OSIsoft and the PI System

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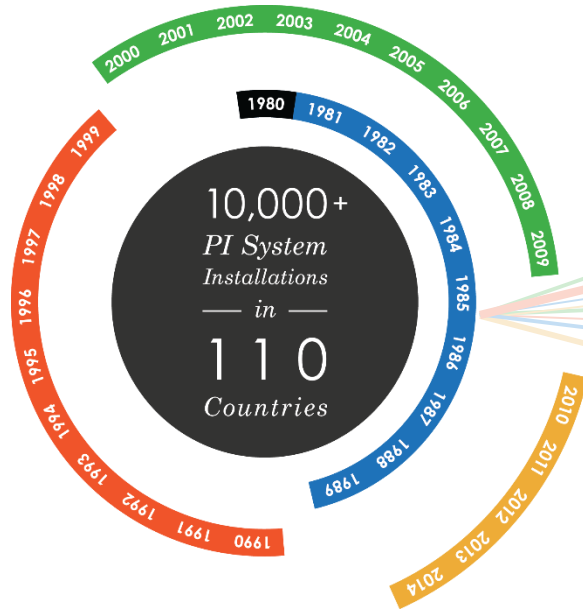
April 16th, 2015

OSIsoft is Truly a Global Company

Calgary, Alberta
Montreal, Quebec
Mayfield Heights, OH
San Leandro, CA
Philadelphia, PA
Vienna, VA
Johnson City, TN
Savannah, GA
Phoenix, AZ
Houston & Longview, TX
Mexico City, Mexico
São Paulo, Brazil

Moscow, Russia
London, UK
Frankfurt, Germany
Paris, France
Ostrava, Czech Republic
Madrid, Spain
Manama, Bahrain
Durban, South Africa

Beijing, China
Seoul, South Korea (AID)
Tokyo, Japan
Shanghai, China
Singapore
Perth, Australia
Sydney, Australia

★ OSIsoft Headquarters

● OSIsoft Offices

A Unique and Proven Vision
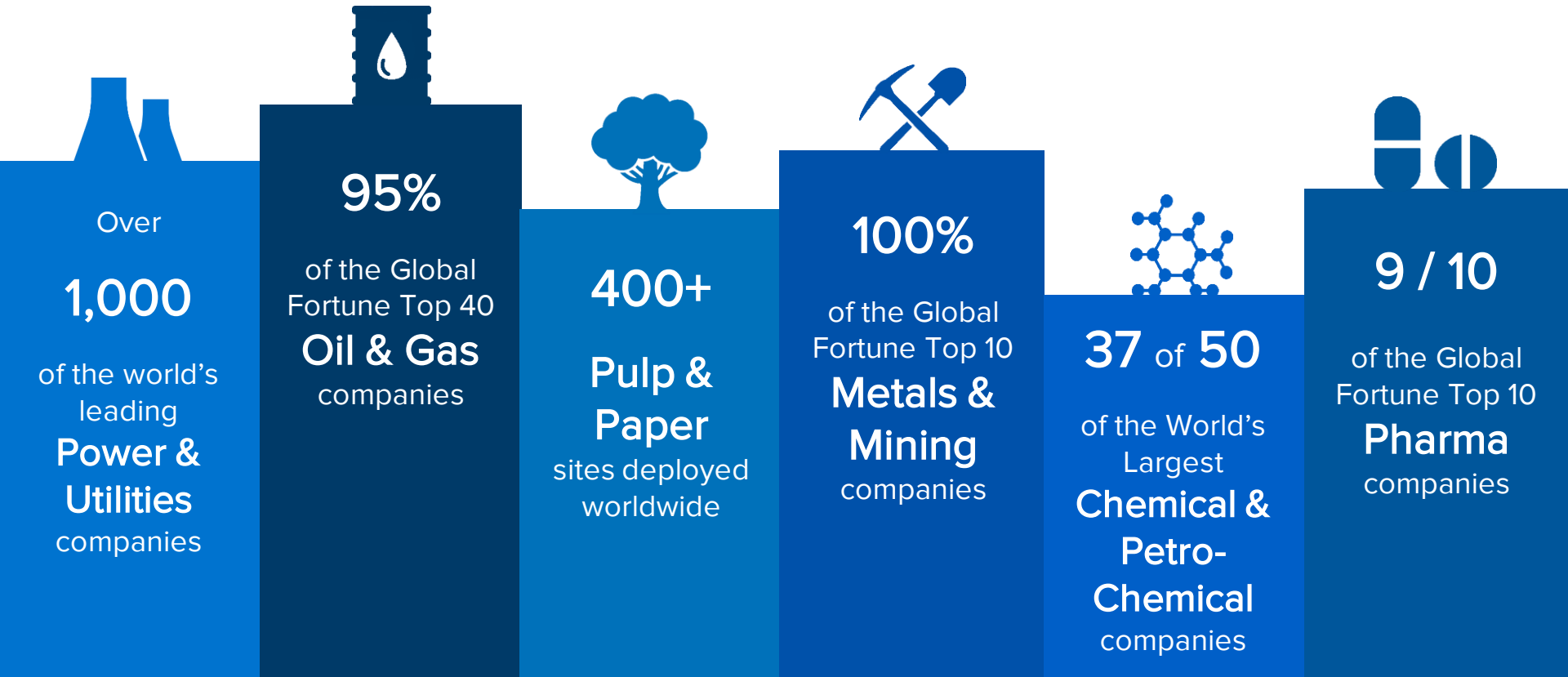

For over 30 years OSIsoft has:

- Infrastructure for consolidation and centralization of sensor based data
- Open infrastructure to support best of breed ecosystems
- Scalability from small deployments to enterprise deployments
- Infrastructure for change
- Infrastructure for empowering people
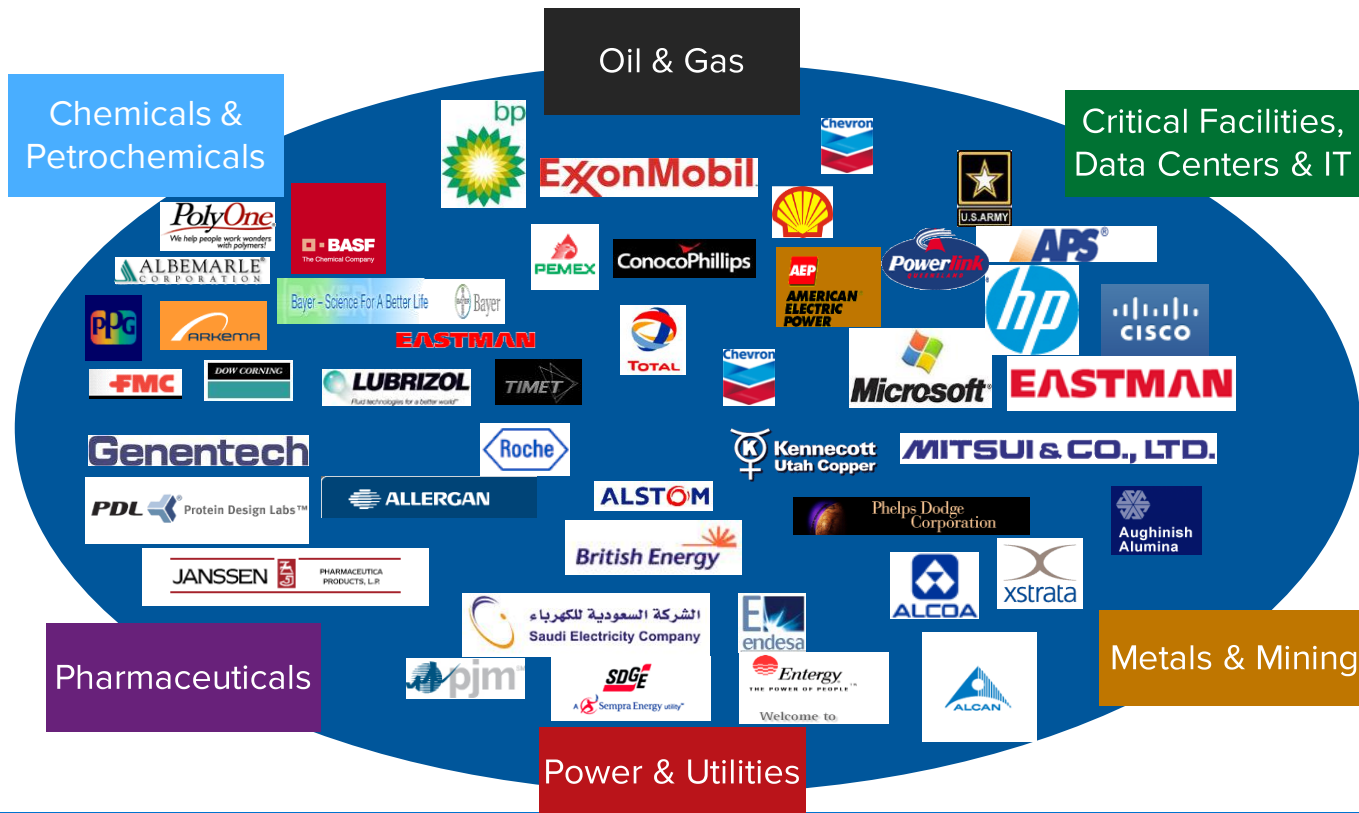
OSIsoft is trusted by the world's leading companies

Over
1,000
of the world's leading **Power & Utilities** companies

95%
of the Global Fortune Top 40 **Oil & Gas** companies

400+
Pulp & Paper sites deployed worldwide

100%
of the Global Fortune Top 10 **Metals & Mining** companies

37 of **50**
of the World's Largest **Chemical & Petro-Chemical** companies

9 / 10
of the Global Fortune Top 10 **Pharma** companies

OSIsoft – Customer Base

We believe **People** with **Data** can **Transform** their world

Our Customers Gain Value

Safety & Security

Energy Utilization

Process Efficiency

Asset Health

Quality

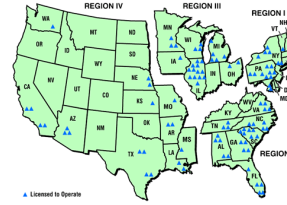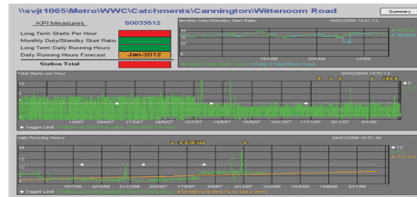**Regulatory Performance**

SUPPORTING ASSET & INCIDENT INVESTIGATIONS
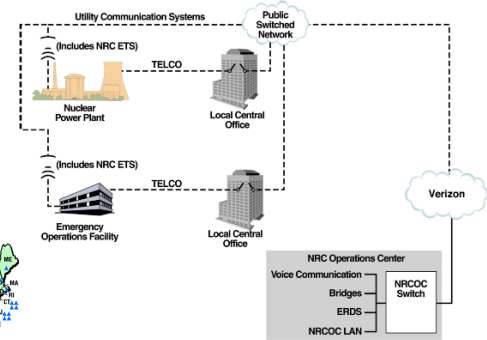
Figure 2: Proposed NRC Emergency Telecommunications System

SUPPORTING OPERATOR & MAINTENANCE ROUNDS

Evaluating & Capturing
Equipment Inspection Status

Providing Situational Awareness

OSIsoft. FEDERAL WORKSHOP

GLOBAL INFRASTRUCTURES / CRITICAL INFORMATION

OSIsoft and the PI System

Mark McCoy

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Federal Solutions Architect

April 16th, 2015

Experts Usually Possess More Data Than Judgment
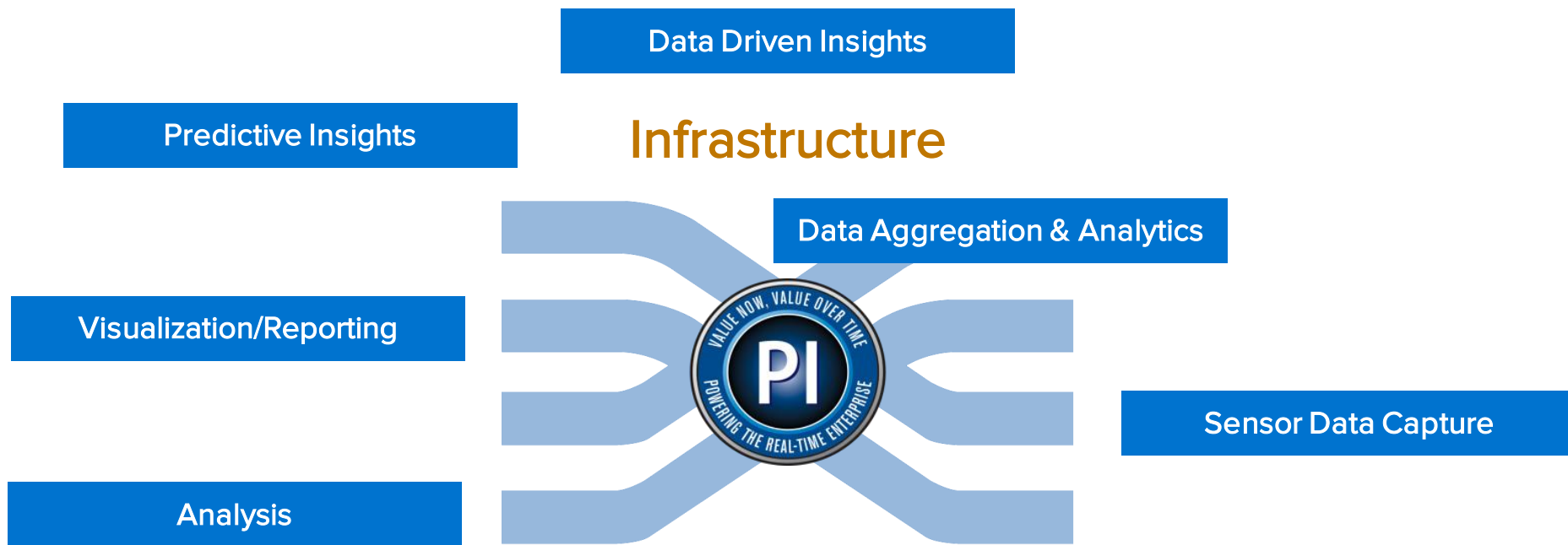
Colin Powell

Journey to Operational Intelligence

Data Driven Insights

Predictive Insights

Infrastructure

Data Aggregation & Analytics

Visualization/Reporting

Sensor Data Capture

Analysis

in·fra·struc·ture [in-fruh-struhk-cher]

Asset-equipment/device

"It can be generally defined as the set of interconnected structural elements that provide framework supporting an entire structure of development[1]"
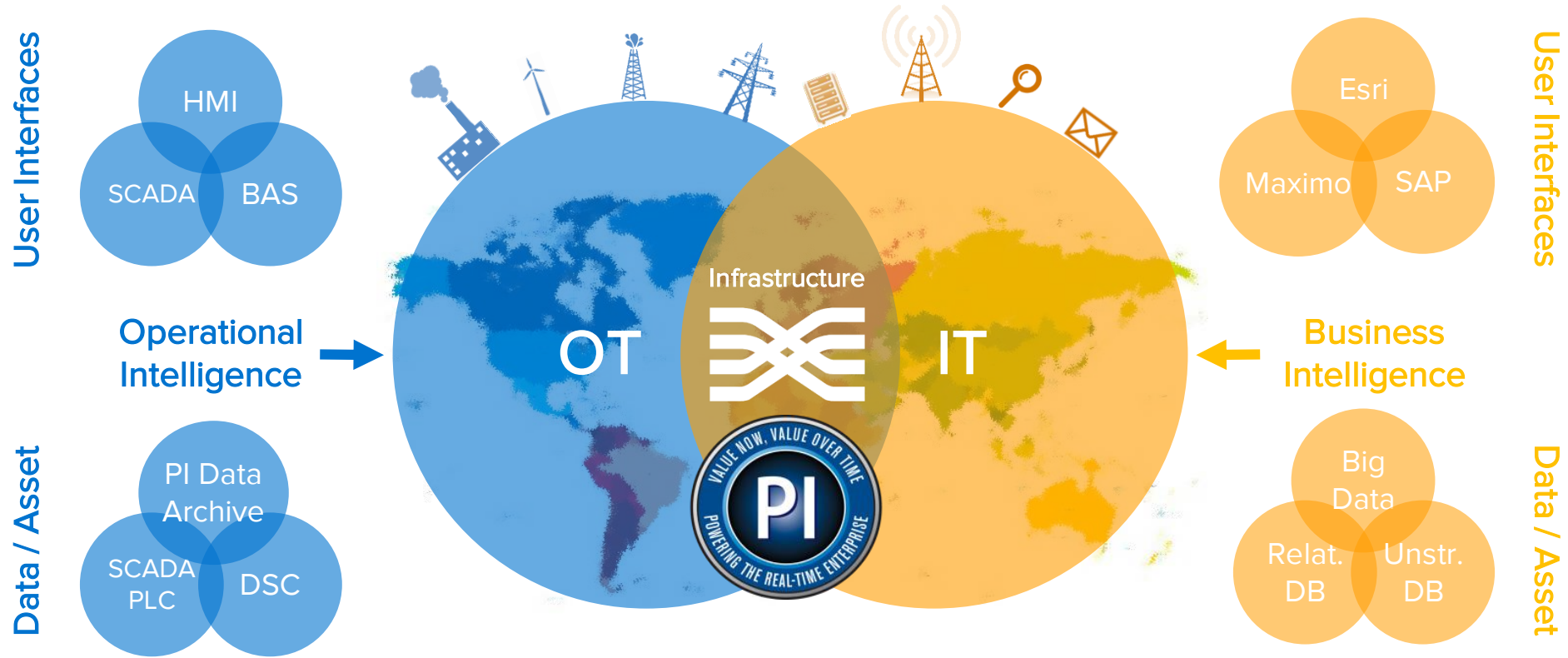
SCADA/DSC/PLC/HMI
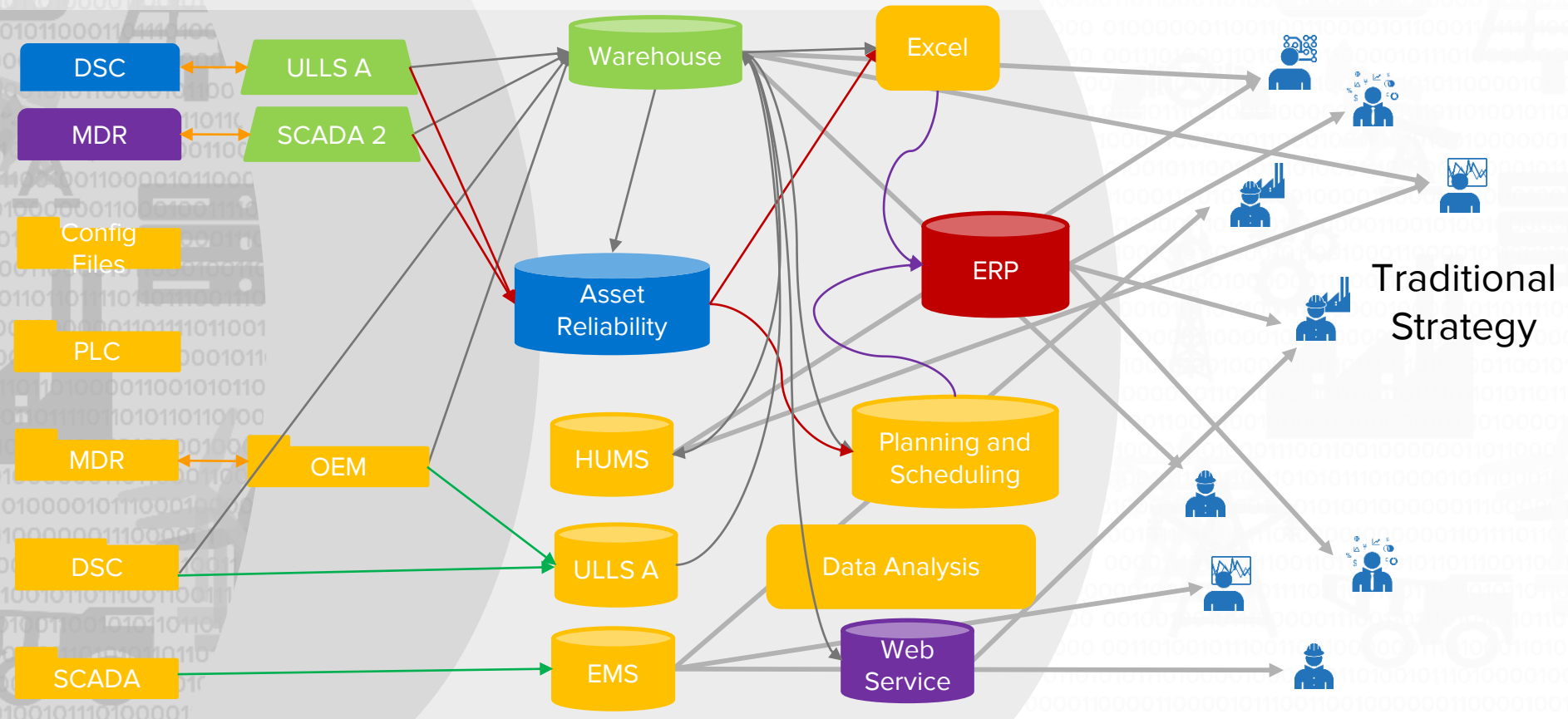
Infrastructure Context Joins Enterprise Data

User Interfaces

HMI

SCADA   BAS

Data / Asset

PI Data Archive

SCADA PLC   DSC

Operational Intelligence →

OT

Infrastructure

PI
VALUE NOW, VALUE OVER TIME
POWERING THE REAL-TIME ENTERPRISE

IT

← Business Intelligence

User Interfaces

Esri

Maximo   SAP

Data / Asset

Big Data

Relat. DB   Unstr. DB

Silos to Standards / Complexity to Simplicity

Traditional Strategy

DSC — ULLS A — Warehouse — Excel — ERP — Planning and Scheduling — Asset Reliability — HUMS — ULLS A — EMS — Data Analysis — Web Service

MDR — SCADA 2

Config Files

PLC

MDR — OEM

DSC

SCADA

Silos to Standards / Complexity to Simplicity

DSC → ULLS A

MDR → SCADA 2

Config Files

PLC

MDR → OEM

DSC → Modbus

SCADA

Collect · Enhance · Deliver

PI — VALUE NOW, VALUE OVER TIME · POWERING THE REAL-TIME ENTERPRISE

Business Intelligence

Asset Reliability

ERP

Notifications

esri

SAP

IBM maximo

PI System Infrastructure

PI Interfaces

Notifications

Analytics

Asset Modeling

Realtime Database

PI System Access

LoB Systems

esri

SAP

IBM maximo

PI Visualization Suite

PI Coresight

PI ProcessBook

PI DataLink

PI WebParts
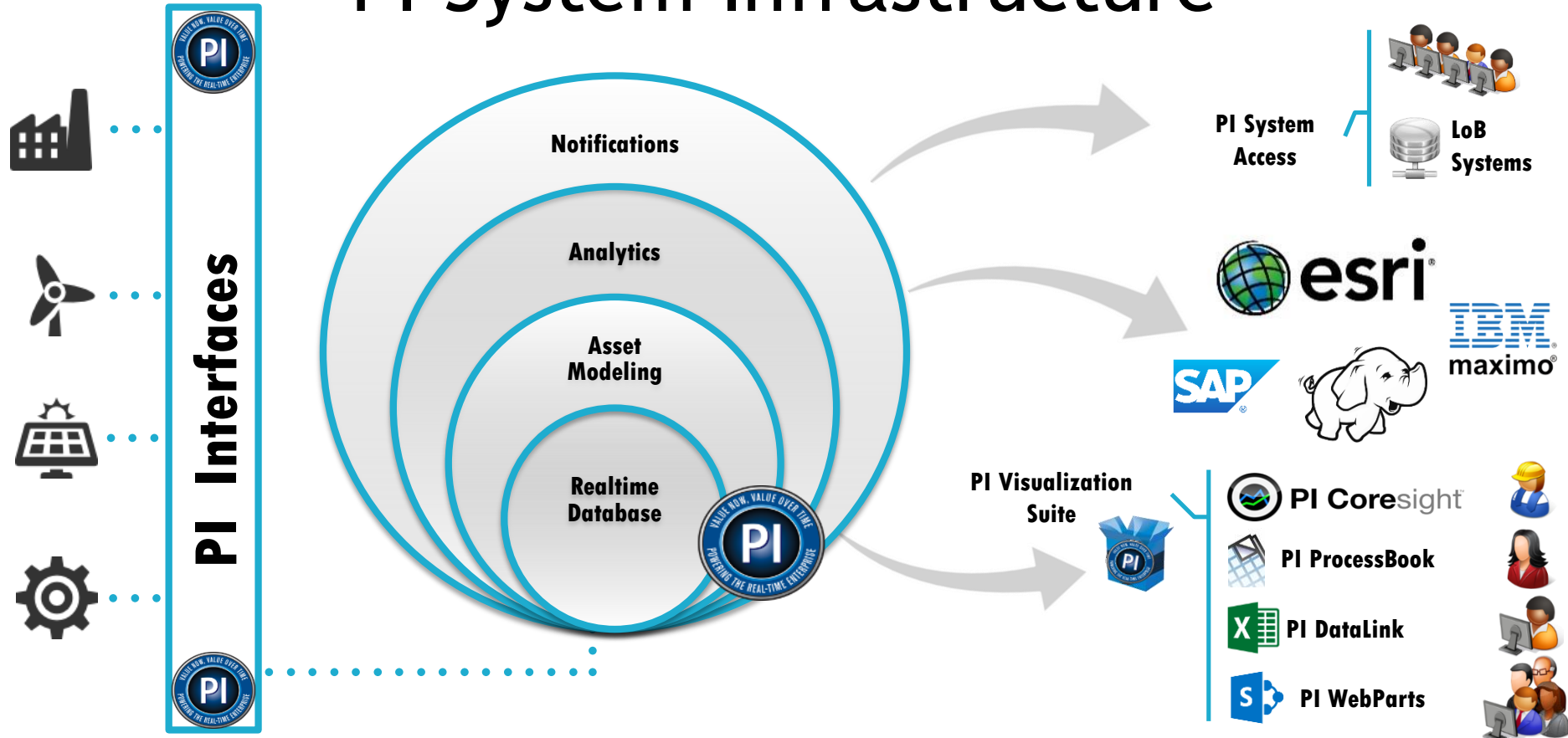
Customer Examples

MLB: Self Service Intelligence

7-day sample of Electricity Demand

Average Non-game Days
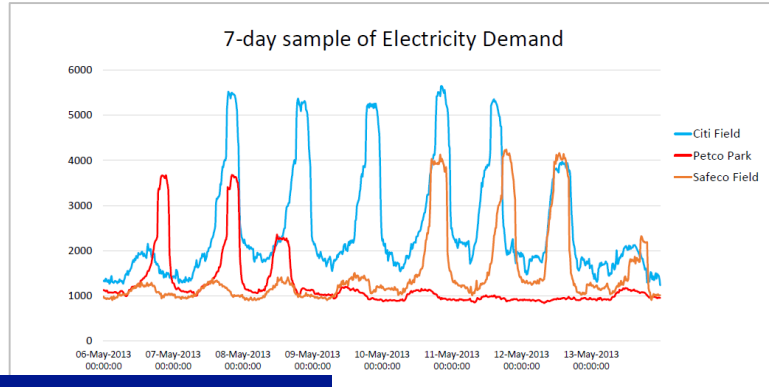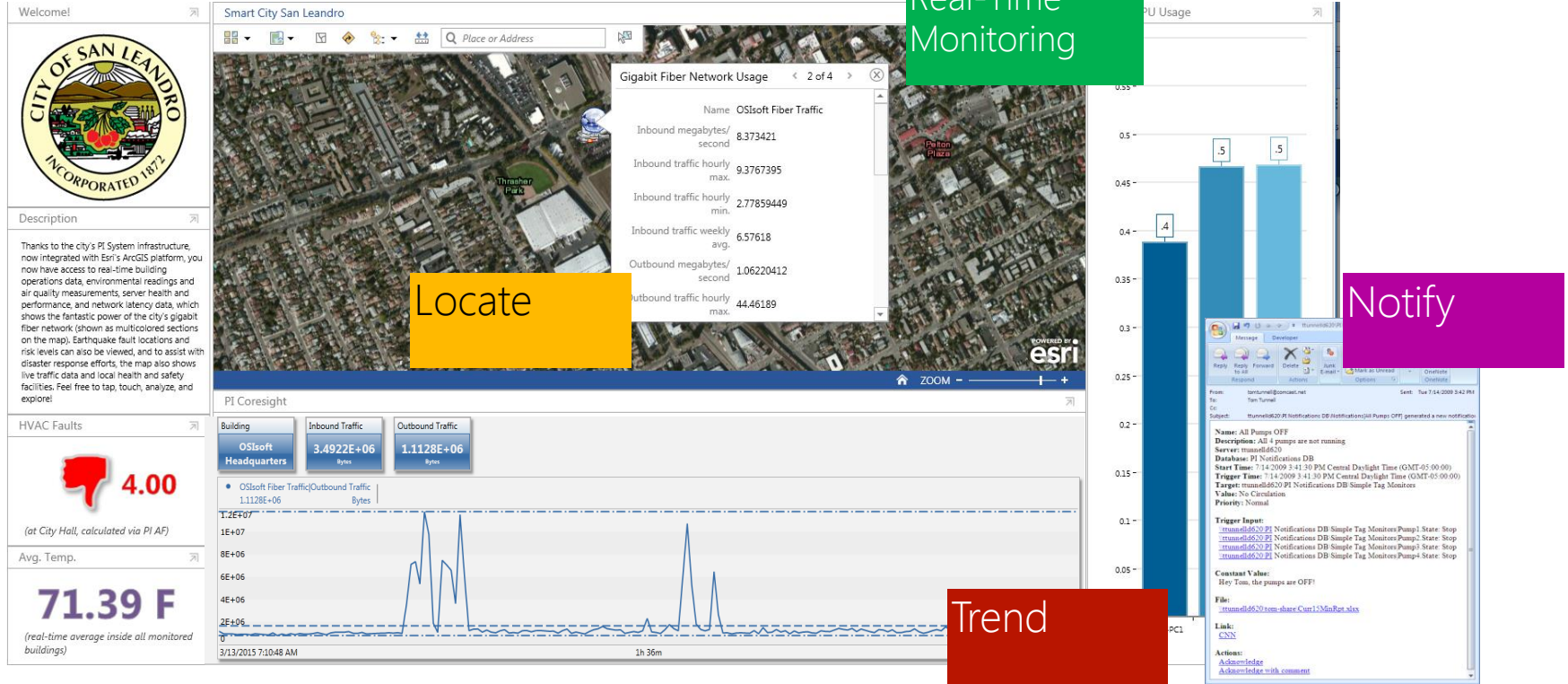
Insight into the simple things; like how much does it cost to open the roof?
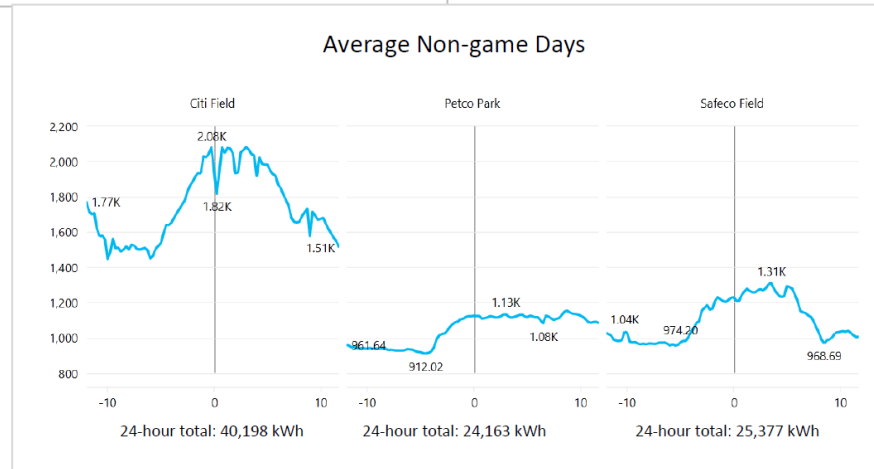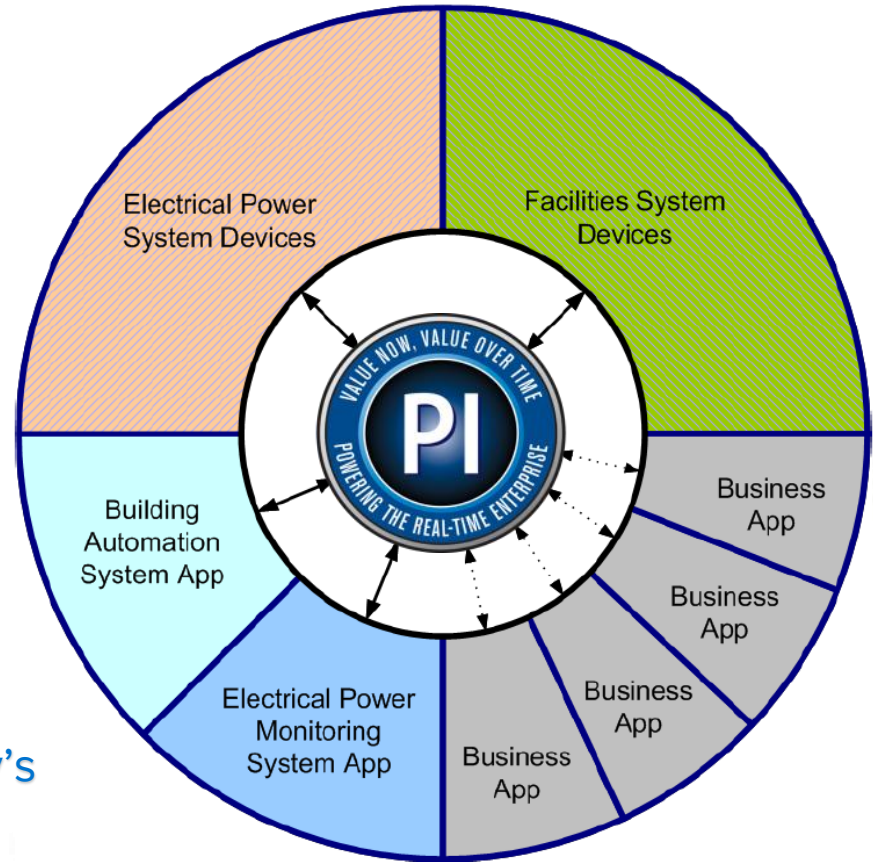
City of San Leandro: Bring your Maps to Life

eBay Data Centers

PI System as the data infrastructure

- IT data
- Electrical data
- Building Management System data
- All the applications connect to the PI System

Reporting against eBay's key business metrics

Applications are Like Fish, and Data is like Wine.

Thank You

Mark McCoy

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OSIsoft®