



International  
Association  
of Oil & Gas  
Producers



An IOGP programme



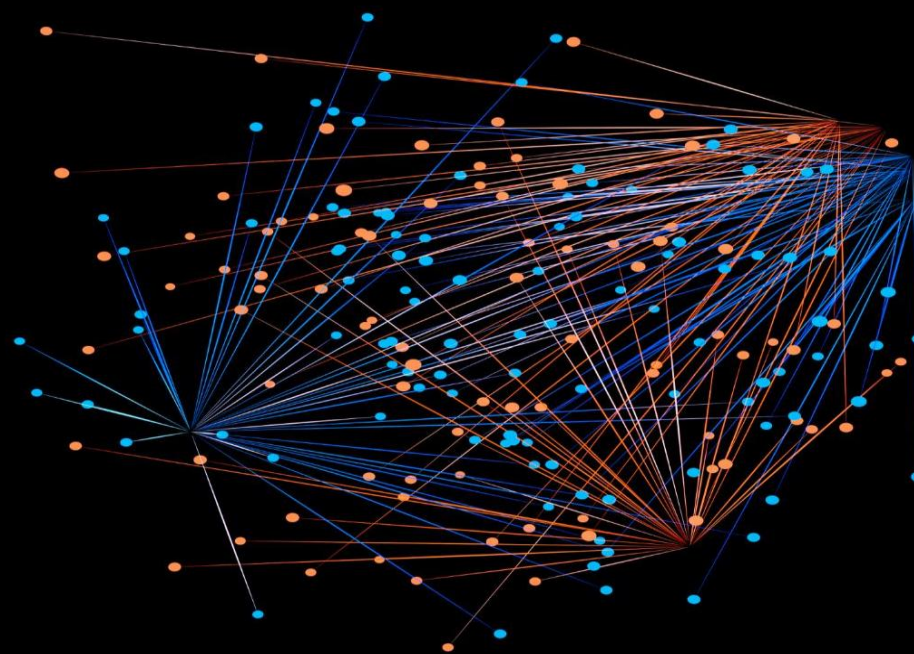
International  
Association  
of Oil & Gas  
Producers

# IDO training - lifecycle

CFIHOS Semantics - lifecycle

Onno PAAP

21 April 2026



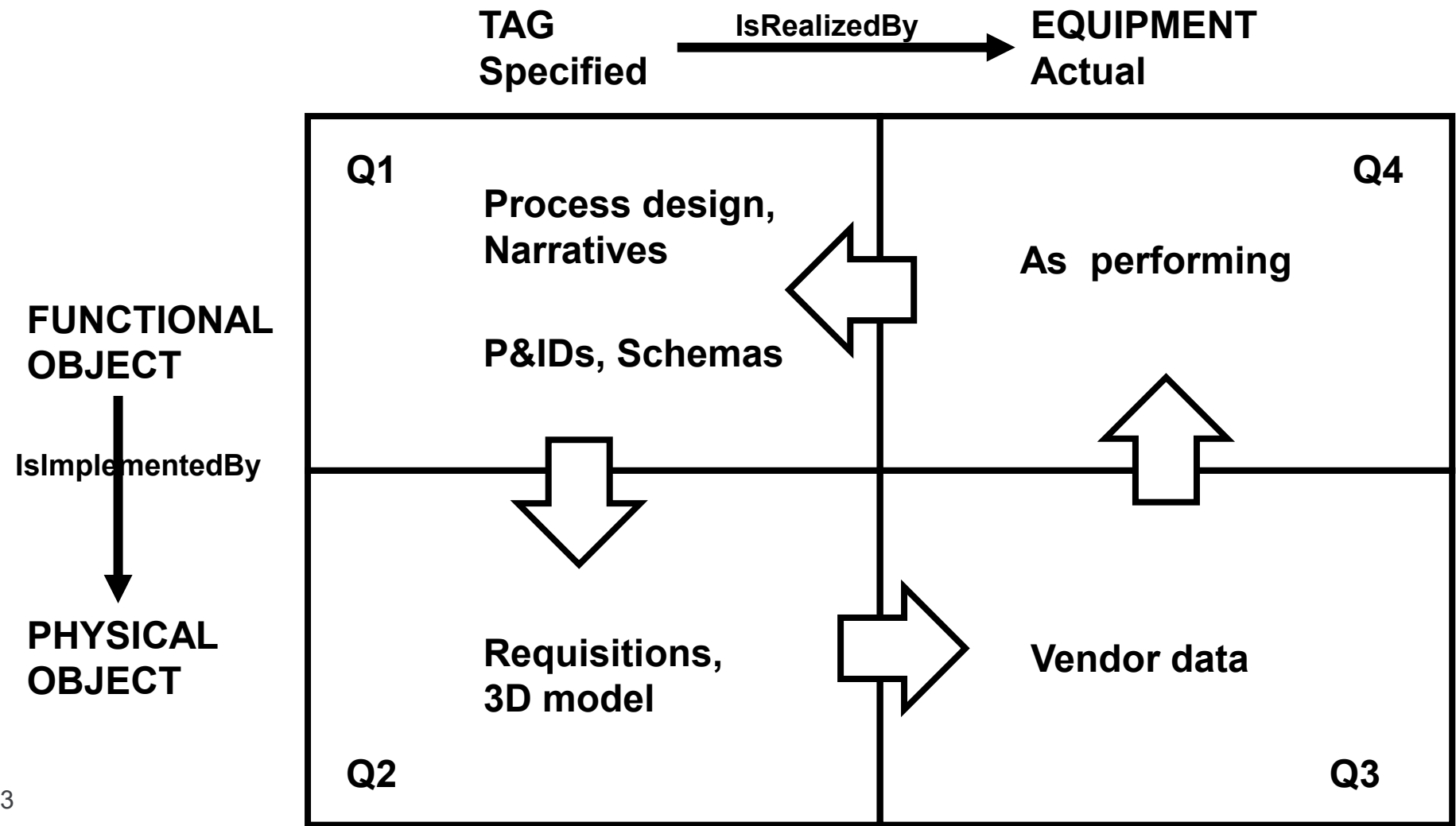
# About the CFIHOS Semantics project

The reason we started this, is about: What this delivers for you

---

- **Faster projects – due to the availability of data**
  - Quicker data handover and onboarding of contractors and suppliers
  - Changes handled without redesigning schemas or templates
- **Trustworthy automation – due to the system keeping itself up to date from all available data sources**
  - Consistent meaning across tools enables validation, AI, and digital handover
  - Less dependence on PDFs, spreadsheets, and human interpretation
- **Lower lifecycle cost - due to the complete data integration**
  - Fewer late fixes, less rework, less manual reconciliation
  - Information stays usable as requirements and regulations change
- **Protection of today’s investment – due to the versatility of a semantic ontology**
  - Existing CFIHOS data remains valid as the standard evolves
  - No lock-in to specific tools, databases, or vendor models
- **Bottom line**
  - ***Semantics lets CFIHOS scale with your business rather than constrain it.***

# Lifecycle quadrant in CFIHOS



# Lifecycle class separation

- Tag Class
  - Centrifugal Pump
  - Allowable Properties
- Equipment Class
  - Centrifugal Pump
  - Allowable Properties

Review Draft

## S-615D Data Sheets for Centrifugal Pumps



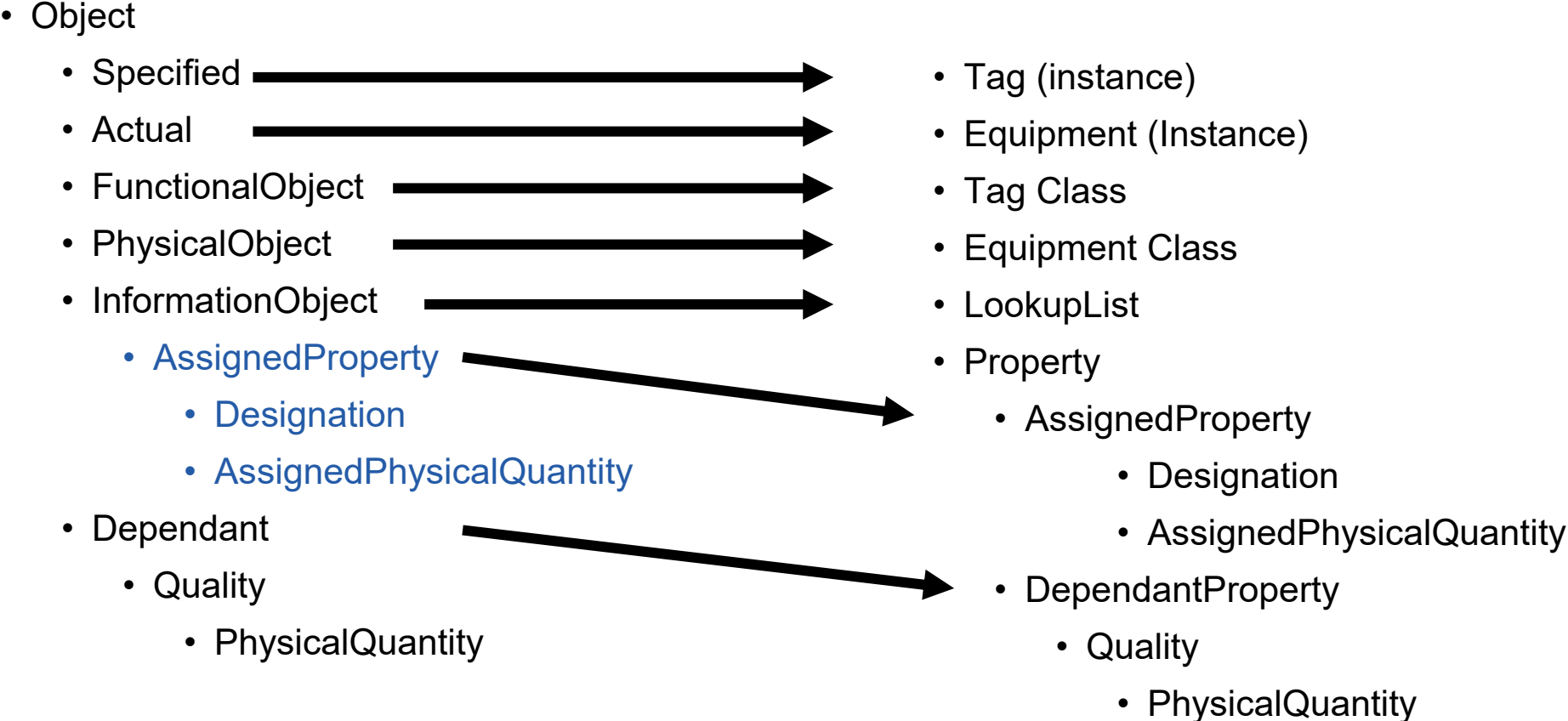
Issue

Description	Purchaser requirement	Purchaser requirement UOM	Supplier offered value	Supplier offered UOM	Additional notes
<b>General information</b>					
Conformity assessment system (CAS) level :	D		D		
<b>Identifier</b>					
Tag number :	input data		input data		
Tag description :	input data		input data		
<b>General</b>					
Applicable to :	select		select		
Units :	select		select		
Manufacturer :	input data		input data		
Pump model and size :	input data		input data		
Number of stages :	input data		input data		
Number required :	input data		input data		
Service :	select		select		
Number of starts :	select	per	select	per	
Instantaneous start up required :	select		select		
Warm-up or cool-down line for instantaneous start up :	select		select		
Pumps operate in :	select		select		
<b>Liquid characteristics</b>					
Liquid name :	input data		input data		
Liquid type :	select		select		
Vapour pressure at rated temperature :	input data	select	input data	select	
Vapour pressure maximum :	input data	select	input data	select	
Vapour pressure minimum :	input data	select	input data	select	
Relative density rated :	input data		input data		
Relative density maximum :	input data		input data		
Relative density minimum :	input data		input data		

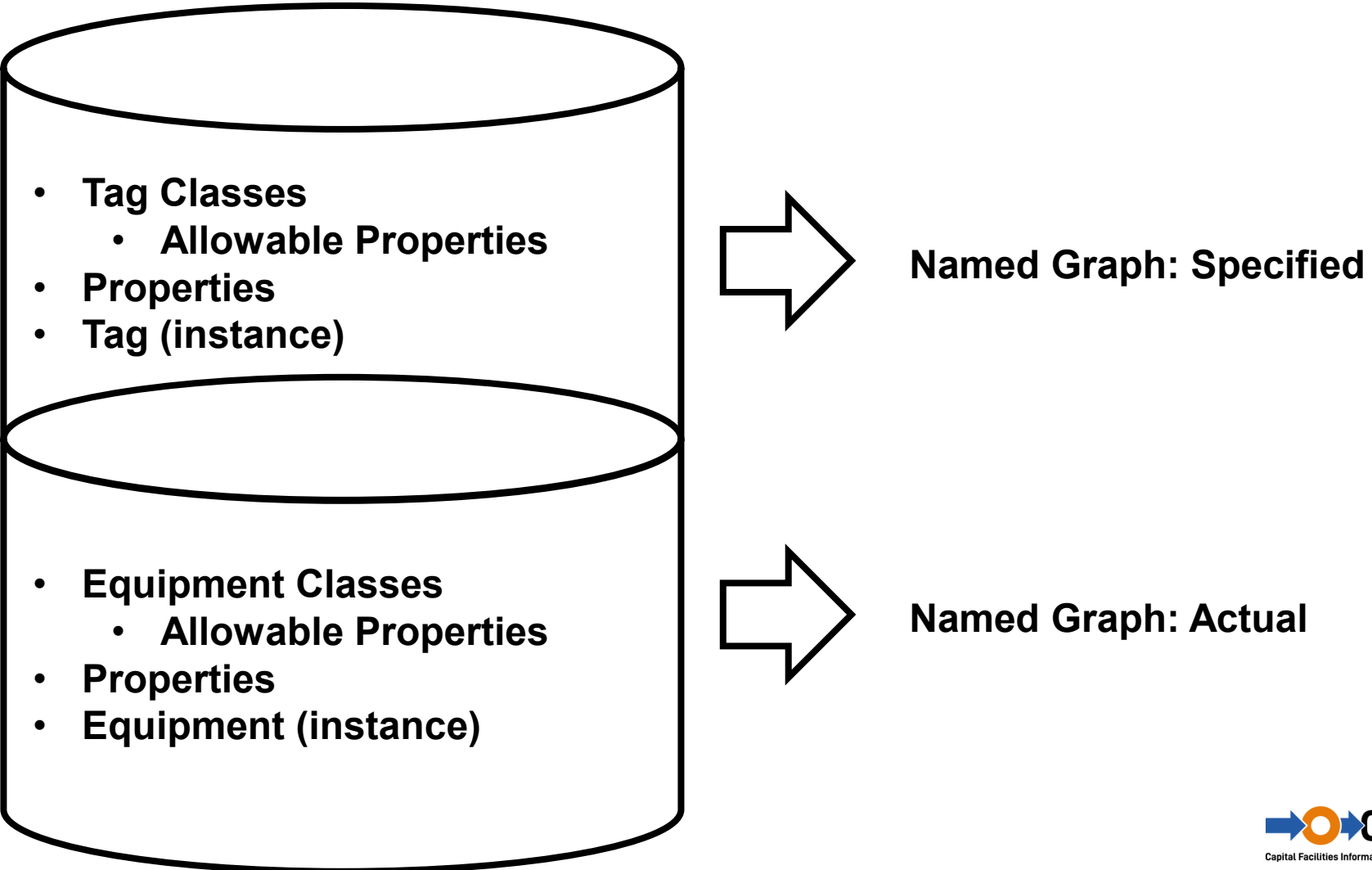
Public Review

# Lifecycle data in IDO

## IDO Upper Ontology



# Lifecycle datasets in Named graphs



## For more information please contact:

For the content of this presentation:

Onno PAAP

Email: [onno.paap@fluor.com](mailto:onno.paap@fluor.com)

For any other information:

Peter Townson

Project Director CFIHOS (JIP36)

Email: [pt@iopgp.org](mailto:pt@iopgp.org)

### IOGP Headquarters

City Tower, 40 Basinghall St, London EC2V 5DE, United Kingdom

T: +44 (0)20 3763 9700

E: [reception@iogp.org](mailto:reception@iogp.org)

### IOGP Americas

T: +1 713 261 0411

E: [reception-americas@iogp.org](mailto:reception-americas@iogp.org)

### IOGP Asia Pacific

T: +61 4 0910 7921

E: [reception-asiapacific@iogp.org](mailto:reception-asiapacific@iogp.org)

### IOGP Europe

T: +32 (0)2 790 7762

E: [reception-europe@iogp.org](mailto:reception-europe@iogp.org)

### IOGP Middle East & Africa

T: +1 713 261 0411

E: [reception-mea@iogp.org](mailto:reception-mea@iogp.org)

[www.jip36-cfihos.org](http://www.jip36-cfihos.org)