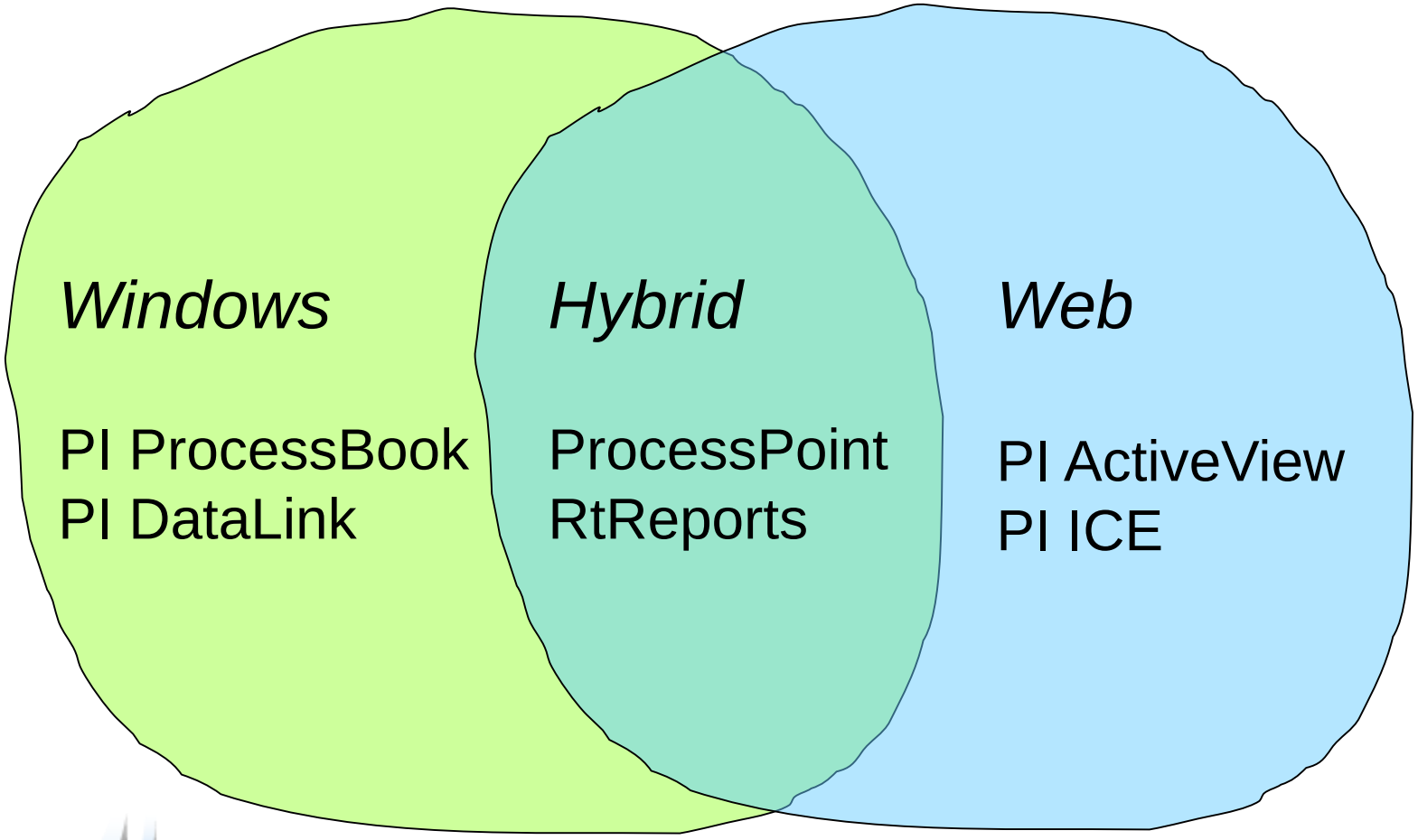
OSIsoft Development Directions

Mark Hughes

Visualization Strategy



When are web applications best?

- *Slowly changing content*
- *Hyperlinks*
- *Disparate data sources*
- *Sharing data*
- *Mobile devices*
- *Changing application needs*
- *Cross-company collaboration*

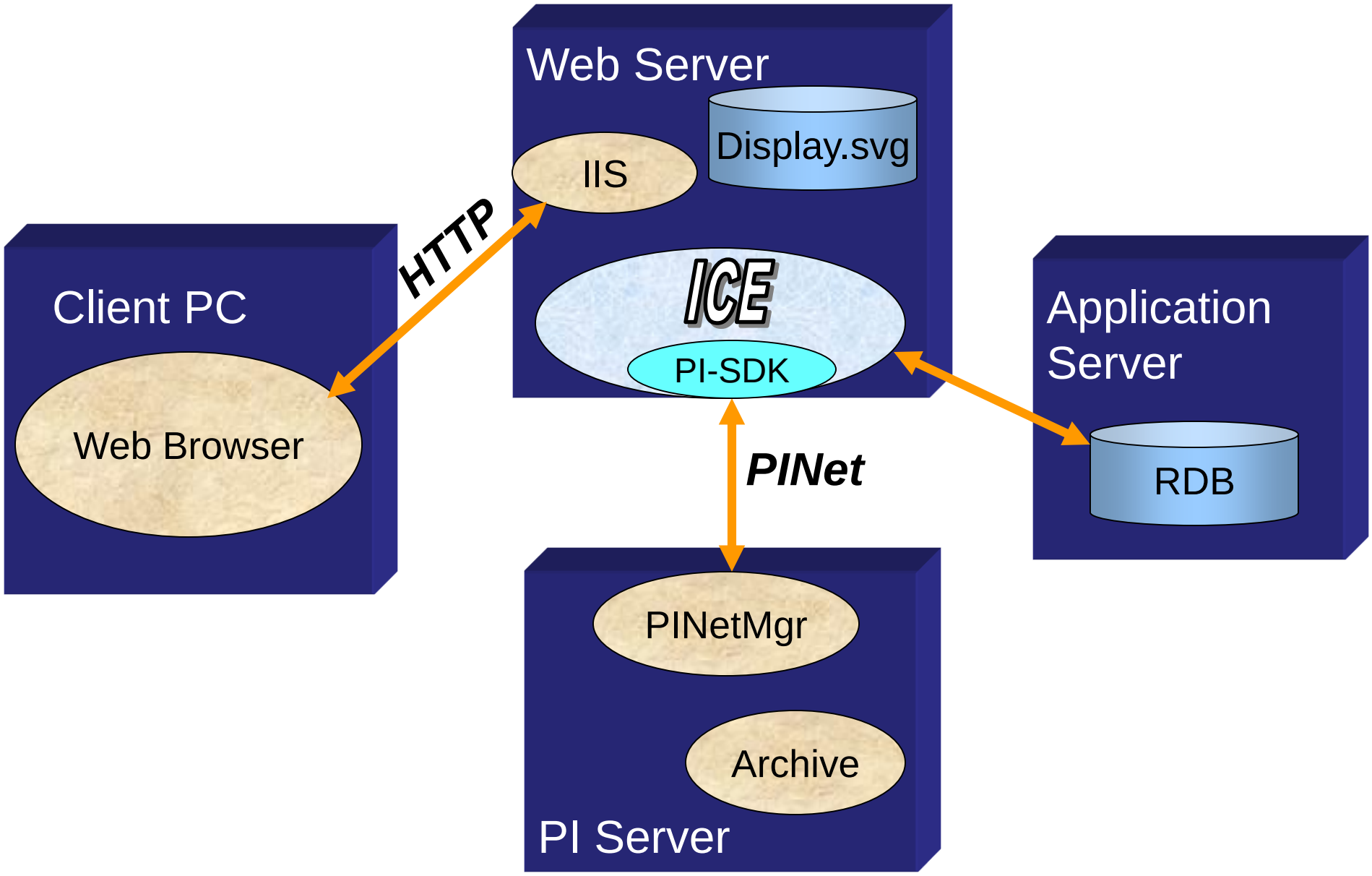
ICE Roadmap

- *Version 1.0 – released last year*
- *Version 1.1 – beta soon*
- *Version 2.0 – ASP.NET version*

ICE 1.1 features

- *SQL Business Object*
- *Table Web Part*
- *ProcessBook Datasets*
  - *PI Dataset Business Object*
  - *Dataset support in ProcessBook's SVG Export*
  - *Dataset support in the PI Graphic web part*

ICE 1.1


Web Server
Display.svg
IIS
HTTP
Client PC
ICE
PI-SDK
Application Server
Web Browser
PINet
RDB
PINetMgr
Archive
PI Server

ICE 1.1 Demo

Gregg Le Blanc, PI Product Manager

Table Web Part Features

- *Sort by column*
- *Paging through large numbers of rows*
- *Number formatting*
- *Justification and text wrapping*
- *Horizontal bar graph*

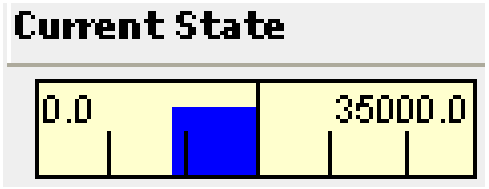


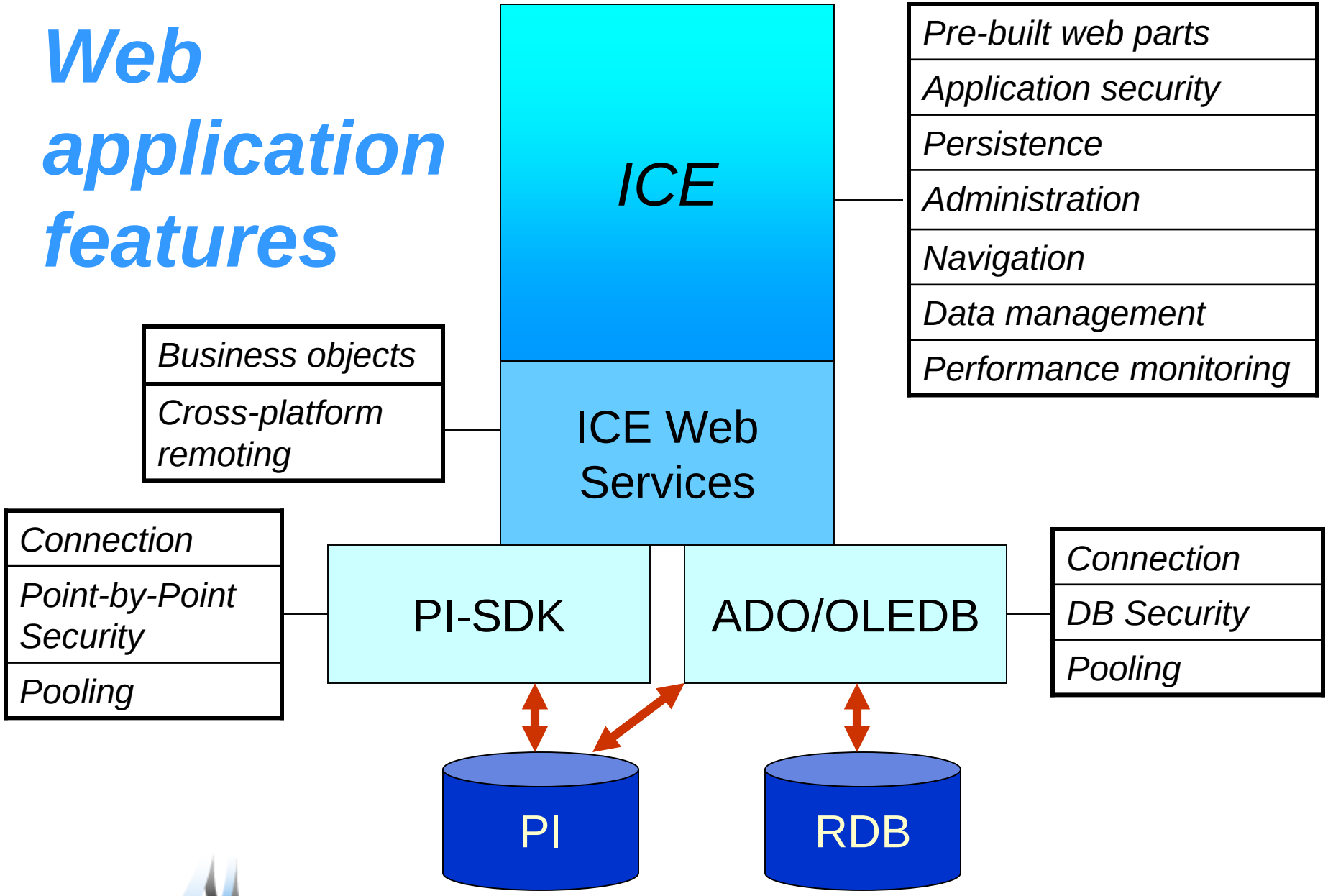
Table Web Part, Part II

- *Specify data source on server*
- *Hyperlinks from cells*
- *Images in cells for hyperlinks*
- *Cells that change color based on value*
- *Run-time placeholders*

Table Web Part, Part III

- *PI Tag placeholders*
- *Show PI data in some cells*
- *Drag-and-drop to trends (using Module Database)*
- *File Select cells*
- *Respond to time range changes*
- *Real-time updates (SQL, PI, or both)*

Web application features



ICE 2.0

- *ASP.NET*
- *Windows SharePoint Services*
- *No more client-side Java*
- *Mobile devices and down-level browsers*
- *Automatic migration from ICE 1.x*

Evolution of web applications

- *Integration with desktop tools*
- *Collaboration*
- *Context*

Purchase of Sequencia

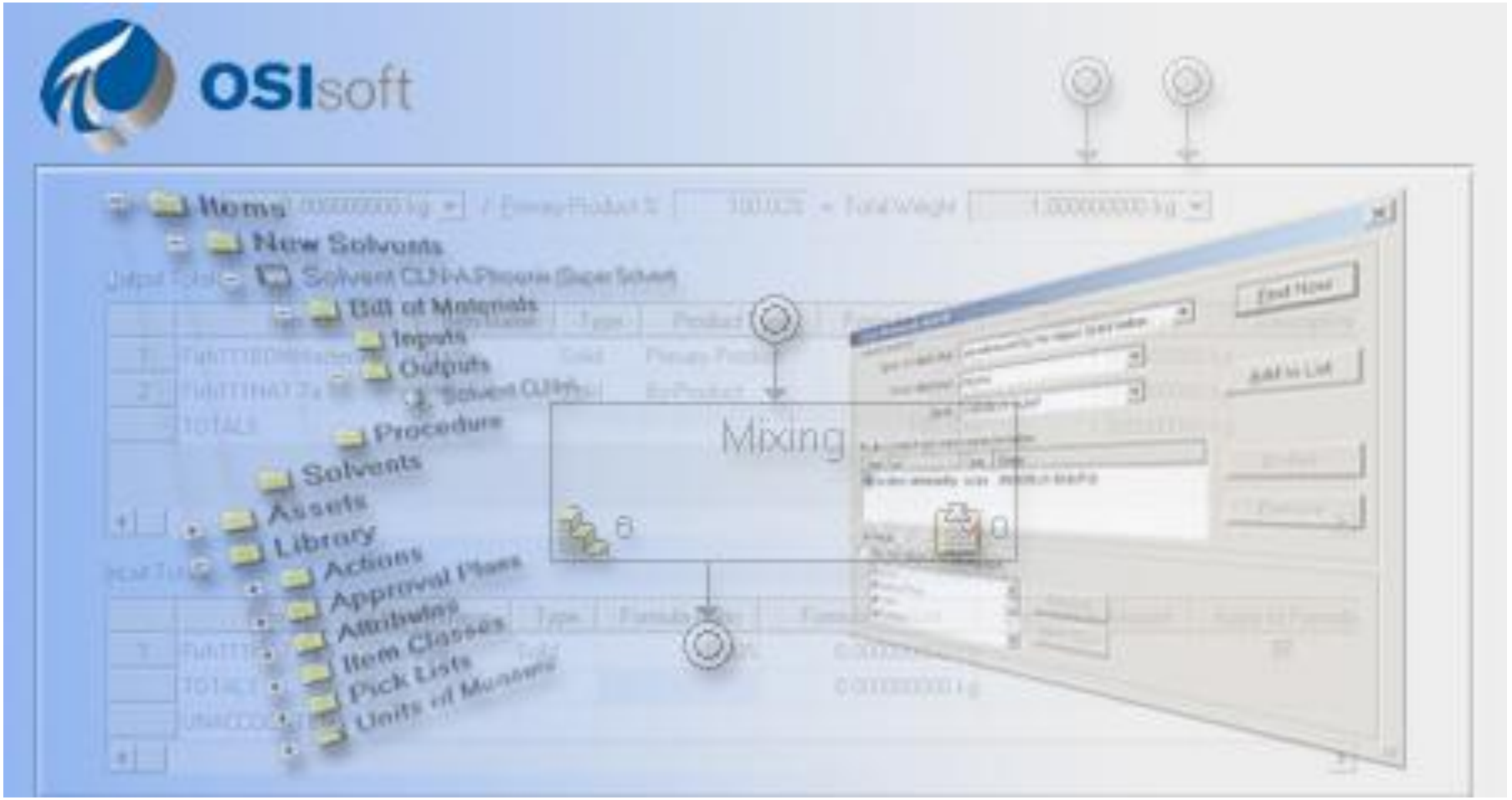
- *Batch expertise*
- *Product Lifecycle Management (PLM)*

CANADA
Seattle
WA
MT
ND
MN
OR
ID
SD
WY
Minneapolis
WI
MI
Boston
NH
VT
ME
MA
NY
RI
CT
CA
NE
IA
Chicago
Detroit
PA
New York
NJ
DE
MD
UT
Denver
CO
IL
IN
OH
WV
VA
KS
MO
St. Louis
KY
NC
TN
Memphis
SC
AR
Atlanta
MS
AL
GA
LA
New Orleans
FL
Miami
San Diego
North Pacific Ocean
North Atlantic Ocean
MEXICO
Gulf of Mexico
HAITI
CUBA
JAMAICA
AK
Honolulu
HI
North Pacific Ocean

Product Lifecycle Management

- *Raw materials*
- *Specifications*
- *Variants*
- *Recipes*
- *Packaging*
- *Manufacturing facilities*

ProcessPoint from OSIsoft



Why we are interested in PLM

- *Promising new market*
- *Infrastructure product*
- *Complements PI*
- *Richness and robustness*

Industrial Strength Product

- *Audit trail*
- *Internationalization*
- *Security model*
- *Unit of measure handling*
- *Software technology*
  - *COM+ transactions*
  - *SOAP*
  - *Custom views via XSLT*

ALBERTO CULVER

Curt Funke, Divisional Vice President of Global Purchasing and Packaging Engineering

Alberto Culver and ProcessPoint

A partnership between a consumer products business and a technology innovator in PLM

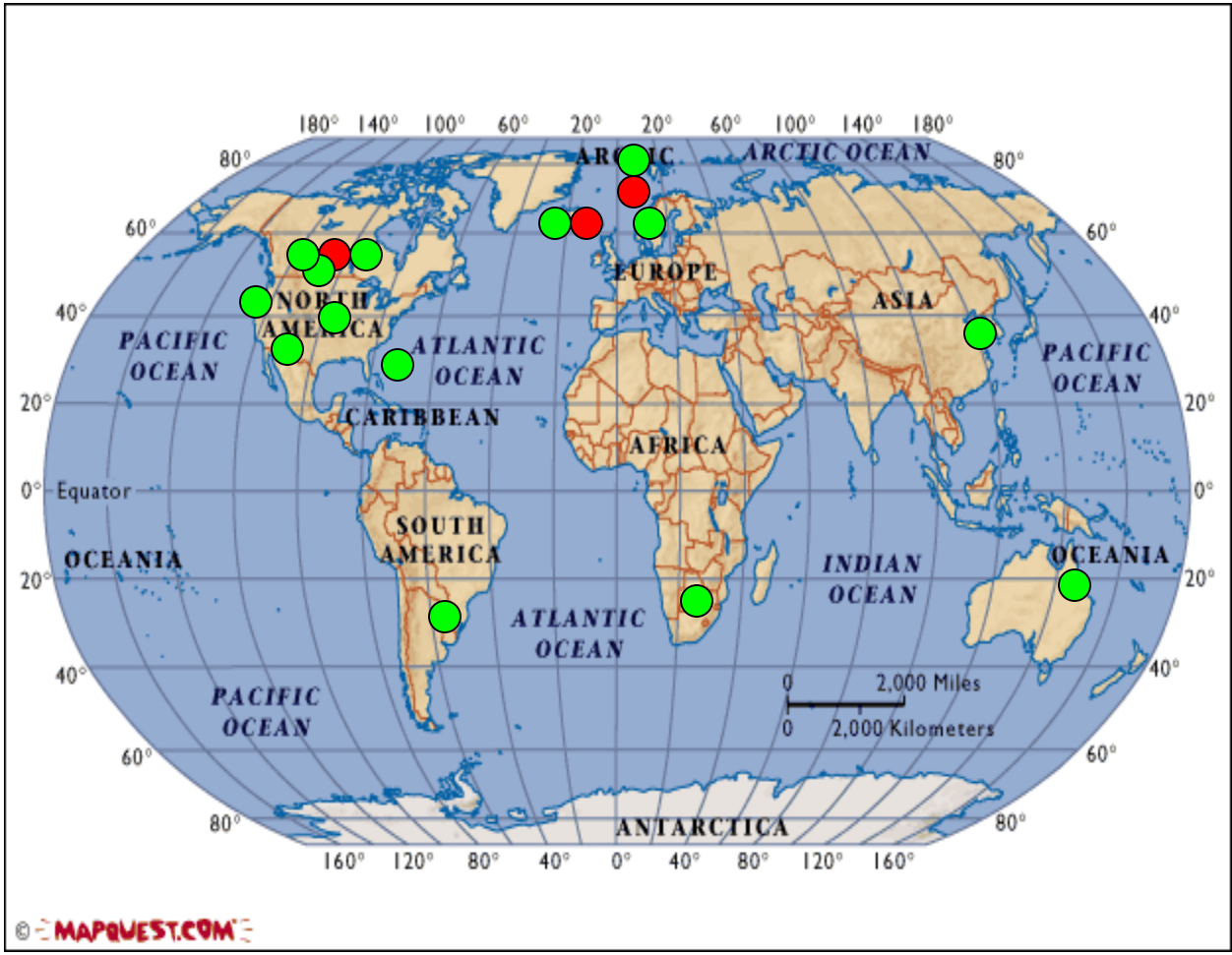
Alberto Culver Company

- *$2.7 Billion dollars in annual sales*
  - *$1.1 Billion in Consumer Product Manufacturing*
  - *$1.6 Billion in Retail Sales from Sally Beauty*
- *11 consecutive years of record Sales and Profits*
- *6000 Products sold in more than 130 countries*
- *Over 300 new products launched globally in 2000*
- *Our company doubles it's size every five to seven years.*
- *New innovative products are the greatest contributor*

Alberto Culver Offices & Plants

- **14 Manufacturing Sites**
- **3 Design Centers**

  Chicago, Stockholm, Basingstoke UK.
  - *Packaging*
  - *Formulation*
  - *Creative Design*
- **1200 Direct Suppliers**
- **6000 Products sold in 130 countries.**



Business Challenges

- *Rapid growth in new product introductions, promotions, and customer specific displays. Over 300 global new products and 250 promotional/display SKUs in one year.*
- *Faster product lifecycles leading to frequent redesigns, formula and graphics changes, and regulatory compliance.*
- *More granular attributes needed for supporting other systems such as WMS, e Sourcing, e Procurement, ERP, and CRM.*
- *Wal-Mart and other retailers supporting on line catalogs from CPG manufacturers sending data through the UCCnet by January 2004.*
- *Silos of product specifications in multiple business units not uniform, not connected, not complete (acquisitions, mergers).*
- *Finally…do more…with no additional head count.*

Goals

- *Collaborate on developing a complete and global product data management (PDM) system for our Company.*
- *To find a supplier that could help us to web enable our specification system so that it would be truly global with the reach and speed of the Internet.*
- *To enhance the quality of raw materials worldwide with uniform quality standards built into specifications with both English and Metric versions*
- *To provide visibility to all manufacturing sites to the specifications for all our products being managed at our design centers.*
- *To reduce the redundancy and proliferation of new part numbers being added and to migrate to a global part numbering system.*

Reducing Cost

- *ROI was built on the ability for us to achieve the following…*
  - *Consolidate part numbers globally and leverage spend on common materials.*
  - *To automate the uploading of specifications into regional and global bid packages in our Internet based e Sourcing solution. Giving suppliers electronic visibility to all the direct materials we purchase. We expect an additional 1% reduction in cost of goods that are bid.*
  - *Reduction of out of specification materials which leads to less rework, scrap losses, and downtime.*
  - *Fewer errors in production internally and externally at contract fillers.*

Find out more…

- ***"Implementing ProcessPoint in the Consumer Goods Industry"***
  - *Tuesday at 8:50 AM*
  - *Curt Funke, Divisional Vice President Purchasing and Packaging Engineering*
  - *Ethan Fraley, Packaging Engineer*

Integration with PI

- *ProcessPoint COM Connector*

ProcessPoint & PI demo

- *Tamara Schuryk, ProcessPoint Product Manager*

2003
OSISOFT USERS CONFERENCE

RtPM

Without the right infrastructure, agility is impossible.