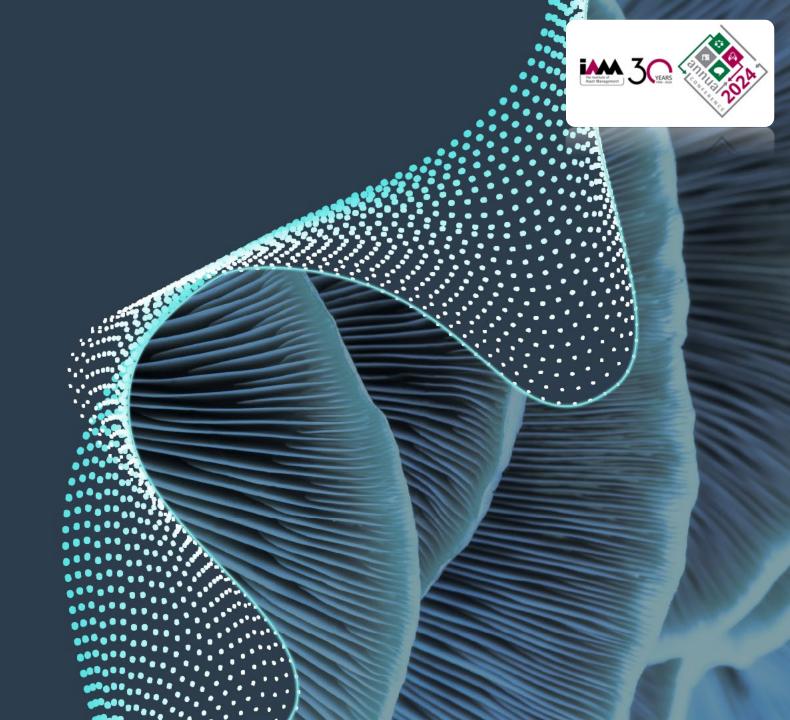
## ENOWA. NEOM

# BUILDING EAM DATA FROM THE 'GROUND UP'

A VALUE-DRIVEN APPROACH TO INTEGRATED UTILITY NETWORKS

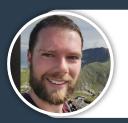
13 JUNE 2024



### SESSION OVERVIEW

- 1. WHO IS ENOWA?
- 2. WHAT CHALLENGES DO WE FACE?
- 3. HOW ARE WE PREPARING OUR ASSET DATA FOR OPERATION?





Craig Walker
Head of Asset Management
ENOWA Grid



Alexander Damas
Principal Consultant
AMCL





#### WHO IS ENOWA?



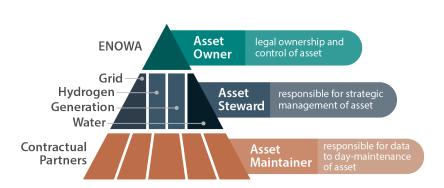
"PARTNERING WITH NATURE TO TRANSFORM AND REALIZE THE SUSTAINABLE POSSIBILITIES OF ENERGY AND WATER"

**ENOWA Vision** 

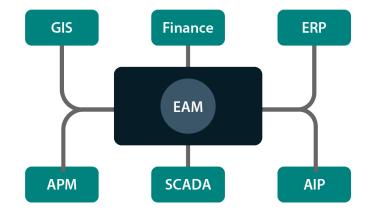
#### **Asset base**



#### **Asset Management Model**



#### **Asset Management Technologies**







#### **OUR TECHNOLOGY JOURNEY**

Iterative development over time recognising business maturity needs.









Technologies configured and data loaded

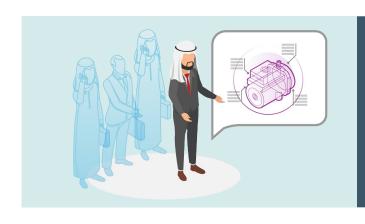


Integrated solutions and data available for operation

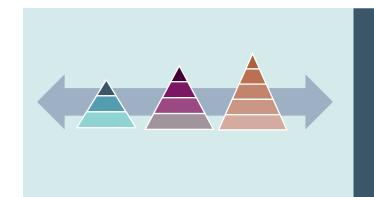


#### WHAT ARE OUR DATA CHALLENGES?

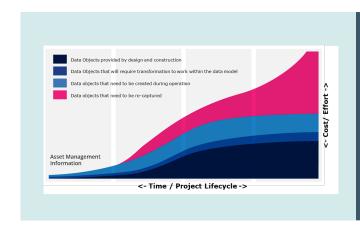




Develop data specifications from 'scratch'



Creating commonality across a diverse asset base



Capturing data before its "too late"



Developing our data management capability





#### HOW MANY ORGANISATIONS DEVELOP THEIR



#### **EAM DATA**





### WITHOUT UNDERSTANDING ITS VALUE BEYOND "CMMS"



I ensure that work can be delivered on site effectively and safely



I conduct demand analysis to determine what capacity our infrastructure needs to provide going forward.



I generate an optimised list of investments that to deliver our desired level of service.



Maintenance Execution

Performance Management

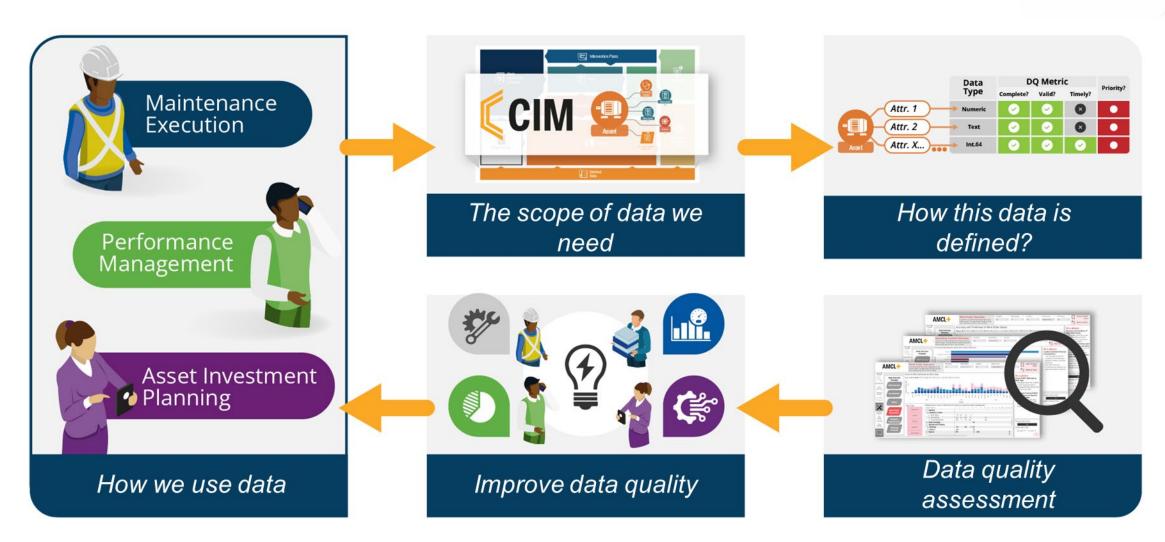
Asset Investment Planning





### EAM DATA NEEDS TO SUPPORT BROADER ASSET MANAGEMENT

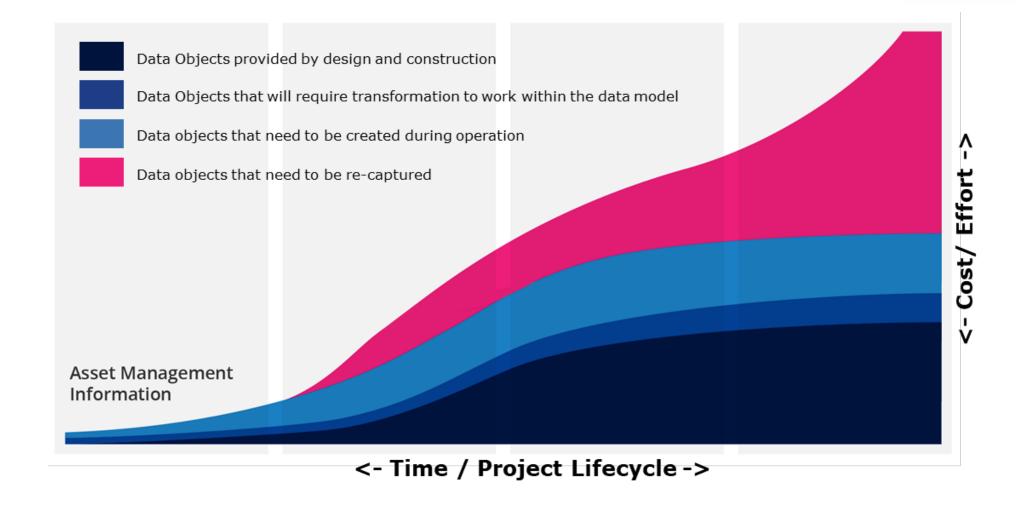






### THE VALUE OF GETTING IT RIGHT FROM THE START







### DEVELOPING OUR DATA FROM 'FIRST PRINCIPLES'



Understanding what we want and what we need

Developing our **Data**Requirements

Developing our **Data Structures** 

Building an EAM platform that **Delivers Value** 

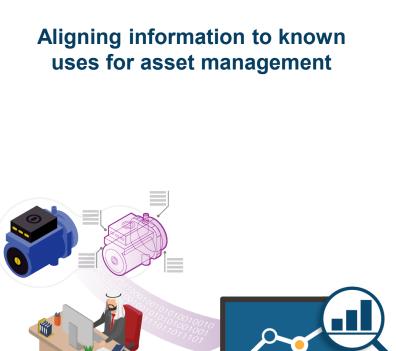




#### DEVELOPING OUR DATA REQUIREMENTS FROM 'FIRST PRINCIPLES'









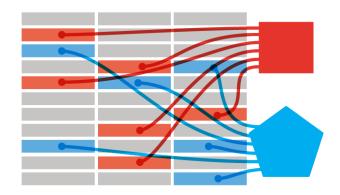


### DEVELOPING OUR DATA STRUCTURES FROM 'FIRST PRINCIPLES'





Mapping asset classes across disciplines to provide a single set of asset classes

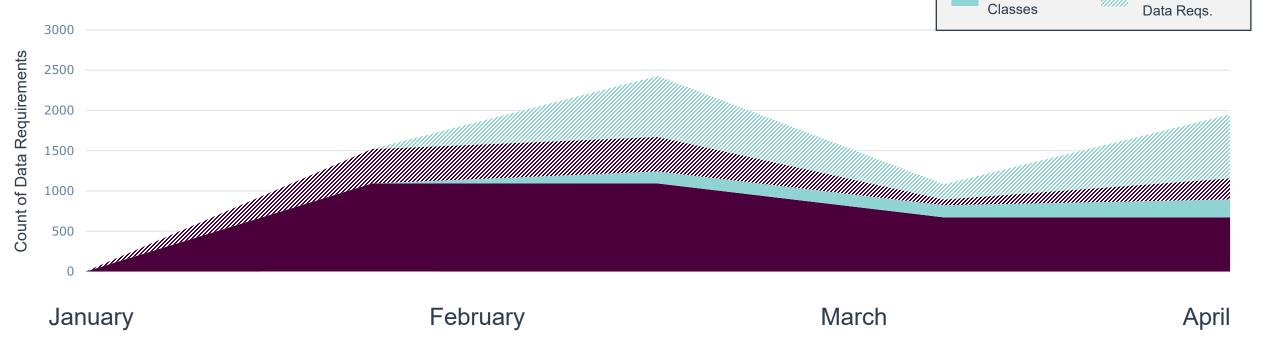






#### **OUR DATA REQUIREMENTS JOURNEY**





What we wanted

What we <u>discovered</u>

What we needed to 'build'

Where we are today

See next page





#### WHERE IS OUR DATA TODAY?



880

Cross-sector asset classes

+80%

Equipment classes with properties

100%
Data supported by internal data governance

100%

Data presented with AM use case

+600

Insights from industry standards

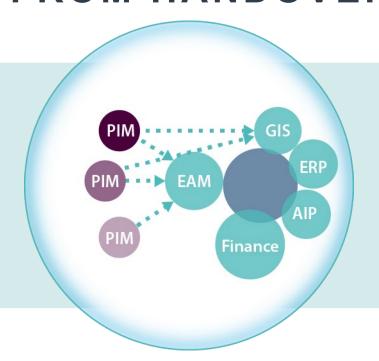
+71%

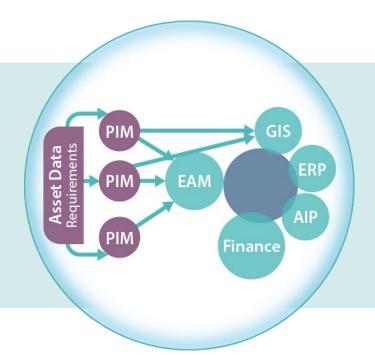
Picklists populated

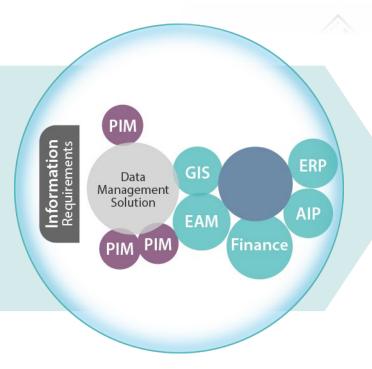


### ACCEPTING AND ASSURING DATA FROM HANDOVER









#### Where we were

- Each project has its own data requirements
- Unable to validate and assure incoming data
- Significant gaps in what data had been requested against what is needed

#### Where we are today

- Single set of asset data requirements
- Manual validation and assurance checks for incoming data
- Data manually transformed and uploaded into end-state systems

#### Where we will go

- Single set of information requirements (there's more than asset data!)
- Technology supports the validation and assurance of incoming data
- Data is automatically loaded into end-state systems





### HOW WE ARE ADDRESSING OUR DATA CHALLENGES



#### **CHALLENGE**

- Develop data specifications from 'scratch'
- Creating commonality across a diverse asset base
- Capturing our data before its "too late"
- Developing our data management capability

#### **APPROACH**

Leverage best practice exemplars and industry standards

Adopt & combine industry recognized classifications and naming conventions

Requesting data from supply chain before handover

Adopt a non-invasive approach to data governance with just enough rules to support cooperation

#### **OUTCOMES**

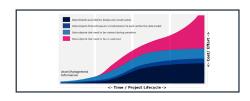
Rapid development of asset data requirements



Common classifications to support integration



Getting the right data at the right time



Scalable processes with automation in mind

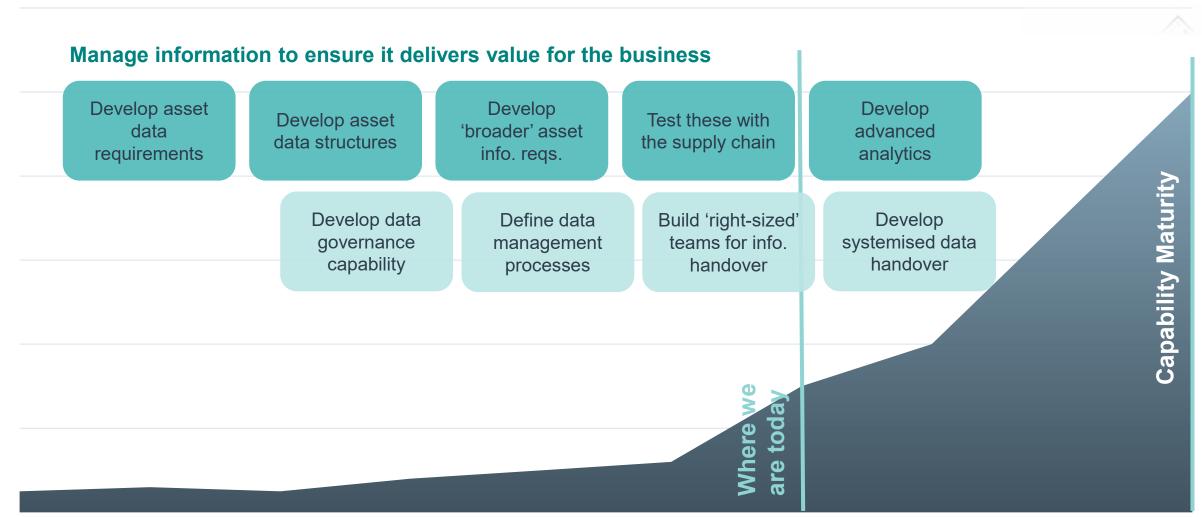






#### Our continued journey to building our EAM Data





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