p>TONNES 750kt</p>	<p>FINES VS. LUMP</p> <p>QUALITY</p> <p>SAMPLING</p>

Mine 4

<p>DAYS REMAINING 25</p> <p>BLAST PVP 73%</p>	<p>METERS</p> <p>THROUGHPUT</p> <p>PERFORMANCE</p> <p>EXPLOSIVES</p> <p>DOWNTIME</p>	<p>DIG RATE 1575tph</p> <p>UTILISATION 42%</p>	<p>LOST TONNES</p> <p>TONNES</p> <p>PERFORMANCE</p> <p>DOWNTIME</p>	<p>TRUCK PVP 73%</p> <p>UTILISATION 95%</p>	<p>LOST TONNES</p> <p>TONNES</p> <p>PERFORMANCE</p> <p>DOWNTIME</p>	<p>OHP PVP 81%</p> <p>THROUGHPUT 3800tph</p>	<p>LOST TONNES</p> <p>TONNES</p> <p>PERFORMANCE</p> <p>DOWNTIME</p>	<p>PERCENTAGE FULL 50%</p> <p>TONNES 750kt</p>	<p>FINES VS. LUMP</p> <p>QUALITY</p> <p>SAMPLING</p>

Mine 5

<p>DAYS REMAINING 25</p> <p>BLAST PVP 73%</p>	<p>METERS</p> <p>THROUGHPUT</p> <p>PERFORMANCE</p> <p>EXPLOSIVES</p> <p>DOWNTIME</p>	<p>DIG RATE 1575tph</p> <p>UTILISATION 42%</p>	<p>LOST TONNES</p> <p>TONNES</p> <p>PERFORMANCE</p> <p>DOWNTIME</p>	<p>TRUCK PVP 73%</p> <p>UTILISATION 95%</p>	<p>LOST TONNES</p> <p>TONNES</p> <p>PERFORMANCE</p> <p>DOWNTIME</p>	<p>OHP PVP 81%</p> <p>THROUGHPUT 3800tph</p>	<p>LOST TONNES</p> <p>TONNES</p> <p>PERFORMANCE</p> <p>DOWNTIME</p>	<p>PERCENTAGE FULL 50%</p> <p>TONNES 750kt</p>	<p>FINES VS. LUMP</p> <p>QUALITY</p> <p>SAMPLING</p>

Safety

Lost Time Injury	6
Recordable Injury	8
Serious Bodily Injury	0

User Comments

Exceeded target despite Mine 2 Crusher Downtime

Mine | Posted by Paul Smith | 20:44

Upcoming Planned Maintenance at Mine 3

Mine | Posted by Paul Smith | 19:32

Choke Feeding Mine 1 Digger 1

Mine | Posted by Paul Smith | 17:44

Stock build at Mine being choke fed

Mine | Posted by Paul Smith | 18:34

Mine 4 Crusher Record Day at 256kt

Mine | Posted by Paul Smith | 18:34

Mine 1 Digger breakdown affective ability to load Ore

Mine | Posted by Paul Smith | 18:34

Information Updates

	OPERATIONS	10 mins
	ERP	2 mins
	SAFETY	3 hours late

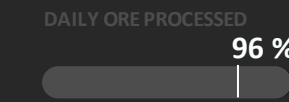
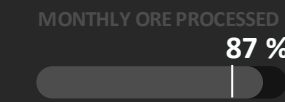
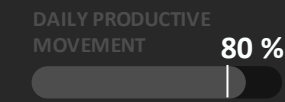
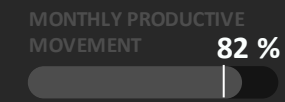
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Mine Performance

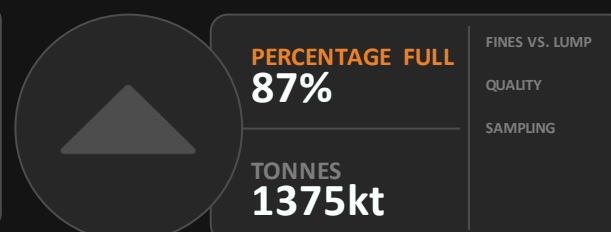
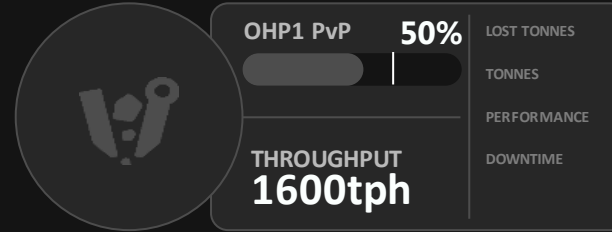
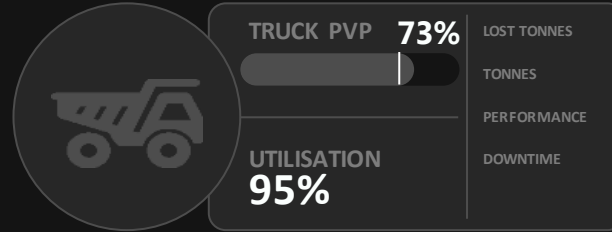
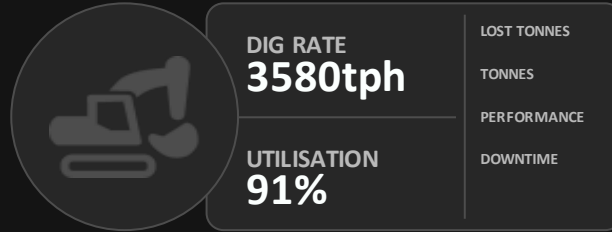
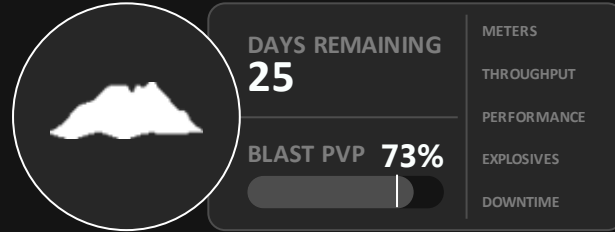


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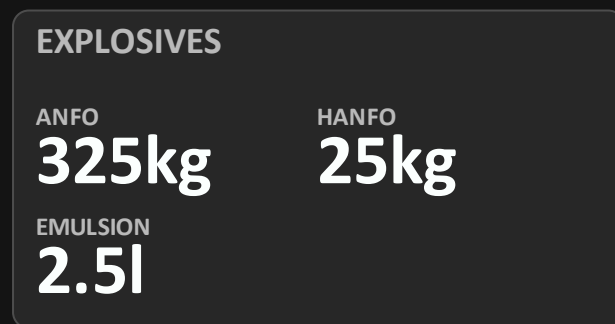
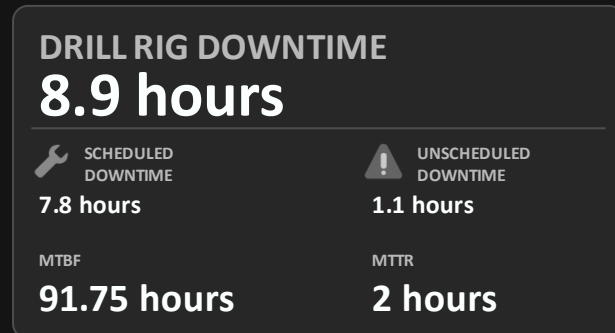
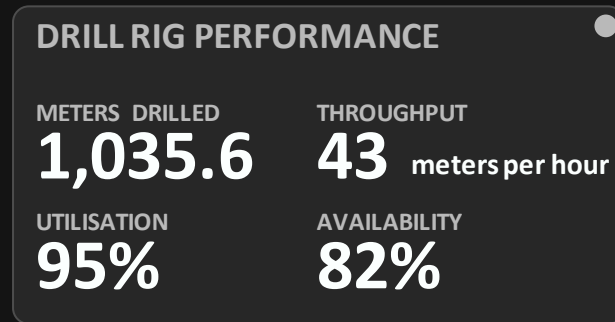
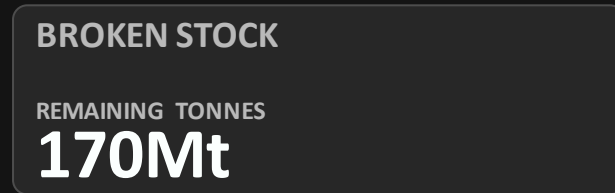
Month to Date | Week to Date | **Today** | Week Forecast | Month Forecast

9:54 AM Monday 17th November 2014

Mine 1



Mine 2



Mine 4

JOE BLOGGS
Manager

Mine 5

Safety

Lost Time Injury	6
Recordable Injury	8
Serious Bodily Injury	0

User Comments

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Information Updates

OPERATIONS	10 mins
ERP	2 mins
SAFETY	3 hours late

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Mine Performance

MONTHLY PRODUCTIVE MOVEMENT **82 %**

DAILY PRODUCTIVE MOVEMENT **80 %**

MONTHLY ORE PROCESSED **87 %**

DAILY ORE PROCESSED **96 %**

Deloitte.

Month to Date | Week to Date | **Today** | Week Forecast | Month Forecast

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Mine 1

DAYS REMAINING
25

BLAST PVP **73%**

METERS THROUGHPUT PERFORMANCE EXPLOSIVES DOWNTIME

DIG RATE
3580tph

UTILISATION
91%

LOST TONNES TONNES PERFORMANCE DOWNTIME

TRUCK PVP **73%**

UTILISATION
95%

LOST TONNES TONNES PERFORMANCE DOWNTIME

OHP1 Pvp **50%**

THROUGHPUT
1600tph

LOST TONNES TONNES PERFORMANCE DOWNTIME

PERCENTAGE FULL
87%

TONNES
1375kt

FINES VS. LUMP QUALITY SAMPLING

Mine 2

BROKEN STOCK

REMAINING TONNES
170Mt

DRILL RIG PERFORMANCE

METERS DRILLED **1,035.6** THROUGHPUT **43** meters per hour

UTILISATION **95%** AVAILABILITY **82%**

DRILL RIG DOWNTIME
8.9 hours

SCHEDULED DOWNTIME **7.8 hours** UNSCHEDULED DOWNTIME **1.1 hours**

MTBF **91.75 hours** MTTR **2 hours**

Mine 3

Mine 4

Mine 5

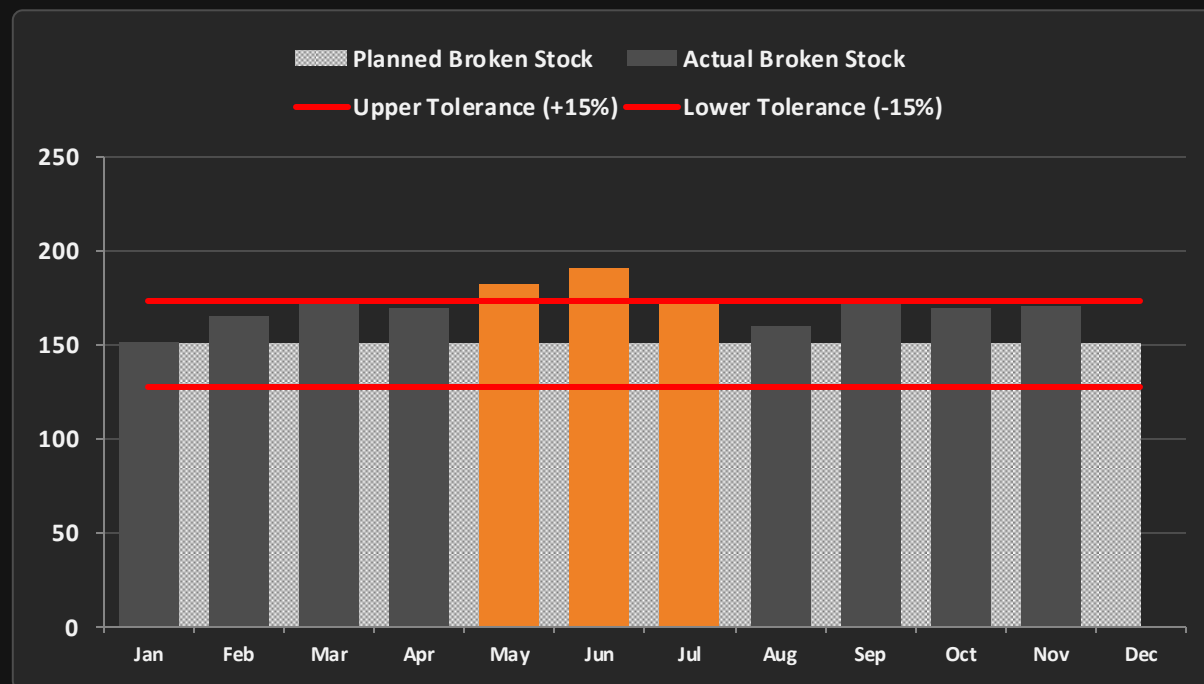
EXPLOSIVES

ANFO **325kg** HANFO **25kg**

EMULSION **2.5l**

JOE BLOGGS
Manager

YTD BROKEN STOCK TOLERANCE



OTHER POTENTIAL METRICS

- DAYS REMAINING
- BROKEN STOCK BY LOCATION / AREA / GRADE PROFILE
- ANNUALISED TONNES
- LOST OPPORTUNITY TO DRILLING DUE TO AVAILABILITY, UTILISATION AND RATE

Safety

Lost Time Injury	6
Recordable Injury	8
Serious Bodily Injury	0

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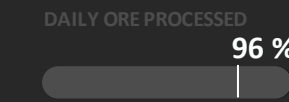
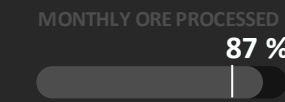
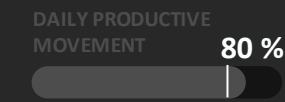
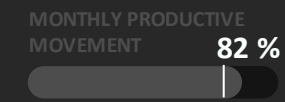
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Mine Performance

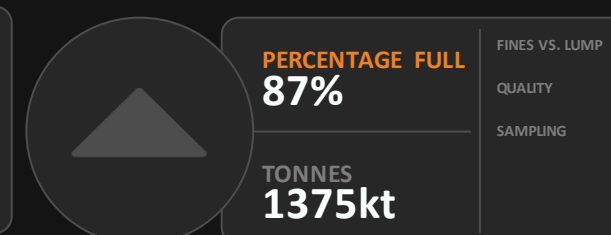
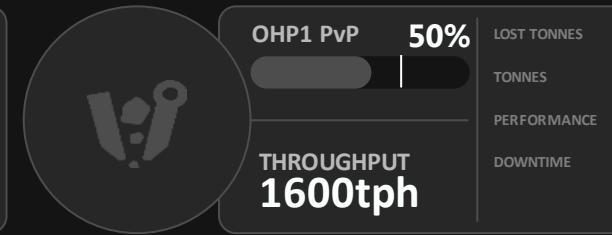
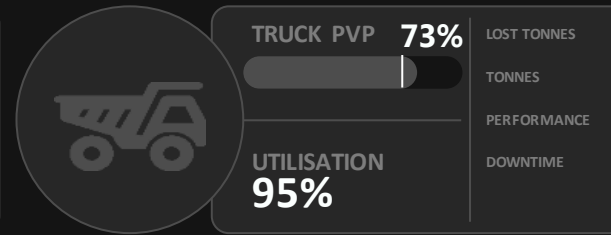
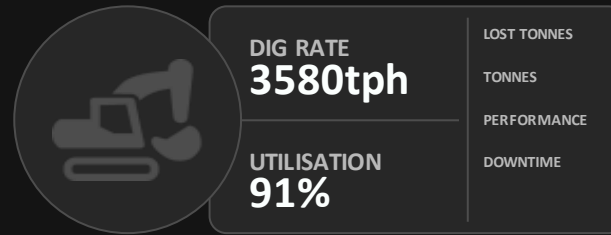


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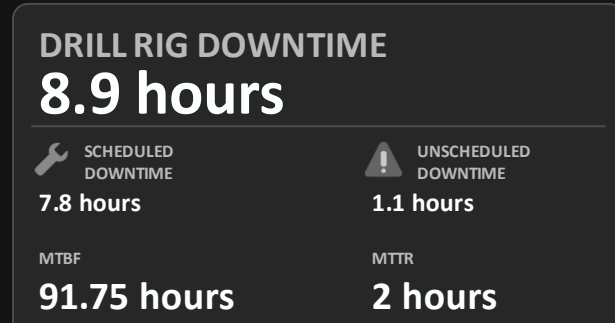
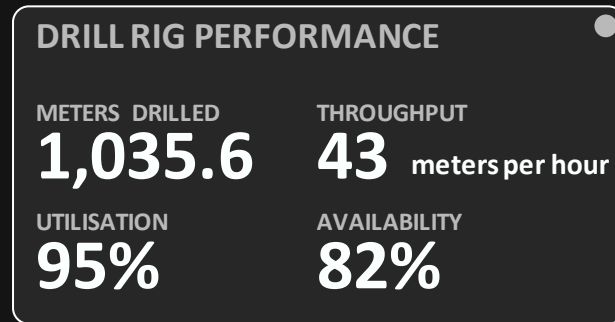
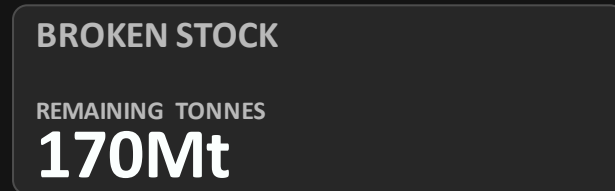
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Mine 1



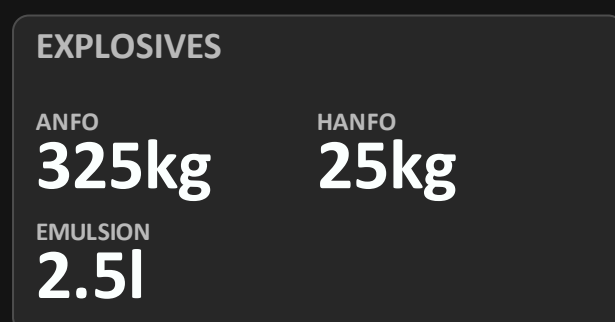
Mine 2



Mine 3

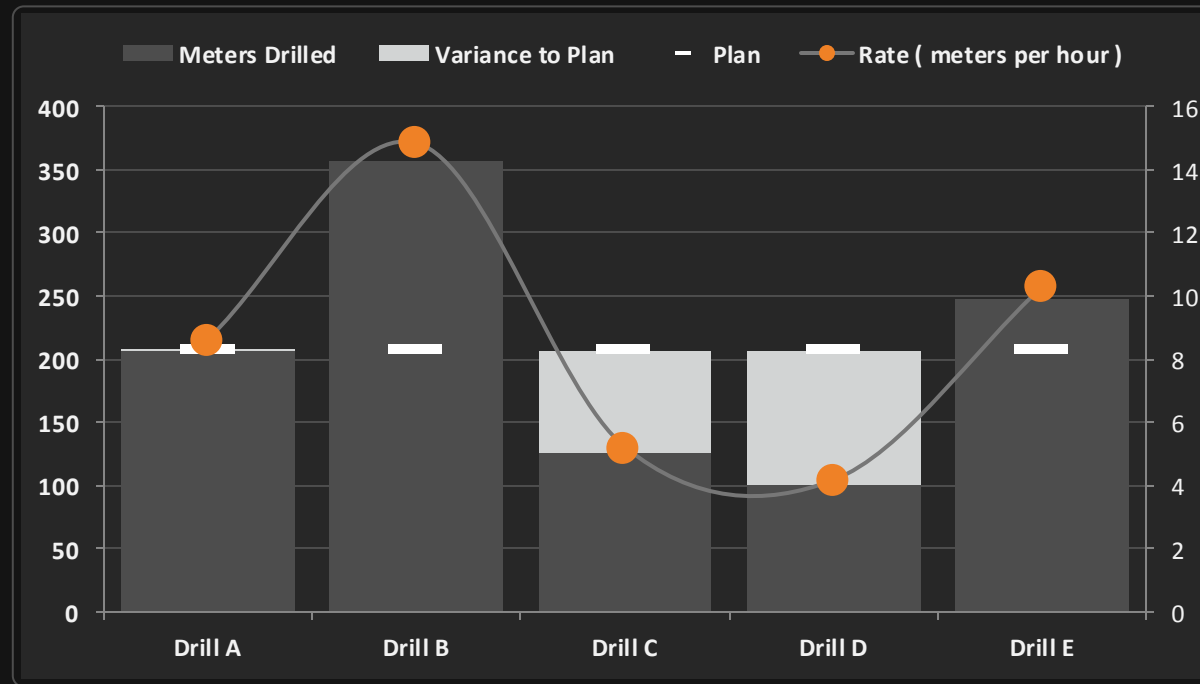
Mine 4

Mine 5

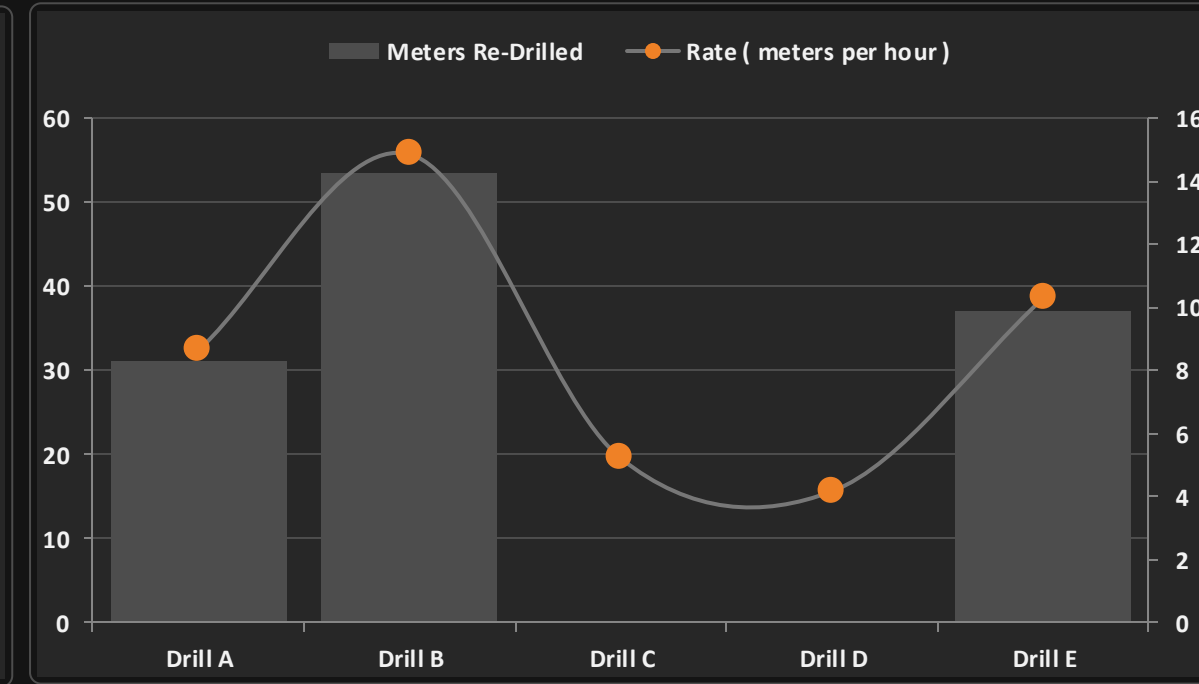


JOE BLOGGS
Manager

DRILL RIGS > METERS DRILLED



DRILL RIGS > METERS RE-DRILLED



OTHER POTENTIAL METRICS

- FRAGMENTATION QUALITY
- OVERDRILL %
- DRILL HOLE ACCURACY

Safety

Lost Time Injury	6
Recordable Injury	8
Serious Bodily Injury	0

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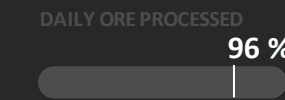
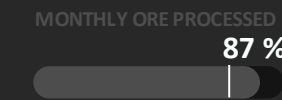
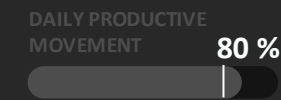
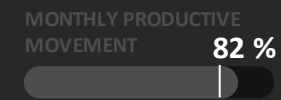
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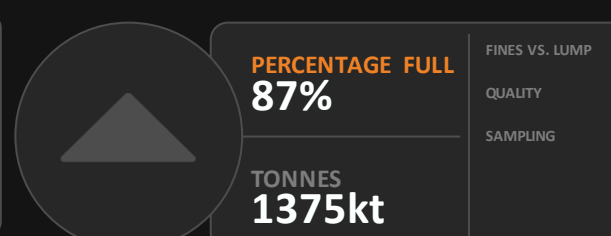
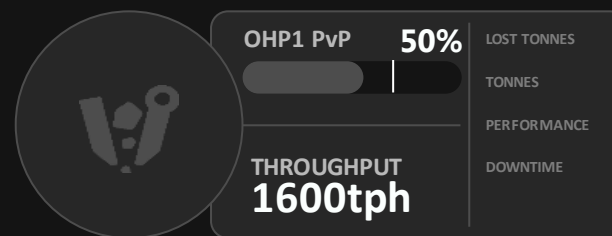
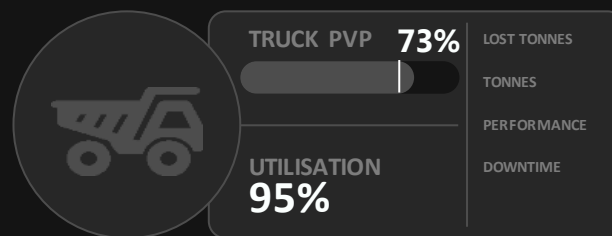
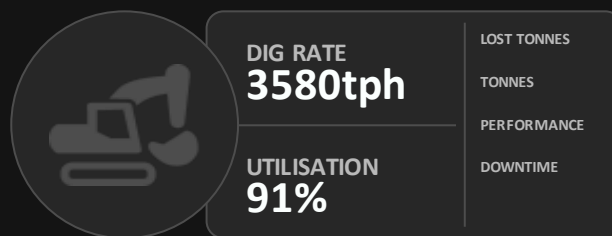
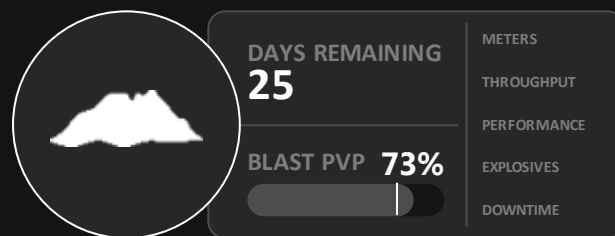
Mine Performance



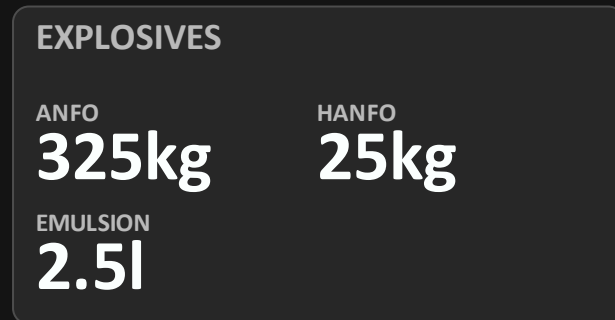
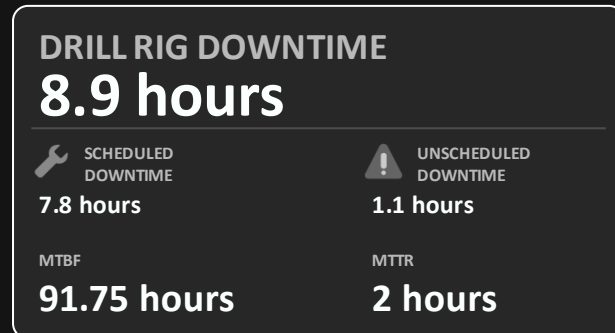
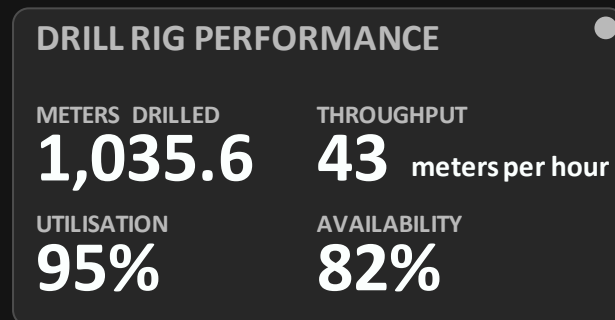
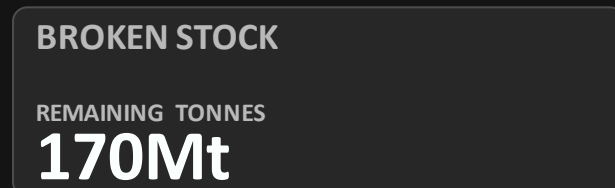
Month to Date | Week to Date | **Today** | Week Forecast | Month Forecast

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Mine 1



Mine 2



Mine 3

Mine 4

Mine 5

JOE BLOGGS
Manager

Phone, Email, Online status icons

POTENTIAL METRICS

- PROCESS / EQUIPMENT DOWNTIME
- SCHEDULED / UNSCHEDULED DOWNTIME
- MECHANICAL / ELECTRICAL DOWNTIME
- MEAN TIME BETWEEN FAILURE
- MEAN TIME TO REPAIR
- OPERATOR AVAILABILITY

Safety

Lost Time Injury	6
Recordable Injury	8
Serious Bodily Injury	0

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Deloitte.

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UTILISATION
91%

LOST TONNES TONNES PERFORMANCE DOWNTIME

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LOST TONNES TONNES PERFORMANCE DOWNTIME

OHP1 Pvp **50%**

THROUGHPUT
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LOST TONNES TONNES PERFORMANCE DOWNTIME

PERCENTAGE FULL
87%

TONNES
1375kt

FINES VS. LUMP QUALITY SAMPLING

Mine 2

BROKEN STOCK

REMAINING TONNES
170Mt

DRILL RIG PERFORMANCE

METERS DRILLED
1,035.6

THROUGHPUT
43 meters per hour

UTILISATION
95%

AVAILABILITY
82%

DRILL RIG DOWNTIME
8.9 hours

SCHEDULED DOWNTIME
7.8 hours

UNSCHEDULED DOWNTIME
1.1 hours

MTBF
91.75 hours

MTTR
2 hours

Mine 3

Mine 4

Mine 5

EXPLOSIVES

ANFO
325kg

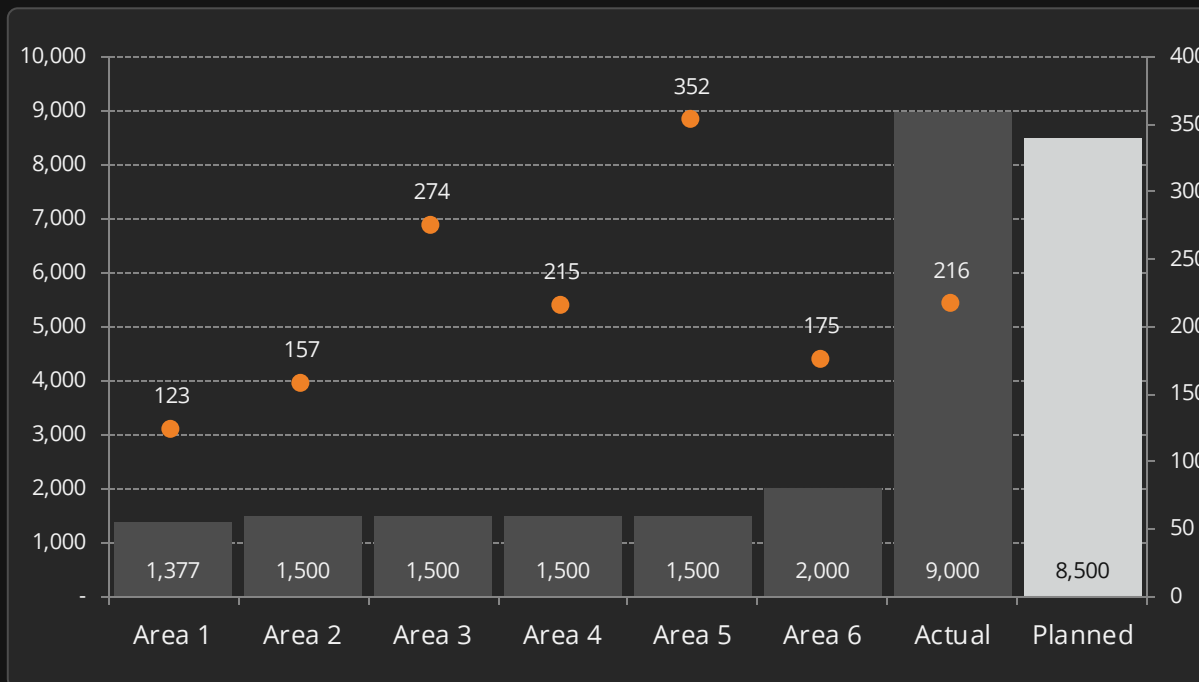
HANFO
25kg

EMULSION
2.5l

JOE BLOGGS
Manager

Phone, Email, Online status icons

EXPLOSIVES AND BCM TONNES BLASTED BY AREA LAST 7 DAYS



OTHER POTENTIAL METRICS

- FIRED vs. MISFIRED HOLES
- POTENTIAL MISFIRE %
- WET HOLES %
- REDRILL %
- DIPPED HOLES %
- PIT FLOOR QUALITY
- EXPLOSIVE LOAD RATE (HOLES / HOUR)

Safety

Lost Time Injury	6
Recordable Injury	8
Serious Bodily Injury	0

User Comments

Exceeded target despite Mine 2 Crusher Downtime

Mine | Posted by Paul Smith | 20:44

Upcoming Planned Maintenance at Mine 3

Mine | Posted by Paul Smith | 19:32

Choke Feeding Mine 1 Digger 1

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Mine 4 Crusher Record Day at 256kt

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Information Updates

	OPERATIONS	10 mins
	ERP	2 mins
	SAFETY	3 hours late

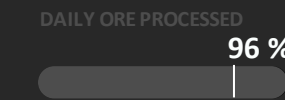
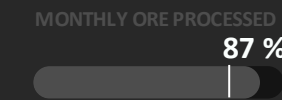
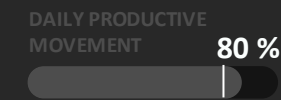
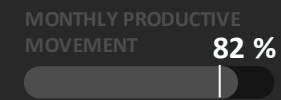
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Mine Performance



Month to Date | Week to Date | **Today** | Week Forecast | Month Forecast

9:54 AM | Monday 17th November 2014

Mine 1

DAYS REMAINING
25

BLAST PVP **73%**

METERS
THROUGHPUT
PERFORMANCE
EXPLOSIVES
DOWNTIME

DIG RATE
3580tph

UTILISATION **91%**

LOST TONNES
TONNES
PERFORMANCE
DOWNTIME

TRUCK PVP **73%**

UTILISATION **95%**

LOST TONNES
TONNES
PERFORMANCE
DOWNTIME

OHP1 PVP **50%**

THROUGHPUT **1600tph**

LOST TONNES
TONNES
PERFORMANCE
DOWNTIME

PERCENTAGE FULL
87%

TONNES **1375kt**

FINES VS. LUMP
QUALITY
SAMPLING

Mine 2

DIGGER
LOST TONNES **1324t**

LAST 30 DAYS

TONNES
ORE **96.2kt** WASTE **6.6kt**

PERFORMANCE

HANG TIME **12min** OEE **82%**

PERFORMANCE **102%** AVAILABILITY **81%**

DRILL RIG DOWNTIME
8.9 hours

SCHEDULED DOWNTIME **7.8 hours** UNSCHEDULED DOWNTIME **1.1 hours**

MTBF **91.75 hours** MTR **2 hours**

NEXT SCHEDULED MAINTENANCE
05:02:35:00 - Digger A

PLANNED MAINTENANCE DURATION
5 hours

JOE BLOGGS
Manager

Phone, Email, Online status icons

Mine 3

Mine 4

Mine 5

Safety

Lost Time Injury	6
Recordable Injury	8
Serious Bodily Injury	0

User Comments

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Information Updates

OPERATIONS	10 mins
ERP	2 mins
SAFETY	3 hours late

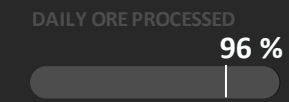
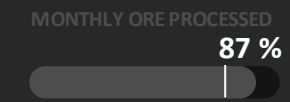
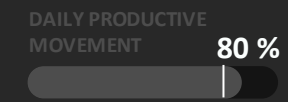
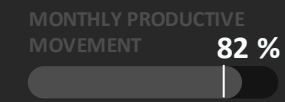
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Mine Performance



Month to Date | Week to Date | **Today** | Week Forecast | Month Forecast

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Mine 1

DAYS REMAINING
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PERFORMANCE
EXPLOSIVES
DOWNTIME

DIG RATE
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UTILISATION
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LOST TONNES
TONNES
PERFORMANCE
DOWNTIME

TRUCK PVP **73%**

UTILISATION
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LOST TONNES
TONNES
PERFORMANCE
DOWNTIME

OHP1 Pvp **50%**

THROUGHPUT
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TONNES
PERFORMANCE
DOWNTIME

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FINES VS. LUMP
QUALITY
SAMPLING

Mine 2

DIGGER
LOST TONNES **1324t**

LAST 30 DAYS

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ORE WASTE

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NEXT SCHEDULED MAINTENANCE
05:02:35:00 - Digger A

PLANNED MAINTENANCE DURATION
5 hours

JOE BLOGGS
Manager

Phone, Email, Online status icons

POTENTIAL METRICS

- LOST TONNES DUE TO AVAILABILITY
- LOST TONNES DUE TO UTILISATION
- LOST TONNES DUE TO RATE
- LOST TONNES BY INDIVIDUAL EQUIPMENT

Mine 3

Mine 4

Mine 5

Safety

Lost Time Injury	6
Recordable Injury	8
Serious Bodily Injury	0

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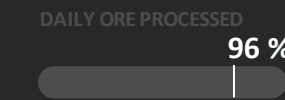
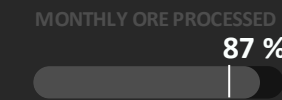
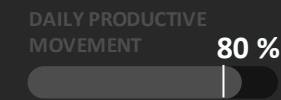
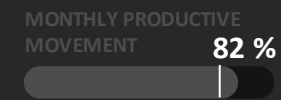
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Mine Performance



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PERFORMANCE
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FINES VS. LUMP
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SAMPLING

Mine 2

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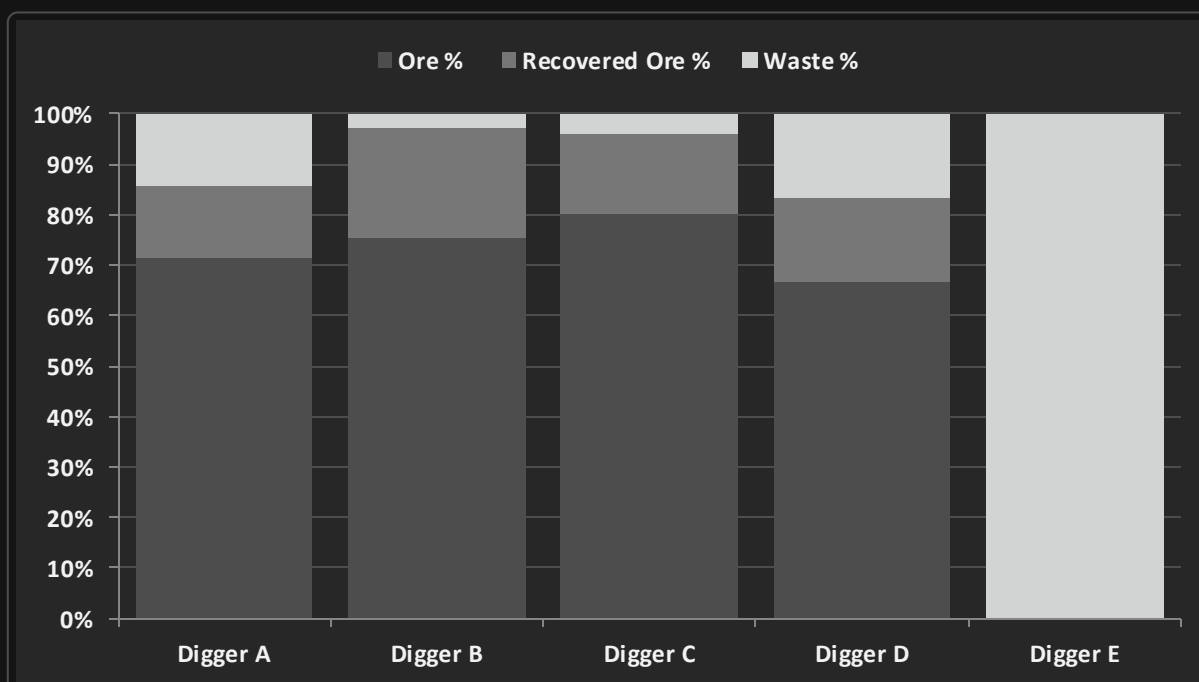
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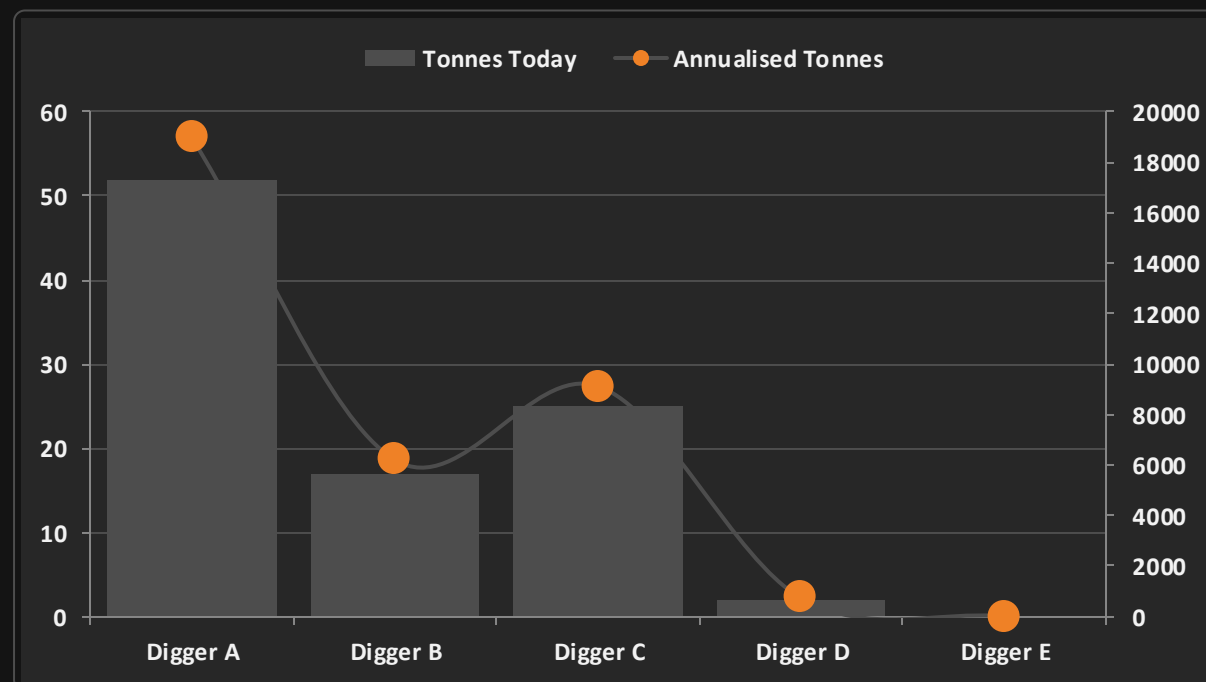
JOE BLOGGS
Manager

Mine 3

DIGGER – ORE vs WASTE INDICATOR



DIGGER – ANNUALISED TONNES



Mine 4

OTHER POTENTIAL METRICS

- DIGGERS PVP
- ANNUALISED PRODUCTION HOURS
- PERFORMANCE OF DIGGER BY OPERATOR

Mine 5

Safety

Lost Time Injury	6
Recordable Injury	8
Serious Bodily Injury	0

User Comments

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Information Updates

OPERATIONS	10 mins
ERP	2 mins
SAFETY	3 hours late

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Mine Performance

MONTHLY PRODUCTIVE MOVEMENT **82%**

DAILY PRODUCTIVE MOVEMENT **80%**

MONTHLY ORE PROCESSED **87%**

DAILY ORE PROCESSED **96%**

Deloitte

Month to Date | Week to Date | **Today** | Week Forecast | Month Forecast

9:54 AM Monday 17th November 2014

Mine 1

DAYS REMAINING
25

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METERS
THROUGHPUT
PERFORMANCE
EXPLOSIVES
DOWNTIME

DIG RATE
3580tph

UTILISATION
91%

LOST TONNES
TONNES
PERFORMANCE
DOWNTIME

TRUCK PVP **73%**

UTILISATION
95%

LOST TONNES
TONNES
PERFORMANCE
DOWNTIME

OHP1 Pvp **50%**

THROUGHPUT
1600tph

LOST TONNES
TONNES
PERFORMANCE
DOWNTIME

PERCENTAGE FULL
87%

TONNES
1375kt

FINES VS. LUMP
QUALITY
SAMPLING

Mine 2

DIGGER
LOST TONNES
1324t

LAST 30 DAYS

TONNES
ORE **96.2kt** WASTE **6.6kt**

PERFORMANCE

HANG TIME **12min** OEE **82%**

PERFORMANCE **102%** AVAILABILITY **81%**

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8.9 hours

SCHEDULED DOWNTIME **7.8 hours** UNSCHEDULED DOWNTIME **1.1 hours**

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NEXT SCHEDULED MAINTENANCE
05:02:35:00 - Digger A

PLANNED MAINTENANCE DURATION
5 hours

JOE BLOGGS
Manager

Phone, Email, Online status icons

Mine 3

DIGGER HANGTIME (DURATION > 1 MINUTE)

Digger A	0	3	9	2	2	3	1	4	7	2	5	9	8	4	8	1	7	0	0	6	8	1	9	3
Digger B	2	9	8	5	10	0	4	2	0	5	7	9	4	10	10	4	9	9	6	12	3	2	7	6
Digger C	2	6	8	4	1	1	5	8	2	7	9	1	8	1	1	1	9	4	5	4	5	12	3	0
Digger D	4	4	6	9	5	9	7	5	5	6	2	0	9	7	1	12	6	11	9	0	7	8	4	2
Digger E	11	6	10	4	11	12	10	9	1	10	0	9	10	5	9	1	12	8	11	2	6	1	12	3
	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5

Mine 4

OTHER POTENTIAL METRICS

- DIGGER HANGTIME
- DIGGER TRAMMING (HOURS LOST DUE TO RELOCATION)
- AVERAGE SWING TIME
- LEVEL OF CLEANUP REQUIRED DUE TO SPILLAGE (DOZER HOURS)
- TRUCK FILL FACTOR %

Mine 5

Safety

Lost Time Injury	6
Recordable Injury	8
Serious Bodily Injury	0

User Comments

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Information Updates

OPERATIONS	10 mins
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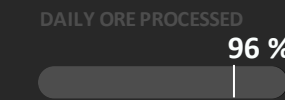
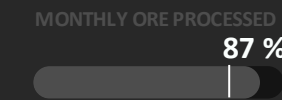
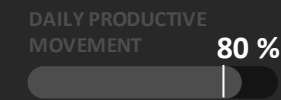
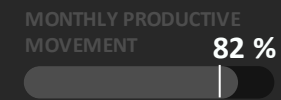
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Mine Performance



Month to Date | Week to Date | **Today** | Week Forecast | Month Forecast

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Mine 1

DAYS REMAINING
25

BLAST PVP **73%**

METERS
THROUGHPUT
PERFORMANCE
EXPLOSIVES
DOWNTIME

DIG RATE
3580tph

UTILISATION
91%

LOST TONNES
TONNES
PERFORMANCE
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TRUCK PVP **73%**

UTILISATION
95%

LOST TONNES
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PERFORMANCE
DOWNTIME

OHP1 Pvp **50%**

THROUGHPUT
1600tph

LOST TONNES
TONNES
PERFORMANCE
DOWNTIME

PERCENTAGE FULL
87%

TONNES
1375kt

FINES VS. LUMP
QUALITY
SAMPLING

Mine 2

DIGGER
LOST TONNES **1324t**

LAST 30 DAYS

TONNES
96.2kt **6.6kt**

ORE WASTE

PERFORMANCE

HANG TIME **12min** OEE **82%**

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DRILL RIG DOWNTIME
8.9 hours

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MTBF **91.75 hours** MTR **2 hours**

NEXT SCHEDULED MAINTENANCE
05:02:35:00 - Digger A

PLANNED MAINTENANCE DURATION
5 hours

JOE BLOGGS
Manager

Phone, Email, Online status icons

POTENTIAL METRICS

- PROCESS / EQUIPMENT DOWNTIME
- SCHEDULED / UNSCHEDULED DOWNTIME
- MECHANICAL / ELECTRICAL DOWNTIME
- MEAN TIME BETWEEN FAILURE
- MEAN TIME TO REPAIR
- MEAN TIME BETWEEN STOPPAGES
- TIME TO FIRST LOAD

Mine 3

Mine 4

Mine 5

Safety

Lost Time Injury	6
Recordable Injury	8
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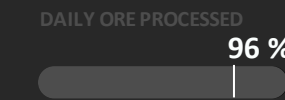
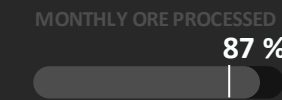
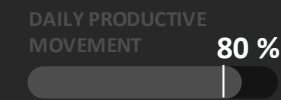
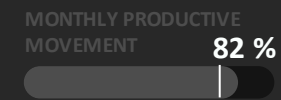
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Deloitte.

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FINES VS. LUMP
QUALITY
SAMPLING

Mine 2

TRUCKS
LOST TONNES **158t**

LAST 30 DAYS

TONNES
PRODUCTIVE MOVEMENT **125.2kt**
REHANDLE **25.6kt**

PERFORMANCE

DIGGER QUEUE TIME **31min**
AVERAGE PAYLOAD **82%**

PERFORMANCE **102%**
AVAILABILITY **81%**

ENGINE HOURS **6144hrs**

DOWNTIME
396 hours

SCHEDULED DOWNTIME **84 hours**
UNSURED DOWNTIME **312 hours**

MTBF **95 hours**
MTTR **4.5 hours**

FLEET
IN USE **136 / 154**
AVERAGE FLEET AGE **12**
REPAIR **51k hours**
STANDBY **6**

JOE BLOGGS
Manager

Phone, Email, Online status icons

Mine 3

Mine 4

Mine 5

Safety

Lost Time Injury	6
Recordable Injury	8
Serious Bodily Injury	0

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Mine Performance

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Mine 4

FLEET

TOTAL
154

IN USE
136

AVERAGE FLEET AGE
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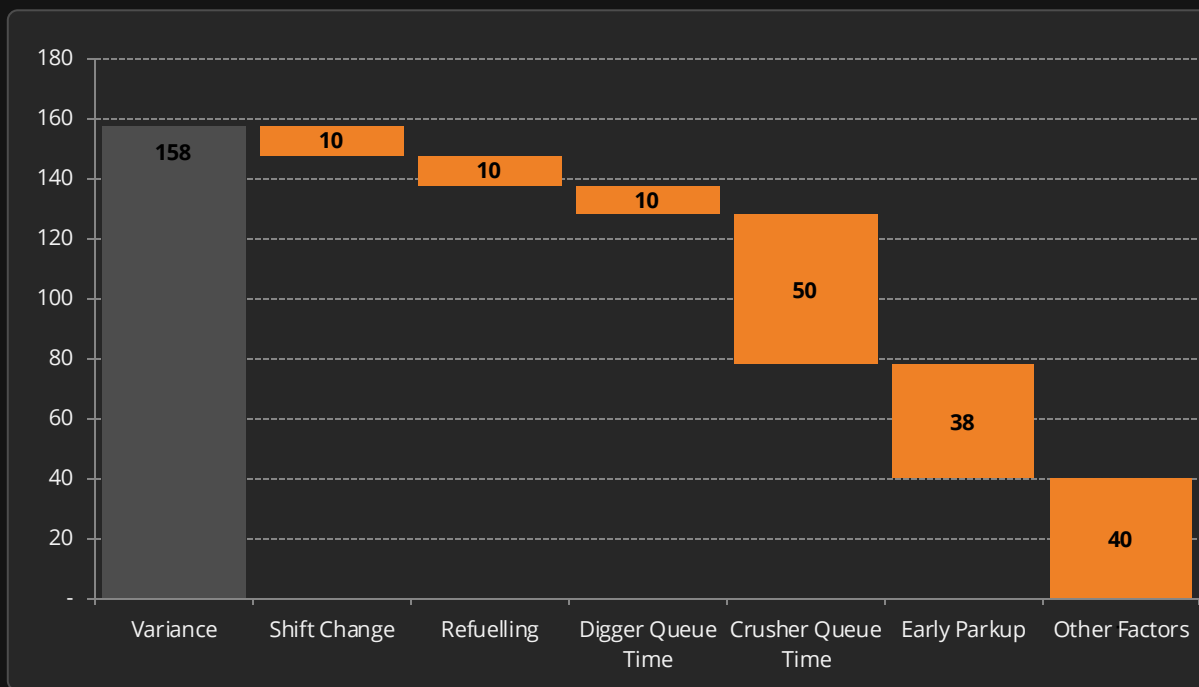
REPAIR
12

STANDBY
6

Mine 5

JOE BLOGGS
Manager

LOST TONNES DUE TO INEFFICIENT ORE CYCLE MANAGEMENT



OTHER POTENTIAL METRICS

- DIGGERS PVP
- ANNUALISED PRODUCTION HOURS

Safety

Lost Time Injury	6
Recordable Injury	8
Serious Bodily Injury	0

User Comments

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Mine | Posted by Paul Smith | 18:34

Information Updates

OPERATIONS	10 mins
ERP	2 mins
SAFETY	3 hours late

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Mine Performance

MONTHLY PRODUCTIVE MOVEMENT **82 %**

DAILY PRODUCTIVE MOVEMENT **80 %**

MONTHLY ORE PROCESSED **87 %**

DAILY ORE PROCESSED **96 %**

Deloitte.

Month to Date | Week to Date | **Today** | Week Forecast | Month Forecast

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Mine 1

DAYS REMAINING
25

BLAST PVP **73%**

METERS
THROUGHPUT
PERFORMANCE
EXPLOSIVES
DOWNTIME

DIG RATE
3580tph

UTILISATION
91%

LOST TONNES
TONNES
PERFORMANCE
DOWNTIME

TRUCK PVP **73%**

UTILISATION
95%

LOST TONNES
TONNES
PERFORMANCE
DOWNTIME

OHP1 Pvp **50%**

THROUGHPUT
1600tph

LOST TONNES
TONNES
PERFORMANCE
DOWNTIME

PERCENTAGE FULL
87%

TONNES
1375kt

FINES VS. LUMP
QUALITY
SAMPLING

Mine 2

TRUCKS
LOST TONNES
158t

LAST 30 DAYS

TONNES
PRODUCTIVE MOVEMENT
125.2kt

REHANDLE
25.6kt

PERFORMANCE

DIGGER QUEUE TIME
31min

AVERAGE PAYLOAD
82%

PERFORMANCE
102%

AVAILABILITY
81%

ENGINE HOURS
6144hrs

Mine 3

DOWNTIME
396 hours

SCHEDULED DOWNTIME
84 hours

UNSCHEDULED DOWNTIME
312 hours

MTBF
95 hours

MTTR
4.5 hours

Mine 4

FLEET
TOTAL
154

IN USE
136

AVERAGE FLEET AGE
REPAIR
12

STANDBY
6

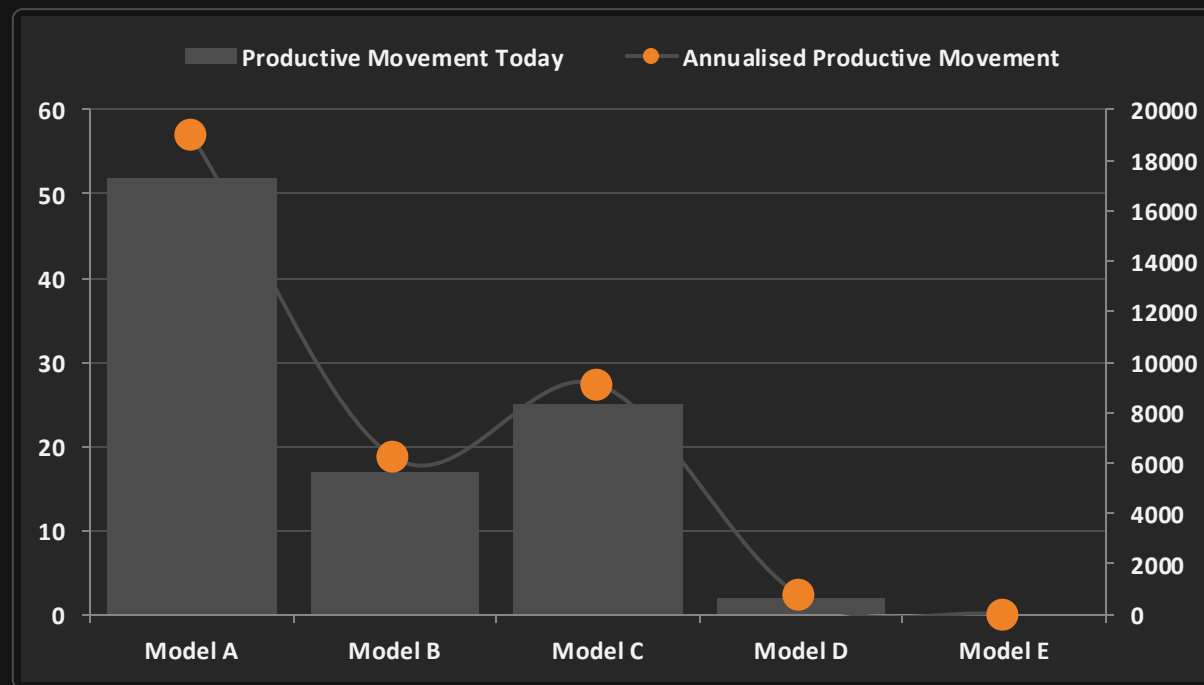
51k hours

Mine 5

JOE BLOGGS
Manager

Phone, Email, Online status icons

TRUCKS > ANNUALISED PRODUCTIVE MOVEMENT



TRUCKS > ORE vs. WASTE INDICATOR



OTHER POTENTIAL METRICS

- PRODUCTIVE MOVEMENT
- ORE / WASTE / REHANDLE
- TOTAL MOVEMENT
- TONNES KM / DAY

Safety

Lost Time Injury	6
Recordable Injury	8
Serious Bodily Injury	0

User Comments

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Information Updates

- OPERATIONS 10 mins
- ERP 2 mins
- SAFETY 3 hours late

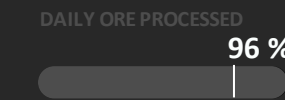
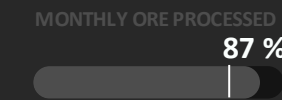
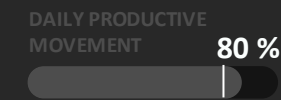
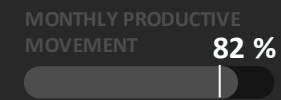
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Mine Performance



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METERS
THROUGHPUT
PERFORMANCE
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DOWNTIME

DIG RATE
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LOST TONNES
TONNES
PERFORMANCE
DOWNTIME

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TONNES
PERFORMANCE
DOWNTIME

OHP1 PVP **50%**

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LOST TONNES
TONNES
PERFORMANCE
DOWNTIME

PERCENTAGE FULL
87%

TONNES **1375kt**

FINES VS. LUMP
QUALITY
SAMPLING

Mine 2

TRUCKS
LOST TONNES **158t**

LAST 30 DAYS

TONNES
PRODUCTIVE MOVEMENT **125.2kt**

REHANDLE **25.6kt**

PERFORMANCE

DIGGER QUEUE TIME **31min**

AVERAGE PAYLOAD **82%**

PERFORMANCE **102%**

AVAILABILITY **81%**

ENGINE HOURS **6144hrs**

POTENTIAL METRICS

- QUEUE TIME
- ROM WAIT FEED
- STOPPED %
- AVERAGE PAYLOAD %

Mine 3

Mine 4

Mine 5

DOWNTIME
396 hours

SCHEDULED DOWNTIME **84 hours**

UNSCHEDULED DOWNTIME **312 hours**

MTBF **95 hours**

MTTR **4.5 hours**

FLEET
TOTAL **154**

IN USE **136**

AVERAGE FLEET AGE **12**

REPAIR **12**

STANDBY **6**

JOE BLOGGS
Manager

Phone, Email, Online status icons

Safety

Lost Time Injury	6
Recordable Injury	8
Serious Bodily Injury	0

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OPERATIONS	10 mins
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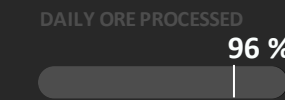
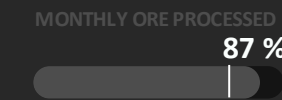
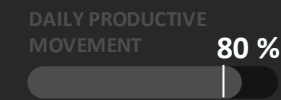
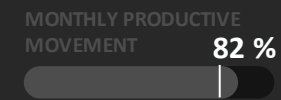
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Mine Performance



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Mine 1

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METERS
THROUGHPUT
PERFORMANCE
EXPLOSIVES
DOWNTIME

DIG RATE
3580tph

UTILISATION **91%**

LOST TONNES
TONNES
PERFORMANCE
DOWNTIME

TRUCK PVP **73%**

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LOST TONNES
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PERFORMANCE
DOWNTIME

OHP1 PVP **50%**

THROUGHPUT **1600tph**

LOST TONNES
TONNES
PERFORMANCE
DOWNTIME

PERCENTAGE FULL
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TONNES **1375kt**

FINES VS. LUMP
QUALITY
SAMPLING

Mine 2

TRUCKS
LOST TONNES **158t**

LAST 30 DAYS

TONNES
PRODUCTIVE MOVEMENT **125.2kt**

REHANDLE **25.6kt**

PERFORMANCE

DIGGER QUEUE TIME **31min**

AVERAGE PAYLOAD **82%**

PERFORMANCE **102%**

AVAILABILITY **81%**

ENGINE HOURS **6144hrs**

Mine 3

POTENTIAL METRICS

- PROCESS / EQUIPMENT DOWNTIME
- SCHEDULED / UNSCHEDULED DOWNTIME
- MECHANICAL / ELECTRICAL DOWNTIME
- MEAN TIME BETWEEN FAILURE
- MEAN TIME TO REPAIR
- MEAN TIME BETWEEN STOPPAGES
- INTEGRITY % (QUANTIFY EFFECTS OF UNSCHEDULED LOSSES)

Mine 4

DOWNTIME
396 hours

SCHEDULED DOWNTIME **84 hours**

UNSURED DOWNTIME **312 hours**

MTBF **95 hours**

MTTR **4.5 hours**

Mine 5

FLEET
TOTAL **154**

IN USE **136**

AVERAGE FLEET AGE **12**

REPAIR **12**

STANDBY **6**

JOE BLOGGS
Manager

Safety

Lost Time Injury	6
Recordable Injury	8
Serious Bodily Injury	0

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	OPERATIONS	10 mins
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Mine Performance

MONTHLY PRODUCTIVE MOVEMENT **82 %**

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Deloitte.

Month to Date

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25

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EXPLOSIVES
DOWNTIME

DIG RATE
3580tph

UTILISATION
91%

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TONNES
PERFORMANCE
DOWNTIME

OHP1 Pvp **50%**

THROUGHPUT
1600tph

LOST TONNES
TONNES
PERFORMANCE
DOWNTIME

PERCENTAGE FULL
87%

TONNES
1375kt

FINES VS. LUMP
QUALITY
SAMPLING

Mine 2

OHP SUMMARY

LOST TONNES **125t**

OHP STATUS **191kt @ 4500tph**

LAST 30 DAYS

TONNES

FINES **125kt** LUMP **66kt** FINES VS LUMP **65.4 %**

PERFORMANCE

AVAILABILITY **82%** UTILISATION **87%**

OEE **91%** PERFORMANCE **101%**

DOWNTIME
4.3 hours

SCHEDULED DOWNTIME **2.0 hours**

UNSURED DOWNTIME **2.3 hours**

MTBF **95 hours** MTTR **4.5 hours**

Mine 3

Mine 4

Mine 5

JOE BLOGGS
Manager

Phone, Email, Online status icons

Safety

Lost Time Injury	6
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Mine 3

Mine 4

Mine 5

DOWNTIME
4.3 hours

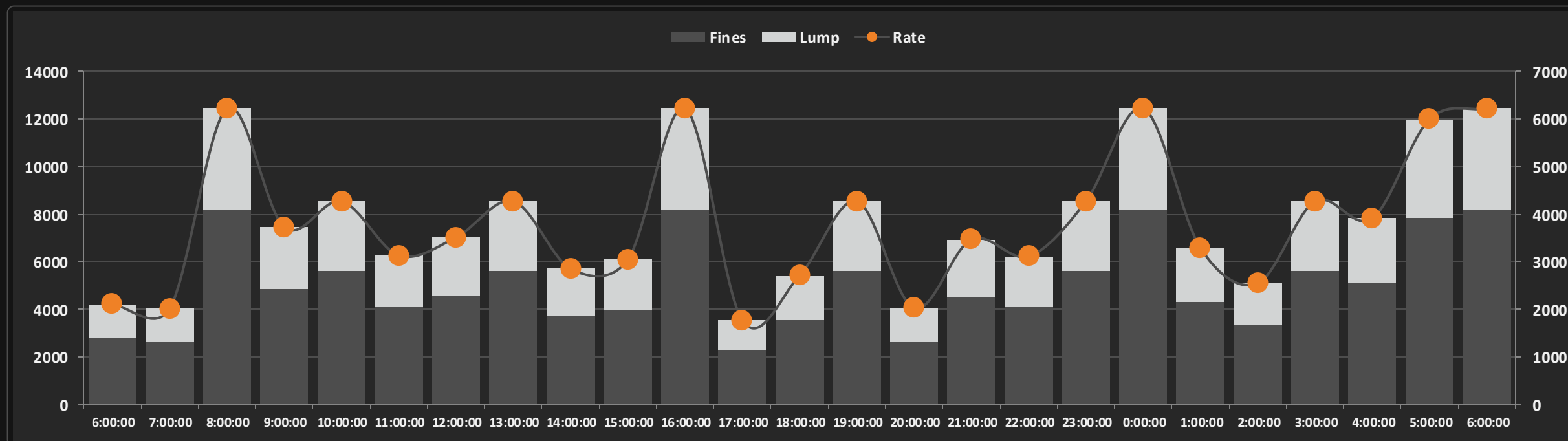
SCHEDULED DOWNTIME **2.0 hours** UNSCHEDULED DOWNTIME **2.3 hours**

MTBF **95 hours** MTTR **4.5 hours**

JOE BLOGGS
Manager

Phone, Email, Online status icons

OHP > ORE PROCESSING



OTHER POTENTIAL METRICS

Placeholder for other potential metrics.

Safety

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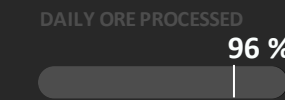
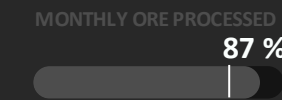
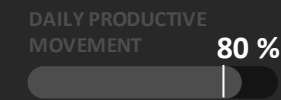
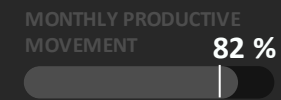
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Mine Performance



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MTBF **95 hours** MTTR **4.5 hours**

Mine 3

Mine 4

Mine 5

JOE BLOGGS
Manager

Phone, Email, Online status icons

POTENTIAL METRICS

- THROUGHPUT RATE
- SCHEDULE COMPLIANCE

Safety

Lost Time Injury	6
Recordable Injury	8
Serious Bodily Injury	0

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MTBF **95 hours** MTTR **4.5 hours**

Mine 4

Mine 5

JOE BLOGGS
Manager

Phone, Email, Online status icons

TOTAL DOWNTIME

- PROCESS / EQUIPMENT DOWNTIME
- SCHEDULED / UNSCHEDULED DOWNTIME
- MECHANICAL / ELECTRICAL DOWNTIME
- MEAN TIME BETWEEN FAILURE
- MEAN TIME TO REPAIR
- MEAN TIME BETWEEN STOPPAGES
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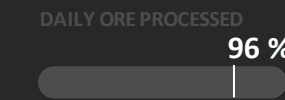
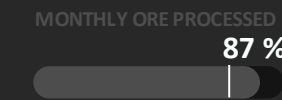
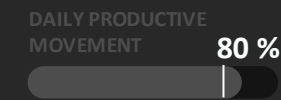
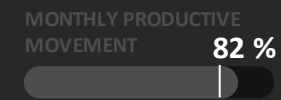
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PERCENTAGE FULL
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TONNES
1375kt

FINES VS. LUMP
QUALITY
SAMPLING

Mine 2

SUMMARY

TOTAL TONNES **1375kt** LAST 30 DAYS

LIVE **565kt** DEAD **810kt** DORMANT **0kt**

LIVE FINES **370kt** LIVE LUMP **195kt**

QUALITY & SAMPLING OFF-SPEC

%FE **63.6%** %P **0.1%** %SIO2 **6.1%** %S **0.1%**

Mine 3

Mine 4

Mine 5

JOE BLOGGS
Manager

Safety

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Deloitte

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PERFORMANCE
EXPLOSIVES
DOWNTIME

DIG RATE
3580tph

UTILISATION
91%

LOST TONNES
TONNES
PERFORMANCE
DOWNTIME

TRUCK PVP **73%**

UTILISATION
95%

LOST TONNES
TONNES
PERFORMANCE
DOWNTIME

OHP1 Pvp **50%**

THROUGHPUT
1600tph

LOST TONNES
TONNES
PERFORMANCE
DOWNTIME

PERCENTAGE FULL
87%

TONNES
1375kt

FINES VS. LUMP
QUALITY
SAMPLING

Mine 2

SUMMARY

TOTAL TONNES
1375kt

LAST 30 DAYS

LIVE **565kt** **DEAD** **810kt** **DORMANT** **0kt**

LIVE FINES **370kt** **LIVE LUMP** **195kt**

QUALITY & SAMPLING **OFF-SPEC**

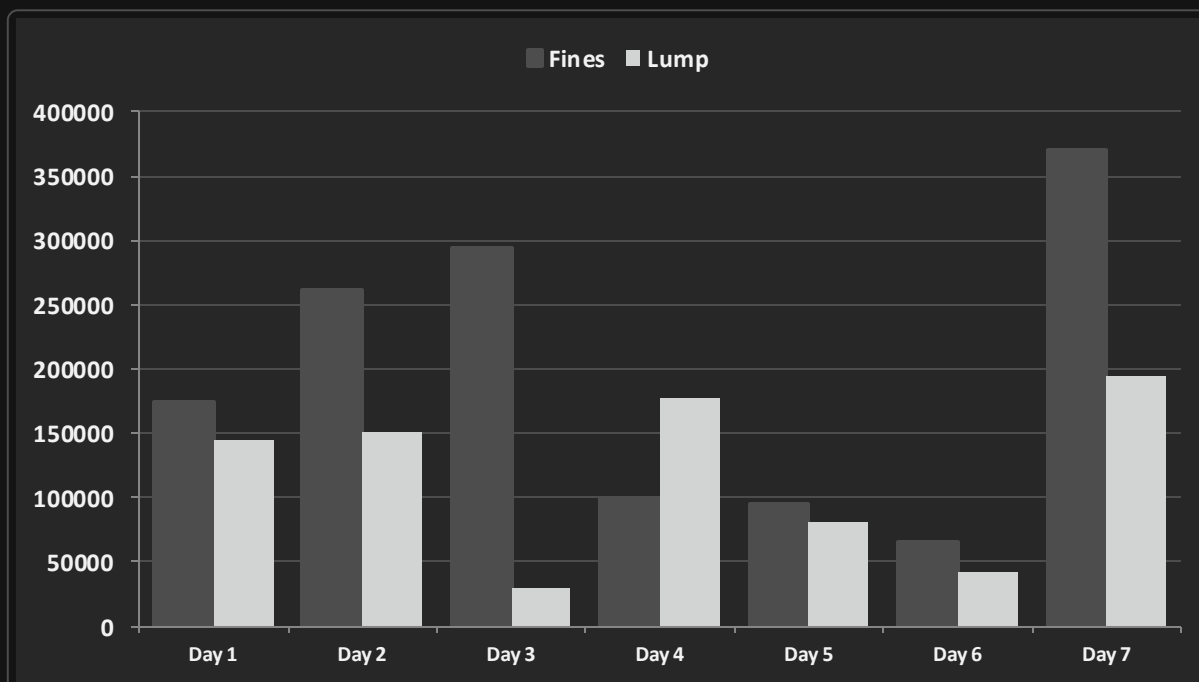
%FE **63.6%** %P **0.1%** %SIO2 **6.1%** %S **0.1%**

Mine 3

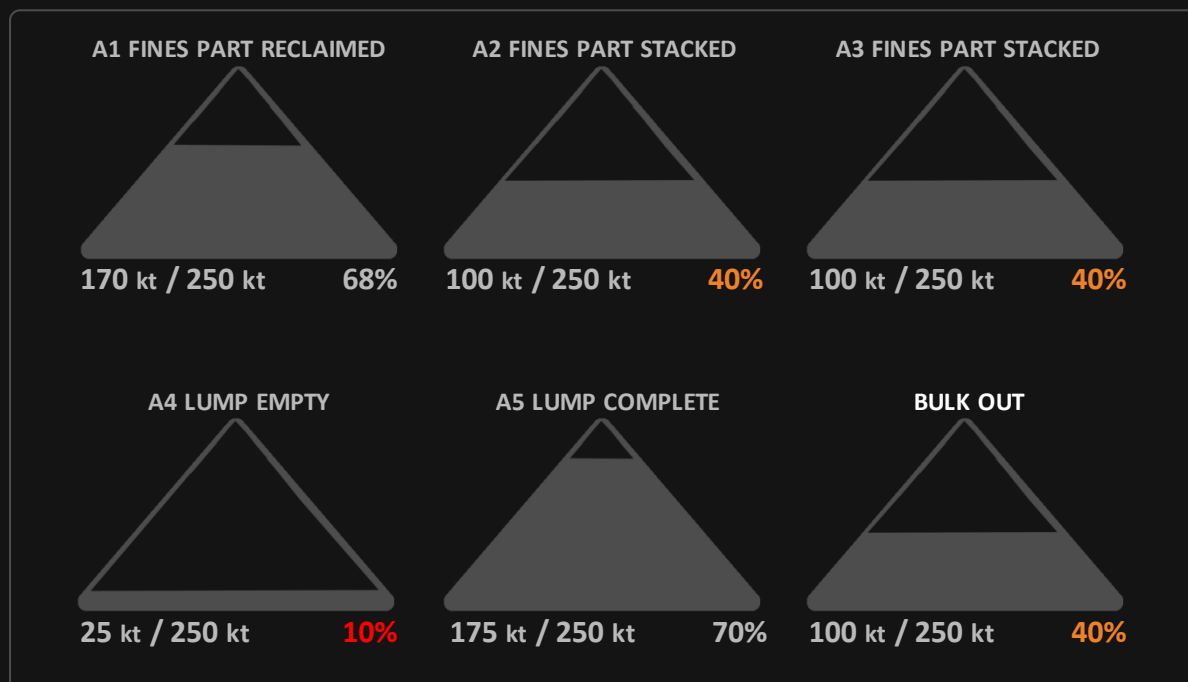
Mine 4

Mine 5

STOCKPILE > STOCKPILE TONNES (LAST 7 DAYS)



AVAILABLE TONNES BY INDIVIDUAL FOOTPRINT



Safety

Lost Time Injury	6
Recordable Injury	8
Serious Bodily Injury	0

User Comments

Exceeded target despite Mine 2 Crusher Downtime

Mine | Posted by Paul Smith | 20:44

Upcoming Planned Maintenance at Mine 3

Mine | Posted by Paul Smith | 19:32

Choke Feeding Mine 1 Digger 1

Mine | Posted by Paul Smith | 17:44

Stock build at Mine being choke fed

Mine | Posted by Paul Smith | 18:34

Mine 4 Crusher Record Day at 256kt

Mine | Posted by Paul Smith | 18:34

Mine 1 Digger breakdown affective ability to load Ore

Mine | Posted by Paul Smith | 18:34

Information Updates

	OPERATIONS	10 mins
	ERP	2 mins
	SAFETY	3 hours late

Our Design Principles

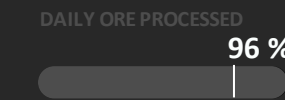
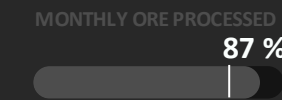
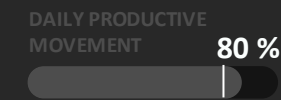
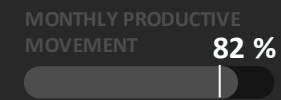
Our Experience

Contact Us

JOE BLOGGS
Manager



Mine Performance



Month to Date | Week to Date | **Today** | Week Forecast | Month Forecast

9:55 AM Monday 17th November 2014

Mine 1

DAYS REMAINING
25

BLAST PVP **73%**

METERS
THROUGHPUT
PERFORMANCE
EXPLOSIVES
DOWNTIME

DIG RATE
3580tph

UTILISATION
91%

LOST TONNES
TONNES
PERFORMANCE
DOWNTIME

TRUCK PVP **73%**

UTILISATION
95%

LOST TONNES
TONNES
PERFORMANCE
DOWNTIME

OHP1 PVP **50%**

THROUGHPUT
1600tph

LOST TONNES
TONNES
PERFORMANCE
DOWNTIME

PERCENTAGE FULL
87%

TONNES
1375kt

FINES VS. LUMP
QUALITY
SAMPLING

Mine 2

SUMMARY

TOTAL TONNES **1375kt** LAST 30 DAYS

LIVE **565kt** DEAD **810kt** DORMANT **0kt**

LIVE FINES **370kt** LIVE LUMP **195kt**

QUALITY & SAMPLING OFF-SPEC

%FE	%P	%SIO2	%S
63.6%	0.1%	6.1%	0.1%

STOCKYARD QUALITY ASSESSMENT

- **UNDERSIZE / OVERSIZE**
- **STOCKYARD QUALITY BLENDING THRESHOLD**

Mine 3

Mine 4

Mine 5

JOE BLOGGS
Manager

Safety

Lost Time Injury	6
Recordable Injury	8
Serious Bodily Injury	0

User Comments

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Information Updates

	OPERATIONS	10 mins
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	SAFETY	3 hours late

[Our Design Principles](#)

[Our Experience](#)

[Contact Us](#)



Our Design Principles

Month to Date | Week to Date | **Today** | Week Forecast | Month Forecast

9:55 AM | Monday 17th November 2014

- Information will be displayed on the dashboard using a standard Left – Right approach
- Utilise management-by- exception philosophy so people are disturbed only when a condition arises that requires human intervention.
- To create a sense of **urgency to act**, though not deviate from disciplined and methodical decision making means.
- To visually analyse **production trends** of inventory and plant (mobile and fixed) performance over time
- Not intended as a tool to perform scheduling. Users already have scheduling systems in place and the system should not duplicate these.
- Not intended to replace control systems. Users already have control systems in place and the system should not duplicate these.
- Avoid clutter on the dashboard and build for simplicity. Avoid excessive colour, animation and other visual features that cause the user to expend more mental effort acquiring essential information. This dashboard's purpose is to convey information.
- Minimise alerts and set any thresholds at sensible limits. Do not design the dashboard to provide an oversupply of warnings that distract users, including management, from what is important both strategic and tactically.
- Will not be customised to hide poor data – poor data must be corrected at the source system

Mine 1
Mine 2
Mine 3
Mine 4
Mine 5





If you would like further information about this solution, please contact us on the details below.



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Mine 1
Mine 2
Mine 3
Mine 4
Mine 5

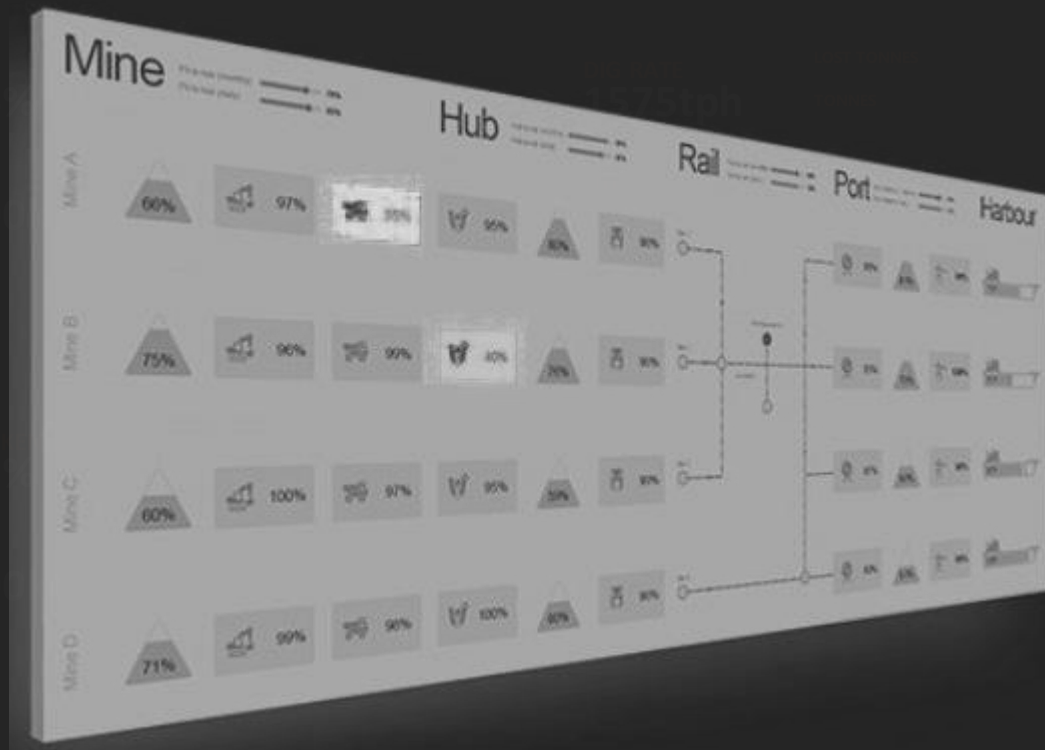
0	0
Frequency	Rate Severity
Target despite Mine 2 downtime by Paul Smith 20:44	
Planned Maintenance at by Paul Smith 19:32	
Mining Mine 1 Digger 1 by Paul Smith 17:44	
at Mine being choke fed by Paul Smith 18:34	
usher Record Day at 256kt by Paul Smith 18:34	
digger breakdown affective ad Ore by Paul Smith 18:34	



Our Experience

Month to Date | Week to Date | **Today** | Week Forecast | Month Forecast

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Operational Performance Dashboard

Our global mining client moved its regional site-based short term production, planning and control activities to a city-based new integrated remote operations centre. They saw this as an opportunity to enhance visibility of production information across the supply chain.

Deloitte designed and delivered a supply chain visualisation solution showing key operational metrics in near-real-time, permanently displayed on large screens, built on a leading business intelligence and data warehouse toolset.

“For the first time we can see our total supply chain, in real time and in one place, enabling us to proactively make the right decisions for the whole business.”

Global Mining CEO



Operational Performance Reporting

Our global mining client needed a standard suite of operational reports that display key operational metrics to support informed decisions on the operations of its many mines.

Deloitte designed and delivered a dashboard-style standard operational reporting solution covering mobile fleet, fixed plant and maintenance operations, built on a leading business intelligence and data warehouse toolset.

Mine 1
Mine 2
Mine 3
Mine 4
Mine 5

0 | 0
Frequency Rate | Severity Ra

get despite Mine 2
ntime
d by Paul Smith | 20:44

anned Maintenance at
d by Paul Smith | 19:32

g Mine 1 Digger 1
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