



Delivering Value Through Asset Management

James Conlin

Technical Director
Asset & Information Management

 **AtkinsRéalis**

INTRODUCTIONS

- Chair of the Global Technical Network for Asset Management Operations, providing thought leadership in Asset Management for AtkinsRéalis
- Former Chair of Faculty and Board Member of the Institute of Asset Management
- Recently awarded a Life Fellowship of the Institute of Asset Management
- Currently supporting Transportation, Aviation, Defence and Water organisations develop Strategic Asset Management Plans and Decision-Making Frameworks
- Running Asset Management Training Programmes for Translink, OFWAT and South East Water
- Developed and led the Asset Management Transformation Programme at Scottish Water



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MY TALK TODAY

- AtkinsRéalis & Network Rail
- AtkinsRéalis Global
- Industry challenges
- Asset management as the solution: alignment across an enterprise
- Lessons from industry
- Delivering value through asset management

TRUSTED DELIVERY PARTNER: ATKINSRÉALIS AND NETWORK RAIL



East Coast Digital Programme (ECDP)



Train Control Systems Framework



Northern Powerhouse Rail (NPR)



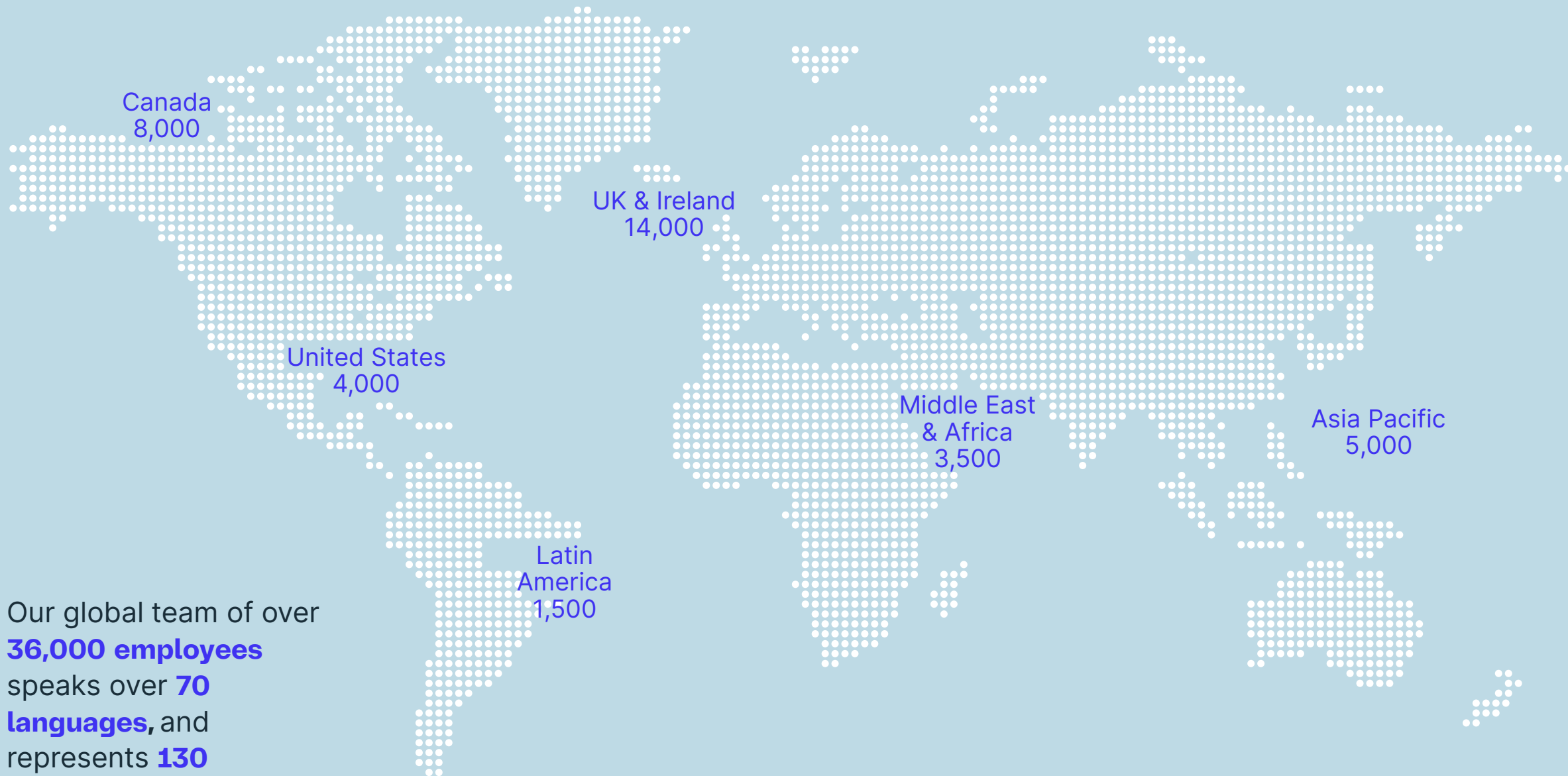
East West Rail



Southern Regional Enterprise



Central Rail Systems Alliance



Our global team of over **36,000 employees** speaks over **70 languages**, and represents **130 nationalities** across **six continents**.

WHERE WE WORK

We support all infrastructure asset owners with their full lifecycle needs. By leveraging the extensive engineering expertise of AtkinsRéalis, we ensure a seamless blend of top-tier asset management, information management, and digital innovation, combined with relevant engineering domain experience.



Building & places

Government
Property Agency
(GP)

Ministry of
Justice

Related Argent



Defence

Defence
Infrastructure
Organisation

AWE

+ Others



Nuclear

Sizewell C
Rolls Royce



Power & renewables

EIR Grid
SSE Energy
National Grid



Transportation

Translink (Northern
Ireland)

Toronto Transit
Commission (TTC)

New York Mass
Transit Authority
(MTA)

Network Rail High
Speed 1

Transport for
Scotland



Water

All major UK Water and
Wastewater Companies

UKWIR
OFWAT

Environment Agency



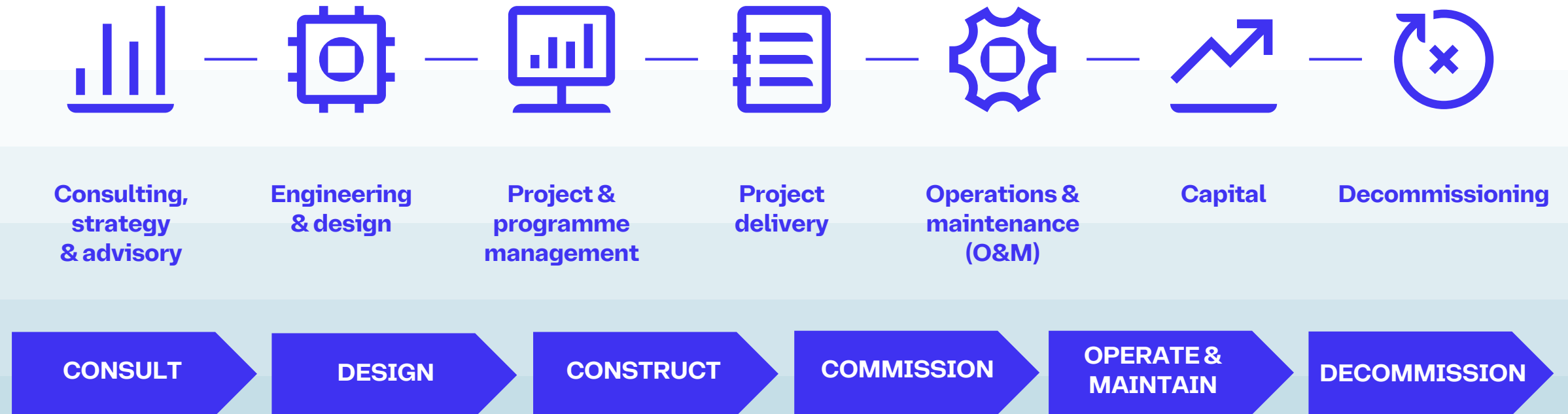
Aviation

Heathrow
Gatwick

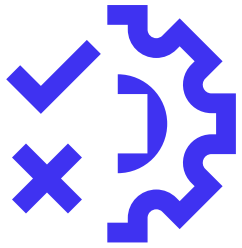
Dubai
Riyadh

WHAT WE DO

Our commitment to a whole-life view of major development programmes enables us to lead projects at every stage and ensure that, wherever we are involved, our people have a wider view of the challenge to better guide our clients and partners.



INDUSTRY CHALLENGES



1 Aging and life
expiring
assets



2 Budget /
funding
challenges



3 Material availability
and cost

WHAT IS ASSET MANAGEMENT?

“The coordinated activity of an organisation to realise **value** from its assets.”

“The realisation of value will normally involve the balancing of **cost, risks, opportunities** and **performance** benefits.”

ISO 55000 standard (clause 3.3.1)

“Managing assets so that they can provide products and services now, and into the future, is a core part of the discipline known as asset management.”

The IAM – An Anatomy of Asset Management

MANAGING ASSETS & ASSET MANAGEMENT

Managing Assets

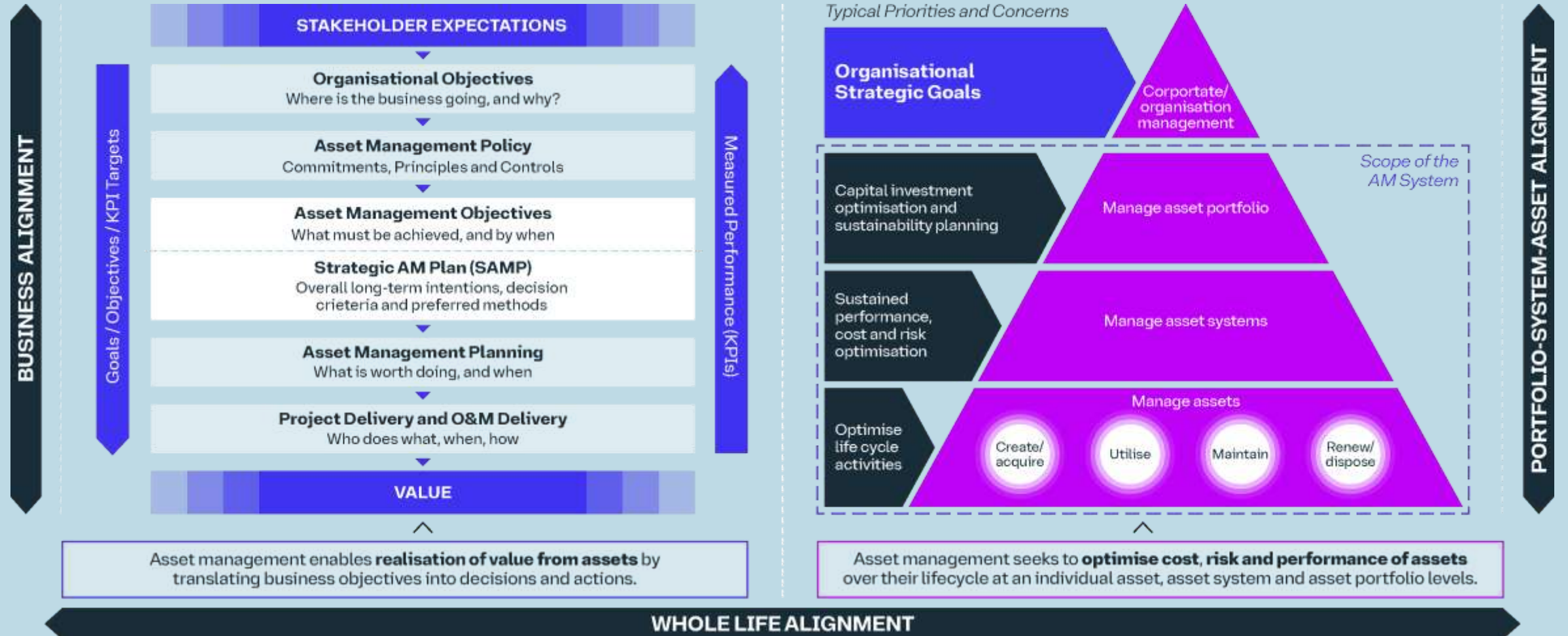
- Lifecycle activities and asset care - availability, reliability, dependability and safety
- Asset location, condition, life extension and/or interventions
- Asset databases, systems (and IT) and performance
- People, skills and work management
- Budgets and key performance indicators (KPIs) / cost of maintenance and current performance

SHIFTING
FOCUS

Asset Management

- The purpose of your organisation and what assets does it need – and why
- Value, purpose and long-term outcomes
- Risk and context e.g. markets/climate/regulation
- Holistic approach to different funding streams e.g. CAPEX and OPEX
- Collaborative behaviours - breaking down silos both internal and supply chain
- How assets and the supply chain contribute to the organisational value chain

Asset Management Enables Alignment Across an Enterprise



Heathrow Airport AM Integrator

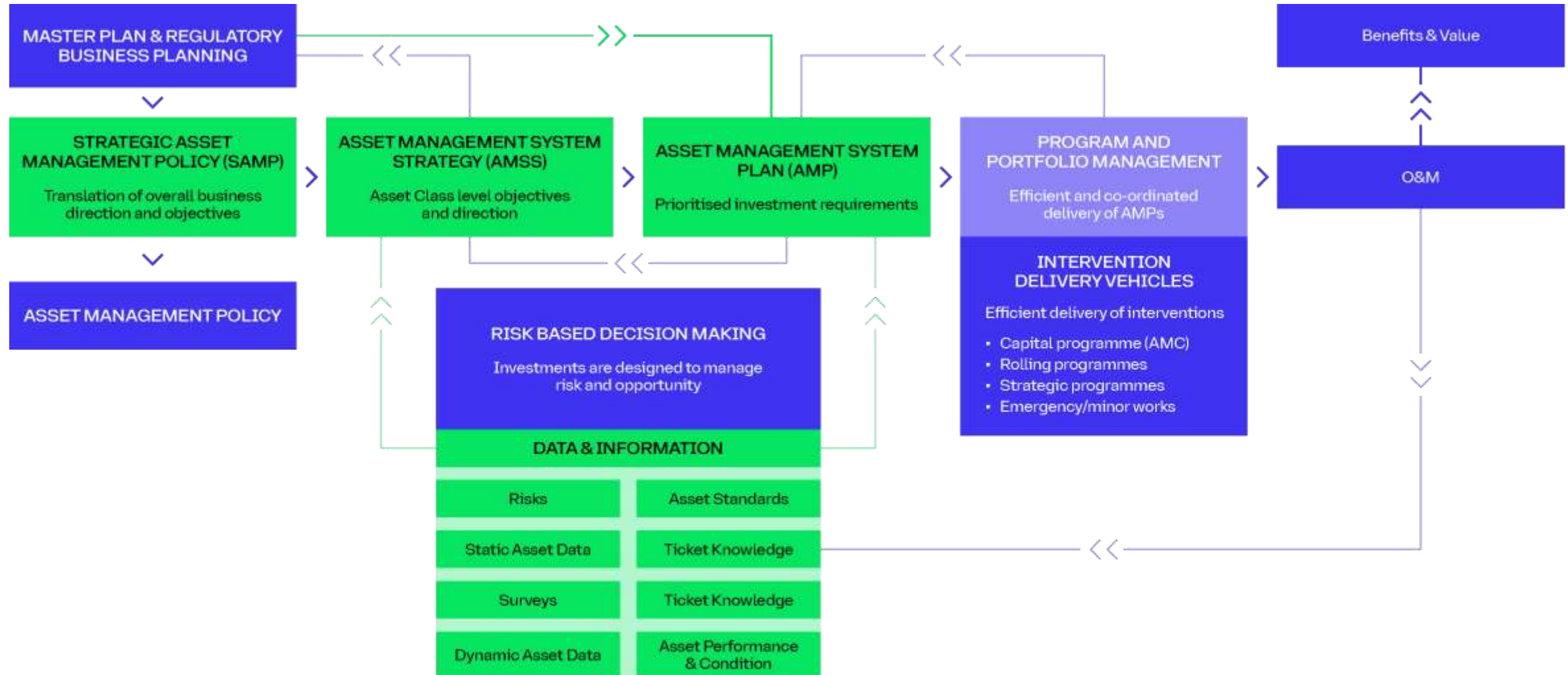
Project Objectives

- Act as integrator, bringing together three lead delivery supply chain partners and Heathrow Engineering and Operations for a unified and collaborative approach
- Develop products that enable investment planning decisions for:
 - H8 (Regulatory investment submission)
 - Project scoping efficiencies
 - Portfolio level optimisation of investments
 - Alignment to risk management
- Update Asset management Plans and Strategies for all systems across the Heathrow Estate
- Bring Asset Management Best Practice to approach and documentation



AM Integrator working with the client and supply chain to enable an AM programmatic approach that works for all parties.

Dynamic Asset Management Planning



Translink AM Systems

Project Objectives

- Overarching Enterprise Asset Management (EAM) Strategy
- Enterprise Asset Management Requirements and Tool Selection
- Improved visibility of assets & risks across the Permanent Way (Rail) and Structures
- Development of a Strategic Asset Management Plan
- Delivery of IAM Asset Management Certificate Training
- Asset Investment Planning Decision Support Framework and Tools development
- Development of Asset Class Strategies to inform the DST



Asset Management Advisor working with the client to enable aligned asset management decision making across the organisation.

Canada Line AM Operations

Project Objectives

- Operator of the Canada Line in Vancouver
- 4-year mobilisation, 31 years Operation and Maintenance, 200 Employees
- Control Room Operations and Staff
- Customer Service Supervisors and Attendants
- Complete lifecycle responsibility for all the assets including rolling stock
- Planning and execution of asset maintenance during daily system maintenance window
- Preventative maintenance scheduling and reporting
- Continuing to innovate with Earthquake early warning and track geometry analysis
- Future focus on infrastructure enhancements, line extensions and new stations



Delivering services for the Client and the people of Vancouver using asset management to reduce capital expenditure and overall maintenance cost.

Delivering Value through Asset Management

- A discipline that's time has come!
- By taking an AM driven approach, we can all increase the value delivered
- Think and plan across the Enterprise – be collaborative and we will all benefit
- There's so much work to be done, we have to do this!

ASSET MANAGEMENT DIFFERENTIATORS

