



# Shaping Your Journey to Operational Intelligence

(in the Process Industries)

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# Agenda

- Welcome
- Safety
- Today's Agenda
- Operational Intelligence
- Thoughts



# Safety



# Today's Agenda

INDUSTRY	Process Industries - Athens/Barcelona, Lobby Level
9:00 - 9:20	Shaping Your Journey to Operational Intelligence in the Process Industries - OSIsoft
9:20 - 9:50	Predictive Maintenance by Sending PI Notifications to SAP PM to Initiate Automatic Preventive Maintenance Tasks – Stora Enso Langerbrugge
9:50 - 10:00	
10:00 - 10:30	OEE POC for Discrete Manufacturing in 28 Days - Sandvik, Amitec
10:30 - 11:00	
11:00 - 11:30	Enterprise-wide Operational Intelligence System at San Francisco Wastewater – San Francisco Public Utilities Commission
11:30 - 11:40	
11:40 - 12:10	Enabling Operational Intelligence for a Small Scale Bio-LNG Plant – Osomo Projects BV

# Today's Agenda (cont.)

12:10 - 14:00	Lunch
INDUSTRY	Process Industries - Athens/Barcelona, Mezz Level
14:00 - 14:30	Complete Vertical Integration with OSIsoft's PI System to Achieve Consistent Global Quality – Atotech, SpiraTec
14:30 - 14:40	
14:40 - 15:10	An Enterprise Agreement For Barrick Gold: Timing is Everything - Barrick Gold
15:10 - 15:40	
15:40 - 16:10	Panel Session
16:10 - 16:20	
16:20 - 16:50	Panel Session
16:50 - 17:15	Wrap Up

# The OSIsoft Vision

We believe People with Data can Transform their world

# Typical Process Company's Vision

Commodity Production: Low Cost Producer

Sustainability: Eliminate / Minimize Risk

Value-Add Production: Products that Differentiate

# What Challenges / Opportunities Are There?

## Challenge – Market Conditions

- Commodity or Market Prices
- New or Improved Operations / Known Technology Competition
- New, Competitive Manufacturing Technologies

## Challenge – Cost Headwinds

- Energy Costs
- Raw Materials Costs
- Labor Costs
- Logistics / Transportation Costs
- Aging Assets / Sustaining Capital Requirements

## Other Challenges

- Uneven Global Economic Recovery
- Environmental Regulations / Reporting Requirements
- Keeping Pace with Technology

## Opportunities

- Commodity Market Growth in Developing Countries
- Market Pull for New Materials / Alloys (Strength, Weight)
- Sustainable Materials



# Where Do Companies Find Value?



Process Productivity

**Making the process better**  
**Small changes are worth a lot**  
**These companies are already efficient**  
**It's about going to the next level, sustaining the improvements**



Energy and Water Management

**Monitoring and Managing Energy and Water**  
**Fuel for all of the mobile equipment**



Asset Performance and Reliability

**Keep the machines running**  
**Improve uptime**  
**Reduce unplanned downtime**  
**Condition-based maintenance**



Environmental, Health and Safety Compliance

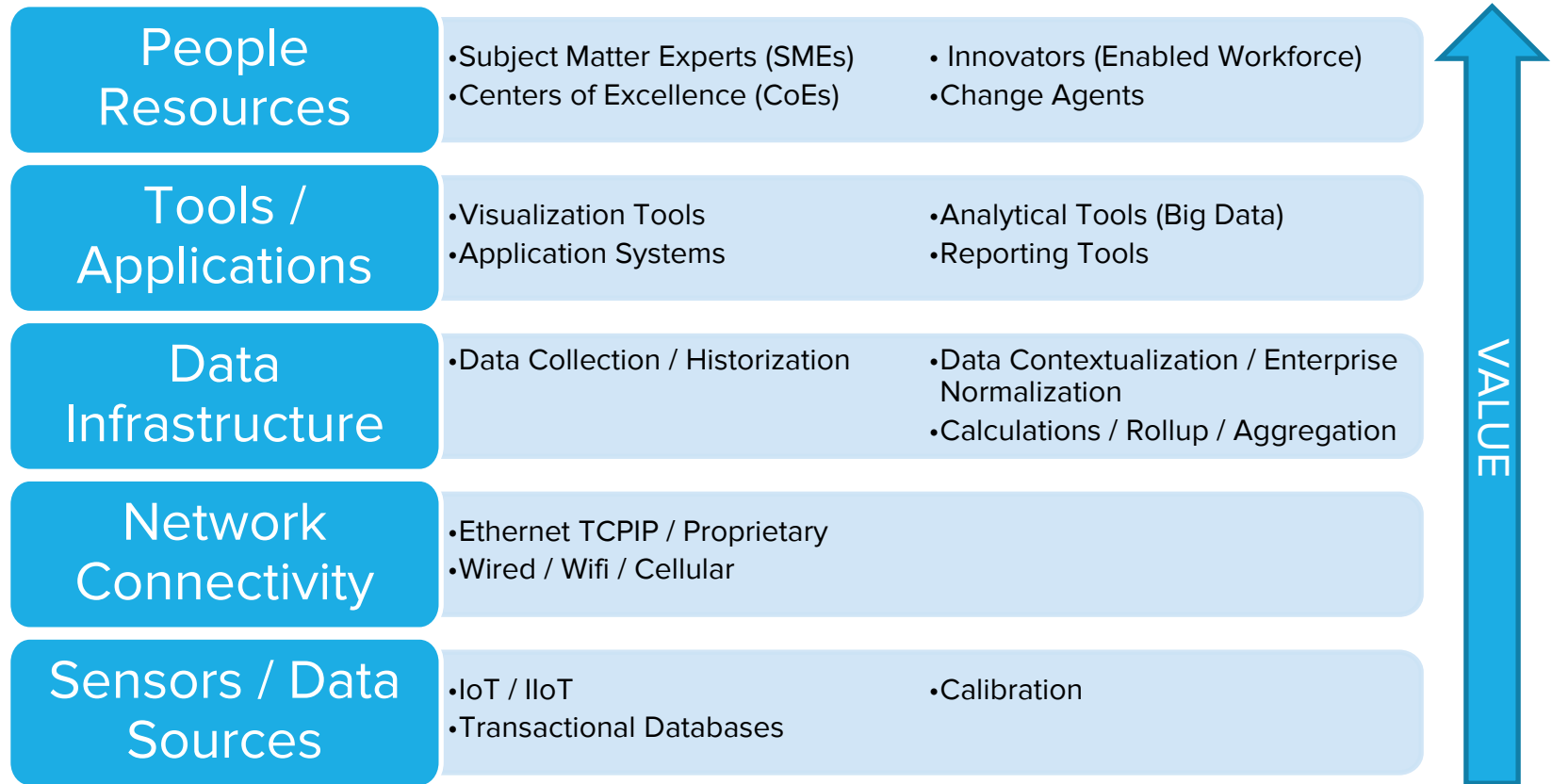
**Governmental regulations**  
**Accidents and incidents**  
**Environmental monitoring**  
**Compliance/Audit**



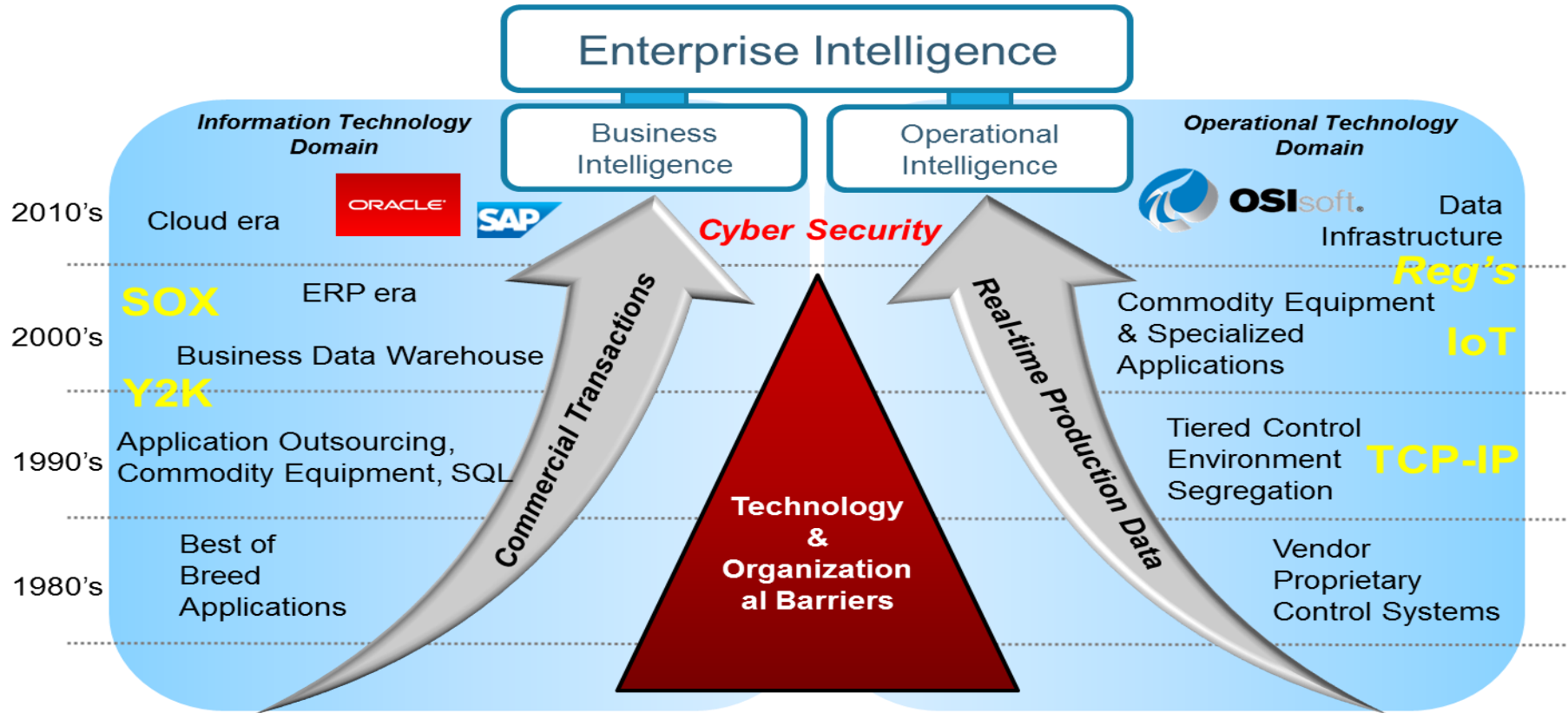
Quality Assurance

**Certifications**  
**Real-time monitoring**  
**Genealogy (history)**  
**Yield**

# Data to Value: Recognizing the Critical Contributors



# Recognizing IT/OT Convergence



# What Type of Approach is Best?

## PROJECT

### Pros:

- Well Defined, Limited Scope
- Single Design / Deployment
- More Manageable Initial Cost
- Common starting point

### Cons:

- Site Based, One Off Solutions
- Not Easy to Leverage / Deploy 'Best Practices' or 'Standards' across Multiple Sites
- New Projects Require New Software / New Solutions / New Funding / **New Start**
- Cost / Complexity Increase Over Time

## PROGRAM

### Pros:

- Supports Transformation through Continuous Improvement Program
- Shorter Time to Value for Defined Value Initiatives
- Less Investment / Funding Required for Next Projects
- Leverage of 'Common Standards' or 'Best Practices'
- Provides Standard Approach to Technology / Minimizes Complexity
- Engages People

### Cons:

- Higher Initial Funding Investment (Offset by Lower ongoing TCO and Stronger Value Realization)

# Key Considerations for Today's Session

- What is your vision for the use of information in your company / division?
- What role does operational data play as a key part in your vision?
- What are you doing to establish operational intelligence in your company?

# Contact Information

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감사합니다

谢谢

Danke

Merci

Gracias

Thank You

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Спасибо

Obrigado

Remember – It's All About the DATA!