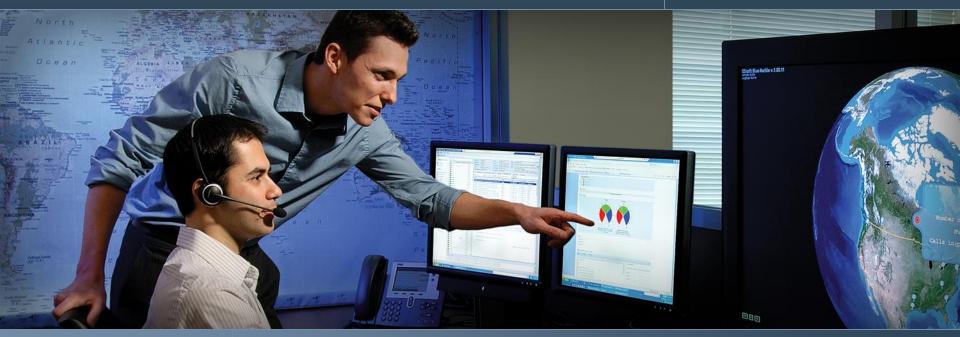


Regional Seminar Series



An Enterprise Collaborative Environment to Enable the Daily Operations Decision-Making Process, the Polimeri Europa case

February 4th

Carlo Volpones, ENI

AGENDA



- Polimeri Europa/ENI
- The Business Needs
- The AS-IS Scenario
- The Solution Approach
- The feed-back
- Future steps

WHO WE ARE



Polimeri Europa is fully owned by Eni SpA

- Polimeri Europa ranks first in the Italian chemical industry in terms of turnover, volumes and number of employees, holding significant market shares in Europe.
- Polimeri Europa's business portfolio includes Basic Chemicals (olefins, aromatics and intermediates), Polyethylene, Elastomers and Styrenics.
- Polimeri Europa production sites are located in Italy, Belgium, France, Germany, Great Britain, Hungary and Portugal;
- The sales network covers all European countries, Russia and Egypt.

Plants in Italy





Plants in Europe





THE BUSINESS NEEDS



Common environment for daily data review

Make daily summaries available to Central Headquarter
Operation Manager of all of the 17 production sites

 Bottom-up data review capabilities and top-down data searching support

- At each site operators validate data during night shift;
- Timely data availability to HQ (daily at 8:30AM)
- Tracking changes and managing read/write access privileges

THE CHALLENGE



 Data storage topology and chronology are different through multiple sites

 Previous data distribution was specific to each site and based on paper or electronic-sheet historic layouts

 Data presentation requirements for the HQ should take into account a progressive roll-out and integrate easily with current emailed-in reports

THE REQUIREMENTS



- No local client setup
- Support any type of data source
- Support sites without data historian
- Flexible reporting options
- Simple management of user privileges
- Repository for layout templates
- Extensible for future projects
- Leveraging existing data storage infrastructure

THE CURRENT SCENARIO



- Production data available on:
 - PI systems installed on each major site
 - Custom local applications based on relational databases
- Additional information (data not measured or comments) has to be entered manually
- Presentation and Analysis infrastructure available at HQ:
 - PI WebParts with Microsoft Office Sharepoint Services (MOSS)
 - PLAF
 - PI Server

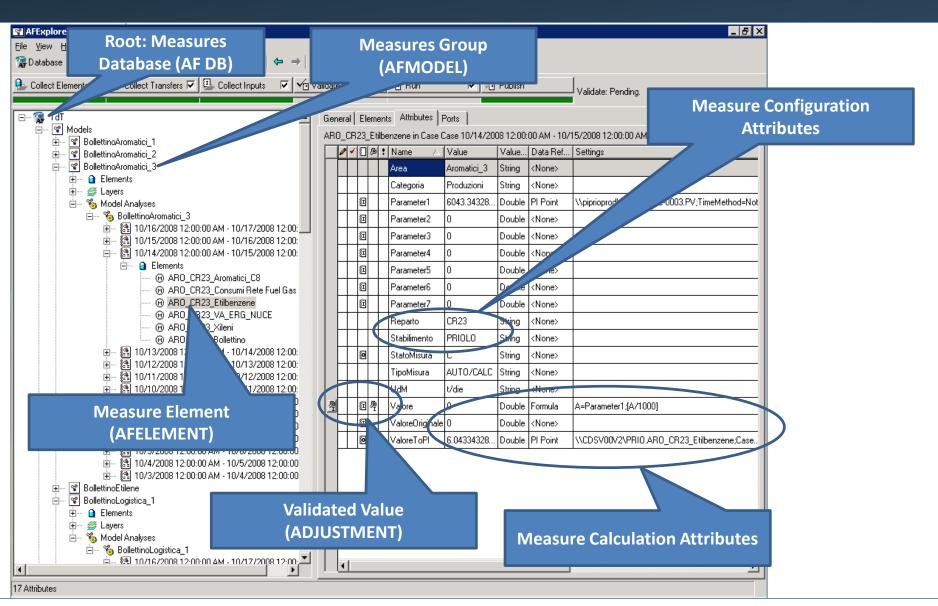
THE APPROACH



- Reusable Business Rules repository based on PI AF
 - Data retrieval templates (PI, relational DB, manual, any...)
 - Aggregation rule templates
 - Site templates
- Collaborative working environment based on Microsoft Sharepoint and PI WebParts
 - Time range control
 - Trend and tabular data presentation capabilities

THE AF MODEL





ONE STEP FURTHER

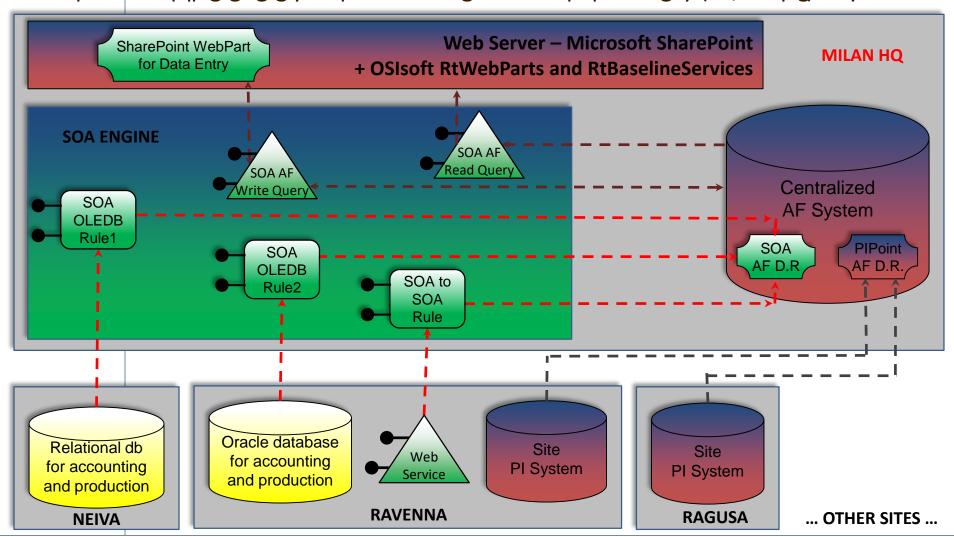


- SOA-based innovative contributions
 - Expose AF data and structure via web services to complement standard PI WebParts environment
 - Empower AF to reference efficiently large amount of non-PI data (mostly on relational databases) preserving existing local data repository to be used by the current daily yield account solutions
 - Enable Microsoft Sharepoint environment to provide manual data entry facilities integrated with standard RtWebParts reducing impact on future deployment of new IT workstations
 - Provide extensible AF-based reporting features with standard Microsoft tools
- Accessing Data on Demand
 - Rules stored not data
 - · Immediate updated information available, when source change

INFRASTRUCTURE OVERVIEW



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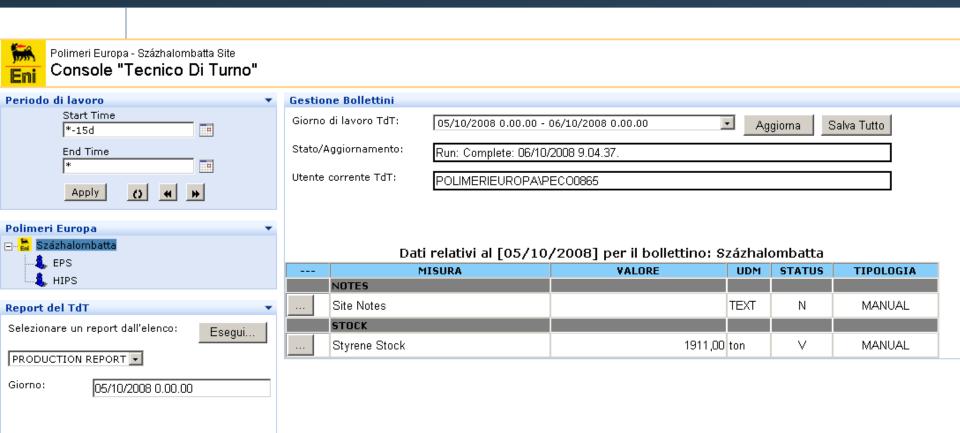
THE LOOK-AND-FEEL - Corporate Homepage





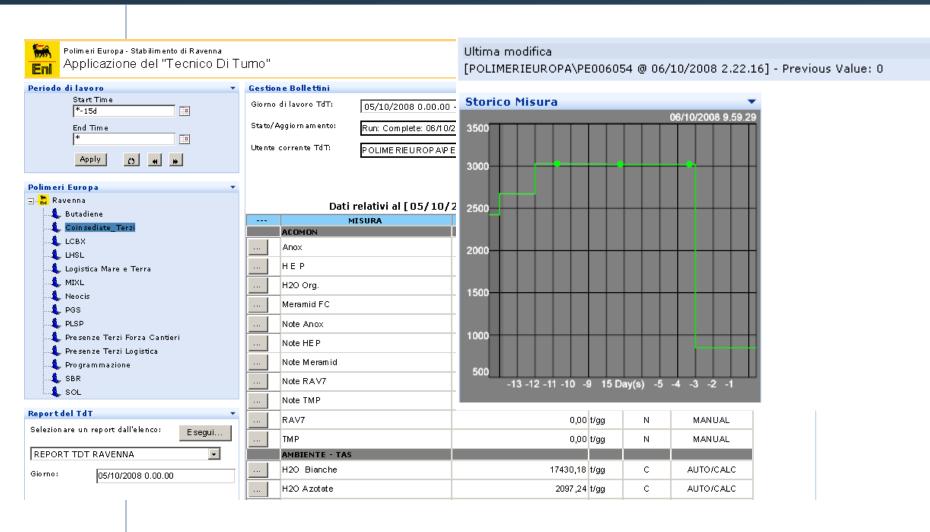
THE LOOK-AND-FEEL - Site Access





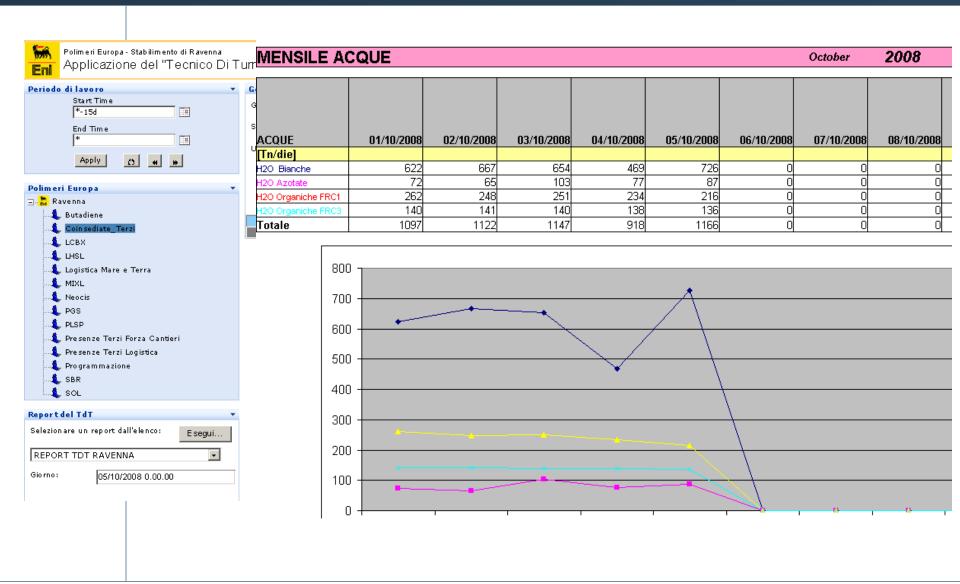
THE LOOK-AND-FEEL - Collaboration





THE LOOK-AND-FEEL - Reporting





THE PROJECT PLAN



- Successive Phases Approach
- First Step Integrate PI only sites
- Second Step Integrate no-PI sites (support for manual data entry)
- Third Step Integrated site-specific relational data
- 10 out of 17 sites implemented today
- Site rollout average
 - Deploy 2 weeks
 - Commissioning 3 / 4 weeks

THE TOPOLOGY



- Europe language barriers
- 7 nations thru-out Europe



THE USER FEED-BACK



More than 200 daily users!

- HQ:
 - Users get more and more interested.
 - Single consistent reference for Enterprise decisions.
 - Collaborative environment fuels organization capability.

- Sites:
 - Collaborative environment empowers producers.
 - Used to cover information gaps at sites.
 - Useful reference in driving daily activities.
 - · Efficient manual data-entry.

THE IT BENEFITS



Quick & Winning Solution.

Reusable rules support fast deployment and future initiative.

Centralized secure, manageable and extensible architecture.

Thin client based.

THE NEXT STEPS

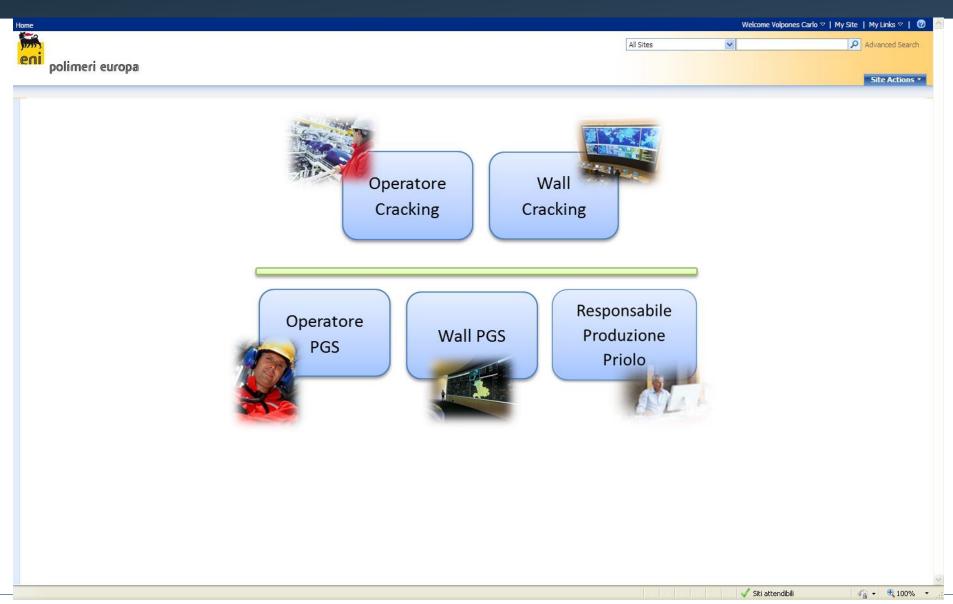


- Move to next versions
 - AF 2.0
 - MOSS 2007
 - PI-DataLink for MOSS
 - PI-Notifications

- Infrastructure review
 - Virtual Servers

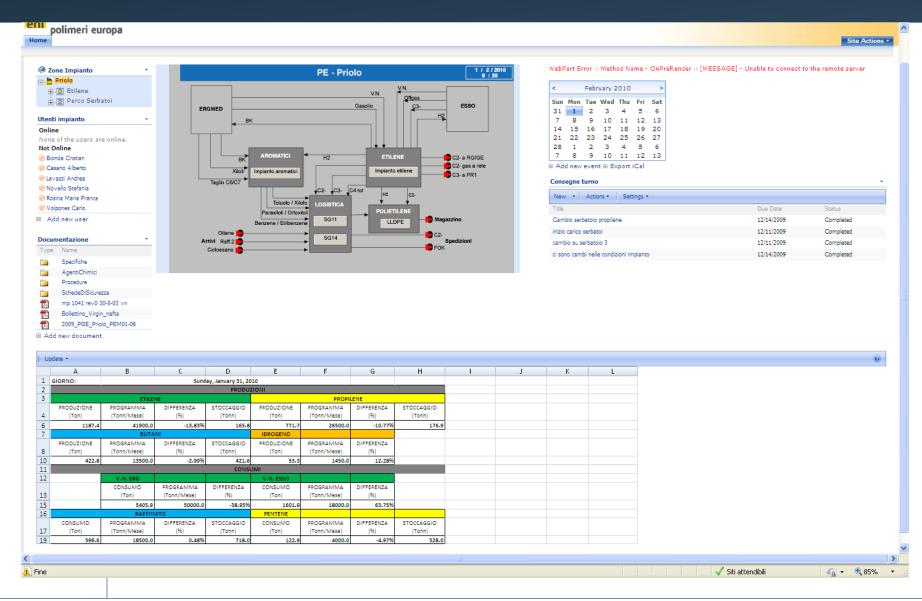
THE NEXT STEPS - Welcome





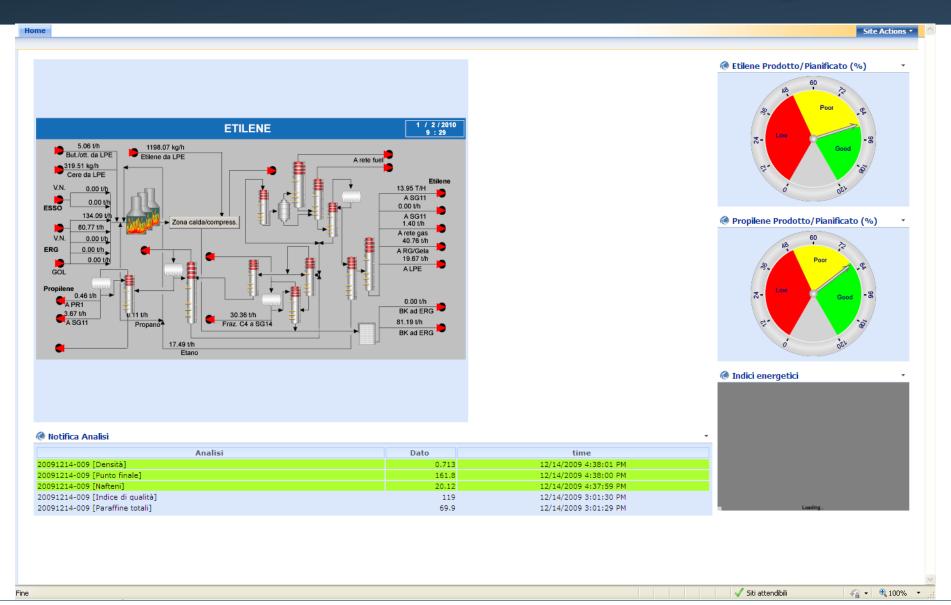
THE NEXT STEPS - Operator





THE NEXT STEPS - Wall





SUMMARY OBSERVATIONS



Collaborative Environment is a winning approach

Configurable Business Rules are enabling for today fast changing organizations

 Expand Production data availability crossing applications limits to reach organization boundaries



Thank you

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