

LONDON BULLION MARKET ASSOCIATION A&R CONFERENCE

MARCH 2023

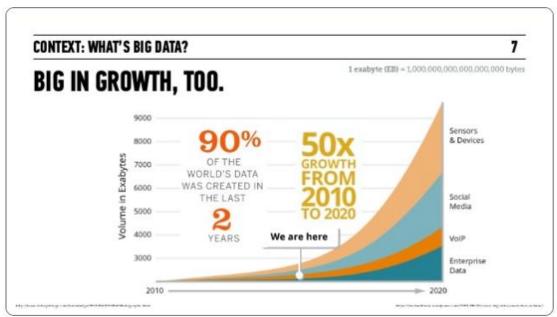
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DATA IS EVERYWHERE

Research by Statista showed the total worldwide data amount rose from **9 zettabytes** in 2013 to **27 zettabytes** in 2021.

The <u>use of analytics</u> by businesses can be found as far back as the 19th century when Frederick Winslow Taylor initiated time management exercises. Another example is when Henry Ford measured the speed of assembly lines. In the late 1960s, analytics began receiving more attention as computers became decision-making support systems.



https://www.promptcloud.com/

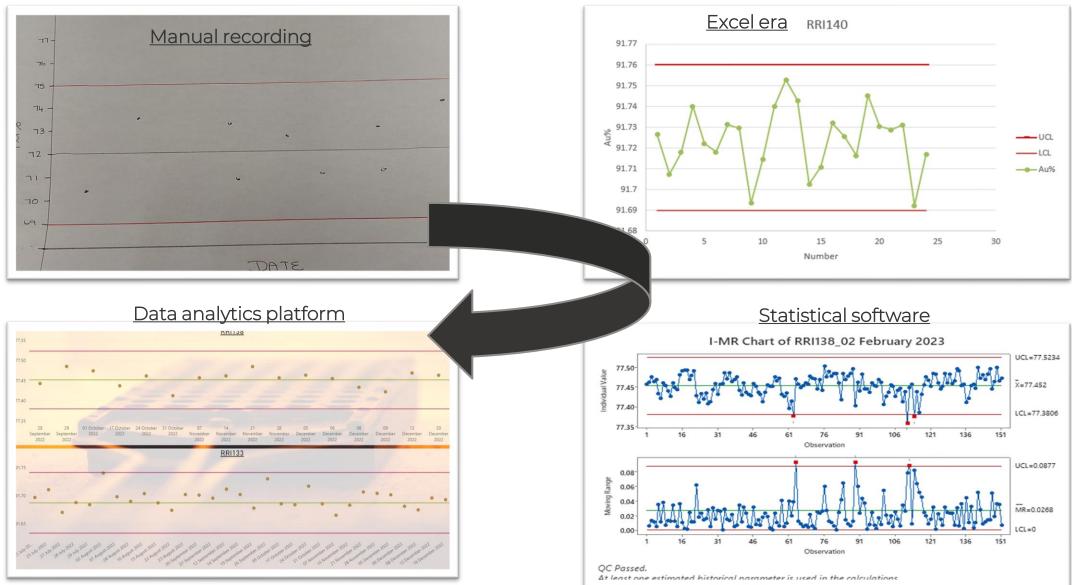
DATA ANALYSIS

- Initial process inspecting, <u>cleansing</u>, <u>transforming</u>, and <u>modeling</u> <u>data</u>
- Role in decision making in many fields
- Ability for
 - Data mining
 - Data integration
 - Data visualization

Ultimately data analysis is a process of obtaining raw data and converting it for useful decision making to answers questions, test hypotheses or disprove theories.



EVOLUTION ...



BENEFITS OF DATA ANALYTIC PLATFORM

- Improved decision making:
 - o analyze large amounts of data
 - o various sources
 - o providing insights
- Increased efficiency
 - automating data collection and analysis
 - $_{\rm O}\,$ save time and resources
 - $\circ\,$ speed of decision making
- Enhanced performance tracking

 real-time visibility into (KPIs)
 track progress of material, results reporting
- Cost management

 Real time expenditure vs budget
- <u>Report creation and meeting discussions</u>



XRF CALIBRATION



SB ISSUE

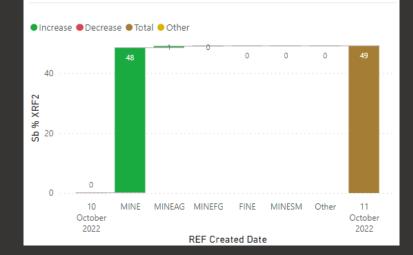


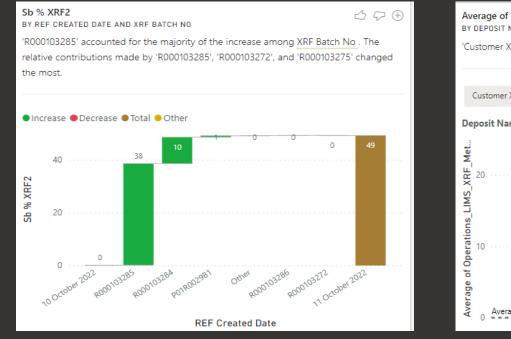
DATA ANALYSIS

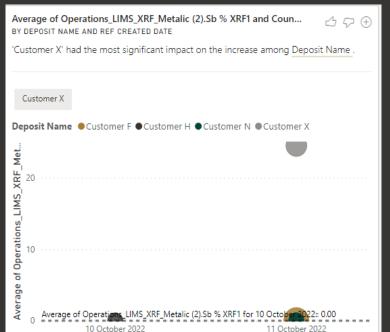
Sb % XRF2 BY REF CREATED DATE AND XRF METHOD

'MINE' accounted for the majority of the increase among XRF Method . The relative contributions made by 'MINEFG', 'MINE', and 'MINEAG' changed the most.

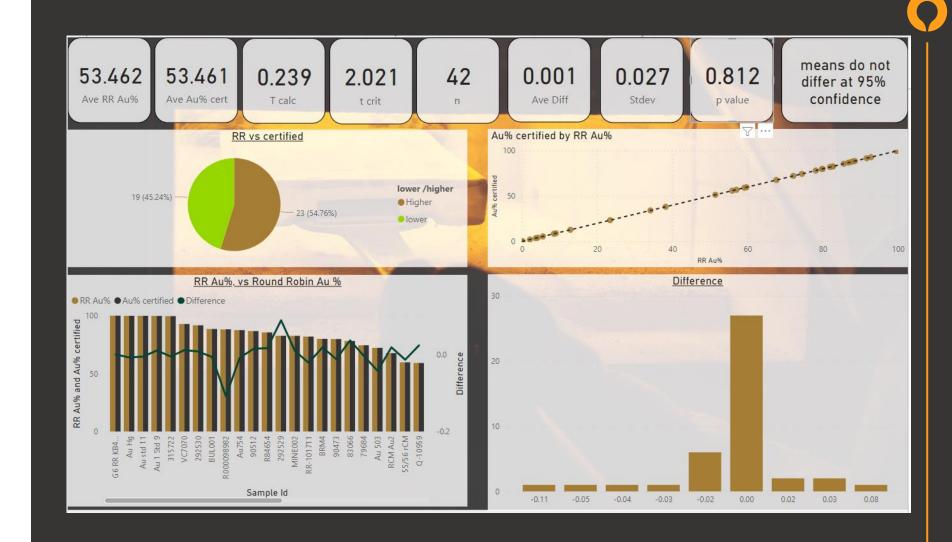
47€







REAL TIME STATISTICS



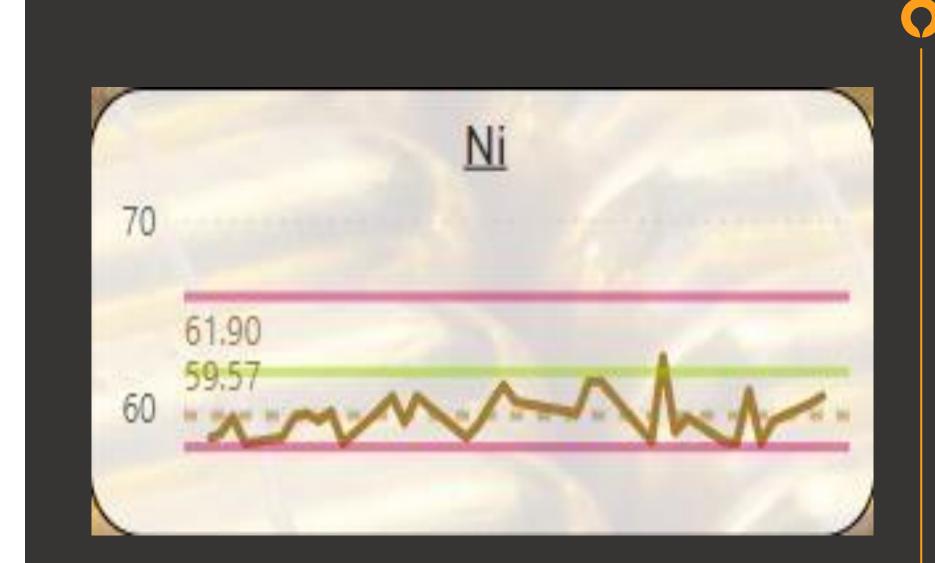
COST MANAGEMENT



QUALITY GOVERNANCE



NI - LONG TERM



LESSON LEARNING

CHOOSING A SUITABLE DATA ANALYTICS PLATFORM

Data cleansing and validation

- Business Appetite for change
- Statistical knowledge & understanding
- Dependent vs independent users
- Access control (mobile devices)
- Support
 - -Learning(Online)
 - -Expert
 - -Continuous learning appetite
- Cost effectiveness
- User experience (data visualization, statistical ability)
- Data analyst <u>BIAS</u>

BIGGEST LESSON LEARNED

An effective dashboard(report) is measured by it's success of driving change.

Don't ask ''What can I do with this data'' Ask yourself "What objective , change or decision can I implement through this dashboard(report)."



RAND REFINERY