COHESIVE solutions

T&D Implementation Story

Mike Beasley
Richard Pike 05/20/2016

Introductions

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Cohesive Solutions

Richard Pike
Consulting Practice Leader – Utility Services
Cohesive Solutions

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Utility Overview

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Overview

Cohesive Solutions is engaged in an implementation project for a mid-sized investor owned utility.

- Provides Electric Generation, Transmission, and Distribution
- 700,000 Customers
- 10,000 square miles of service area
- 6,000 miles of transmission lines
- 28,000 miles of distribution lines

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The Project Scope

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Project Scope

Target Business Unit - **Distribution**

Next Expansion to – **Trans & Substation**

Future Plans – **Generation**

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Project Timeline

Sept, 2014

Sept, 2017

15

2016

2017

Distribution

Process Design

System Design

Build/ Configure

Test

Deploy

Roll-Out

June 2017

Trans/Sub

Process Design

Sys Dsg Bld/Config

Test

Deploy

Roll-Out

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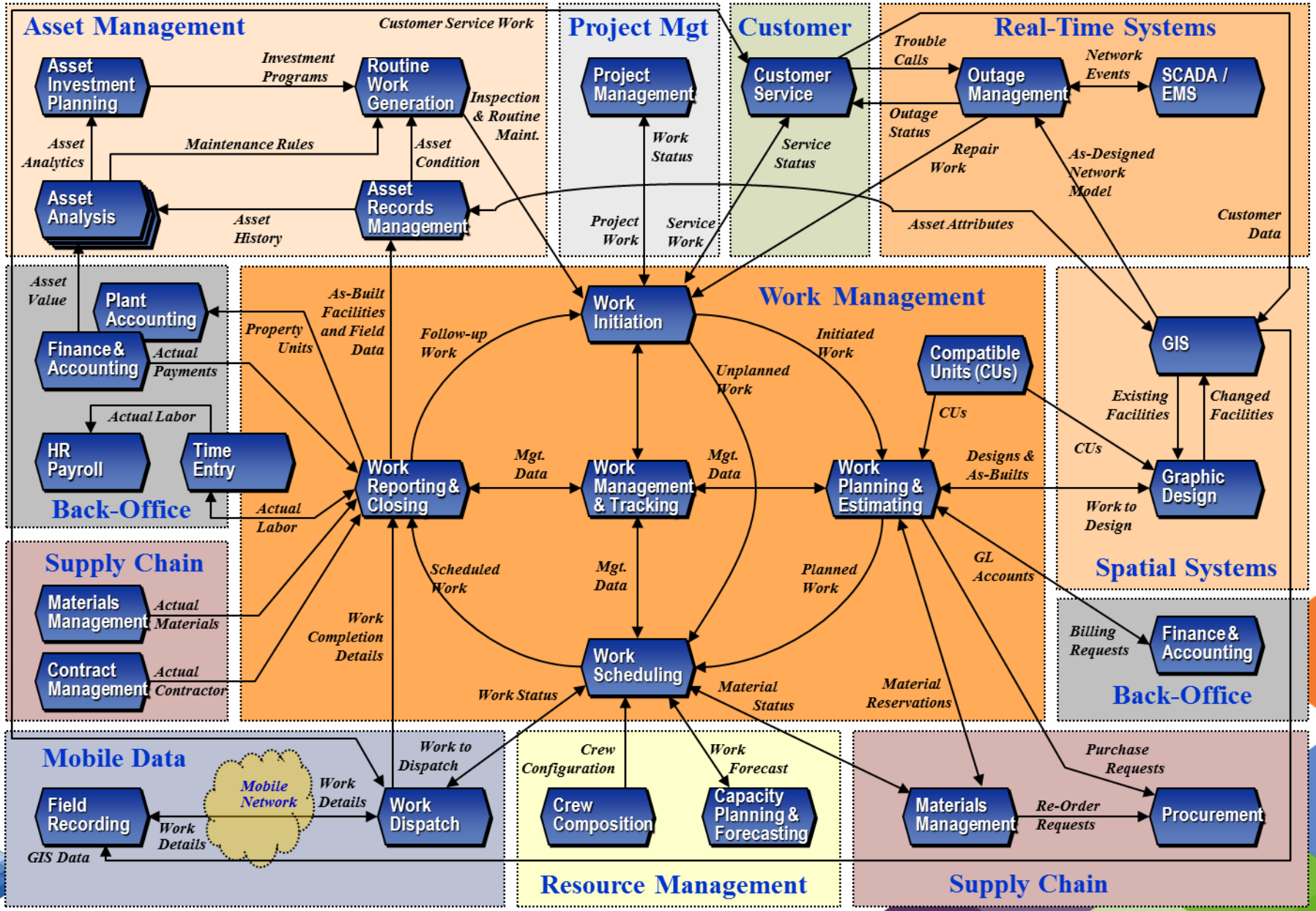
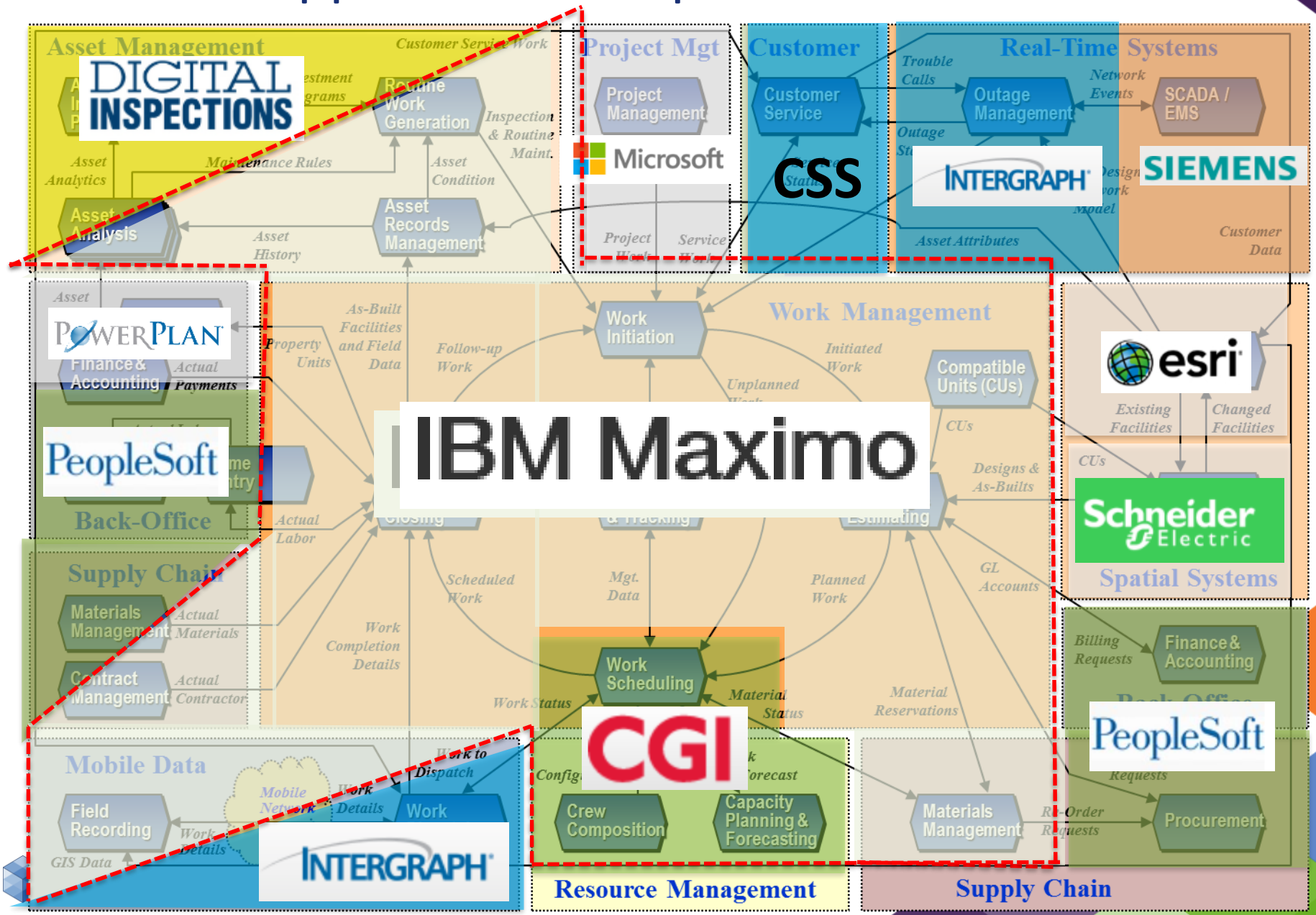
Application Footprint



Future - Application Footprint



Meeting the Needs…

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Meeting the Needs…

There were some key areas the client wanted to focus attention on.

- **Asset Management**
  - Establish from the ground up….
- **Work Management**
  - Business Transformation

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The Approach – Asset Mgt

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Asset Management

- For Distribution, no definitive Asset Management Process (Reactive)
- Legacy OMS system with network connectivity
- No Failure Analysis

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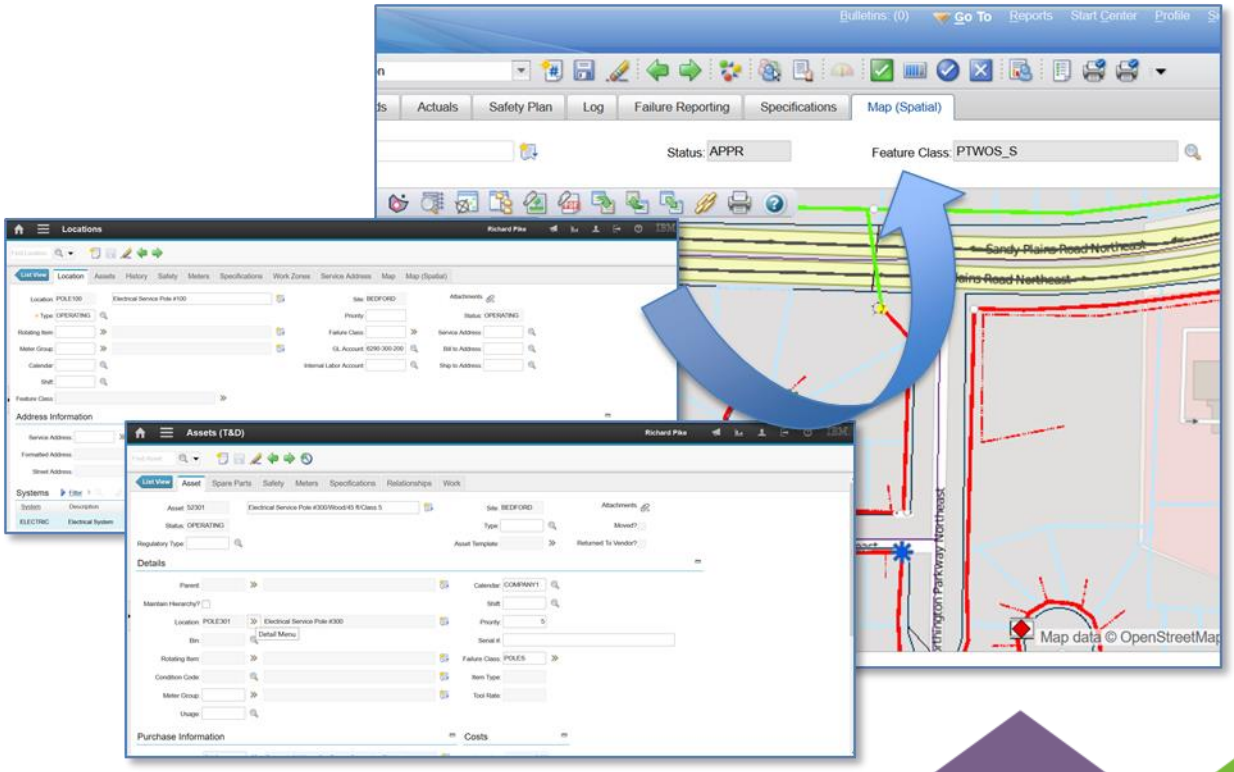
Asset Management

- We established a comprehensive Asset Management Integrated with *Maximo Spatial*



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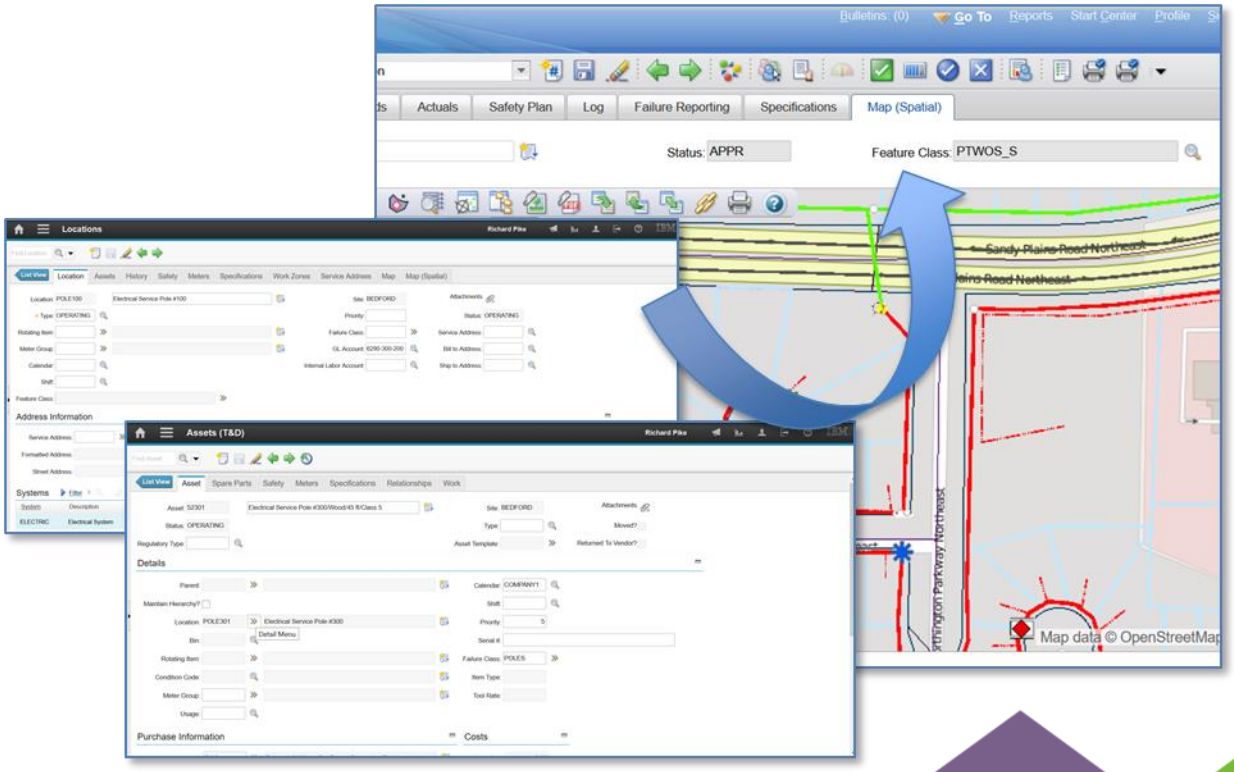
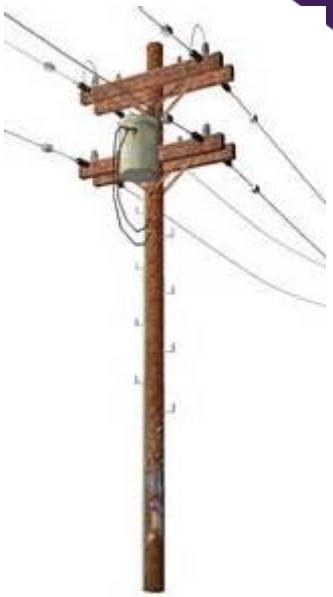


Asset Management

- We are tracking *large volume* assets
  - Poles – 800,000
  - Oil Filled Equipment – 300,000
  - Meters & Devices – 800,000



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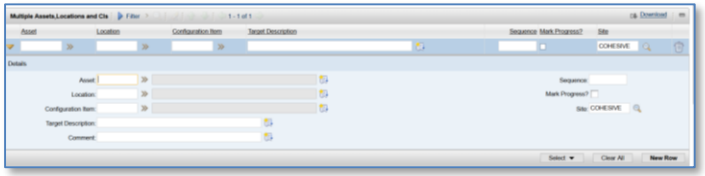
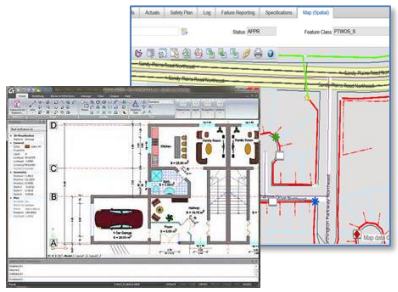
Asset Management

- We designed a *full Asset Lifecycle* from Purchase, thru Graphic Work Design to In Service including linking to GIS with Maximo Spatial leveraging…
  - Asset Attribution at receiving
  - Using Asset Templates
  - Graphic Work Design integrated to ESRI
  - CU's
  - Multi-Asset-Location Table





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The Approach – Work Mgt

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Work Management

- The business processes were “broken”, highly manual, disparate processes, non-standard
- Needed to be Transformational
- Incorporated manual processes
- Provide standardization

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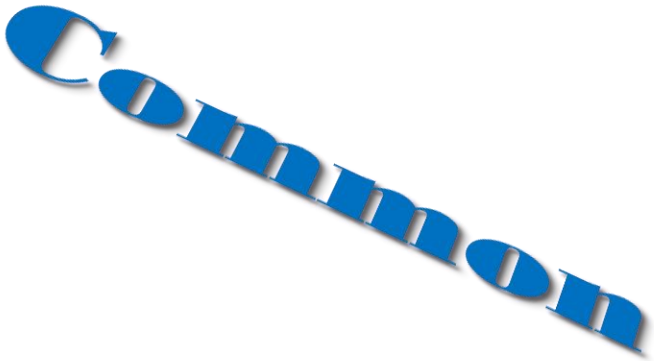
Work Management

New Process design based on Work Streams around a *Common Work Process*

- As-Is process review with identified Pain Points
- Complex Work Process – basis for all processes
- Provide standardization



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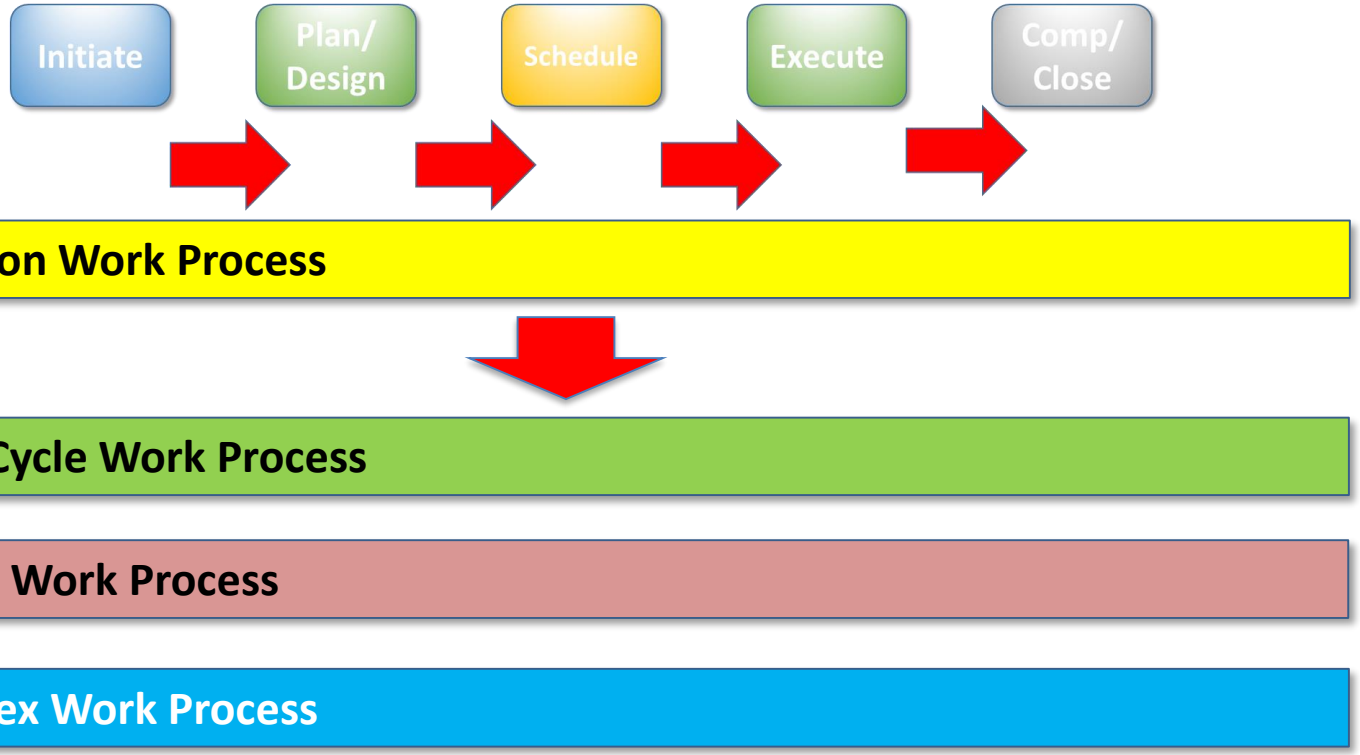
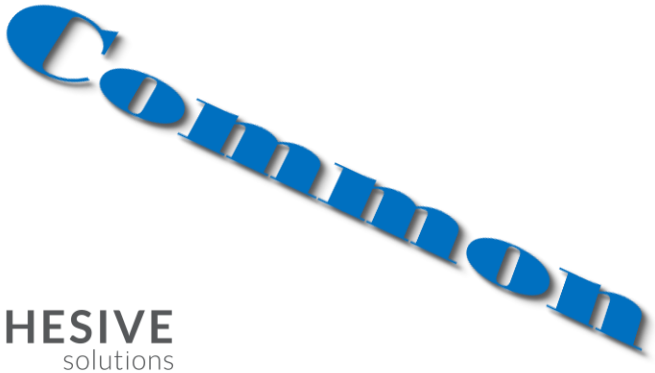
Work Streams – IPSEC Process





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Work Management

- Incorporated the *high volume* CIS orders
  - Simplified Integration to CIS
  - Including Meter assets
  - Complex Meter designs

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Work Management

- Utilizing *CU Templates* for like for like change outs
  - Installs and Remvals
- Supporting 2 Scheduling Applications, **ARM Scheduler** and **Maximo Scheduler**

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Work Management

- Restoration of Service functionality to manage *Damage Assessment* during Storms
  - Addressing the challenges for traceability of system changes during major damage events

Key Development Solutions

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Key Solutions

- Complex Meter Design
  - With integration with project work
- Integration with TOA (Transmission Outage Application)
- *Asset Lifecycle Approach*
- *Damage Assessment*

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