



# **Program Update**

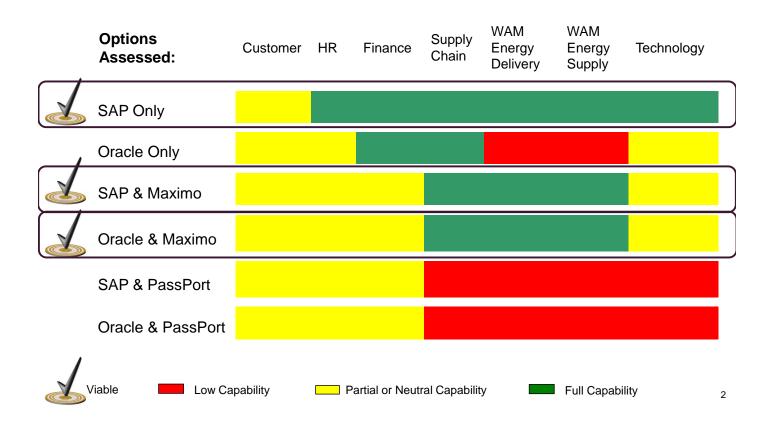
**Sponsor Meeting** 

August 28, 2013



# **Solution Option Summary**

Solution Selection Option – Preliminary Findings





# **Solution Option Summary**

Solution Selection Option Preliminary Findings

# SAP Only

- New Business model of integrated functions
- Mobility, employee self services, process configuration
- Relevant, transparent and timely integrated financial information

# ■ SAP or Oracle with Maximo

- Visually Appealing User Interface
- Maximum Configurability
- WO Completion Tracking (wrench time)

# **Open Questions**

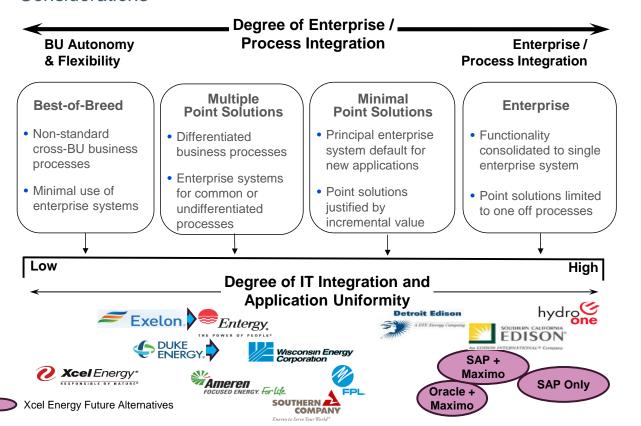
- Do we want one vendor for many functions?
- Could predefined processes lead to increased costs for process changes?
- What is the risk for potential business disruption?
- Will we really transform legacy system(s)?
- Maximum Configurability will we limit to common processes?
- Would we lose SAP mobility benefits?
- Forrester report (Oracle's Dilemma: Applications Unlimited Versus Fusion)





# **Industry Landscape / Peer Comparison**

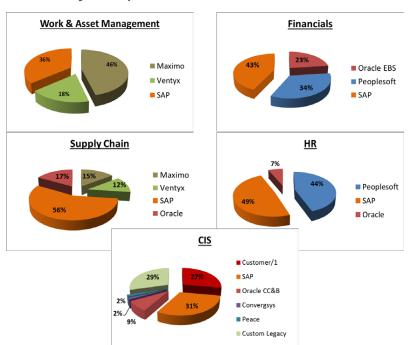
Considerations







# **Enterprise Solution Selection** *Industry Adoption of Similar Solutions*



Represents ~70 North American Government / Municipal & Investor Owned Utilities

Other utilities in Xcel territory are using similar platforms combinations. **Ameren** (Oracle, Power Plant, Mincom Ellipse), **PNM** (Oracle), **Colorado Spring Utilities** (Maximo), **Denver Water Department** (Maximo), **Minnesota Power** (Maximo)

Utility	SAP	Oracle	Maximo
OG&E	Х		
CenterPoint	Х		
PSE&G	X		
PG&E	X		
FPL	Х		
National Grid	X		
Hydro One	Х		
Sempra	Х		
American Water	Х		
SCE	Х		
DTE	Х		Х
SRP	Х		Х
Entergy*	Х		Х
Duke*		Х	Х
Southern*		Х	Х
Portland General*		Х	Х
Keyspan		Х	Х
NiSource		Х	Х
El Paso Electric		Х	Х
Nova Scotia Power		Х	Х
TVA		Х	Х

\*running Oracle Peoplesoft HR / Finance







# **Solution Option Definition Process**

# **Option List:**

- SAP Only
  - New Business model of integrated functions
  - Mobility, employee self services, process configuration,
- SAP or Oracle with Maximo
  - Visually Appealing User Interface (UI)
  - Maximum Configurability
  - ♦ WO Completion Tracking (wrench time)

# **ESS:** By the numbers

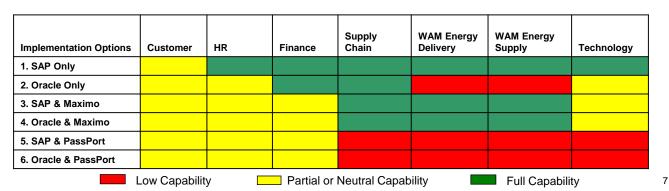
- Team prep for vendor demonstrations: 4,800 hours
- Vendor demonstrations: 3,200 hours
- Team:

Directors: 13

Managers: 15

♦ SMEs: 12+

Consultants: 6





# **Solution Option Details** *SAP Only*

# ■ Functional Assessment – ability to deliver PTT Outcomes

# Strengths

- New Business model of Ingratiated functions: Finance, HR, Supply Chain, W&AM
- Demonstrated understanding of the utility industry
- Intuitive UI and workflow (but dated appearance)
- Mobility, employee self services, process configuration,
- Most disciplined deployment and maintain methodology
- Surprisingly strong experience in utility industry growing nuclear presence
- Strong business process change management upgrade path

## Weaknesses

- Short long cycle integrated scheduling need greater insight for R2
- Business Objects Analytics not developed for Utilities
- Least flexible data structure how nimble can Xcel be on SAP Really a weakness?? Need to speak to this.
- Lock Out / Tag Out



# Solution Option Details SAP Only, continued

- Technical Assessment
  - Strengths
    - Significant strength with regards to enabling efficient change management and supportability
    - Common information model enables fewer integrations and a simple technical foot print; Geospatial Data ready.
    - Most mature mobile technology platform
  - Weaknesses
    - Rigidity of required change management and process provided needed structure but slows movement.
- Risks
  - One vendor for many functions
  - Predefined processes could lead to increased costs for process changes
- Customer Call with First Energy (Ohio, Penn, NJ) alternative PSEG (New Jersey)
  - Relationship change over time as more functions added to SAP
  - Change from BoB to ERP
  - Nuclear processes (CAP, EC, RP,) Lock Out / Tag Out



# Solution Option Details SAP and IBM – Maximo

### SAP:

# Finance, HR, Customers & Supply Chain

# Functional Strengths

- New Business model of Ingratiated functions: Finance, HR, Supply Chain, W&AM
- Demonstrated understanding of the utility industry
- Intuitive UI and workflow (but dated appearance)
- Mobility, employee self services, process configuration,
- Most disciplined deployment and maintain methodology
- Surprisingly strong experience in utility industry – growing nuclear presence

### Functional Weaknesses

- Short long cycle integrated scheduling
- Business Objects Analytics not developed for Utilities
- Least flexible data structure how nimble can Xcel be on SAP
- Lock Out / Tag Out

## **IBM** - Maximo

## **WAM**

# Functional Strengths

- Visually Appealing User Interface (UI)
- Maximum Configurability
- WO Completion Tracking (wrench time)

#### Functional Weaknesses

- Short long cycle integrated Scheduling
- Mobile application
- Lock Out / Tag Out Under development
- External document management



# Solution Option Details SAP and IBM – Maximo, continued

#### SAP:

# Finance, HR, Customers & Supply Chain

### Technical Strengths

- Significant strength with regards to enabling efficient change management and supportability
- Common information model enables fewer integrations and a simple technical foot print; Geospatial Data ready.
- Most mature mobile technology platform

#### Technical Weaknesses

 Rigidity of required change management and process provided needed structure but slows movement.

#### Risks

- One vendor for many functions
- Hidden costs for process changes

#### Customer Call with DTE Energy (Michigan) alt Dominion

- Relationship change over time as more functions added to SAP
- Change from Bob to ERP
- Nuclear processes (CAP, EC, RP,) Lock Out / Tag Out

## **IBM - Maximo**

### **WAM**

#### Technical Strengths

- Business rules flexibility and reporting capabilities
- Well structured technology architecture that leverages proven industry standards

#### **Technical Weaknesses**

- Complex integrations required; 3rd party vendor support for adapters lacks a clear and long-term strategy
- Minimal insight into impact of changes to the technical environment

#### Risks

- Will Xcel really transform legacy system
- Maximum Configurability will Xcel limit to common processes
- Would you lose SAP mobility benefits?
- Customer Call with DTE Energy (Michigan) alt Dominion
  - SAP & Maximo integration and relationship
  - Supply Chain functions
  - Nuclear Specific processes



# Solution Option Details Oracle and IBM – Maximo

#### Oracle:

# Finance, HR, Customers & Supply Chain

- Functional Strengths
  - Intuitive UI
  - Mobile tool (wrench time)
  - Analytics Supply chain
- Functional Weaknesses
  - Acquired components vs.. developed ERP (BoB from one vendor?)
  - Integration with Oracle acquired products Primavera, Portfolio tool?,
  - Xcel needs to determines which 3rd party to use (Signum does not understand our business)

## **IBM - Maximo**

## **WAM**

- Functional Strengths
  - Visually Appealing User Interface (UI)
  - Maximum Configurability
  - WO Completion Tracking (wrench time)

# Functional Weaknesses

- Short long cycle integrated Scheduling
- Mobile application
- Lock Out / Tag Out Under development
- External document management (offset with Oracle?)



# **Solution Option Details** Oracle and IBM – Maximo, continued

#### Oracle:

# Finance, HR, Customers & Supply Chain

### **Technical Strengths**

Well established application base at Xcel Energy including database, Primavera, NMS, PeopleSoft, JDE

#### **Technical Weaknesses**

- Unclear technology roadmap for Enterprise **Technical Weaknesses** Solutions including WAM
- ERP is composed of a significant number of separate products
- Minimal insight into of how changes impact the enterprise across the solution

#### Risks

- Forrester report (Oracle's Dilemma: Applications Unlimited Versus Fusion)
- **Customer Call** Southern Company (Atlanta) and/or TVA
  - Oracles understanding of the Utility industry
  - Integration of Oracle solutions (Primavera) and 3<sup>rd</sup> party products (GIS)
  - Oracle & IBM integration and relationships
  - **Supply Chain functions**

## IBM - Maximo

### WAM

### **Technical Strengths**

- Business rules flexibility and reporting capabilities
- Well structured technology architecture that leverages proven industry standards

- Complex integrations required; 3rd party vendor support for adapters lacks a clear and long-term strategy
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#### Risks

- Will Xcel really transform legacy system
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- **Customer Call** Southern Company (Atlanta) and/or TVA
  - Oracle & Maximo integration and relationship
  - Supply Chain functions
  - Nuclear Specific processes



# Solution Option Details Oracle Only or Combinations with Ventyx Passport

# **Oracle Only**

- Functional Assessment: WAM (Energy Delivery & Supply)
  - No US Nuclear locations significant risk to be first.
  - **○** Very limited T&D experience
  - Did not demonstrate significant functional advantage to overcome the limited implementations in Nuclear
- Functional Fit: Finance, HR, Customer& Supply Chain
  - Oracle does have sufficient deployed experience in utilities and demonstrated sufficient functional fit and experience

# **Combinations with Ventyx Passport**

- Functional Assessment
  - Ventyx presents a significant strategic product upgrade agenda that would negatively impact Xcel Energy
  - Current underlying technology is many generations old forcing the upgrade approach
  - Ventyx did not demonstrate any significant functional advantage to overcome the risks of the upgrade agenda.
  - Inability to deliver against their strategic roadmap – e.g. Service Suite and Long Duration work



# **Enterprise Solutions Overview**

Enterprise Architecture Observations - Strategic Technical Direction of Vendors

#### SAP

- Continued strong investment in technology
- Architectural foundation in place. No significant architectural changes expected over the next 8 – 10 years.
- Primary technical areas of investment and growth will be in the HANA databases platform, mobility, and analytics.
- Anticipating more cloud-based opportunities

#### Oracle

- Continued acquisition strategy
- Continued strategy of integrating multiple separate applications to provide an enterprise system
- Unclear strategic direction between their individual applications (Ebusiness Suite, Peoplesoft, JDE, etc) and Fusion Applications. This concern is supported by Forrester.
- Significant drive towards 'Oracle Engineered Systems' which include Oracle software as well as hardware.
- Strategic mobile platform does not currently exist. Anticipating additional acquisitions nearterm to fill out and establish their strategic mobile architecture.



# **Enterprise Solutions Overview**

Enterprise Architecture Observations - Strategic Technical Direction of Vendors

#### IBM / Maximo

- Continued investment in the Maximo platform
- Strategic mobile platform communicated as being deployed in 2014. Expecting continued variability due to the rate of change in the mobile technology industry domain.
- Anticipating that IBM will continue to extend Maximo into more non-utility industry areas.
- Asset management will remain a primary component

# Ventyx / PassPort

- Currently running extremely aged and variable technology. Communicated movement towards a common architectural platform based upon recent technology and methods.
- Investment commitment to the underlying technology (current or future) is unclear.
   Architecture resources communicated that key components of the future architecture are not funded.
- Expecting continued reliance on industry position and experience as opposed to integrity of the technical architecture.
- No consistent vision for strategic mobile technology direction currently. Expecting that Ventyx will have to address this soon.
- Continued product acquisition strategy. The Mincom product appears to be a preferred direction from a technical standpoint.



# Enterprise Solutions Architecture Executive Summary Enterprise Architecture Observations

#### SAP ABB/Ventyx Oracle IBM Heavy track-record of investment Unclear long-term investment in Continued investment expected Investment in their technology is in their product line legacy applications in Maximo and mobile capability required to remain viable Consistent technology with no fundamental changes planned Continued acquisition strategy Strong commitment to Maximo Continued strong commitment to for the next 8-10 years the utility industry is expected Unclear direction between Recognition of significantly aged Performance focus on their Aged mobile technology moving legacy applications vs strategic technology for current database technology (HANA) to current architectures next year 'Fusion Applications' platform applications Reasonable stated direction Forrester research projects Partner approach to integrations toward a consistent platform Oracle pushing customers away Focus on managing change, with ERP systems across their products. At least 5 from their legacy applications system integrity, and data quality years out. Level of commitment to their Continue to build upon their Continued strategy of integrating products is significantly higher centralized Enterprise multiple applications to provide than their commitment to the Information Model an enterprise system underlying technology Unmanaged approach to Comprehensive mobile platform Evolving mobile technology. No integrations and data clear direction at this time Moving their solutions toward Exhibit the largest technical requiring customers to use all disparity across their solutions Oracle technology products