



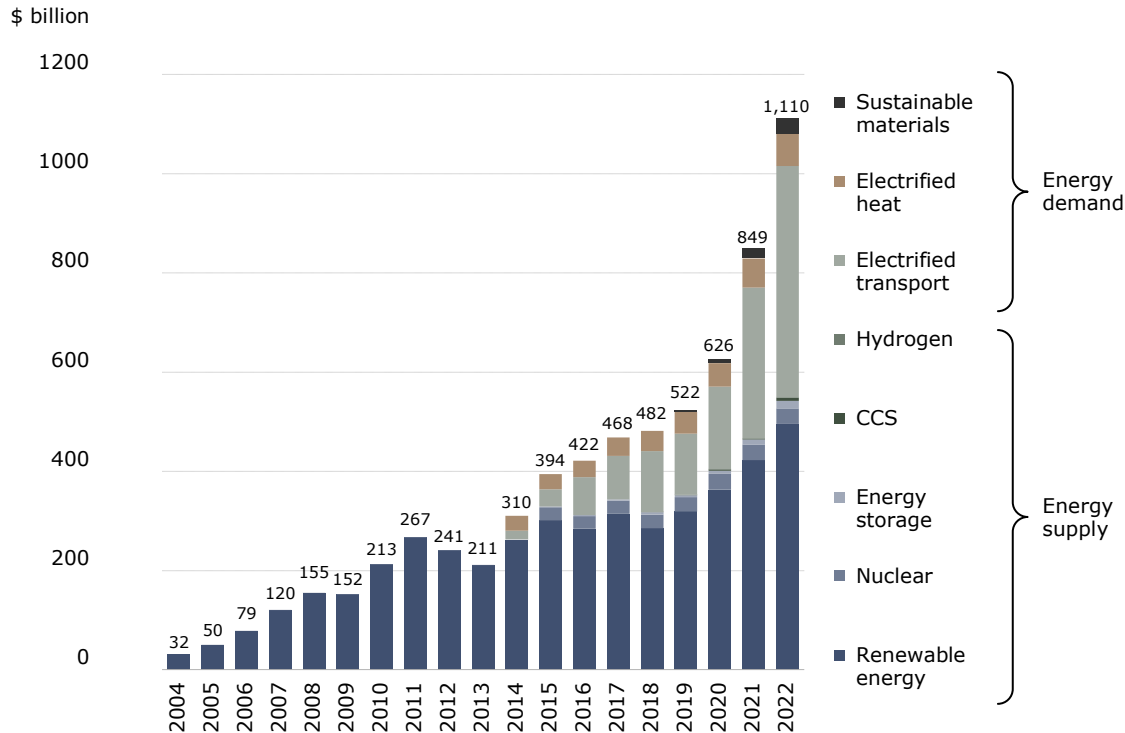
# Asset Management Service Portfolio for the Energy Industry

AFRY Management Consulting | AFRY Asset Management Systems

APRIL 2024

# An end-to-end asset management capability anchored in the strategic planning process is gaining considerable importance in asset-intensive industries

## GLOBAL INVESTMENT IN ENERGY ASSETS







Source: BloombergNEF, AFRY point of view

## TOP REASONS FOR ASSET MANAGEMENT

- 1 **Enabling Strategic Asset Portfolio Management**  
Facilitating long-term strategies for optimising sustainable asset portfolios including their interdependencies
- 2 **Optimising Resource Allocation**  
Efficient resource usage for cost-effective investments and project prioritisation
- 3 **Enhancing Grid Reliability**  
Ensuring a stable and resilient energy supply through proactive grid maintenance and management
- 4 **Mitigating Risks**  
Minimising uncertainties, managing volatility, and adapting to evolving market dynamics and regulations
- 5 **Meeting Environmental and Regulatory Standards**  
Achieving sustainability goals, reducing emissions, and complying with stringent environmental regulations
- 6 **Supporting Data-Driven Decision-Making**  
Leveraging data insights for informed choices, predictive maintenance, and operational excellence

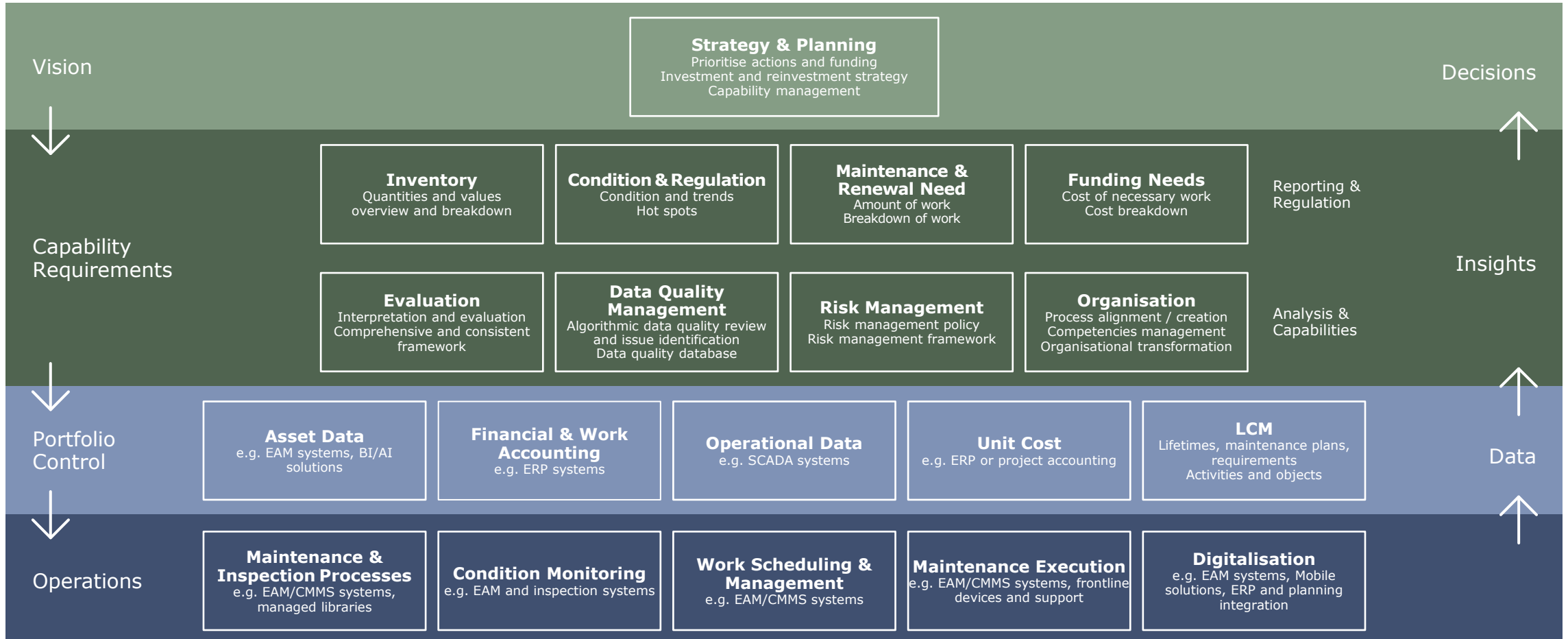
AFRY Management Consulting is active in all asset-intensive parts of the energy value chain and well aware of their different characteristics

DIMENSION	 DSO / TSO	 Wind / PV	 District Heating	 Gas / Hydrogen
Asset geography	Highly distributed	Clustered	Local   Distributed	Local
Asset complexity	Medium	Low	High	High
Portfolio diversity	Medium	Very low	Very high	High
Asset lifetime	20 to 50 years	25 to 40 years	20 to 50 years	20 to 40 years
TOTEX focus	Historically CAPEX	CAPEX	Balanced	OPEX
Revenue regime	RAB, regulated	Partly regulated / partly market-based	Mostly non-regulated <sup>1)</sup>	Market-based
Market trends	TOTEX regulation, electrification, reinvestments	Insourcing of services, data analytics & automation	Decarbonisation <sup>2)</sup> , higher fuel prices, new asset types	Decarbonisation, less full-load hours, transition to H <sub>2</sub>

1) regulated in some countries, e.g. Norway 2) already close to fully decarbonised in some countries, e.g. Sweden

ASSET MANAGEMENT PYRAMID

AFRY's asset management pyramid supports clients by turning company-wide data into insights and ultimately decisions integrating all levels



With 70+ experts, integrated services and our proprietary software, we cover the entire asset management spectrum across all relevant industries

### OVERVIEW

EXPERTS WORLDWIDE

**70+**

(end of 2023)

KEY PARTNERSHIPS

**IBM MAXIMO  
Gold Partner**



ASSET VALUE MANAGED BY  
AFRY APPROACH

**€ 700+ bn**

AFRY'S SOFTWARE

**MIAM** 1)

### CORE PILLARS OF OUR ASSET MANAGEMENT SERVICE PORTFOLIO

Comprehensive, **data-driven approach** for condition evaluation, CAPEX/OPEX/CO<sub>2</sub> forecasting and simulation

**Proprietary MIAM<sup>1)</sup>** software for **customisable approach**

Algorithm-based **data quality management**

**Maturity assessments and certification schemes** in line with ISO 55000 & IAM<sup>2)</sup> frameworks

**Business case models** for multi-year to multi-decade technology programs

**Data-driven maintenance optimisation and digitalisation**

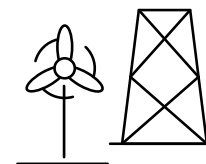
### OUR CROSS-INDUSTRY EXPOSURE



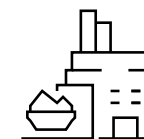
Aviation



Railway



Energy



Industry

1) MIAM: Mobility Infrastructure Asset Management; 2) Institute of Asset Management

AFRY MANAGEMENT CONSULTING

## Contact us

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# Making Future