





# Data Analytics - The challenge of a Complex Programme *What do you measure?*

Complex programmes will have vast quantities of data that can be very difficult to aggregate to compare

- Approach 1: Try to measure everything
  - The programme drowns in metrics that require effort to maintain, become irrelevant and people do not understand
- Approach 2: Generate additional data to support the narrative
  - The data does not accurately reflect the actual status of the programme
- Approach 3: Rely on narrative only
  - Programme performance is subjective and may miss key facts or be biased



## Data Analytics – The Change Journey

#### **Business Requirements**

Key business performance indicators captured and prioritized for automation and insights.

#### Capability

Data Analytics capability centralized to incorporate strong business knowledge and technical skills.

### Organize and Standardise

Existing data catalogued and aligned with business operating model.

Common reporting formats across the business.

#### Management Insights

Predictive modelling and root cause analysis to drive future performance.

#### Self Service

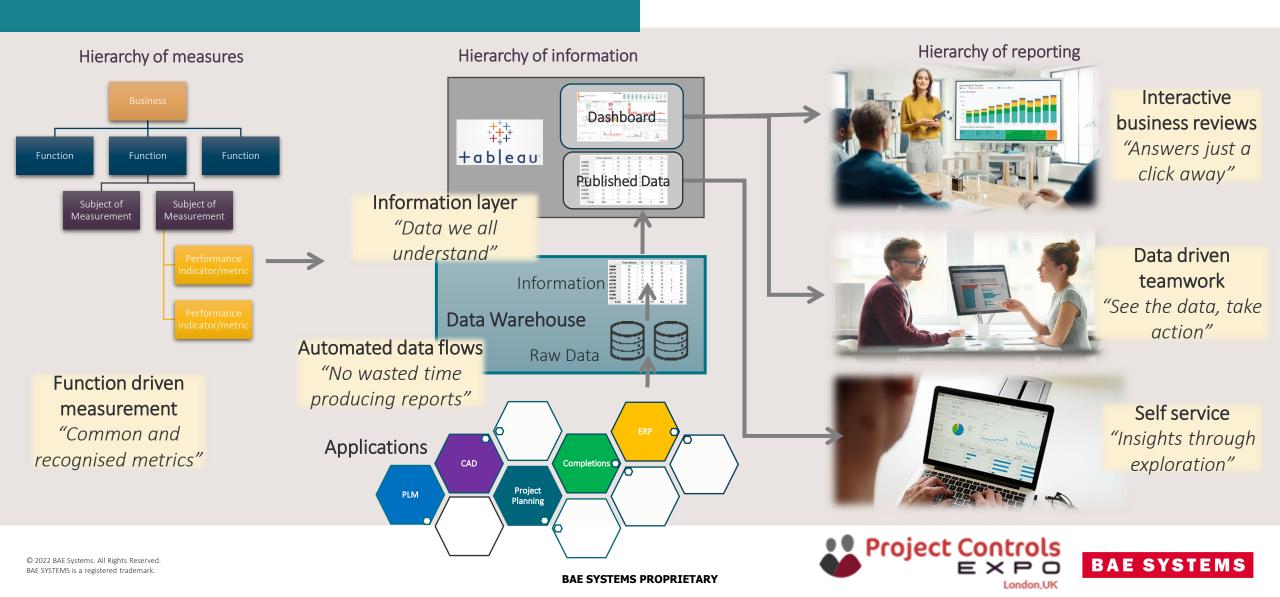
Quality assured published data sets allow self exploration and insights.

- Faster decision making
- More accurate decision making
- Reduced effort manipulating data
- Performance improvements through insights
- Improved Data Quality
- Shift to Data focused culture

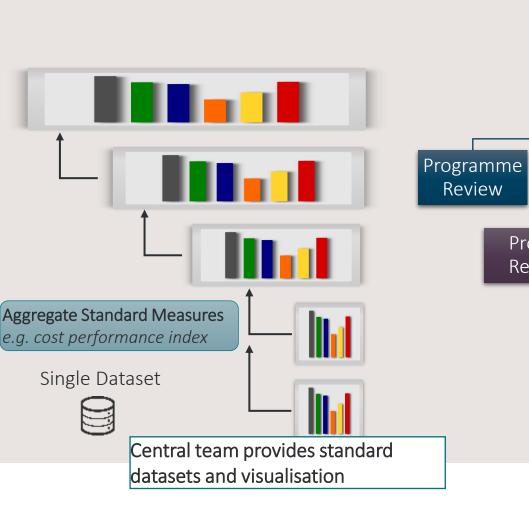




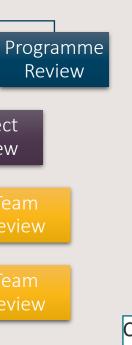
## Data Analytics – The Approach

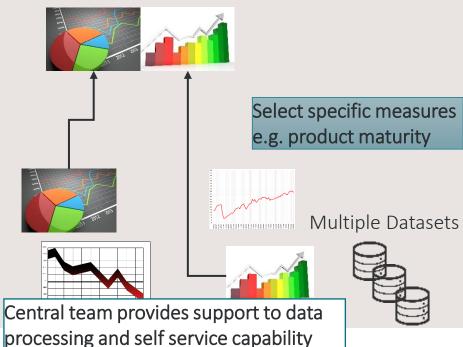


## Review Hierarchy



- Reduce duplicated effort
- Standardise format and improve understanding
- Improve Data Quality
- Allow teams to focus on specific data analysis and core delivery









Portfolio

Review

Programme

Review

Project

Review

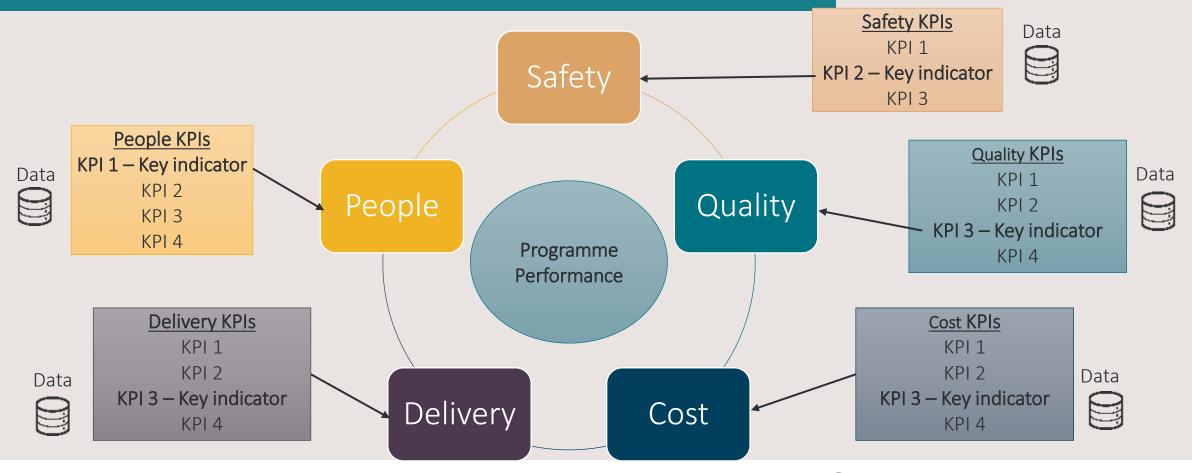
Review

Review

Project

Review

## Complex Programme – Fundamental Measures







## Conclusions (so far!)

- There is no "magic bullet" complex programmes are complex!
- Data volume is good but toolsets, processes and data structures must be aligned to maximise automation and insight
- Selecting critical measures is essential to avoid information overload
- Data literacy amongst the wider population needs to be grown in order to maximise insight and reduce reliance on specialists to analyse and deliver business intelligence

