



E66: SOA with z/VSE, z/VM and Linux on System z

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Agenda

- Alcad and Impol
- SOA

About Alcad ...



- IS engineering & Data Processing Company since 1995
- Location: Slovenska Bistrica, Slovenia
- Outsourced IT service provider for Impol
- IBM Premier Business Partner
 - System z (z/VSE, Linux on System z, z/VM)
 - Development tools (WebSphere, VisualAge, Rational, EGL)
 - Information Management Software (DB2, OLAP, Warehouse)
- Project oriented team
- Reference customer for IBM (Linux on System z, SOA)
- 26 highly skilled employees
- Using only IBM software and hardware
- ISO 9001:2000 (BVQi since 2004)



- One of Europe's leading aluminium manufacturers
- Producing a wide variety of specialized alloys, which are in turn used by manufacturers in the auto, aerospace and industrial sectors
- Producing more than 150.000 tons of rods, bars, tubes, foils, rolled products, extrusions and ingots per annum
- Have more than 400 customers in 25 countries around the World
- 900 + 900 employees

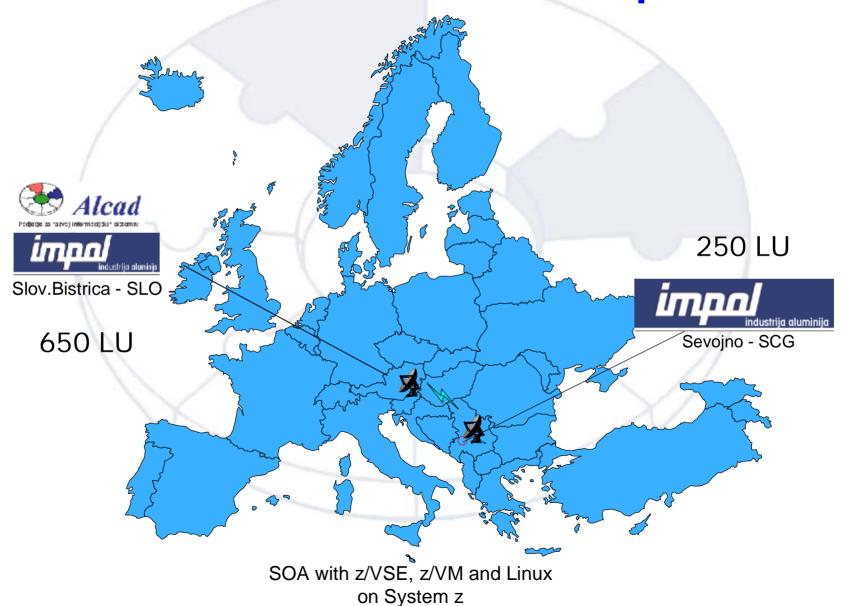


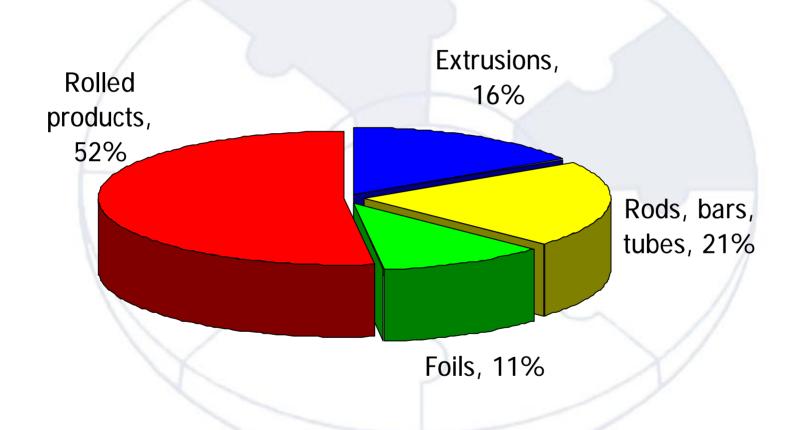


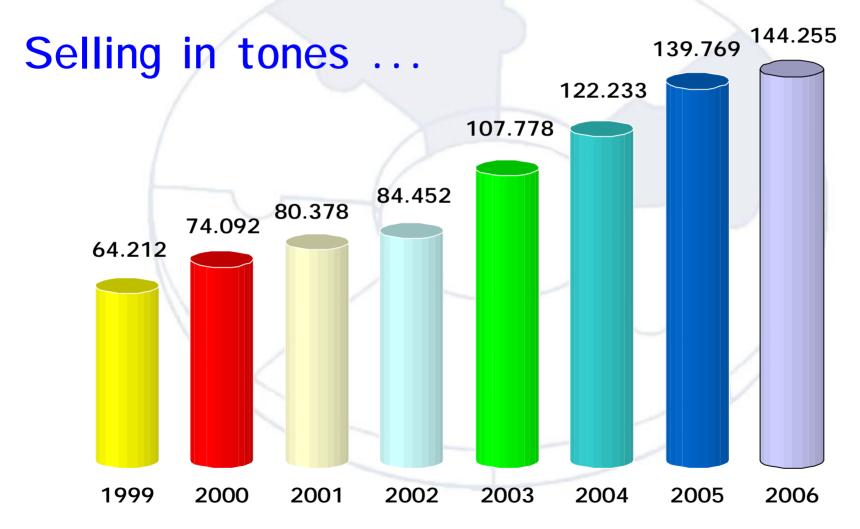


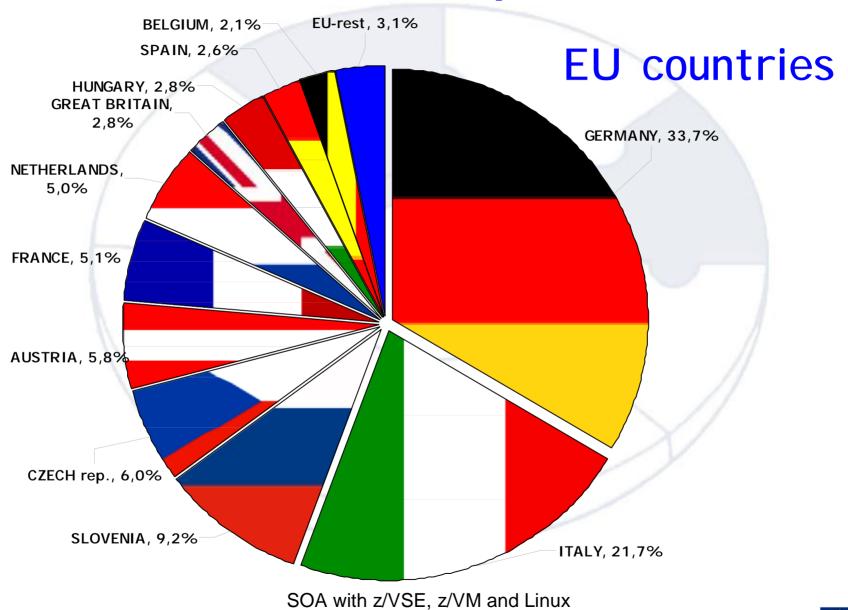


About Alcad and Impol ...









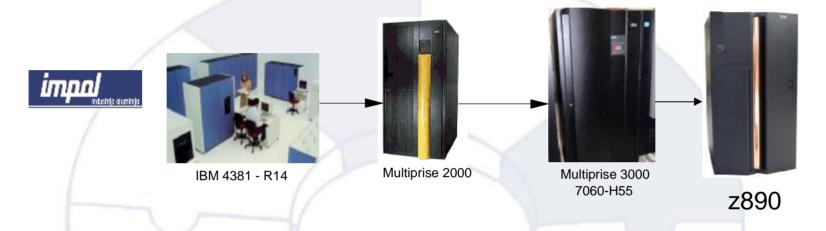
on System z



History of Alcad and Impol

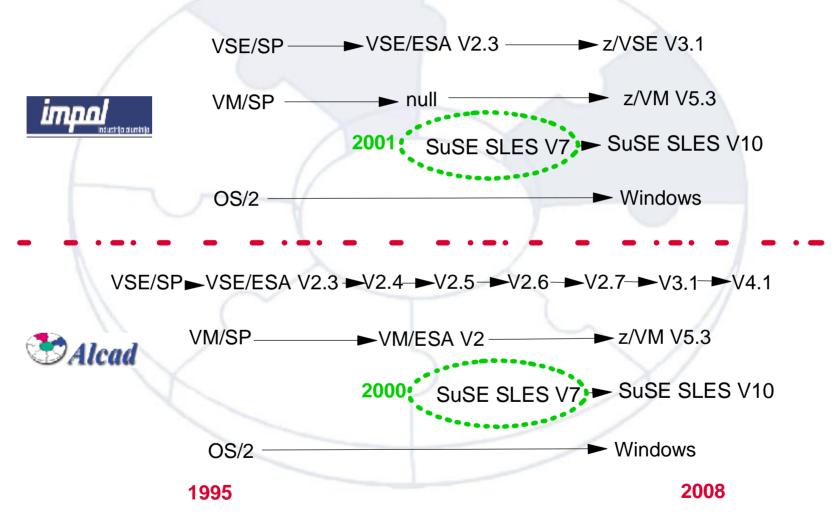
	1995	2008
Employee	10	26
Mainframe	4381 - R14	z9 BC, z/890-150
Operating System	VSE/SP, VM/SP, OS/2	z/VSE V3.1 (z/VSE V4.1), z/VM V5.3, SuSE SLES V10, Windows
Application Server	CI CS/VSE	CICS/TS V1.1, WebSphere Application Server (WAS) V6, WebSphere Process Server V6 WebSphere Portal Server V6
Database	SQL/DS, VSAM,DL/1, DB2/2	DB2 UDB ESE V8.2, DB2 OLAP Server V8.2, DB2 OLAP Server Analyzer V8.1
Application Development Tools	CSP, PL/1 VisualAge SmallTalk	VisualAge Generator V4.5, Rational Application Developer for WebSphere Software (RAD) V7, WID, WS B.Modeler, VisualAge Generator EGL Plug-in for VSE V1.0

System z Environment

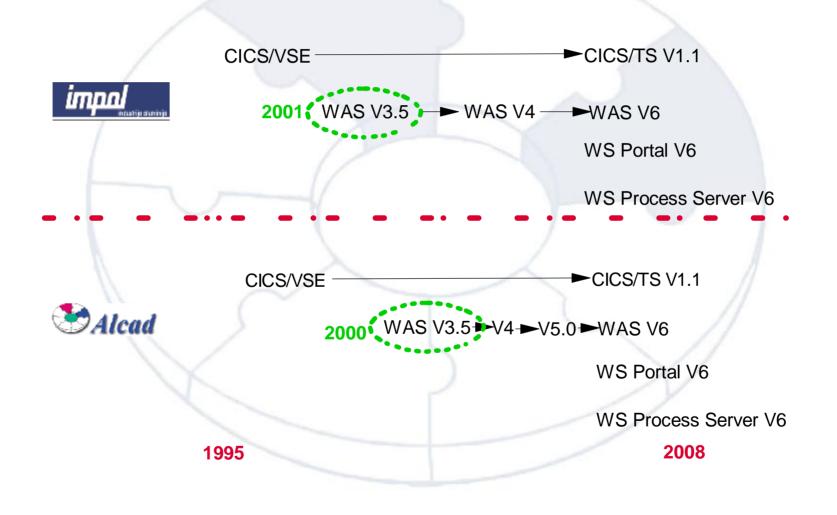




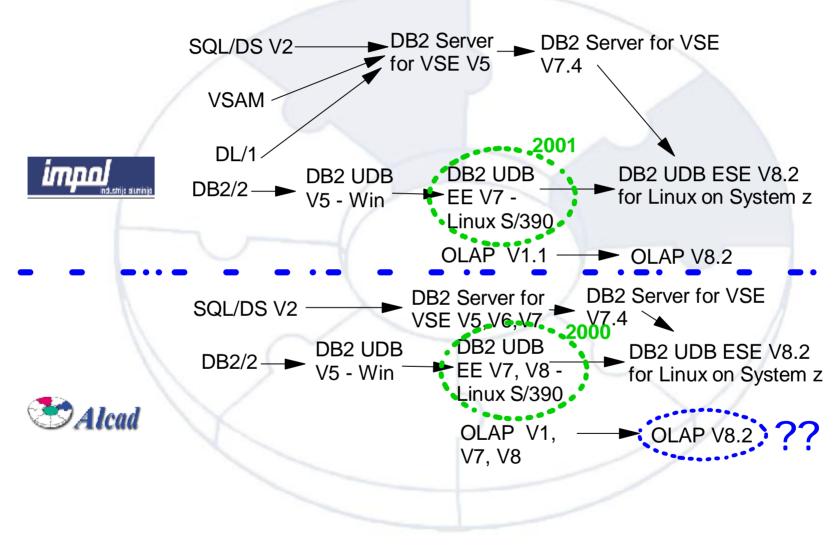
Operating system



Applications servers



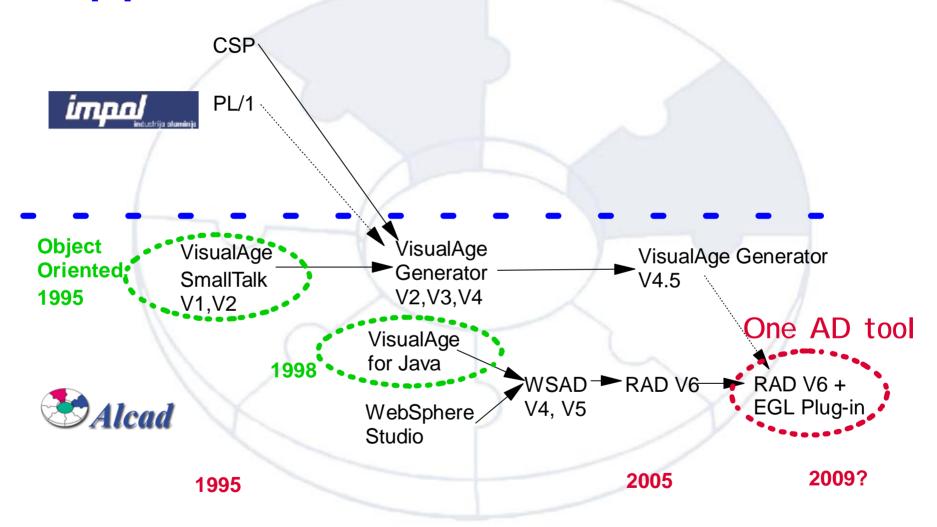
Database Environment



1995

2008

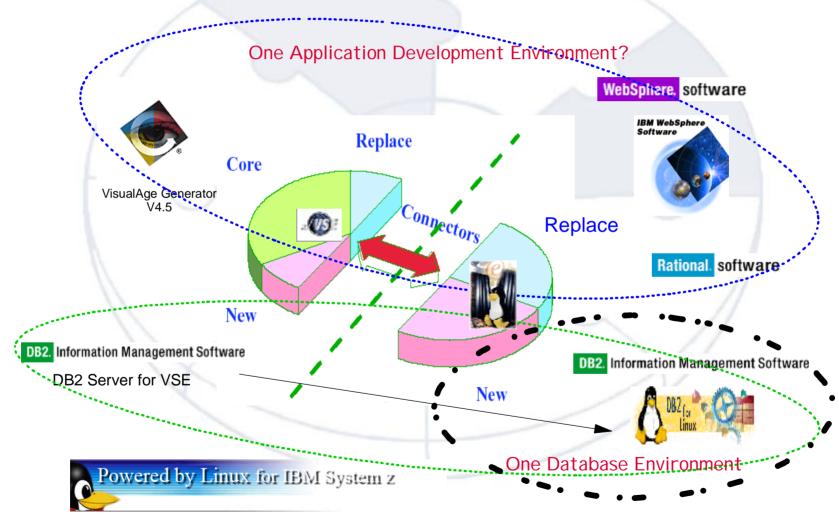
Application Dev. Environment



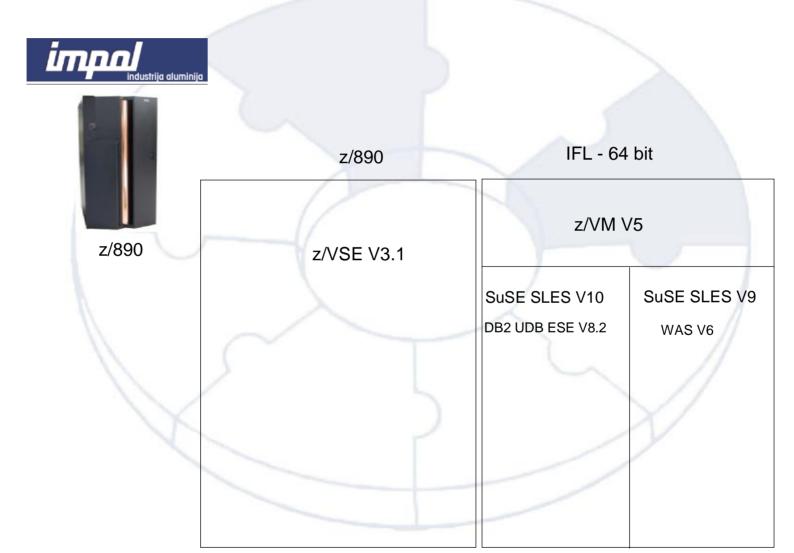
IT Environment

Before 1995 **After 1995** Replace Core Replace Replace Core New New z/VSE New **New environment?** Only S/390 solutions

IT Environment



Production Environment



Development Environment





z9 BC + IFL 2096 - R07 z9 BC IFL - 64 bit

z/VSE V3.1

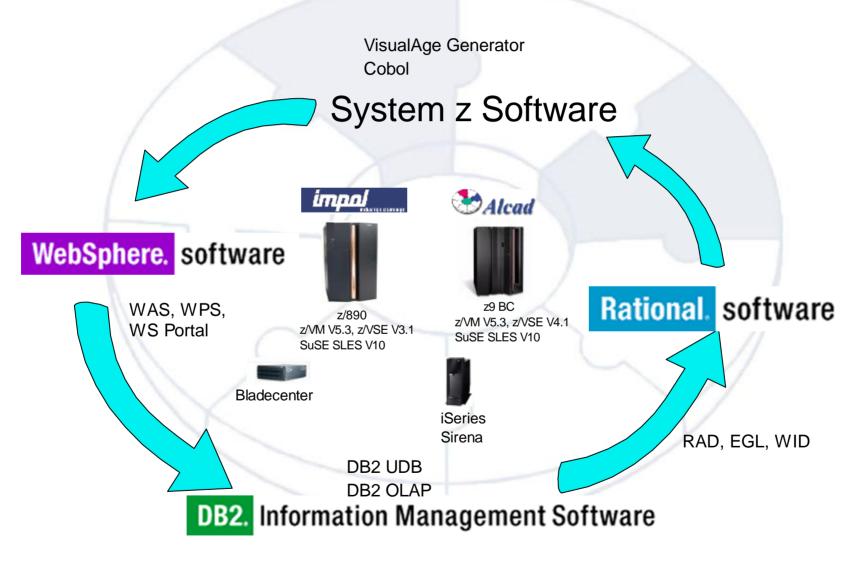
z/VSE V4.1

z/VM V5.3

SuSE SLES V10 DB2 UDB ESE V8.2 SuSE SLES V10

WAS V6

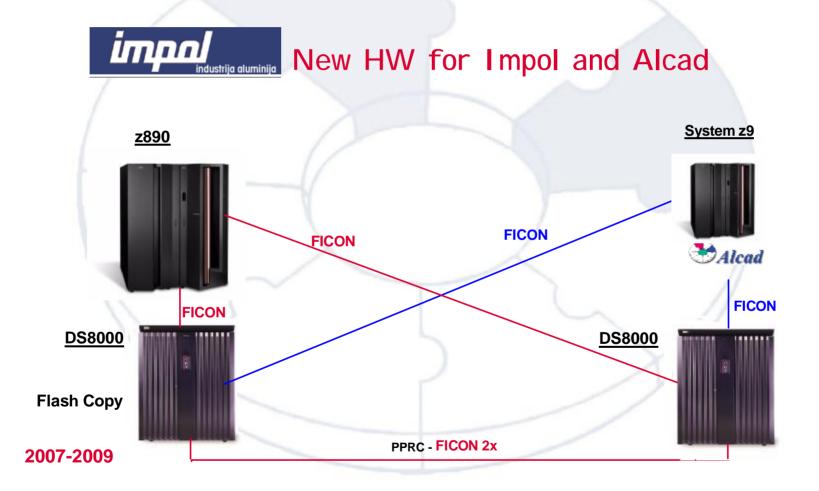
IT environment



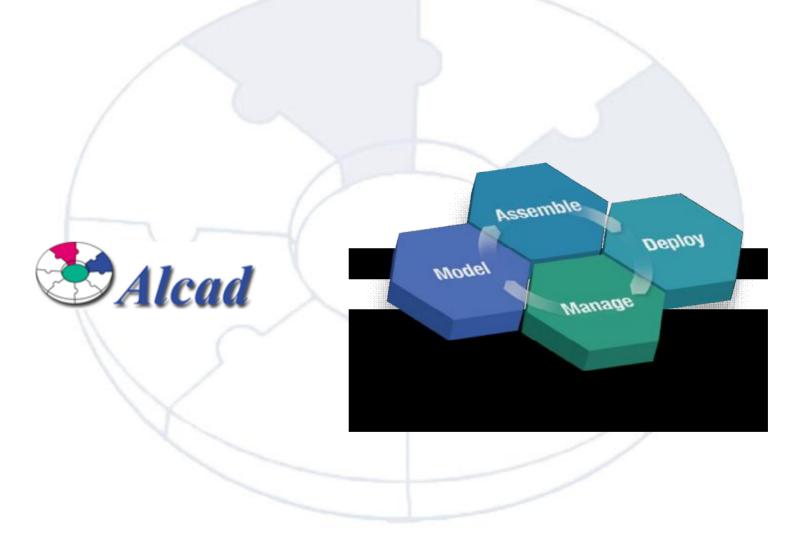
Alcad solutions

- Operational business information system in I mpol
- IBM HW and SW
- Core CICS applications (VAG, EGL)
- Intranet applications (SmallTalk, Java)
- e-business (web and portlet applications, WS Portal)
- SOA
- DB2 and OLAP
- Development and sale products (System z, Development Tools and Information Management Software)
- Presentations (IBM events, conferences, customers, ...)
- Services (pilot projects, educations, solutions, testing, ...)
- Cooperations with IBM

Alcad plans



SOA and Alcad



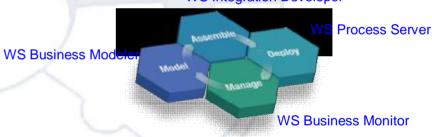
Important dates for SOA in Alcad

- June 2005 IBM Executive SOA Summit
 - Business View is important for SOA
 - bridge between Business World and IT
- April 2006 SLO IBM Forum 2006
 - Business View (process Modeling and Monitoring)
 - IT View (integration of Services, Processing)
- · May 2006 IBM Top Gun
 - Alcad won the Top Gun
 - idea of SOA project in I mpol













Important dates for SOA in Alcad



Alcad

- June September 2006
 - defined Alcad SOA team
 - education (IBM, Alcad)
- October 2006
 - pilot project "SOA" (Impol, IBM, Alcad)

I mpol

- September 2006
 - SOA presentation to customer (Alcad, I BM)
 - start preparing 1st "SOA" project (Impol, Alcad)
 - start of the selling process for SOA tools and services (I BM, Alcad)
- December 2006
 - project confirmation by I mpol (100K SW + 200K services Alcad)

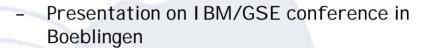
Important dates for SOA in Alcad

Alcad, Impol

- January July 2007
 - Project
- April 2007
 - Presentation on IBM forum (SLO)
- August 2007
 - WS Portal integration
- September 2007
 - Presentation on SOA event, castle Jable, SLO



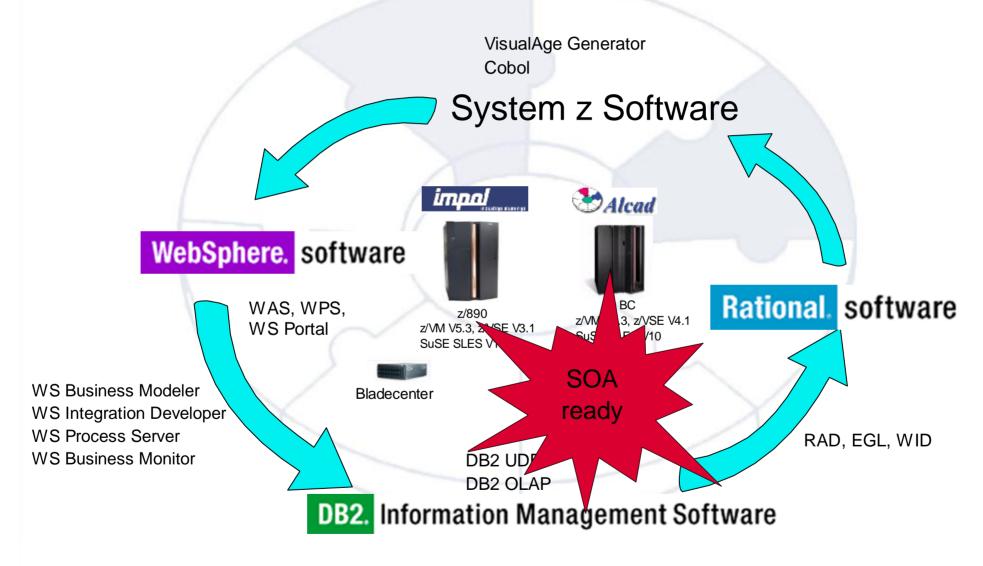
October 2007



- December 2007
 - Video
 - Migration of SOA SW products from V60 to V61
- January 2008
 - Contract with Reuters
- February 2008
 - Renovation of the process
- April 2008
 - Presentation on IBM forum (SLO)



Conditions for SOA?



How we presented SOA to Impol:

- We did not:
 - speak about new and necessary AD tools
- We focused on:
 - joining of Business and IT goals in order to increase the turnover (and increase the profit) and control the costs (added value)
 - process, data and people integration generate added value
 - flexibility of process
 - process automatization
 - ROI = 7 months

Why we used SOA in project "Protection of Sale's Margin "

- we recognized a request for integration of business process, people and data inside and outside the company
- it is a process, in which the added value depend on quick, inovative and right solutions
- dynamic market place and business on demand are present
- it is necessary to adapt quickly to circumstances and to prepare for future business opportunity
- it is required for automation of business process, which was not defined totally - create new business model
- we need to decide in real time, depending on business KPI

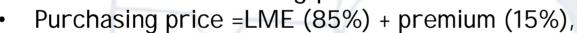
Protection of Sale's Margin

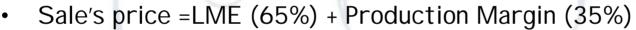
Product price = Material price + Profit

Aluminium is a part of London Metal Exchange – LME,

+ 350 \$

Sale's and Purchasing price based on LME price in I mpol,







Example:

SOA with z/VSE, z/VM and Linux on System z

- 350 \$



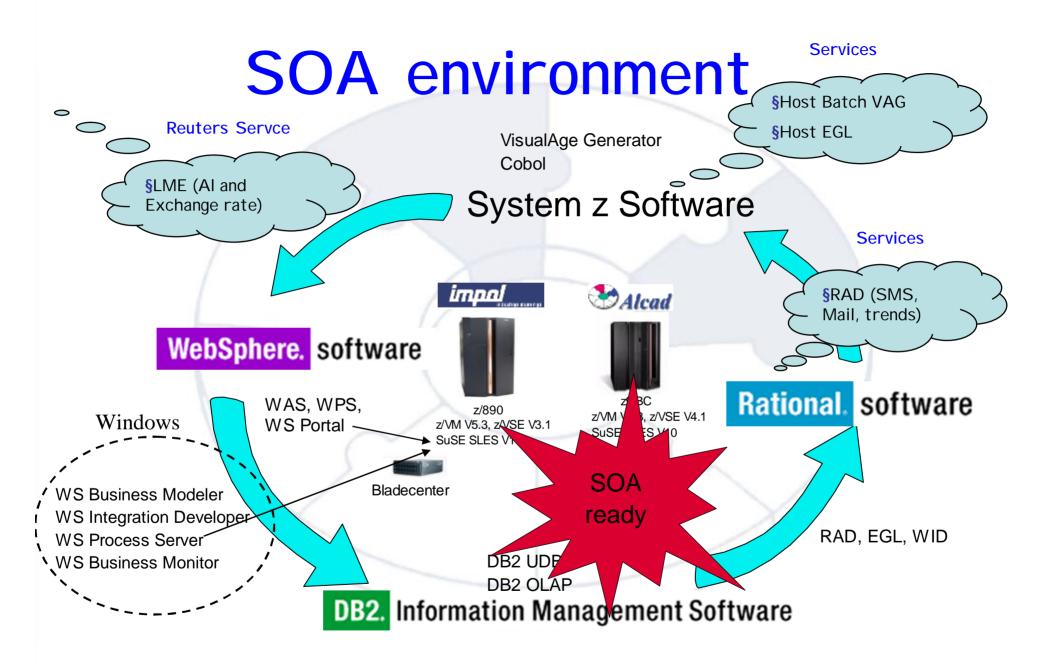
Protection of Sale's Margin

Solutions:

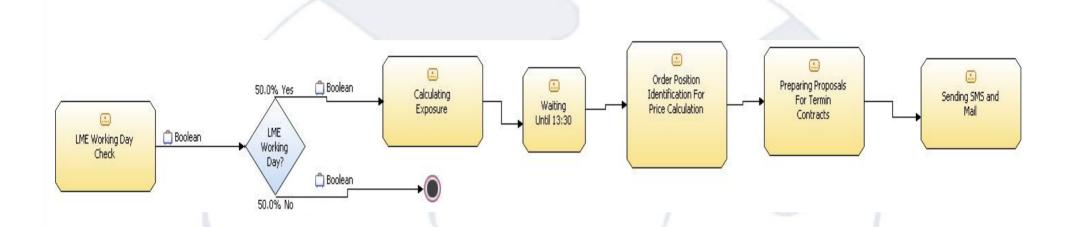
- the system recognizes daily incoming orders
- the system eliminates "back-to-back" business
- the system prepares proposals for future contracts
- the surplus of orders can be protected by LME
- the daily sum of physical orders and future contracts (purchase and sale orders) is zero (0)

Protection of Sale's Margin

- innovation for this area of industry in Slovenia
- changed the process on orders input
- integration of existing solutions in different environments (services – Host, Mail, SMS)
- integration of new solutions (Trends, Exchange Rate)
- integration of external services (Reuters)
- integration of strategical contracts and quota reservation
- reserve AL on futures market
- little Human Task

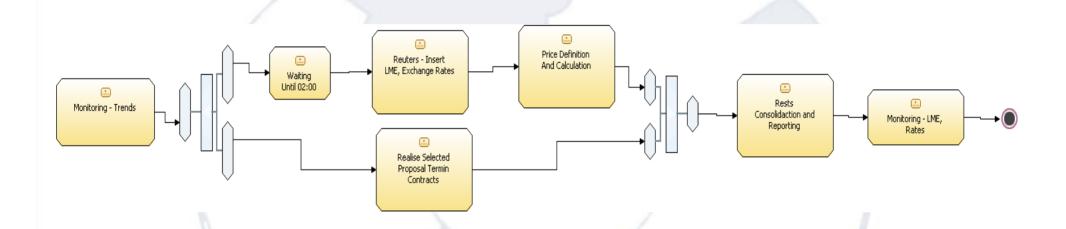


Process RM in Impol



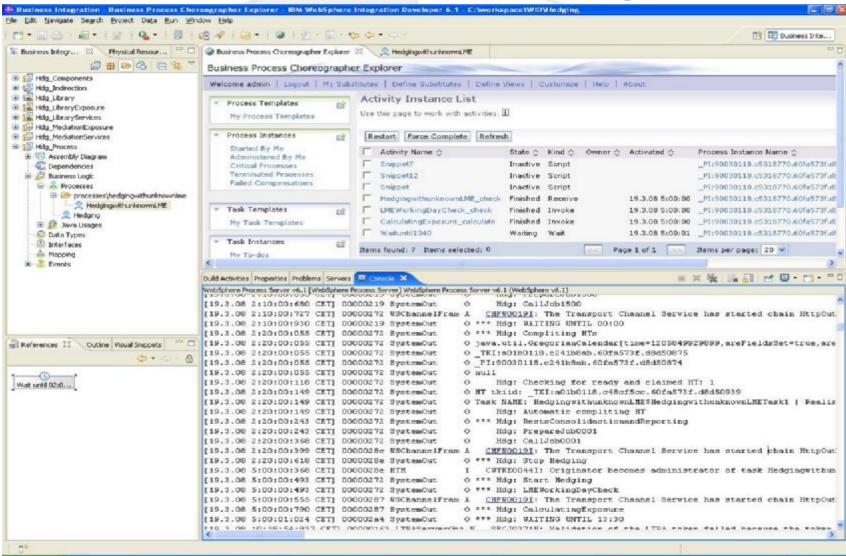
- 00:00 24:00: Inserts new orders and Futures (OP1)
- 05:00: System checks LME working day and calculating Exposure
- 13:30: Position order identification for price calculation and preparing proposals for future contracts
- Automatic SMS and mail to responsible person with proposals for future contracts
- Reporting

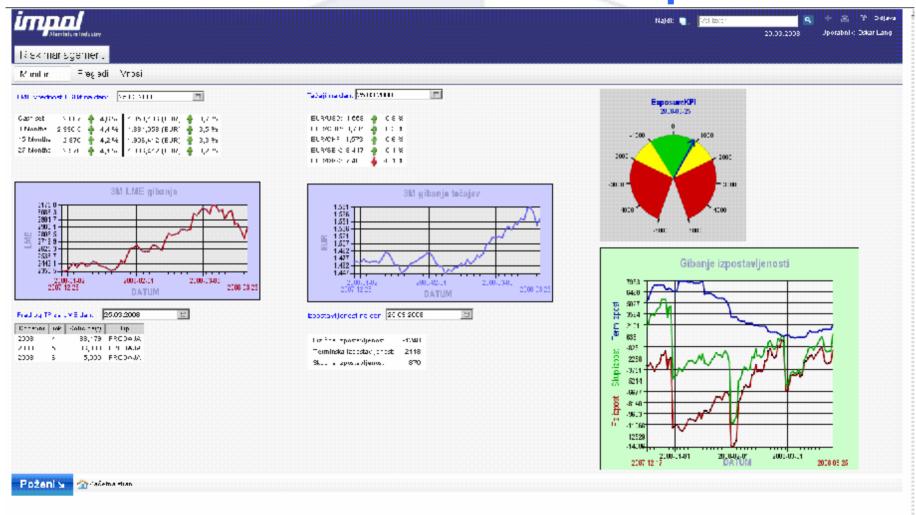
Process RM in Impol

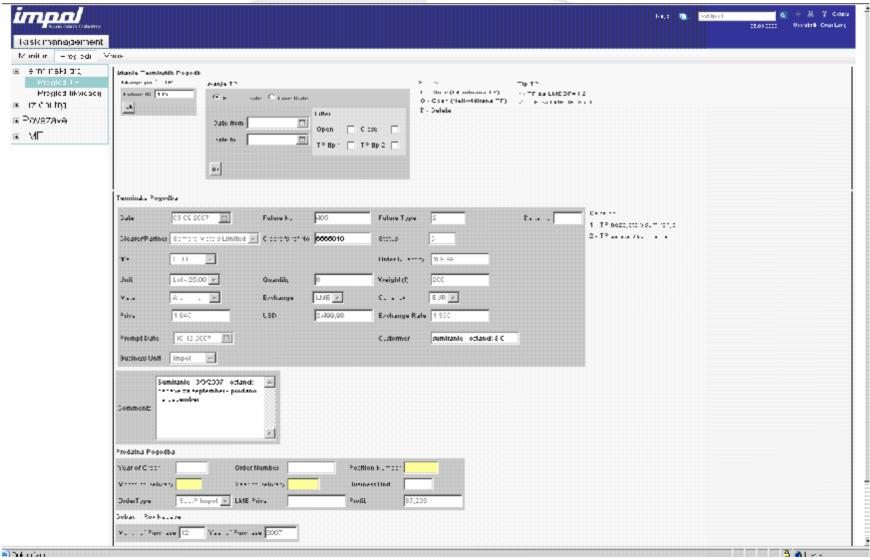


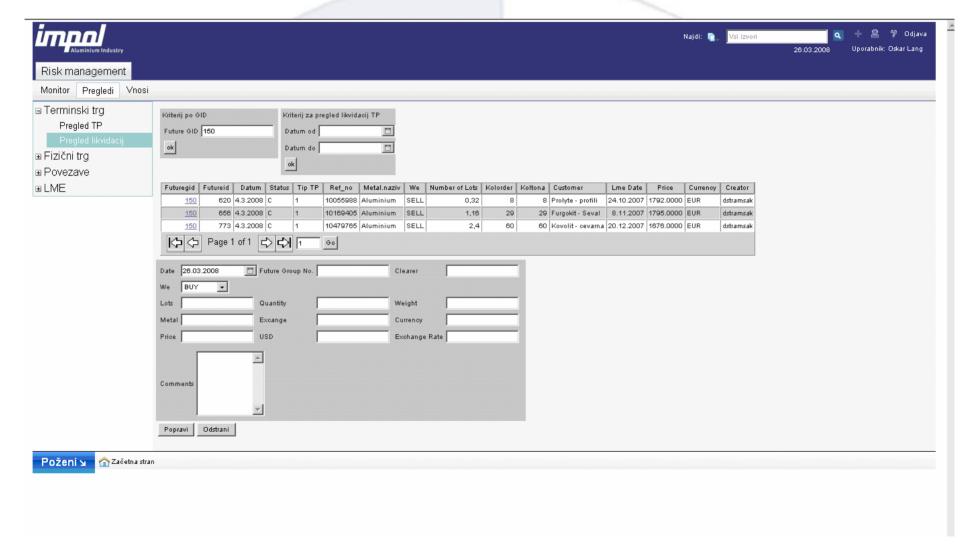
- 02:00: Integration Reuters servis (LME, Exchange rate)
- Price definition and calculation (depend on LME and Exchange rate), rests calculation
- Reporting
- 13:40 24:00: Futures OP2 (HT)

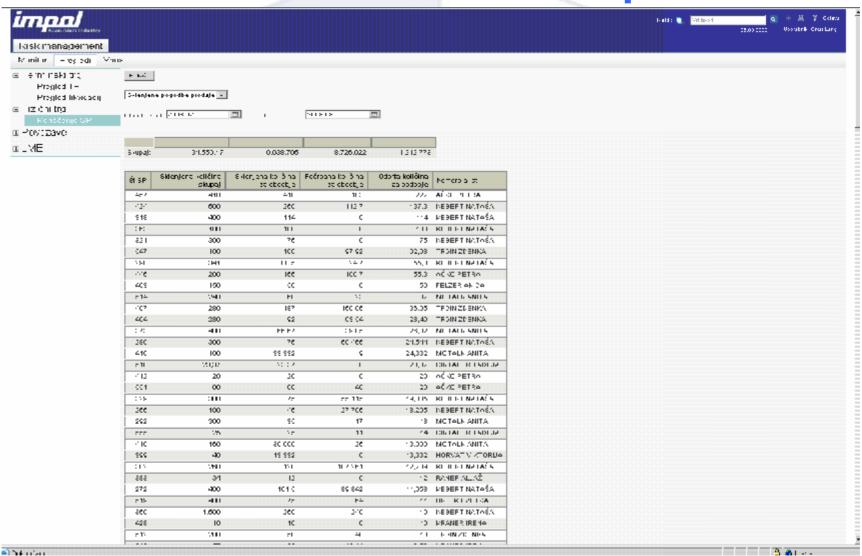
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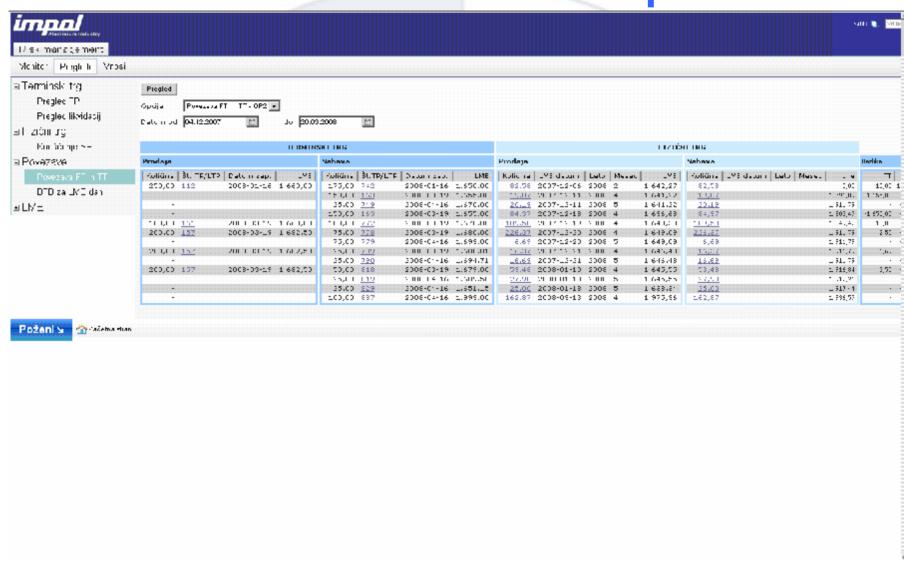


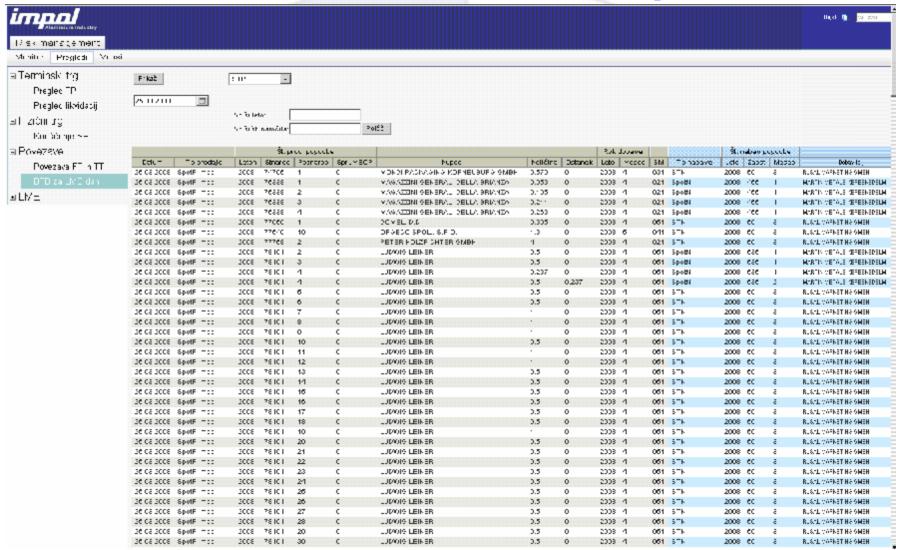


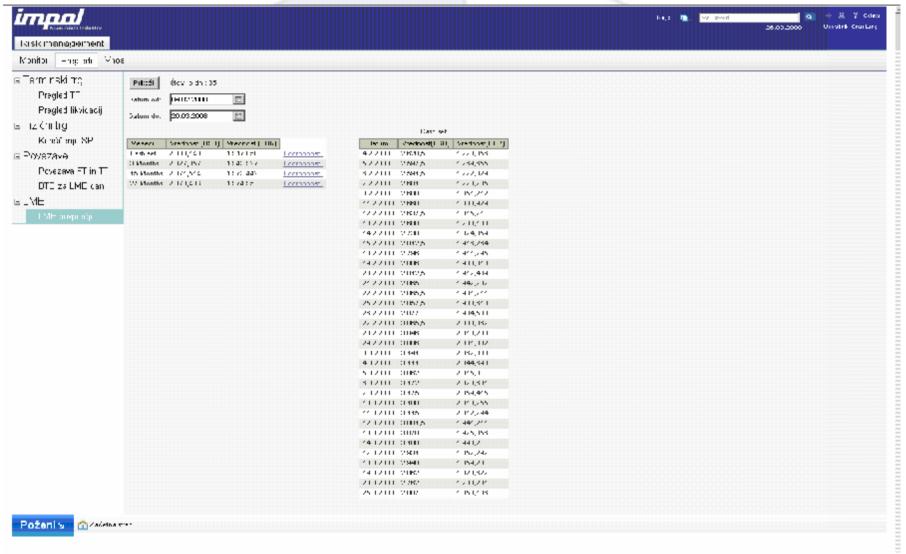


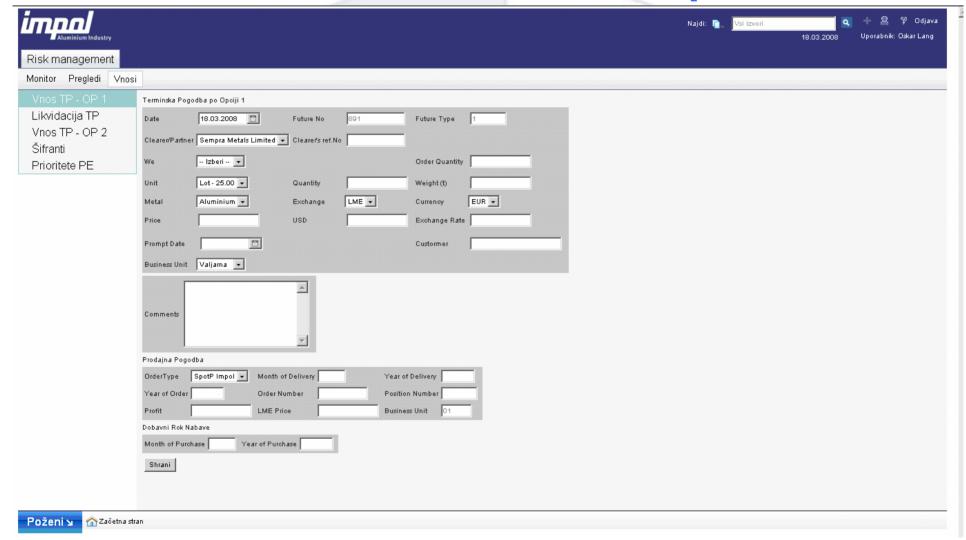


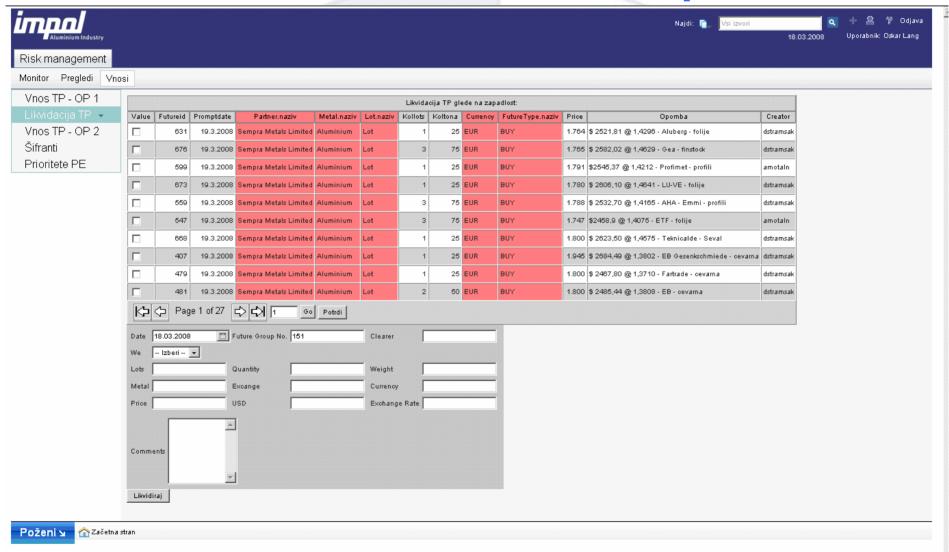


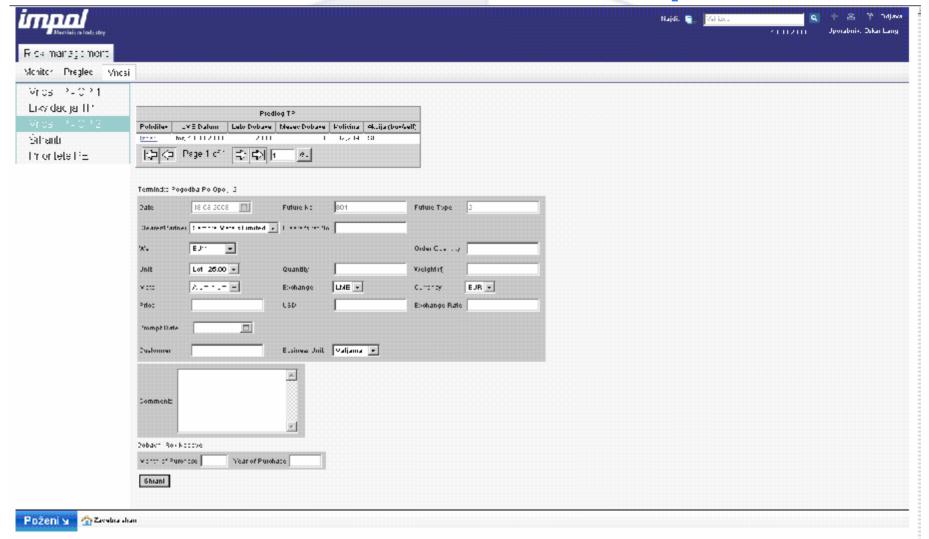


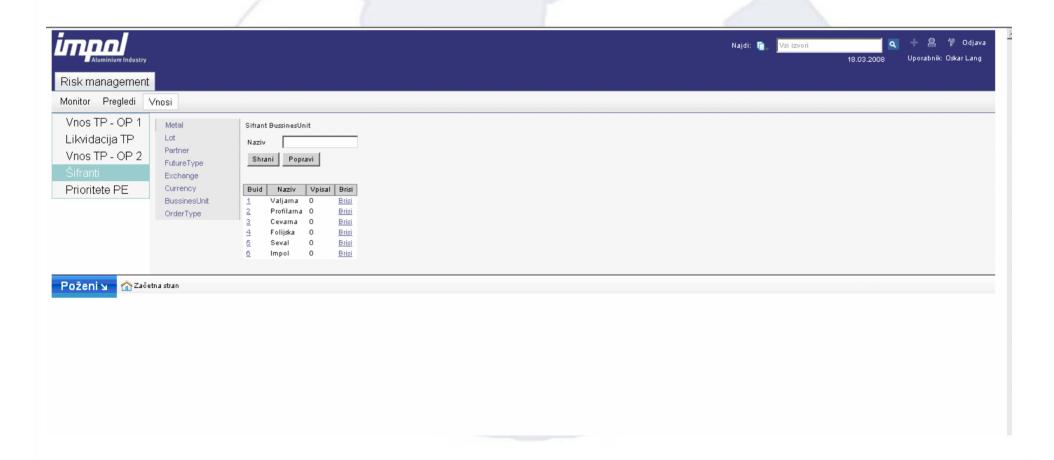












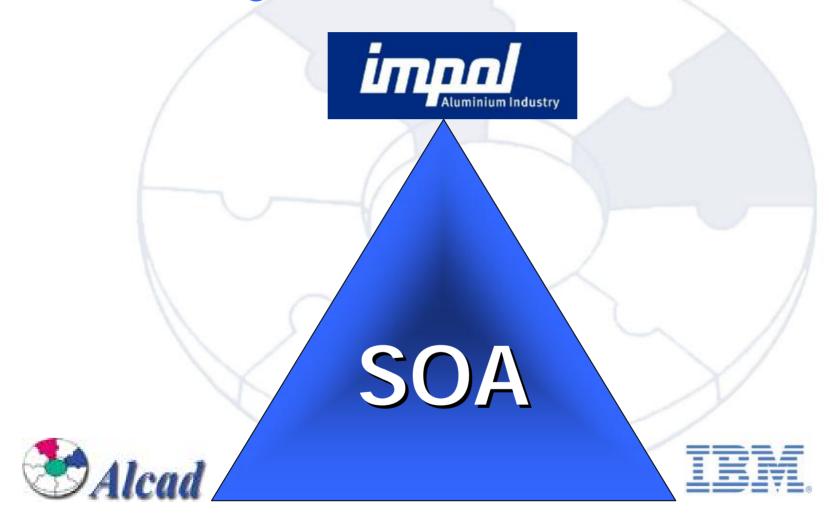
Advantages and benefits of RM model for Impol

- contract production margin does not depend on price oscillation on LME
- customers have flexibility to select different LME types
- business will be more stable
- LME risk is known, measures are known and possible
- all price speculations on LME are under control

Investments - ROI

- total reengineering of Market process
- new knowledge introduction
- total change in organization, in mentality and method of work
- project duration: January 1, 2007 June 30, 2007
- ROI
 - 50% in the second month of production

Project RM and SOA



SOA with z/VSE, z/VM and Linux on System z

z/VSE on our video



Thank you!



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