



NASA LaRC Engineering Collaboration with Maximo

Facility Configuration Management System (FCMS)

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Introductions



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NASA LaRC FCMS Team

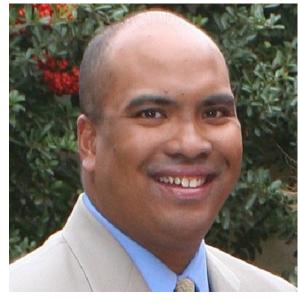
NASA LaRC
Maintenance and
Operations



Ihsan Hall

Managing Director

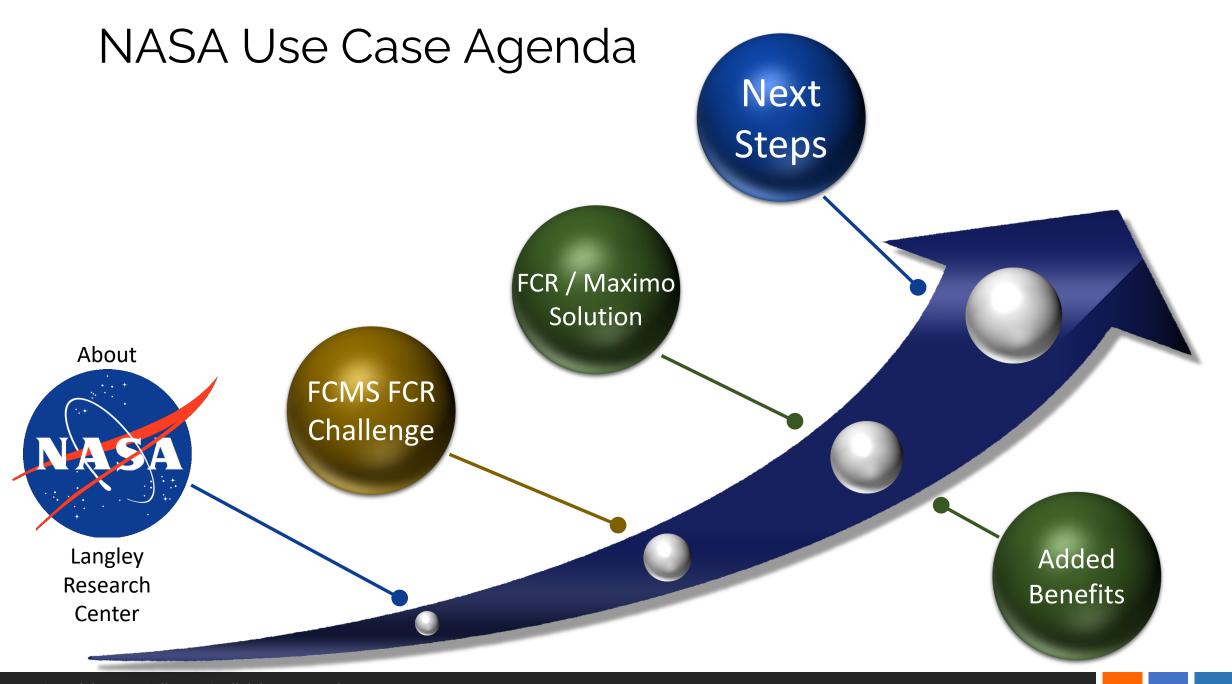
Qellus, LLC



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NASA'S LANGLEY



About NASA Langley Research Center



About NASA Langley

NASA's Langley Research Center is comprised of nearly 200 facilities on 764 acres in Hampton, Virginia, and employs about 3,400 civil servants and contractors. Langley works to make revolutionary improvements to aviation, expand understanding of Earth's atmosphere and develop technology for space exploration.

https://www.nasa.gov/langley/overview

NASA LaRC Facility Change Manage Program



Facility Configuration Management (FCM)

The FCM Program exists to manage Configuration Controlled Items (CCI).



Configuration Controlled Items (CCI)

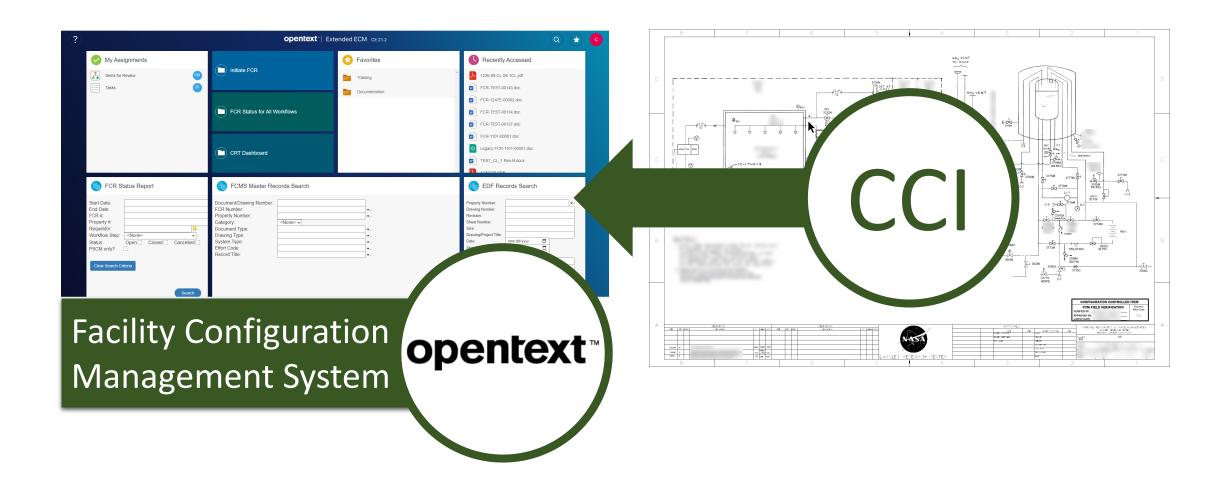
CCI includes drawings, documents, and Building Information Models (BIM), that have been designated to ensure the successful development, maintenance, sustainability, and support of complex systems, equipment, and facilities.



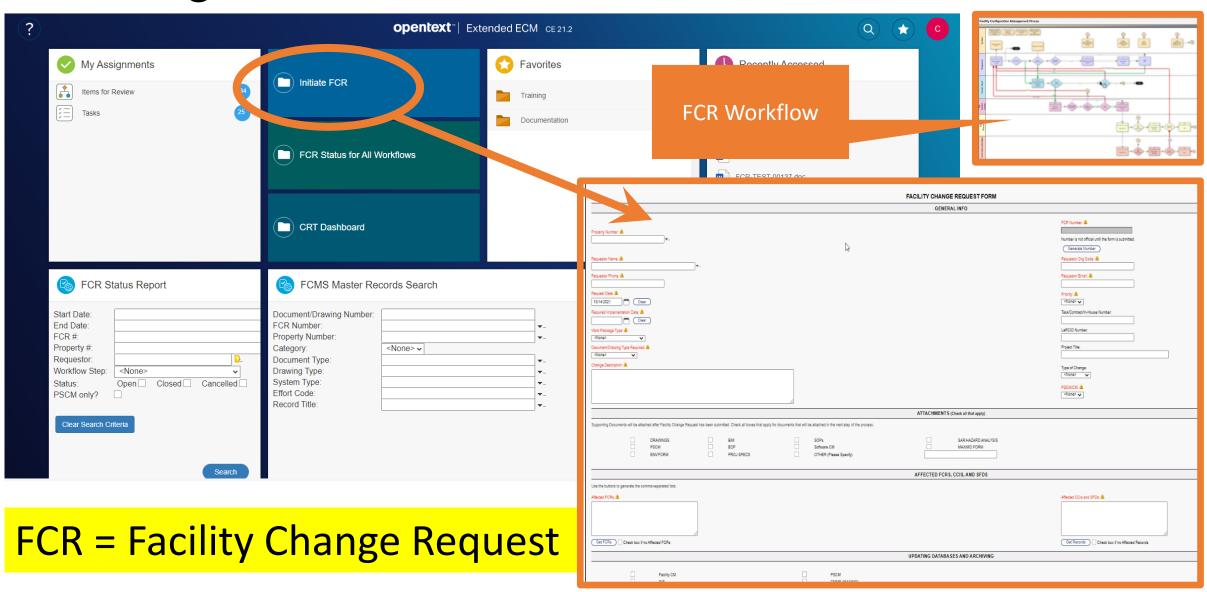
Facility Change Manage System (FCMS)

FCMS was developed to manage CCI related to the design, construction, operations, maintenance, repair, upgrade, and demolition of LaRC facilities.

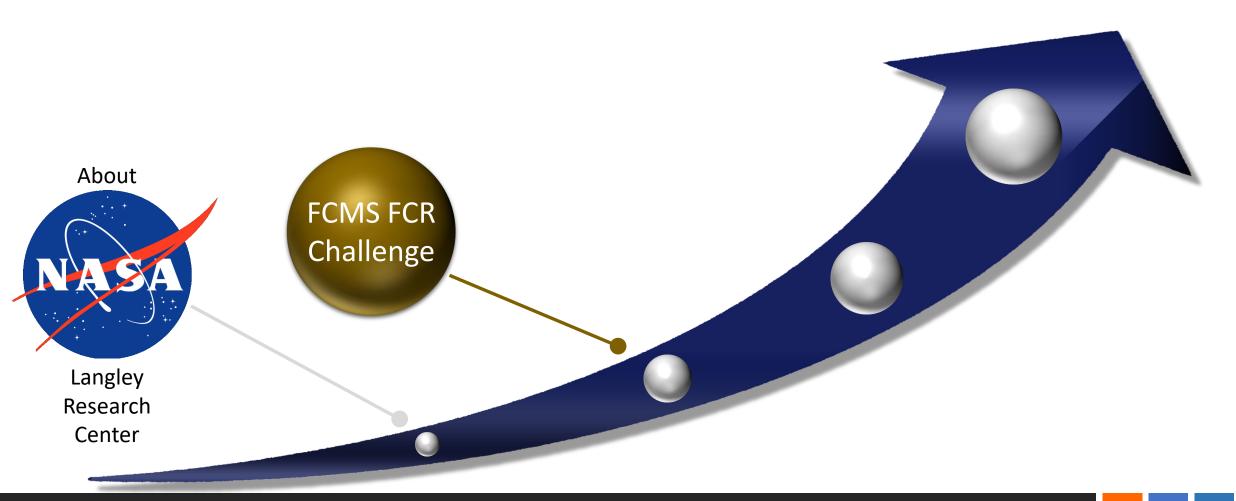
Facility Configuration Management System



Changes to CCI are Processed with an FCR



NASA Use Case Agenda



Lack of Integration Between FCMS and CMMS

FCRs need to be coordinated with operation and maintenance to avoid conflicts. FCR planners did not have access to the scheduled work in Maximo making it cumbersome to plan FCR implementations.



Increased Manual Effort & Potential for Mistakes





Engineering





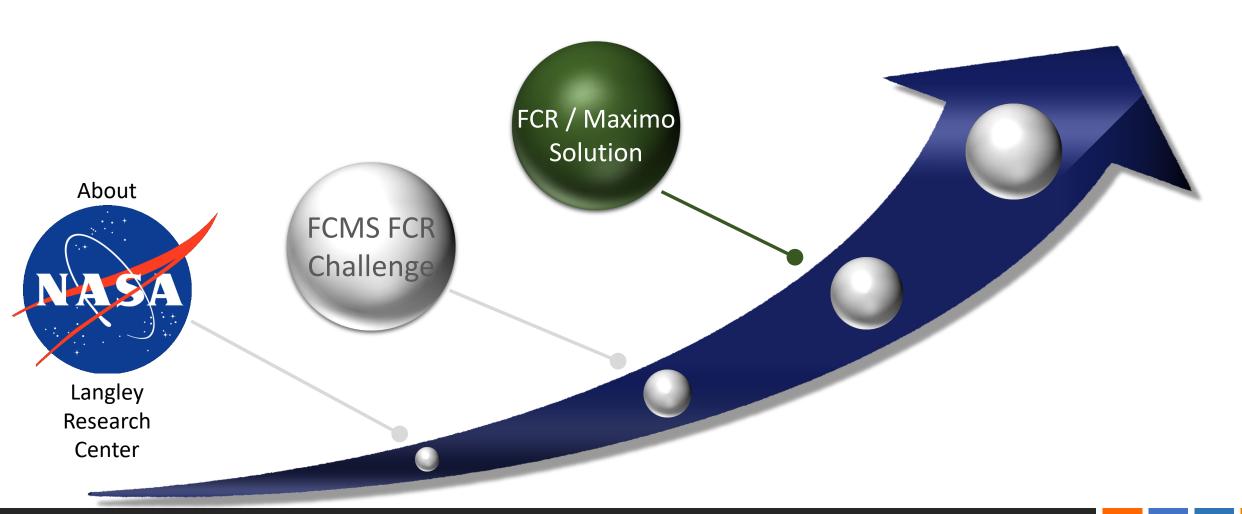
Facility Configuration Management System





Facility and Asset Management System

NASA Use Case Agenda



Integrated FCMS and CMMS with Extended ECM















Engineering

Operations

Maintenance

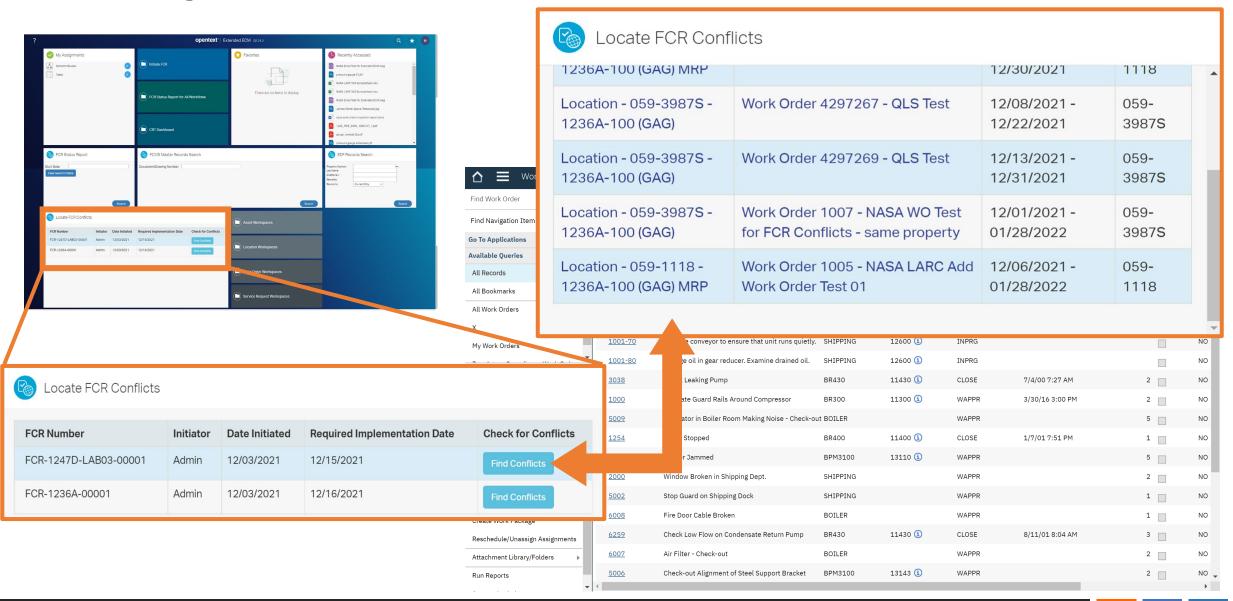
Facility Configuration Management System

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Facility and Asset Management System

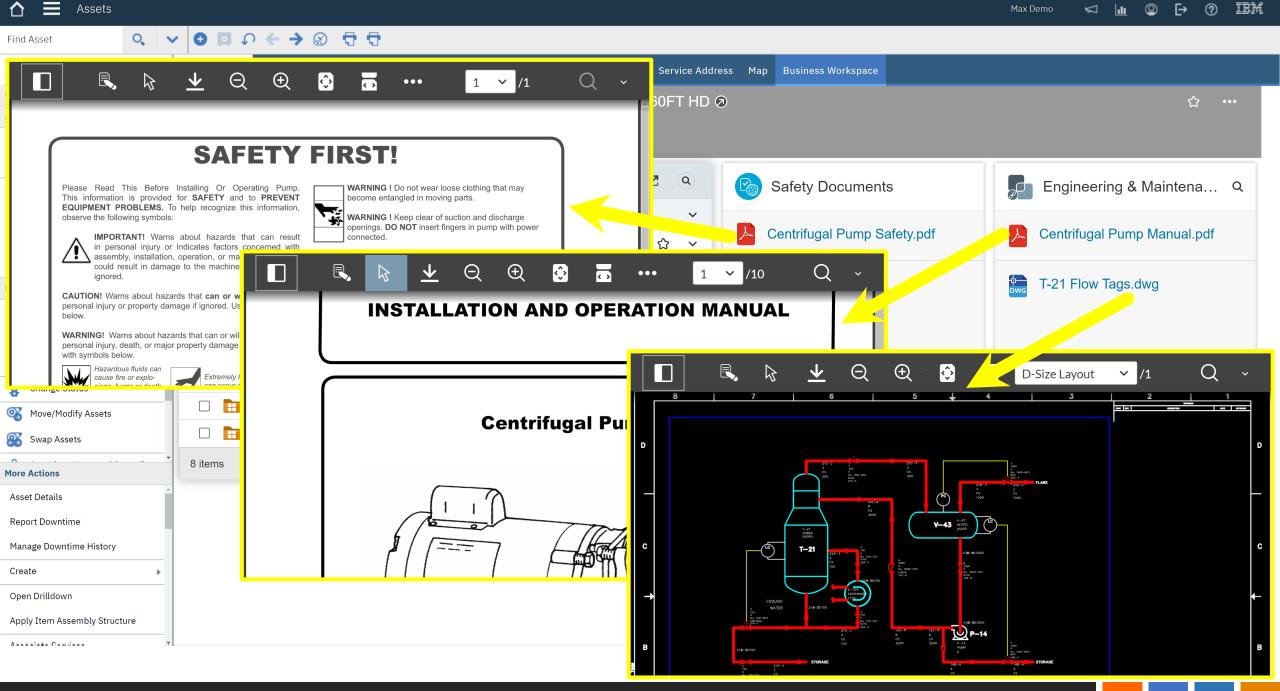
Integrated FCR Implementation Conflict Check



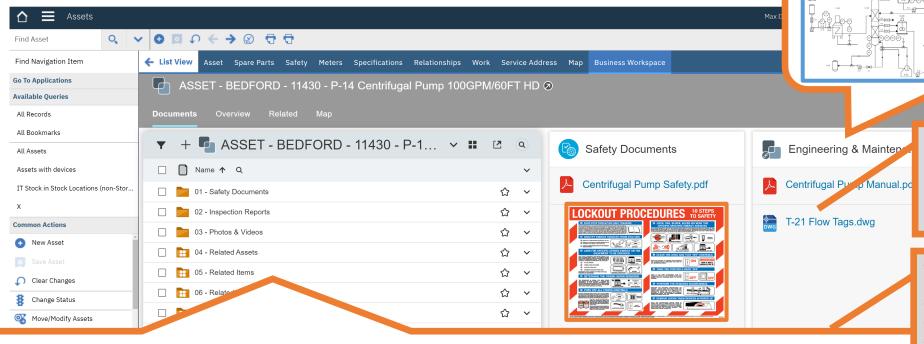
NASA Use Case Agenda







Asset Lifecycle Document Management



Content managed by Configuration Control Center and programmatically "Refreshed" when accessed in Maximo

- Content unique to individual record (A/L/WO)
- User defined folder structure
- No Storage Constraint
- Visual Content increasingly prevalent.

Business Workspace Structured Content – Asset Related Content

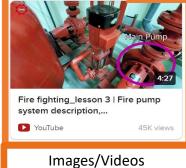


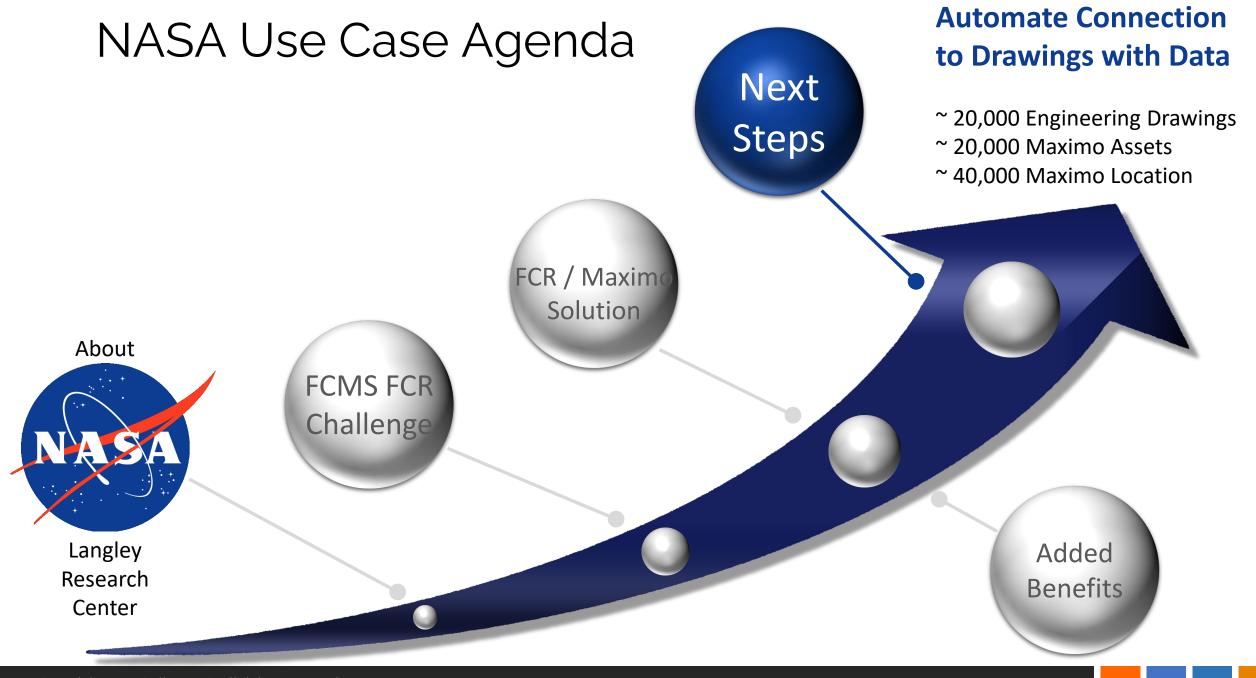


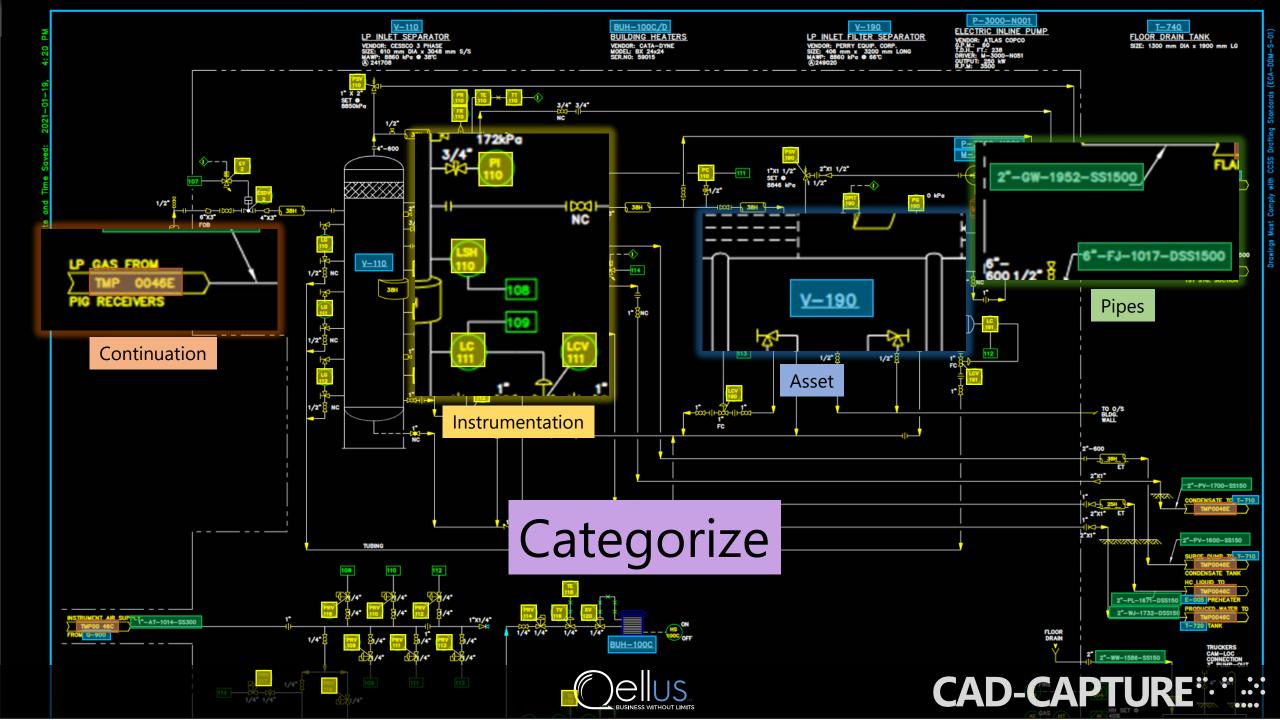


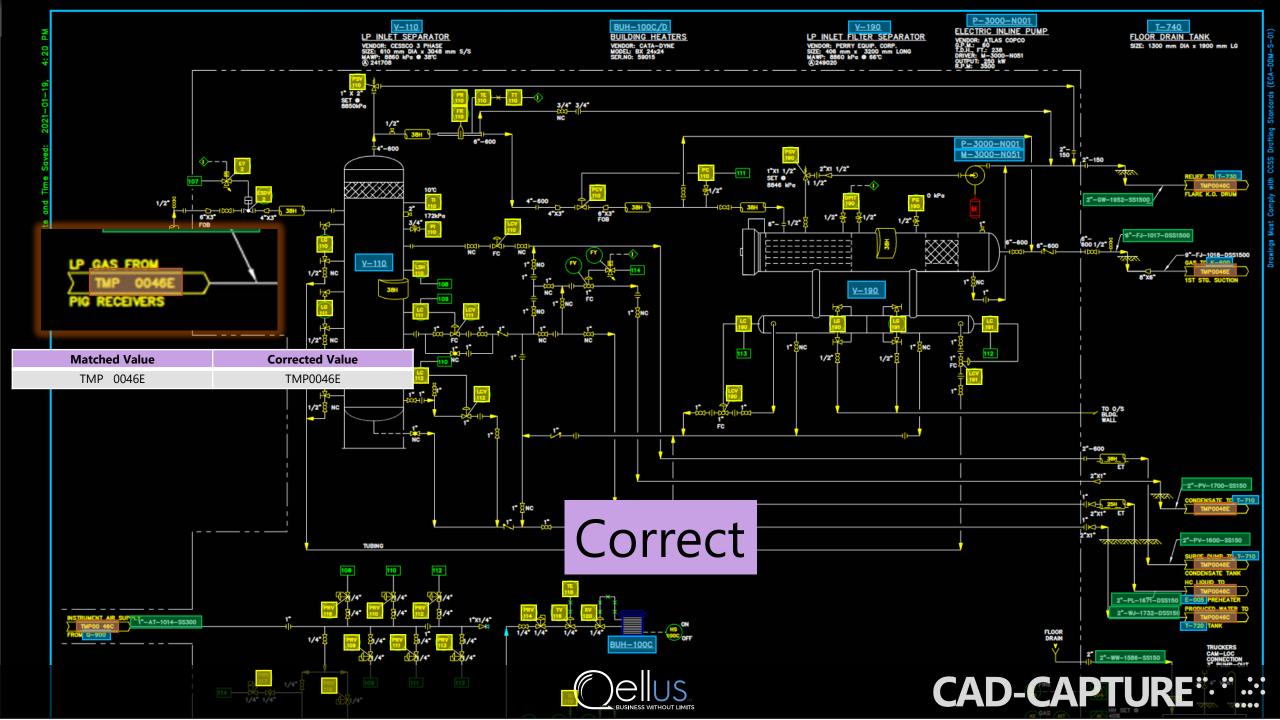


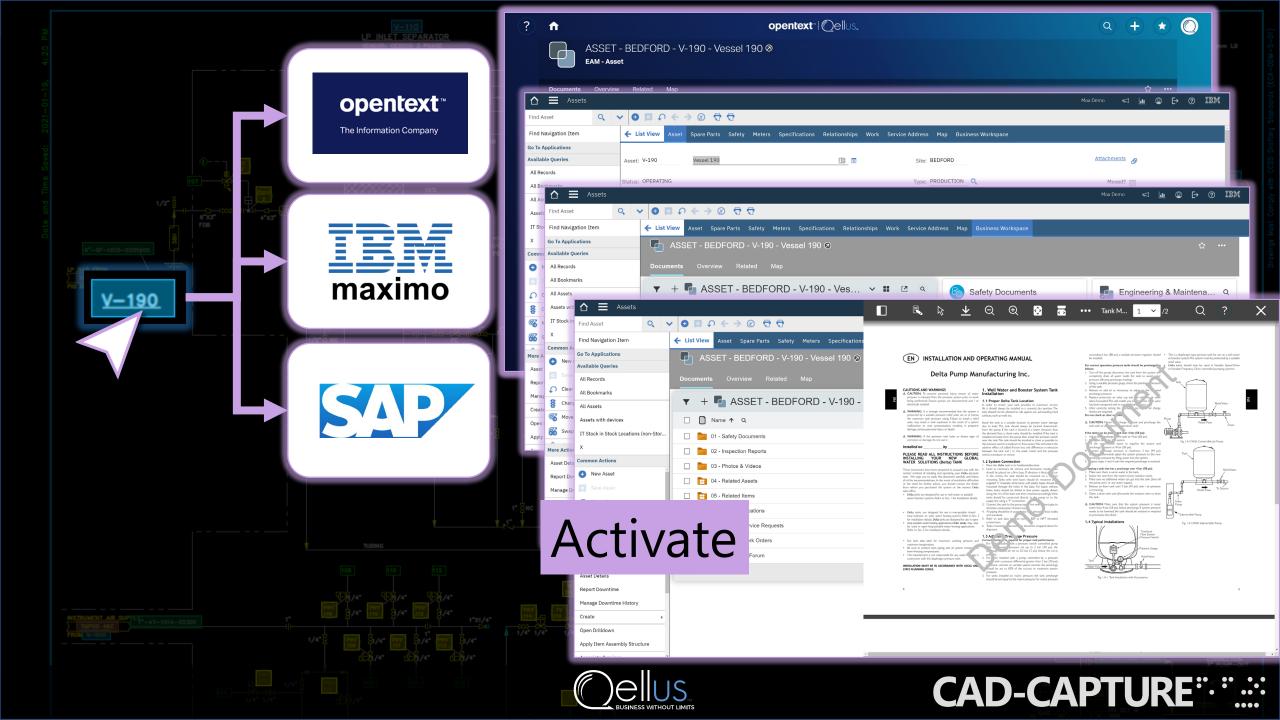












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Questions



Answers



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