WONDERWARE PORTFOLIO

Ernst van Wyk
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ORGANIZATIONS HAVE BEGUN THEIR DIGITAL TRANSFORMATION

Industry Challenges

- Rising costs
- Evolving/managing automation
- Aging Asset/Legacy ‘Unconnected’ Systems
- Tightened Regulations
- Cyber Security
- Skills shortage due to aging workforce/Generation Shift

Business Imperatives

- Operational efficiency
- Enterprise-wide visibility for enhanced decision support
- Agility in meeting changing requirements
- Operator productivity

Technology Trends

- Cloud
- IIoT
- Mobility/ BYOD
- Big Data Analytics
Enterprise Integration

**Adaptive**
- Integrated business systems and automation
- Enterprise wide data exchange

**Value**
- Collect and Analyze Metrics
  - Processes are measured and analyzed
  - System Platform, InSight, Intelligence, SmartGlance

**Consistent**
- Central Automated Processes
  - Processes standardized across the organization
  - InTouch / Citect / InduSoft

**Prepared**
- Silos of Automation
  - Processes are managed
  - No Standardization
  - PanelViews

**Reactive**
- No Automation
  - Unpredictable, Uncontrolled
  - Manual Operations

**Maturity**
- No Standardization
- No Automation
The Leading Digital IoT SOLUTION PROVIDER

2 Million Licenses Installed

100,000+ Sites Worldwide

12+ Petabytes of Data Stored/Year

10+ Trillion

20+ Billion

900K+ Miles

Industrial Transaction/Day

Operating Parameters

Oil and Gas Pipelines
Mobile

Cloud
Customer Successes
CARSON CITY, NEVADA - A 'SMART CITY'

Increase the efficiency of its workforce & operation

Customer Solution Value:
▲ Plan operations with utmost accuracy
▲ Operate optimally and reliably
▲ Analyze performance compared to plan
▲ Improve continuously through agile decision making
▲ Efficiently manage the City’s water, wastewater, transportation, landfill, fleet, environmental and renewable power systems around the clock

Software Solution:
▲ Deliver affordable and reliable transportation, power, water, and wastewater services to citizens and visitors to Carson City and surrounding counties.
▲ Reduce administration and overhead costs while significantly increasing the City’s operations reliability and disaster recovery processes.
▲ Leverage the latest virtualization technologies, including iPads and smart phones, to increase the efficiency of operators and management, as well as increase situational awareness to achieve a high level of operational readiness

Remote management capabilities have resulted in 15% reduction in operations staff hours due to saved ‘drive time’
Customer Solution Value:

▲ Improve visualization for operators to manage system processes
▲ Streamline process for viewing and supervising multiple water distribution facilities
▲ Effective management of 120 facilities that serve Paris’ over 10 million people
▲ Automatic conversion of AutoCAD drawings to HMI screens

▲ Please add also the safety and security requirements:
▲ Integration of video surveillance for water distribution facilities
▲ Interaction between video system, Intrusion detection and HMI
▲ Requirement to support regulations for minimize the risks of malevolence or terrorist acts

Schneider Software Solution:

▲ HMI

“InTouch provides our staff with ‘Hypervisory’ capabilities by animating the large blocks of diagrams from the HMI, and projects them onto our innovative operator management video wall. The displayed information provides details to effectively manage the city’s extensive water system.”

Frank Montiel, Head of the Regulation - CTM project in the Information Systems Department, Eau de Paris
TRANSPORTATION

AENA – Spain airports
Barcelona alone - 1M+ I/O
Transportation/Air

London Underground
System Platform, large Galaxy
Transportation/Rail

Edmonton International Airport
200,000 I/O
Transportation/Air

China Rail
1+ Million I/O
Transportation/Rail
Application Examples
Black Rock Mine – After OMI Addition
2.1M Installed Licenses
All industries: Process, Hybrid and Discrete

Roles: Operators & Plant Engineers

More than HMI
Cloud and native web Visualization
Edge to Enterprise SCADA
Engineering Productivity
What’s next
From Machine/Edge to Enterprise Control

Vendor agnostic HMI and control configuration

High operational ROI through standardization

Enterprise level visualization and monitoring

Faster operator actions through situational awareness
Enabling Digital Transformation

A broad value proposition:

- Cost Reduction
- Supply Chain Management
- Production Quality
- Engineering Efficiency
- Downtime Elimination
- Asset Optimization
- Information Across Systems
- Process Monitor & Control
HMI to System Platform: Operations Management Interface

More than HMI

Content/Context at the CORE

Transformational Platform for Operations
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