

Delivering Information in **Real Time**

Presented by Maciej Koszur Process-IT Manager, Mondi Świecie S.A. **Emondi**







History of Mondi Świecie S.A.

Over 40 Years of History

1960

• 1967 Dissolving Pulp Plant

• 1970 – 1976 Start Up of 5 PMs

• 1972 Kraft Pulp Plant

1976 NSCC Plant

• 1991 Transformation into Joined Stock Company

• 1992 Restructuring

• 1997 Privatisation Mondi 60%

• 1997 – 2003 New strategy implementation

2008 – 2009 ECO7 Start Up 1 September 2009

2012

Świecie Paper Mill

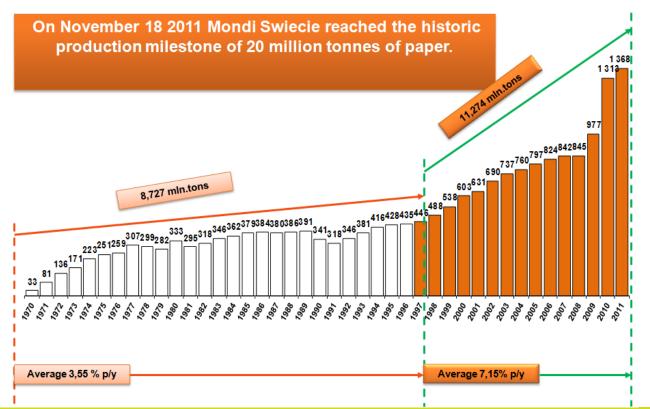


Main Data

2010 2011 Turnover € 670 m € 566 m **EBIT** € 110 m € 82 m Paper Production 1,368 m t 1,313 m t Employment 1 012 1 011 ROCE 24,59 % 17,2%



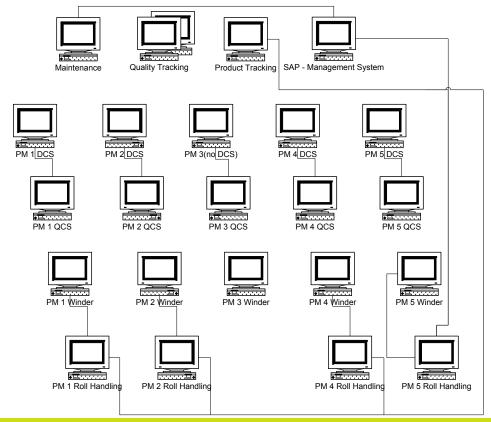
Operational excellence – production increase



Background of Systems Development

- SAP Implementation (1999 2001)
- Product Tracking System & Production Planning System MES (2001)
- Warehouse Management System (2002)
- Millwide Control System (OSIsoft PI System) (2003)

Islands of Production Systems in Świecie (2002)



Variety of Systems in Świecie (Status in 2003)

- Honeywell-Measurex DCS, QCS
- ABB DCS, QCS
- Honeywell Plantscape
- Emerson DELTA V
- Measurex Vision
- MES (ABB) ORACLE
- Energy Monitoring System SQL 7.0
- Text Files Non PI System Standards

Implementation of PI System in Mondi Świecie

Implementation of PI System was done by Plantsoft - German based company with employees in Germany, Czech and Poland.

Plantsoft works as PI System Integrator.

- Beginning of 2002 Decision to implement Mill-wide Control System
- 2003 January 10 Signing contract with Plantsoft, Start of Implementation
- 2003 April Productive Start of Mill-wide Control System (it took less than 3 months to start!)
- 2008 August Hardware and Software update to PI Server version
 3.4.380.36 performed on August 2010 by Plantsoft

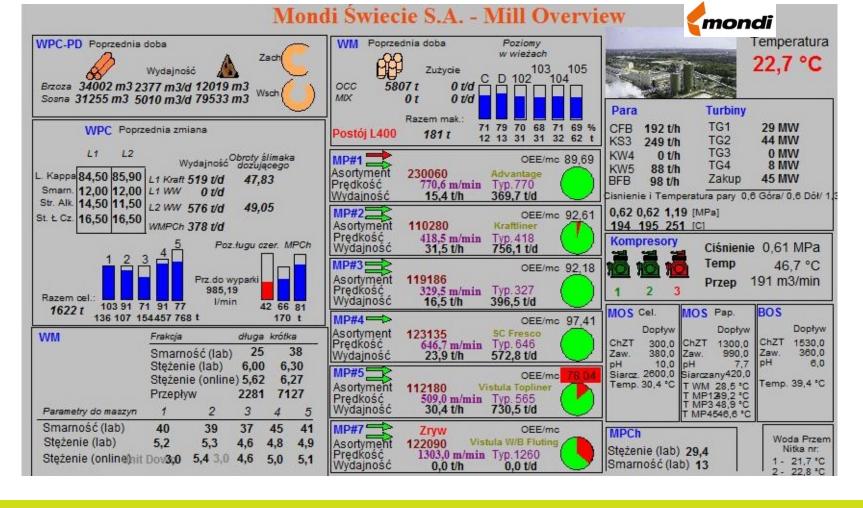
PI System Implementation in Świecie

- Scope of Implementation with Plantsoft in 2003
- PI System MS Cluster installation of PI Server with 5.000 Data Streams (now 50.000 Data Streams)
- Interfaces PI OPC, PI UFL, PI RDBMS
- Clients Professional (25), PI ProcessBook & PI DataLink (30), PI DataLink (20)
- PI ICE 5 Licenses (now evolved into PI WebParts)
- Engineering Software Installation, Laboratory Applications, Quality Certificate Report, and Paper Machine 3 Process Visualization and Profiles View

PI System in Mondi Świecie – over 9 years of experience

- Operators view of PI System:
 - Laboratory Applications
 - Operators Quality Overview
 - Energy Monitoring
 - Process Control Screens
 - Reports
 - Quality Certificates
 - Profiles Views
 - Operators LogBooks
 - SMS notifications received on mobile

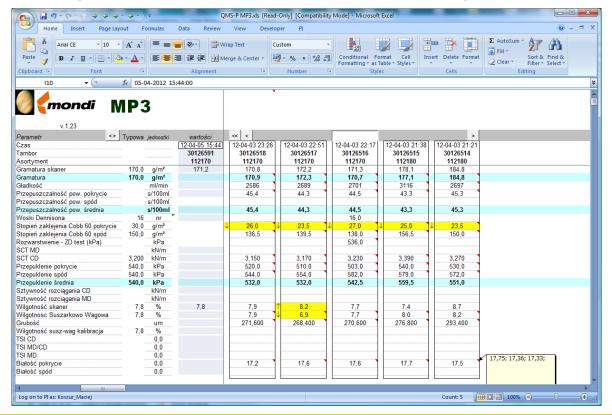
- OSIsoft Packages:
 - PI ProcessBook and PI DataLink
 - PI WebParts
 - PI Notifications
 - PI MCN Health Monitor
 - PI Control Monitor (not supported)
 - PI ACE (Advanced Computing Engine)
 - PI Profile View
 - PI Module Database
- Over 40.000 tags in use



PI Module Database for Storing Quality Data

- PI Module Database is used to hold all paper quality parameters for both dryend and wetend area.
- total 10 different grades of paper
- average 10 grammage per grade
- between 60 to 100 different quality parameters per grade per grammage
- about 10 different values like lolo, lo, hi, hihi, typical, speed, capacity, etc.
- it gives over 80 thousand values that need to be entered into the system

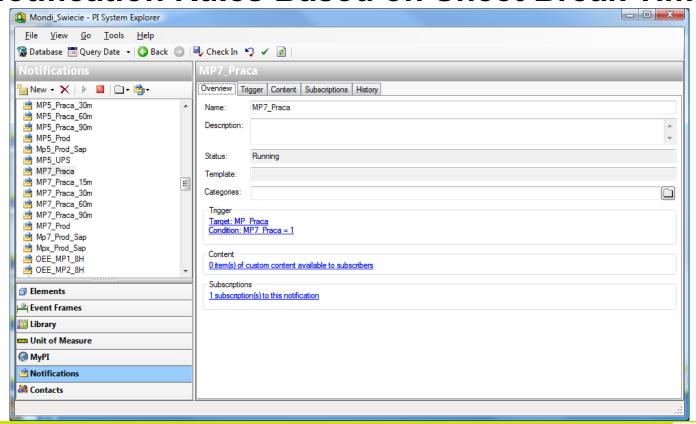
Paper Analysis Available Immediately after Lab Check



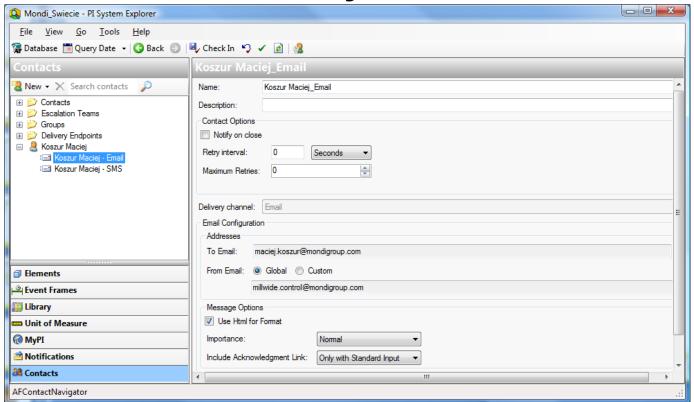
Sheet Break Classification



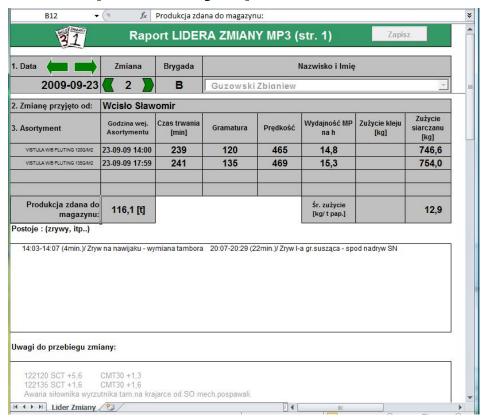
PI Notification Rules Based on Sheet Break Time



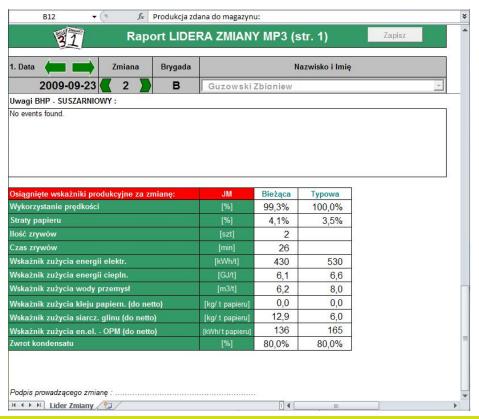
PI Notifications Delivery Channels



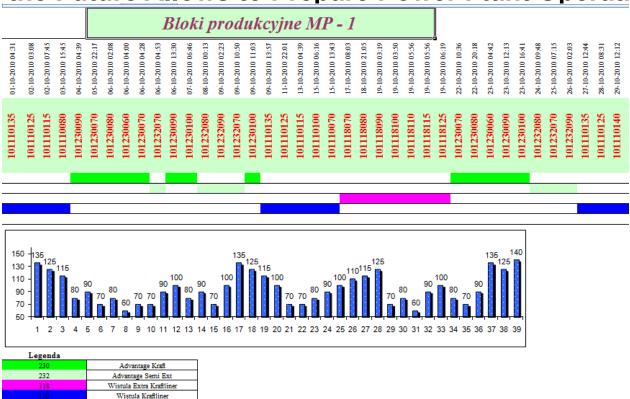
Paper Log Books Replaced by Spreadsheets Linked to PI System



Shop Floor Operators Performance Available While on Job



View to the Future Allows to Prepare Power Plant Operations

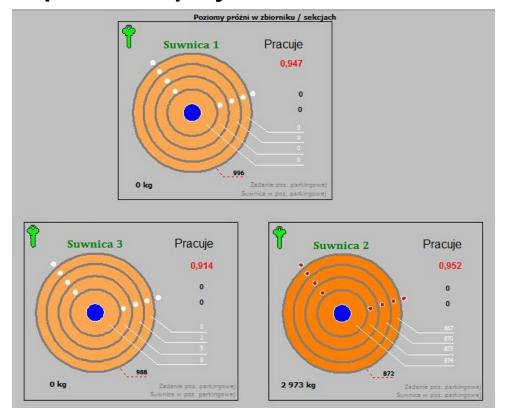


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Extensible Sack Papier



Monitoring start-ups of new projects



Monitoring start-ups of new projects



And so, my fellow PI System Users: ask not what PI System can do for you - ask what you can do for your PI System.

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THANK



