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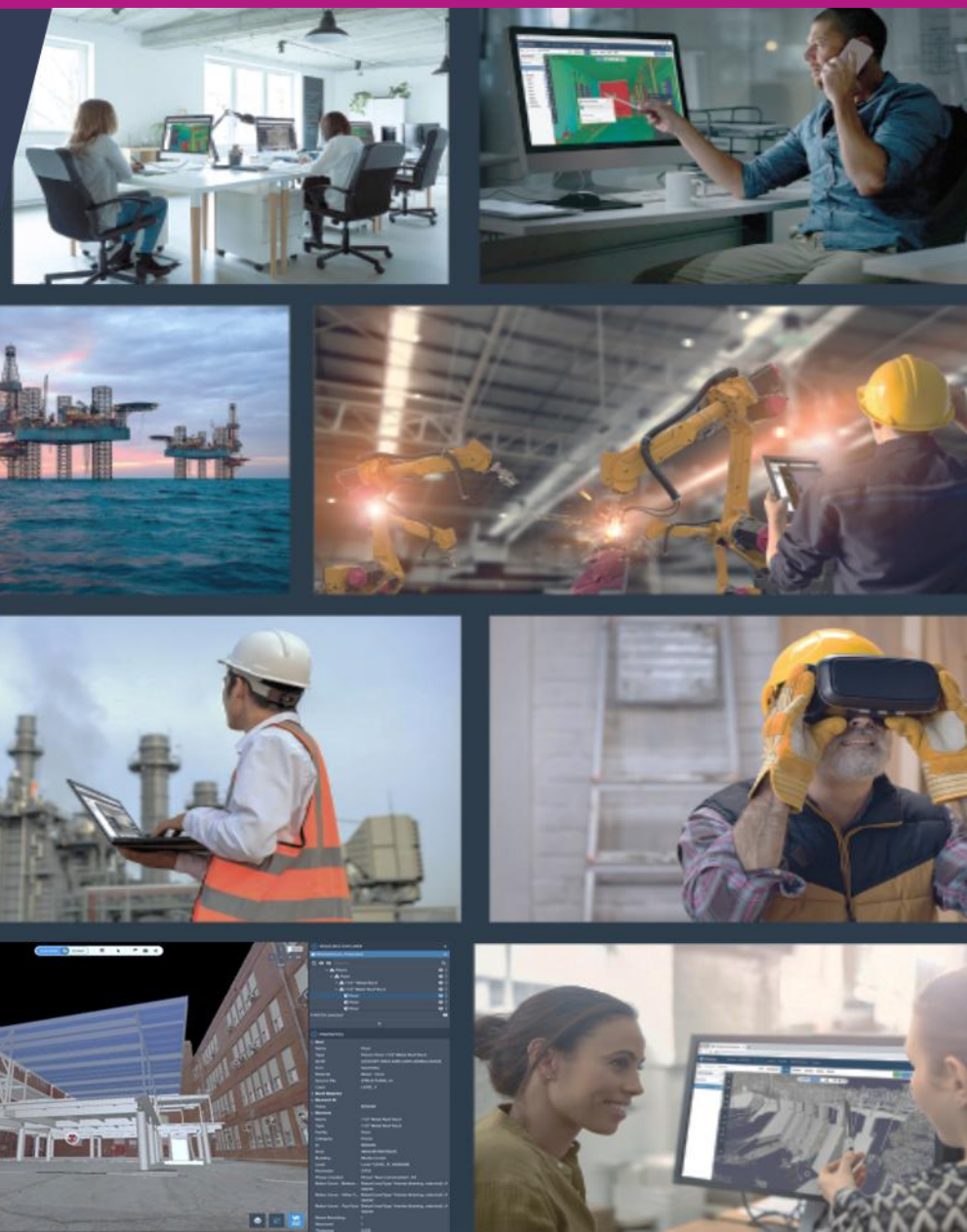
The Visual Twin Platform

Reality Capture and digitizing our assets



Todays speaker

Ryan Goggin

Strategic Account Manager

Ryan.goggin@cintoo.com

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Todays session

Reality Capture - Digitizing The Asset:
A New Era In Site Intelligence from engineering to operations and abandonment

- Asset Visualisation Platforms
- Design Intent to Operations
- Scan First - A Smart Foundation
- Early Design Validation
- Coordination Across Stakeholders
- Accelerated Engineering
- The Path Forward
- Q & A

Advances

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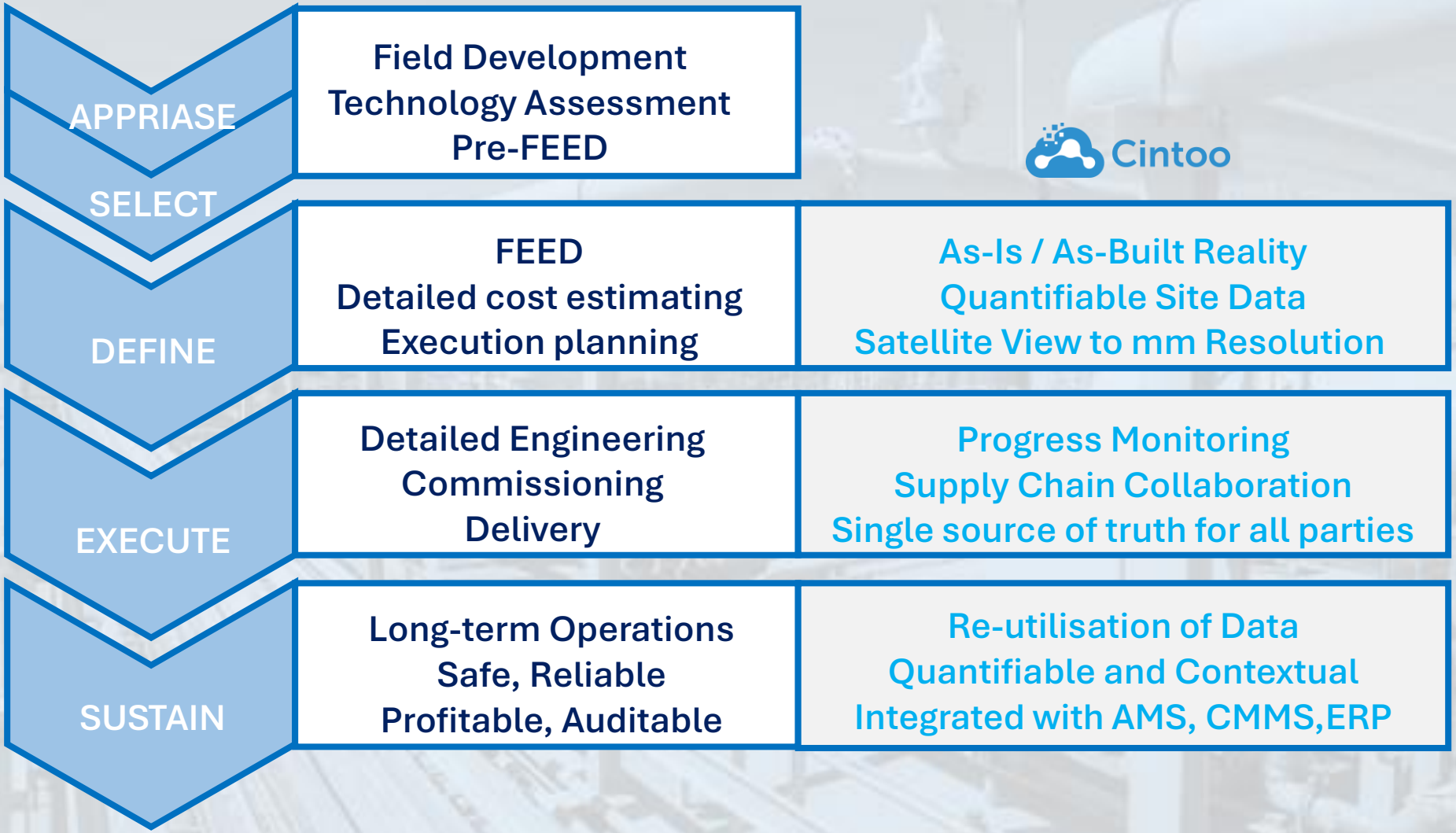
Project lifecycle



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Scan first – A smart foundation

Surveyors
Scope Definition
Prefabrication
Design Validation
Engineering
Project Management
EPC Contractors
Maintenance
Regulators
QA/QC
QA/QC Teams
Handover Documentation
Constructability
Operations
Clash Detection
Digital Twin Enablement

Cintoo Visual Twin Foundation

One foundation, many workflows & users – aligned from day one.

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Project challenges

Early Errors Multiply As Projects Progress

Design Assumptions → Misalignment → Field Clash → Rework → Delay → Cost Overrun

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Data Overload > Actionable Intelligence

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Onshore

Offshore

One Set of Scans -
Multiple Layers of Value

Brownfield Expansion

Greenfield Development

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Data Overload > Actionable Intelligence

Digitization of assets and increasing complexity across the tech-stack

Complex and often hazardous process equipment

Complex transmission and storage of materials

Continual focus on process safety with evolving legislation

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Data Overload > Actionable Intelligence

1 Typical Refinery
= 500,000+
Asset Components

1 Typical FPSO
= 1,000,000 +
Scanned Objects

The challenge isn't collecting scan data — it's transforming its scale into trusted, actionable intelligence.

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From Scan to Asset Intelligence

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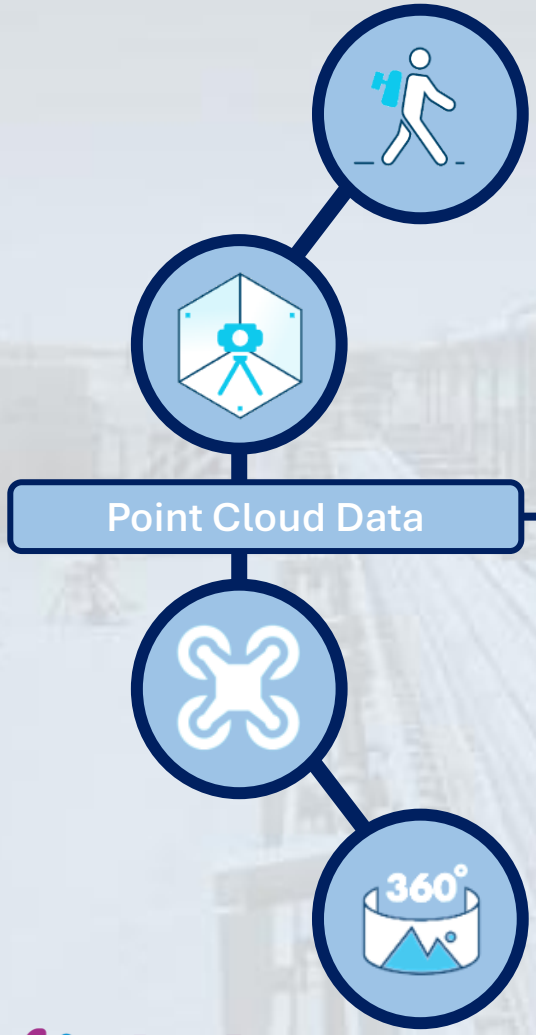

Point Cloud Data

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Meshed Visual-Twin

Tagged, Searchable, Connected Assets

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AI Enabled Asset Tagging with

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1

Create Visual Asset Tag

Manual Asset Tag

.CSV Imported Asset Tag

AI Enabled Asset Identification

Select from 34* Asset Categories

valve (handwheel)

pressure gauges

flanges

valve (handle)

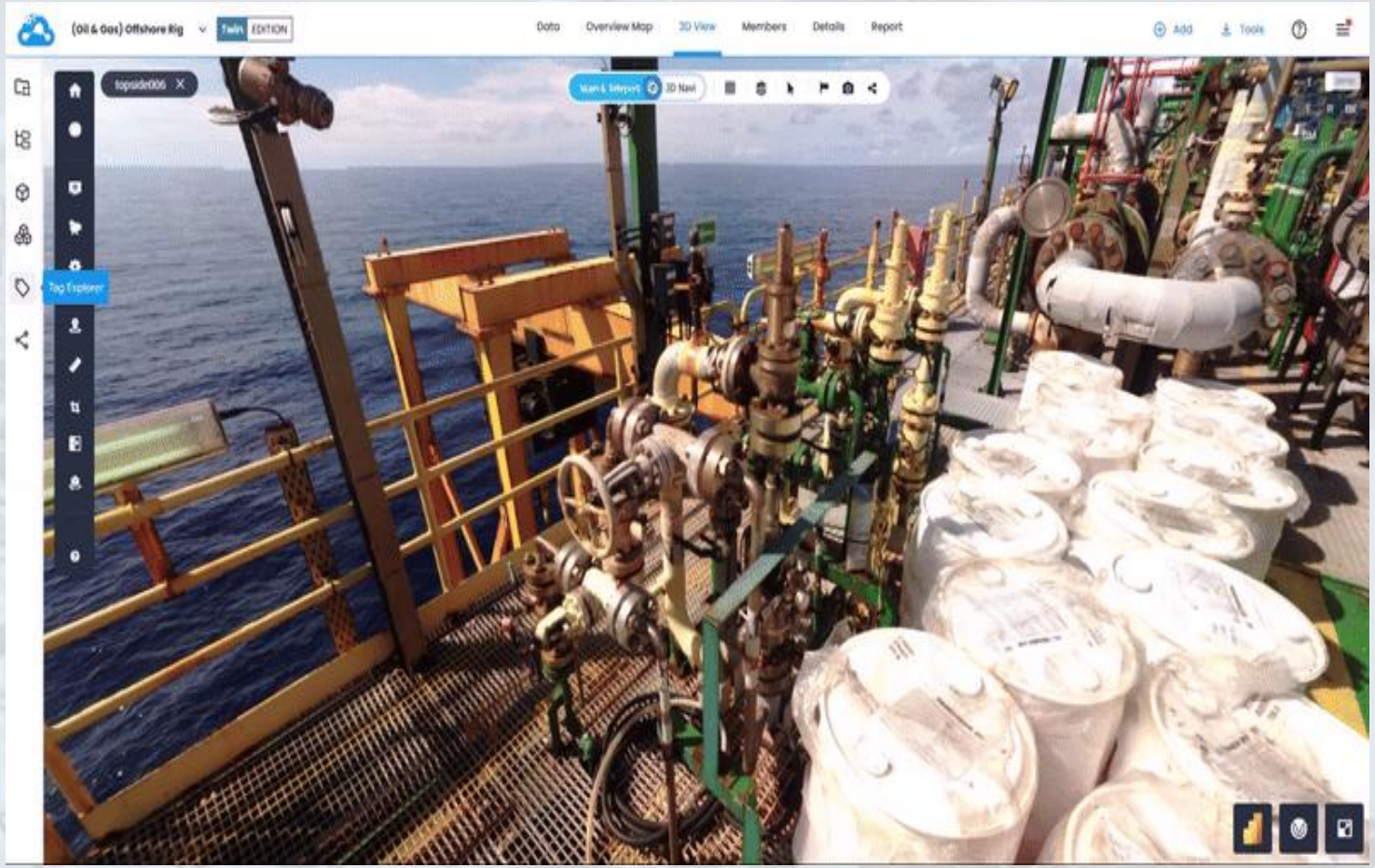
control boxes

electric motor

pipes

fire equipment

AI Auto-Detection



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AI Enabled Asset Tagging with Cintoo

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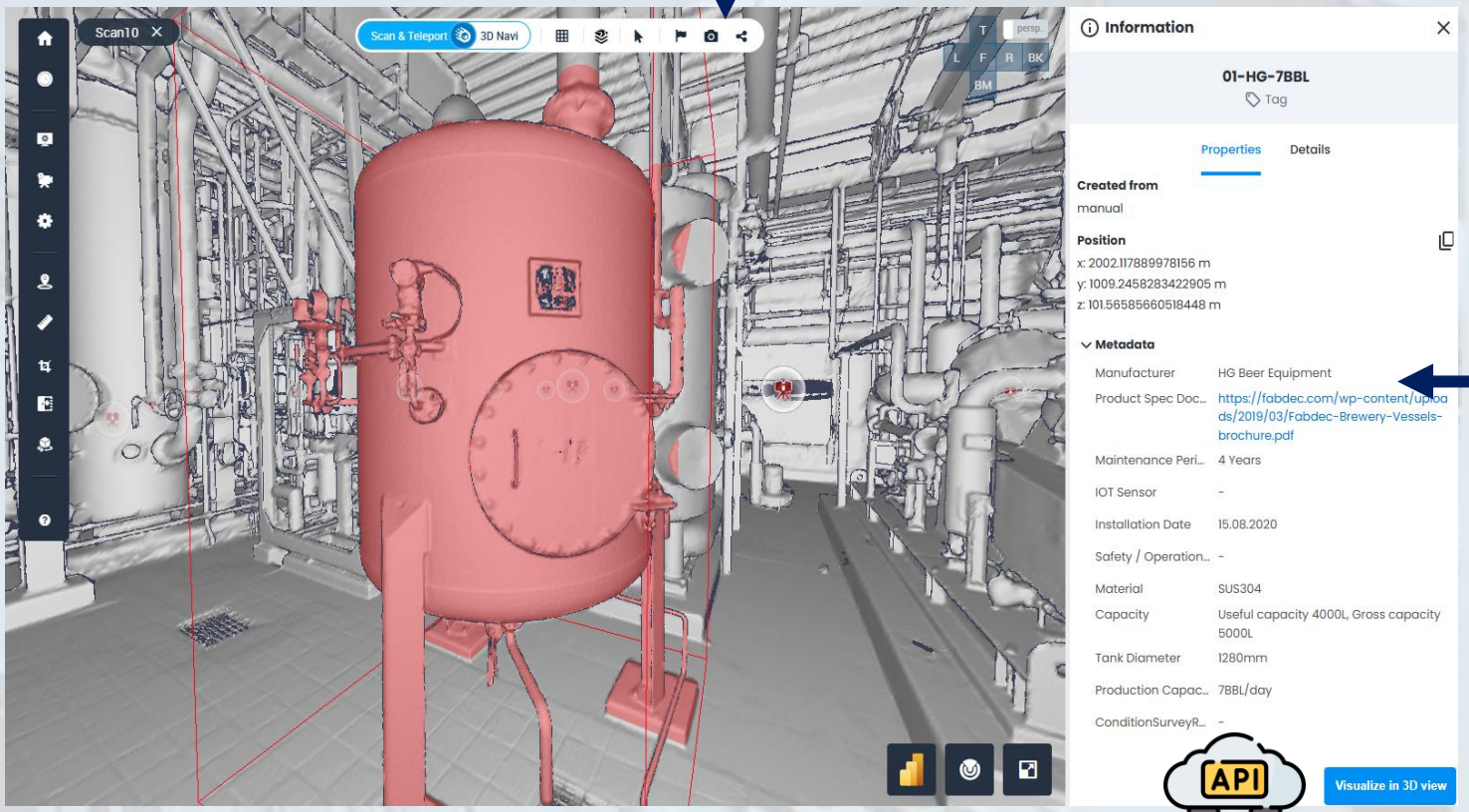
2

Input, Sync & Connect Asset Info

Manual Edit Asset Info

Download Tag List > Edit > Import

Connect Unique Tag Via URL with EAM (others)



aizo

IBM maximo

SAP

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Organisational Confidence

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Lower Safety Risk

Reduced Travel

Trusted As-Built Conditions

Smarter Planning

Faster Compliance

Streamlined Audits

Collaborate Globally

Remote Monitoring

Traceable Asset Record

Reduced Downtime

Reality Data > Insight > Confidence > Action

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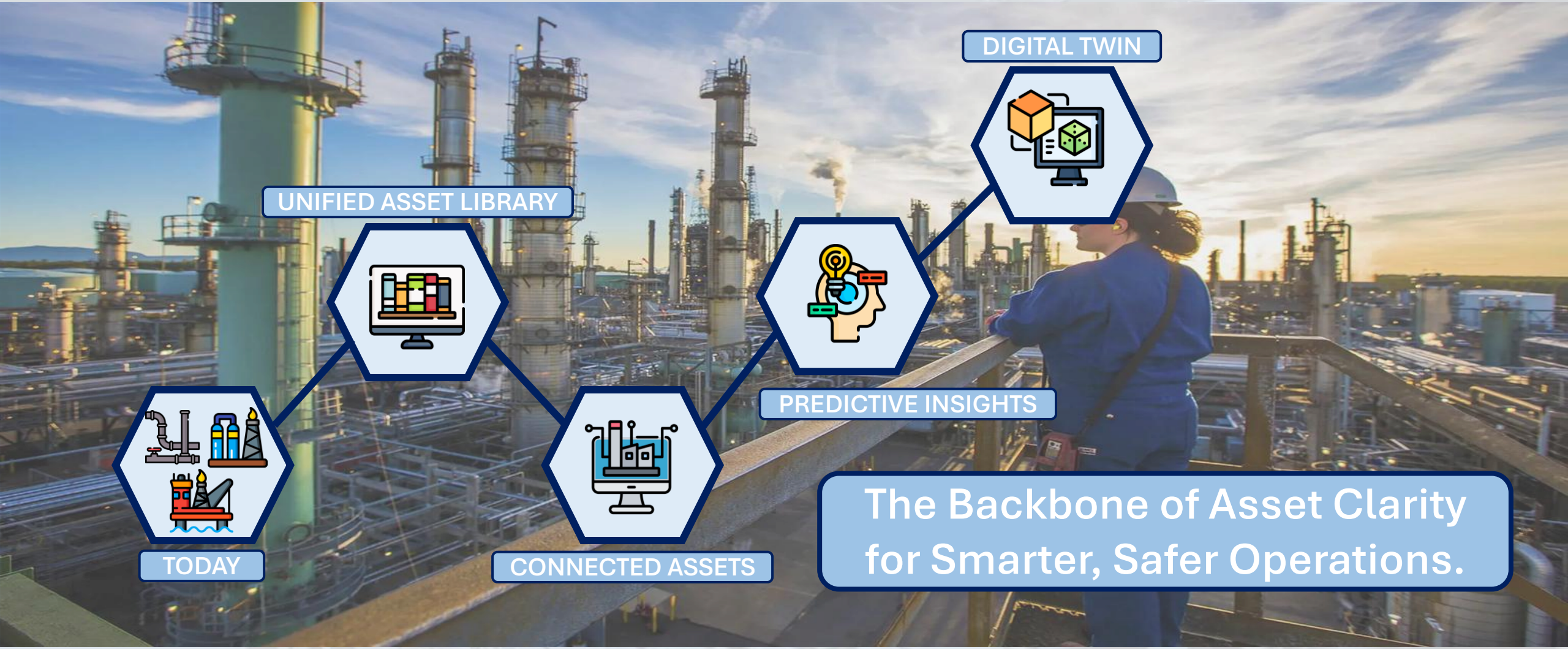
The path forward



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What next?

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Thank you

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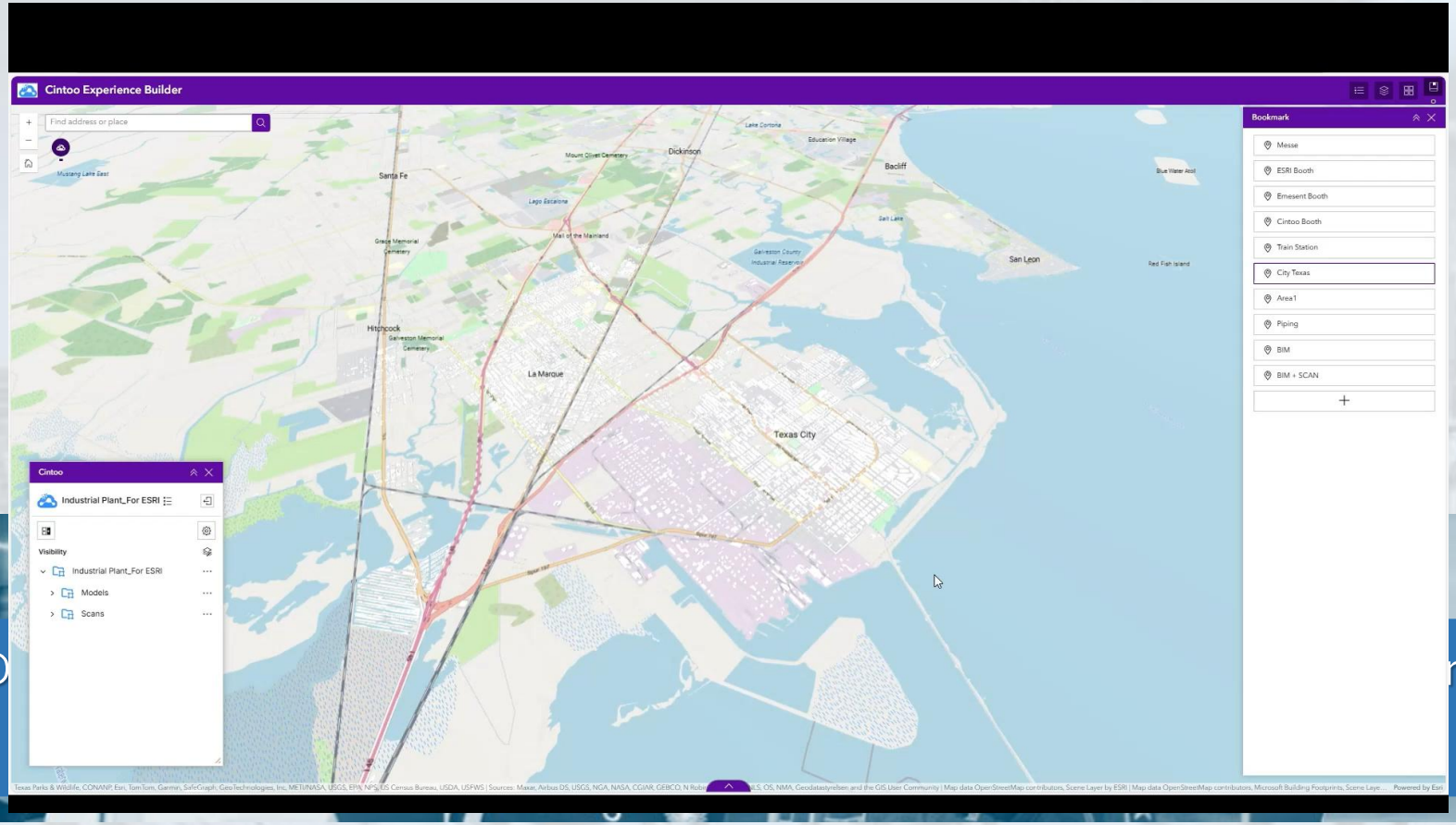

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