Start Services
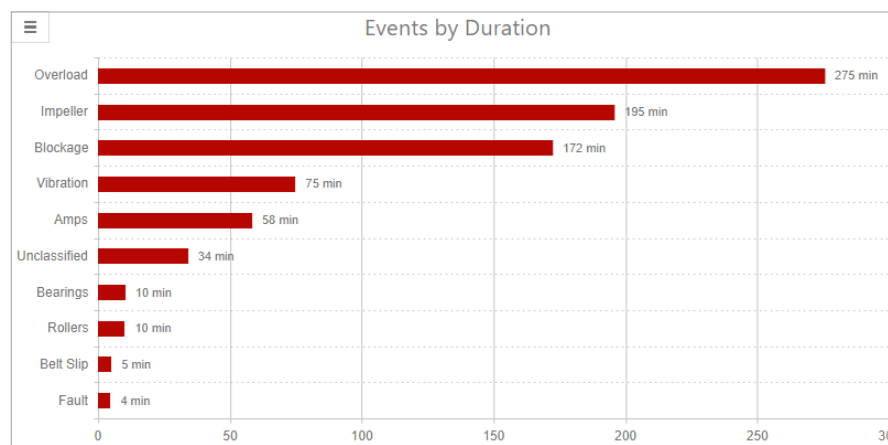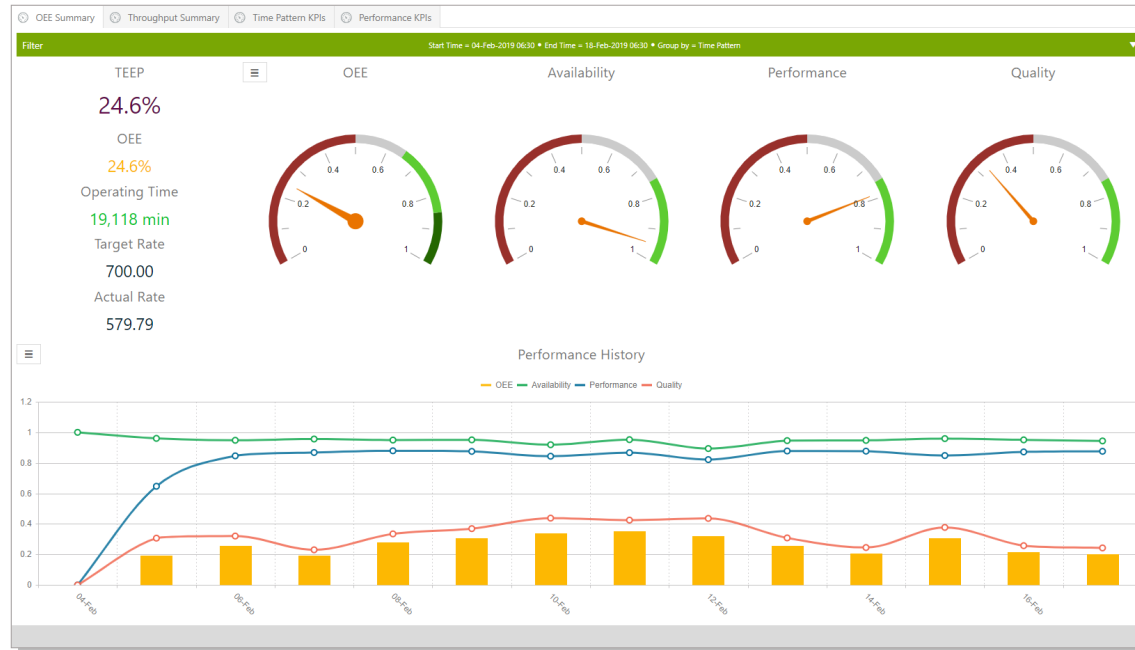
Khronos Insight
PRODUCTION PERFORMANCE SUITE

Khronos Insight is a complete production performance reporting package, encompassing OEE, downtime, production, quality, and custom KPI formulas.

Downtimes and Delays are captured automatically in the context of the plant model, the production mode, materials, recipes, batches, orders, shipments, and so on.

OEE Summary | Throughput Summary | Time Pattern KPIs | Performance KPIs

Filter — Start Time = 04-Feb-2019 06:30 ● End Time = 18-Feb-2019 06:30 ● Group by = Time Pattern

TEEP	OEE	Availability	Performance	Quality
24.6%				

OEE
24.6%
Operating Time
19,118 min
Target Rate
700.00
Actual Rate
579.79

Performance History
OEE — Availability — Performance — Quality

Events by Duration

Event	Duration
Overload	275 min
Impeller	195 min
Blockage	172 min
Vibration	75 min
Amps	58 min
Unclassified	34 min
Bearings	10 min
Rollers	10 min
Belt Slip	5 min
Fault	4 min

Khronos Insight tells you:
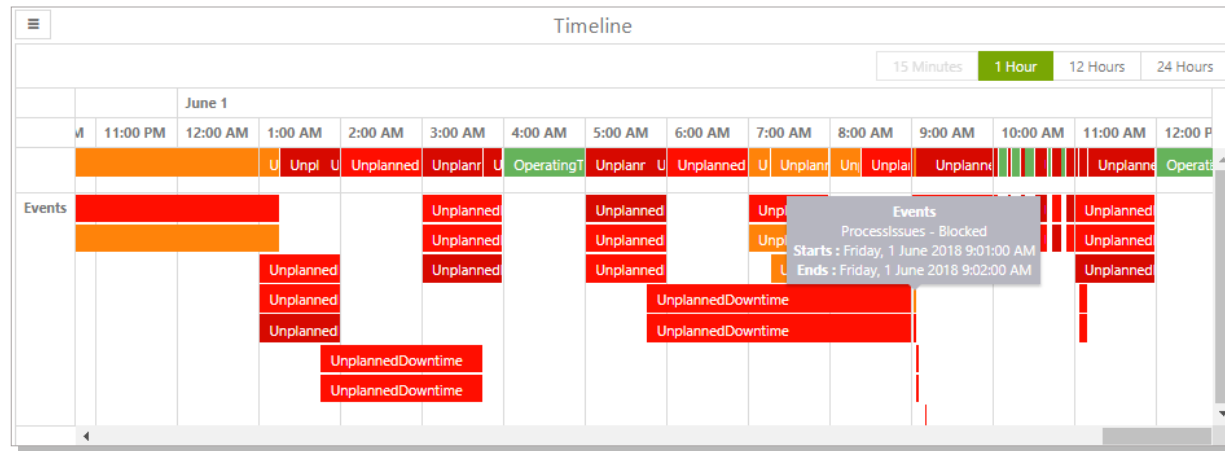
› **What** you made
› **How** much you made
› **When** you made it
› **How** well you made it

Khronos Insight tells you:

› **Where** problems occur
› **Why** they occur
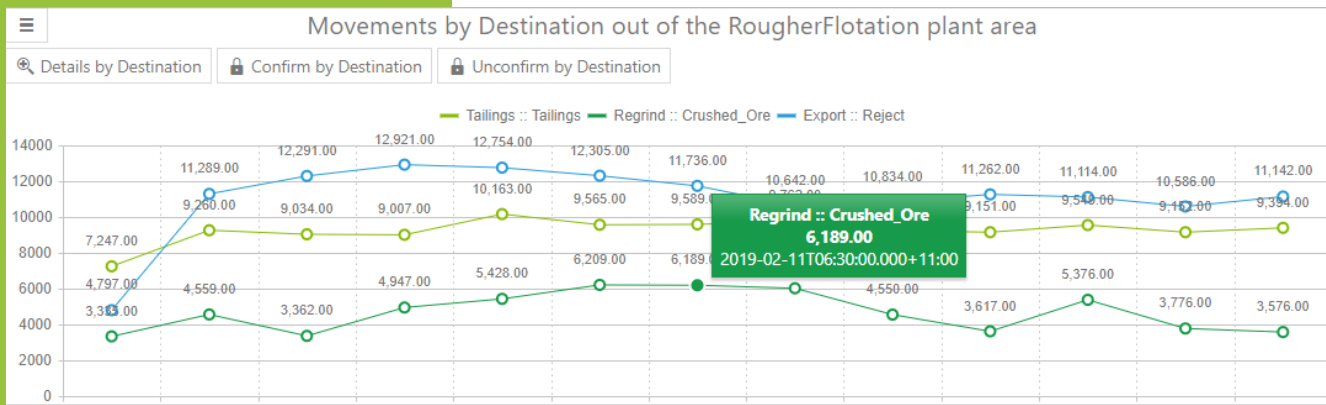› **How** much they impact your business

Unbiased Statistical Evidence is the key behind a progressive improvement strategy. Khronos Insight identifies the impact on productivity due to each Cause Location and Reason to support business cases for improvement initiatives.


Timeline

| | | 15 Minutes | 1 Hour | 12 Hours | 24 Hours |

June 1

| M | 11:00 PM | 12:00 AM | 1:00 AM | 2:00 AM | 3:00 AM | 4:00 AM | 5:00 AM | 6:00 AM | 7:00 AM | 8:00 AM | 9:00 AM | 10:00 AM | 11:00 AM | 12:00 P |

Events

ProcessIssues - Blocked
Starts : Friday, 1 June 2018 9:01:00 AM
Ends : Friday, 1 June 2018 9:02:00 AM

Khronos Insight tells you:

› **Ideal** Production
› **Actual** Production
› **Lost** Production
› **Loss** Ratio

Movements by Destination out of the RougherFlotation plant area

Details by Destination | Confirm by Destination | Unconfirm by Destination

Tailings :: Tailings — Regrind :: Crushed_Ore — Export :: Reject

Regrind :: Crushed_Ore
6,189.00
2019-02-11T06:30:00.000+11:00

Movements identify:

› **Primary Material Movements** → ROM
› **Secondary Material Movements** → Process Water
› **Constituent Material Movements** → Metal Tonnes
› **Calculated Movements** → Moisture

Production Accounting identifies all material movements in the process, from a Source location to a Destination.

Au Mass Totals

Interval Delta (g) Accumulated Gold Mass (g)

![Khronos Insight - Production Performance Suite]
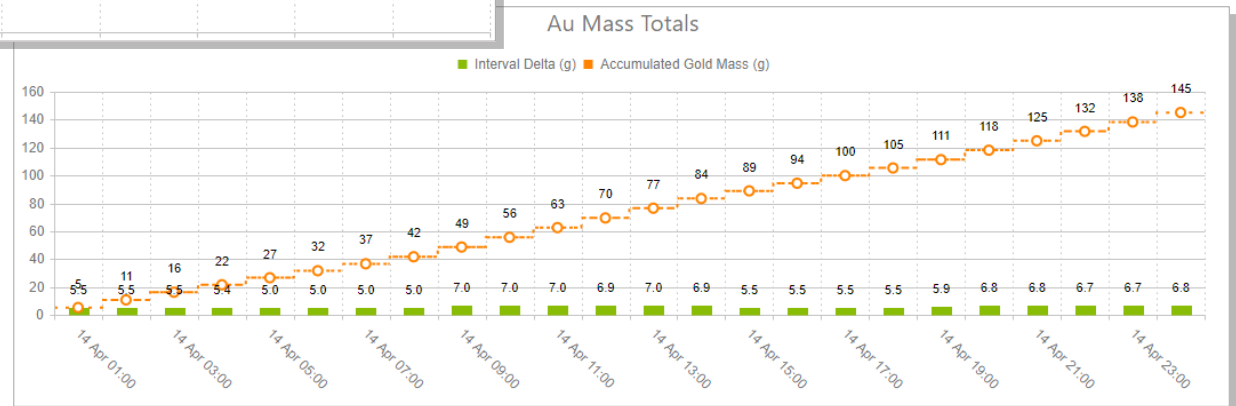
Storage Mass Balance

consolidates all Input, Output, and Manual movements since the last Stock Adjustment to estimate the balance in each storage vessel.

LIMS integration allows dynamic calculation of Constituent Material Movements with inherent awareness of whether samples are applied retroactively or proactively to corresponding movements.
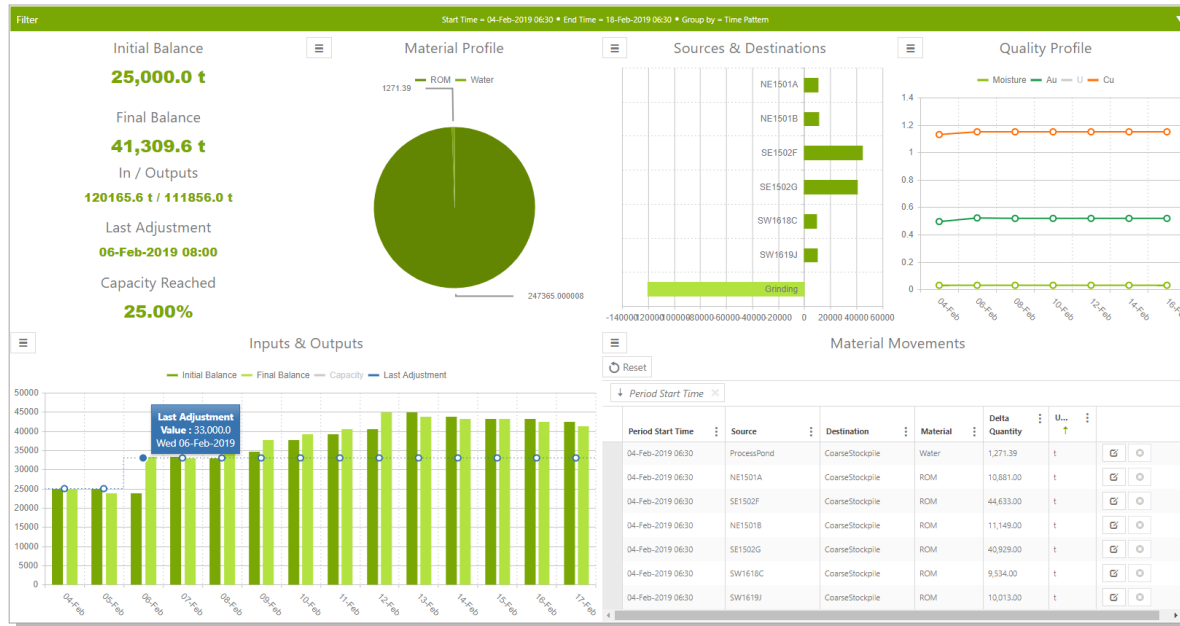
Stock Adjustments

can record dip measurements, aerial surveys, visual inspections, and other methods of assessment.

Data Approval processes lock data to prevent any further editing or overrides.

Audit Trails record all data manipulation activities with complete transparency for _Who_ made the change, and _What_ the original and modified values are.

The **KPI engine** allows customisation of key metrics for the business such as Yield, Recovery, Net Rate, Availability, Utilisation, and so on.

KPI definitions are applied as templates against the Plant Model.
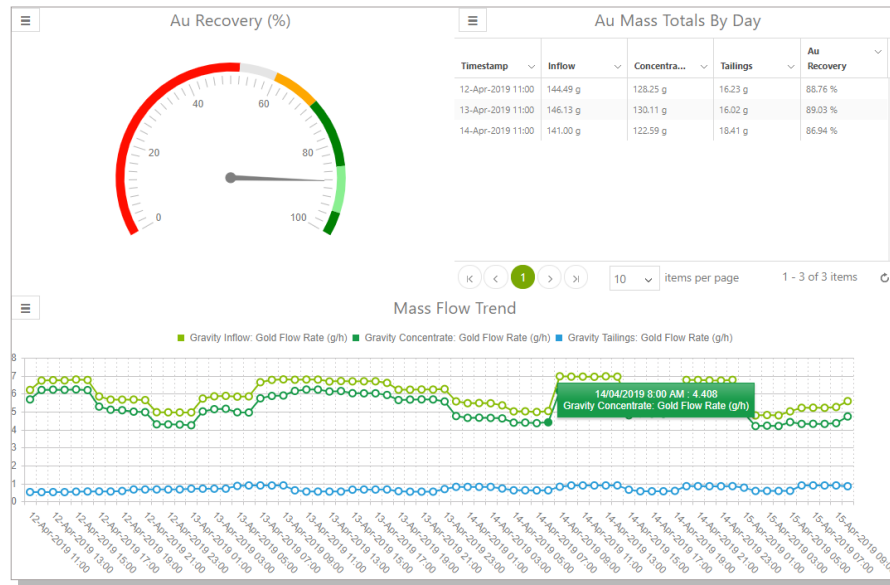
Actuals vs Targets can be graphed against a variety of Target Time Horizons such as Annual Budgets, Monthly Forecasts, Daily Plans, and Shift Setpoints.

Shift Logs with user-defined categories, form fields, approvals, file and image attachments allow complete customisation of manual data collection for a variety of different purposes.

Mobile Enabled HTML5 User Interface supports phones and tablets, including integrated camera support for recoding photos with logs and downtime events.

Khronos Insight supports **Historians** and **Databases** as native data sources. **Excel** and **File imports** can also be integrated via automated data integration using Khronos Data Pumps.

Timestamps are recognised from the source, and the product inherently handles data and users in different time-zones and regions.

Live Data Collection Status

↻ Reset   ↻ Reload Config

Process	Enabled	Processed up to	Live Collection Status	
Events	▶	15-Apr-2019 11:30	Healthy	▶ ■ ✎
Movements	▶	15-Apr-2019 11:30	Healthy	▶ ■ ✎
Properties	▶	15-Apr-2019 11:00	Aging	▶ ■ ✎
QualitySamples	▶	15-Apr-2019 11:30	Healthy	▶ ■ ✎

Data Integrity

Remote locations, sporadic telemetry, intermittent power, and lengthy delays for laboratory results are just some of the challenges facing these industries. Khronos Insight handles these challenges with comprehensive data processing, periodic-reprocessing, and user-triggered reprocessing facilities.