The Asset Institute

Joe Mathew
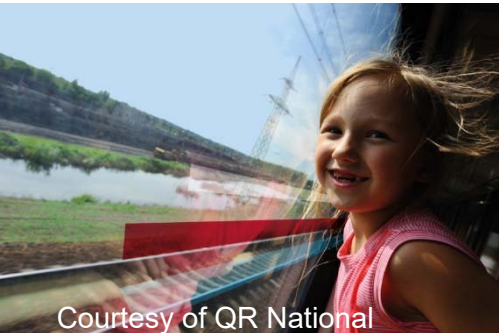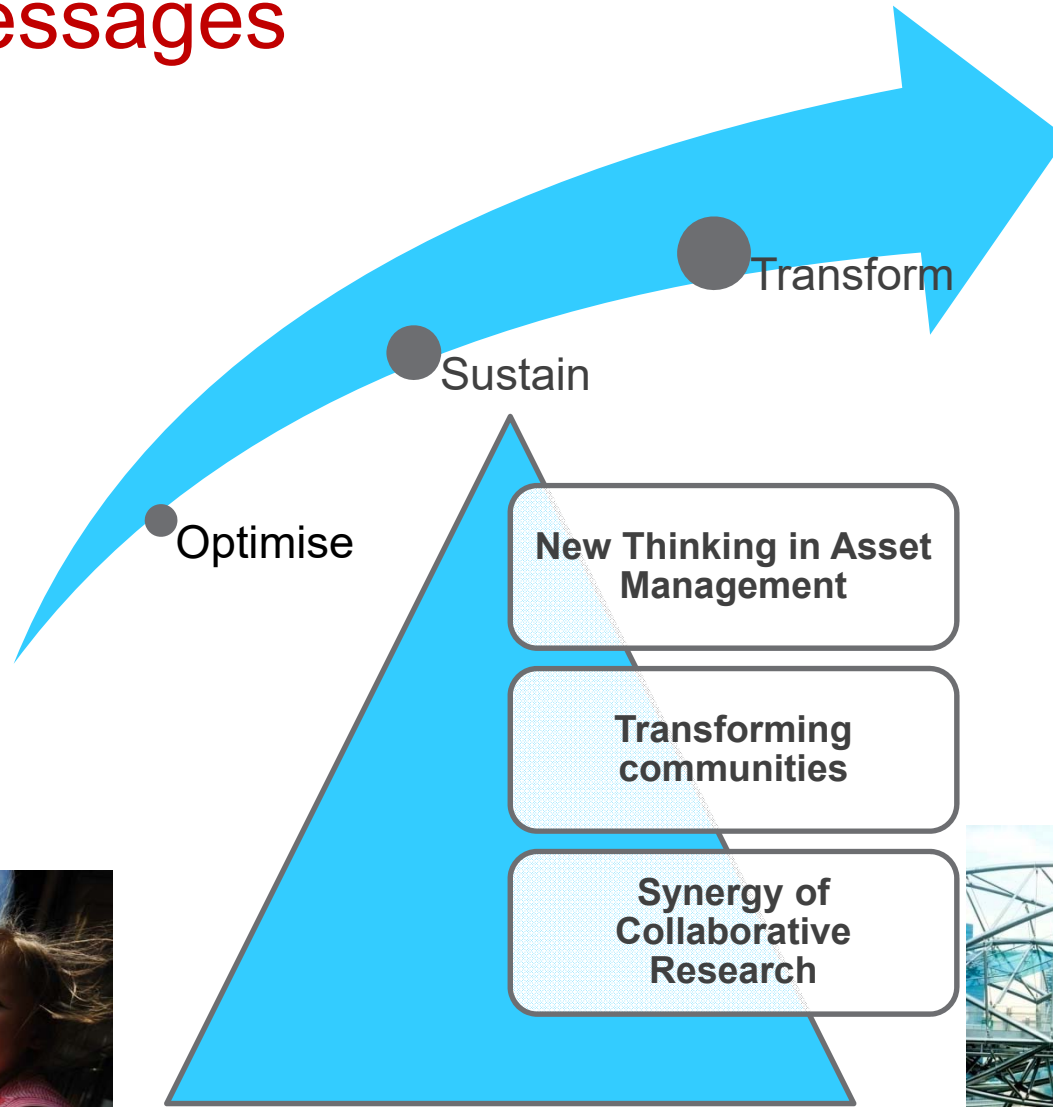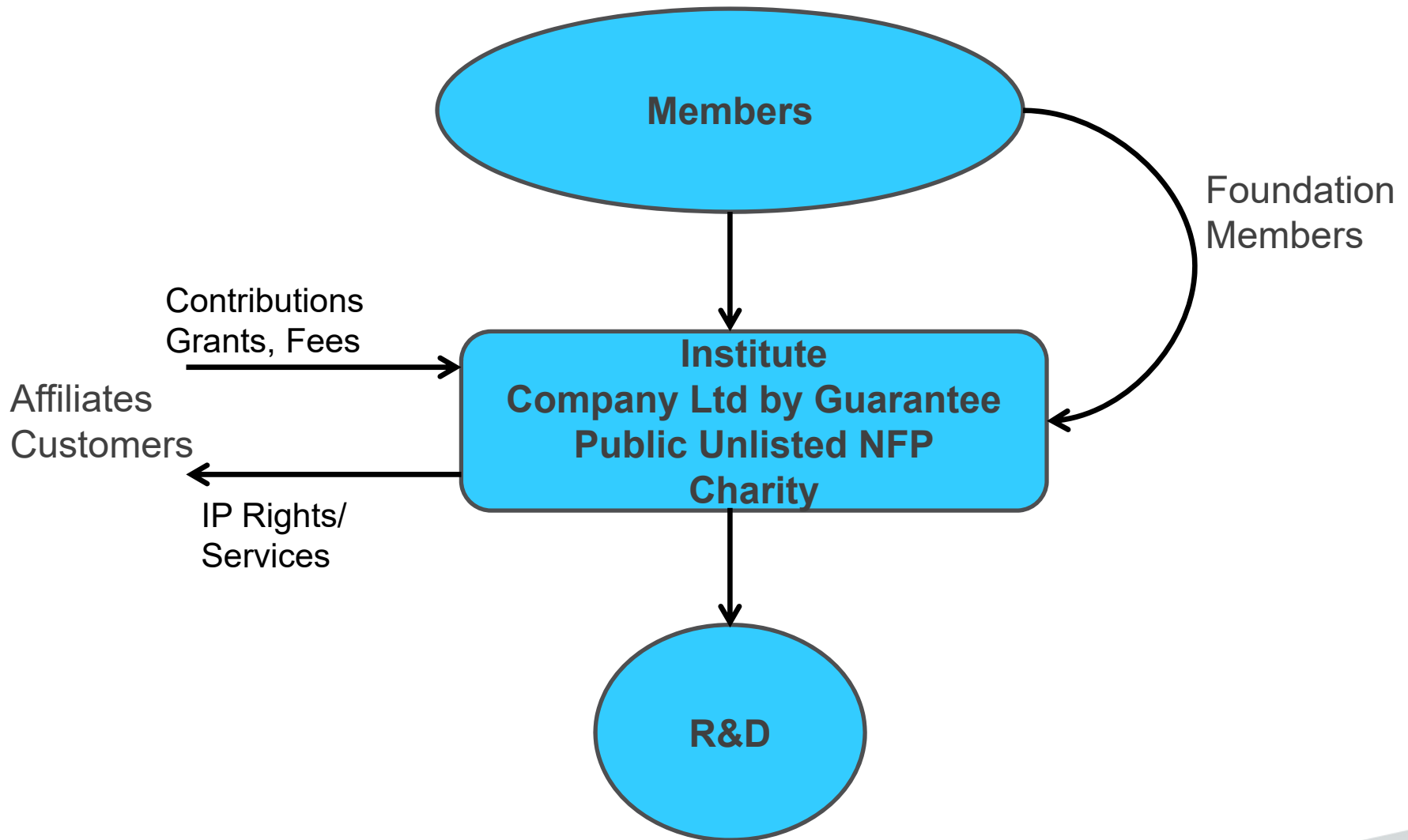Chief Executive

Who are we?

Vision

The Asset Institute will be a leading International Research Institute providing transformational Infrastructure and Engineering Asset Management solutions

Key Messages

Transform

Sustain

Optimise

New Thinking in Asset Management

Transforming communities

Synergy of Collaborative Research

Courtesy of QR National

Institute Model

Members

Foundation
Members

Contributions
Grants, Fees

Affiliates
Customers

**Institute
Company Ltd by Guarantee
Public Unlisted NFP
Charity**

IP Rights/
Services

R&D

Corporate Attributes

Research Themes

Design & Construction

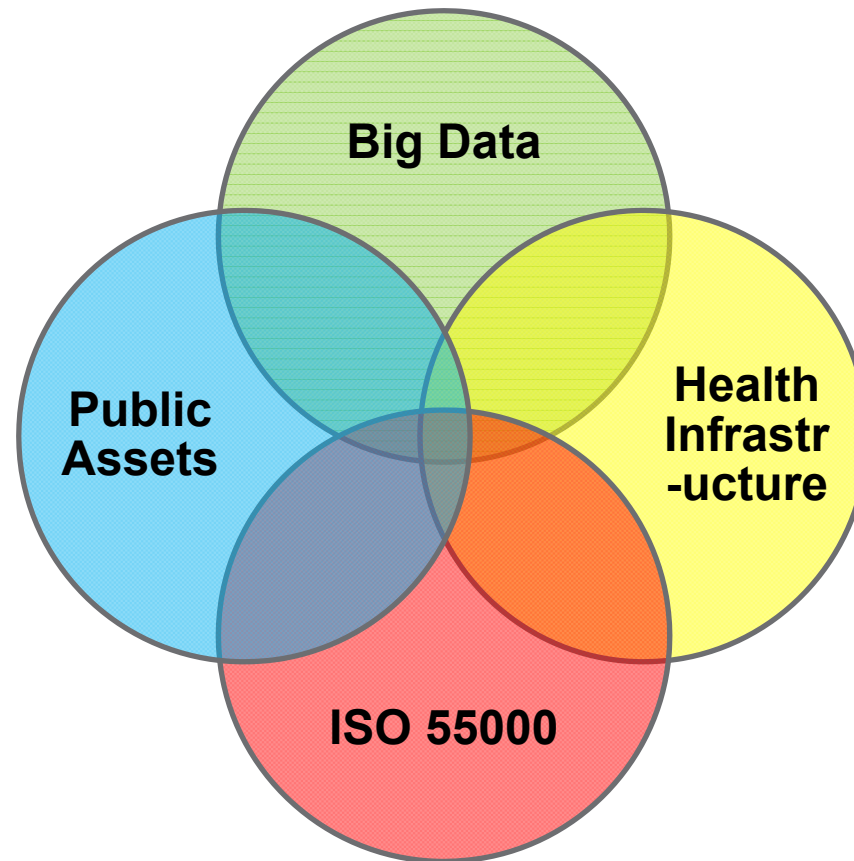Organisation & Planning

Integration & Interoperability

Asset Health and Analytics

Recovery & Continuity

Sustainability & Resilience

Learning & Development

AI Special Interest Groups

Value Proposition for Industry Members

Enables resources to focus on issues directly affecting competitive success. These resources would now be augmented by those resources that may be diverted from asset related development programs that can now be more readily conducted by the AI.

In turn, execution of projects by the AI will target reduced cost, time to market and risk compared with alternatives because of the depth of its resources and its interdisciplinary collaborative structure.

Reduced cost may also result from innovative development projects where outcomes may be uncertain and may attract the support of government-R&D funding.

Value Proposition for Research Members

Enables research organisations to focus on those R&D projects that are critical to the success of commercial organisations thereby attracting the support and funding necessary for this work.

This assists R&D organisations to filter projects that will attract serious funding from those projects that are less likely to do so.

DELIVERING OPERATIONAL EFFECTIVENESS IN ASSET INTENSIVE INDUSTRIES THROUGH ASSET INTELLIGENCE

OPTIMISED PRODUCTIVITY, SERVICE QUALITY, COST AND RISK OUTCOMES

ASSET INTELLIGENCE
IN POWER GENERATION

Technology Architecture
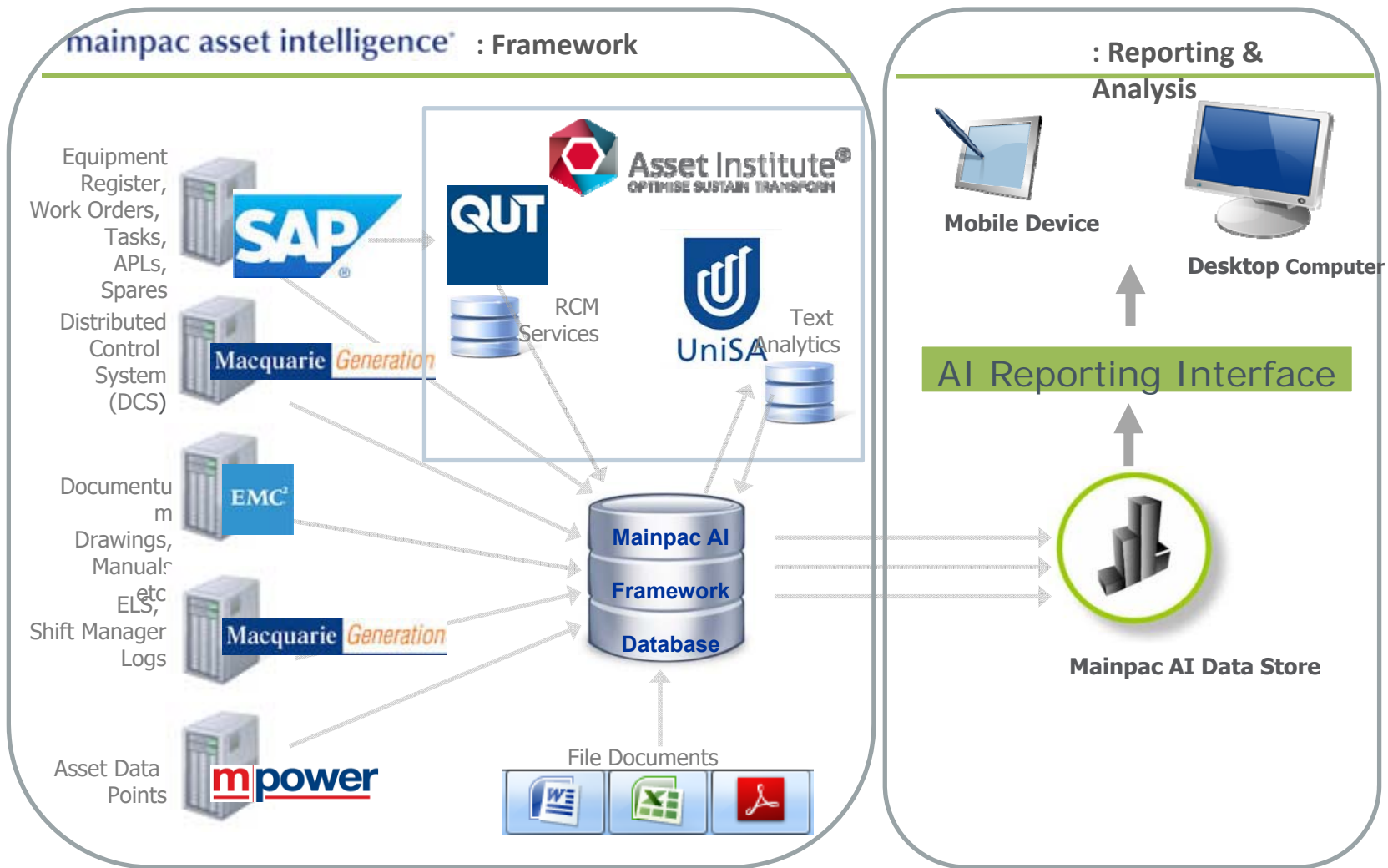
Product Modules

Asset Portfolio Management	Understand portfolio performance, risk and cost against objectives. Drill down from asset portfolio to asset systems, classes and asset components. Compare performance across sites/assets.
Capital Planning & Budgeting	Model investment scenario's to optimise long term asset performance, cost and risk. Develop CAPEX and OPEX budgets. Forecast revenue generated by assets Determine right time to upgrade, renew and decommission assets.
Reliability Engineering	Analyse failure rates for an asset class. Apply algorithms to determine optimal maintenance strategy and frequency at an asset level. Integrate with EAM/ERP to automatically update PM's and condition thresholds.
Operations & Maintenance Planning	Integrated operations and maintenance planning to align demand, maintenance requirements and resource constraints. Forecast production based on contract quantities.
Information Gateway	Respond to operational events using near real-time data from disparate information sources.

Information Gateway Navigator

Adjustable Date Range

Selectable Asset Hierarchy

Graphical Plant Representation

DCS Sensor Data

Work Order Profile and Root Cause

Reliability Modelling
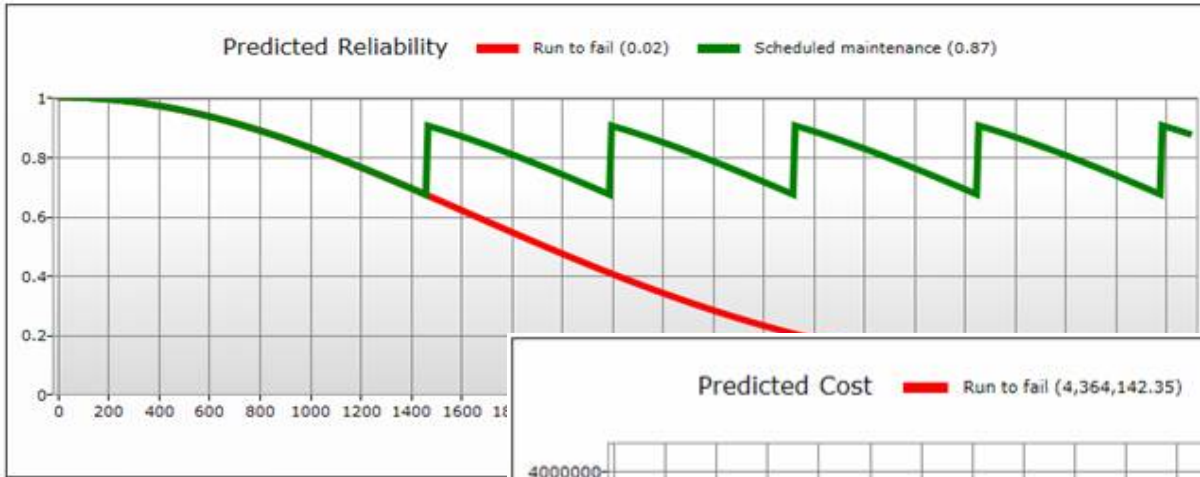
Predicted reliability (time based) of chosen maintenance method

Predicted maintenance costs over a long term

Capital Planning & Budgeting

Handling Structured and Unstructured Data

Text Analytics provides a bridge for unstructured and structured data sources

Foundation for asset intelligence tool

Supporting predictive modelling and knowledge management
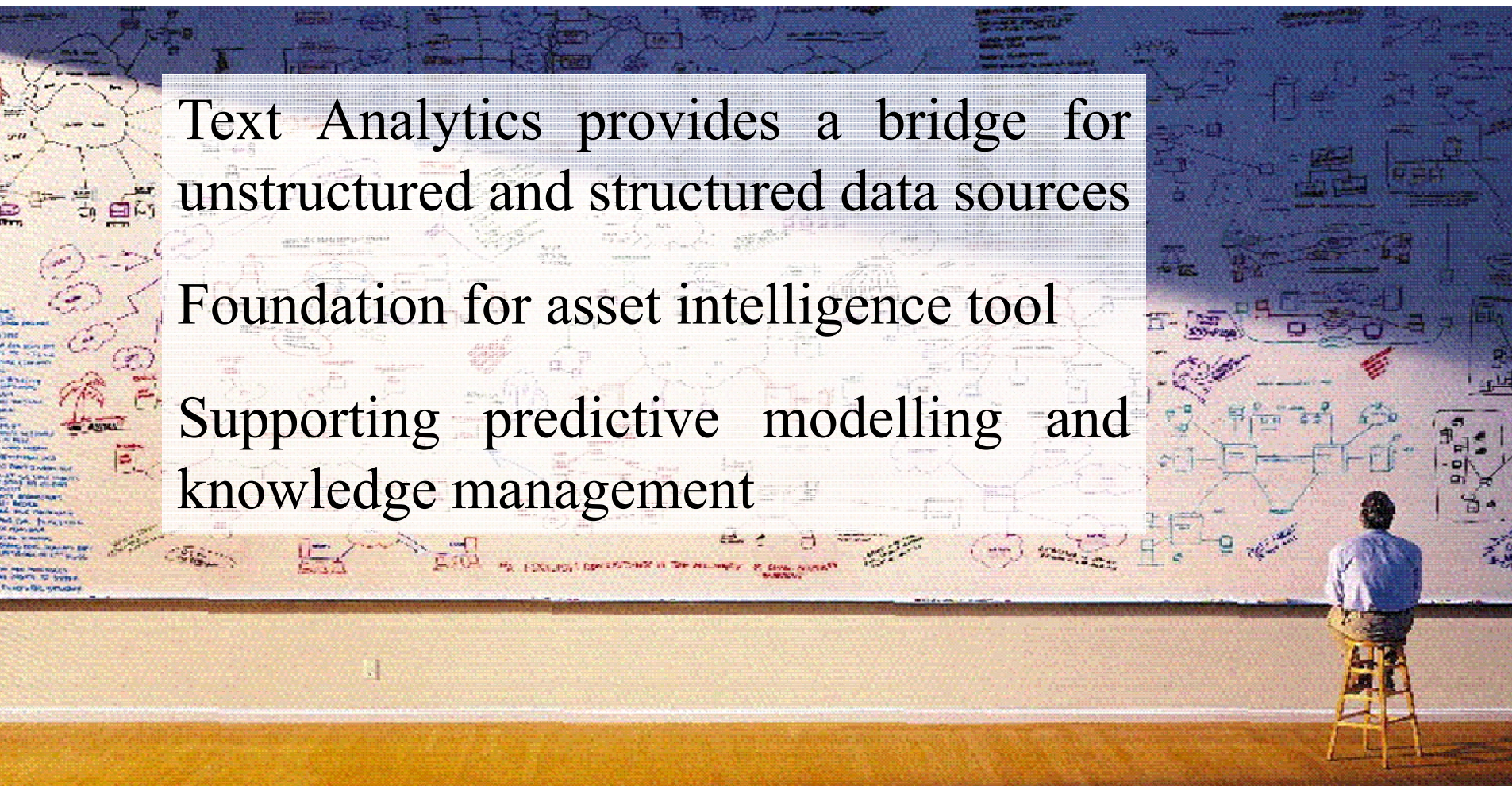
Q&A

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