

E20 Customer Experience

WebSphere and DB2 on Linux on zSeries connected with VSE

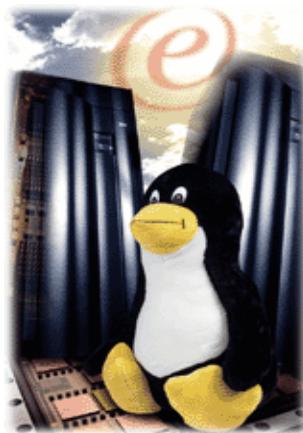
oskar.lang@alcad.si

zSeries Expo

Nov. 1 - 5, 2004

Miami, FL





This presentation based on true story ...



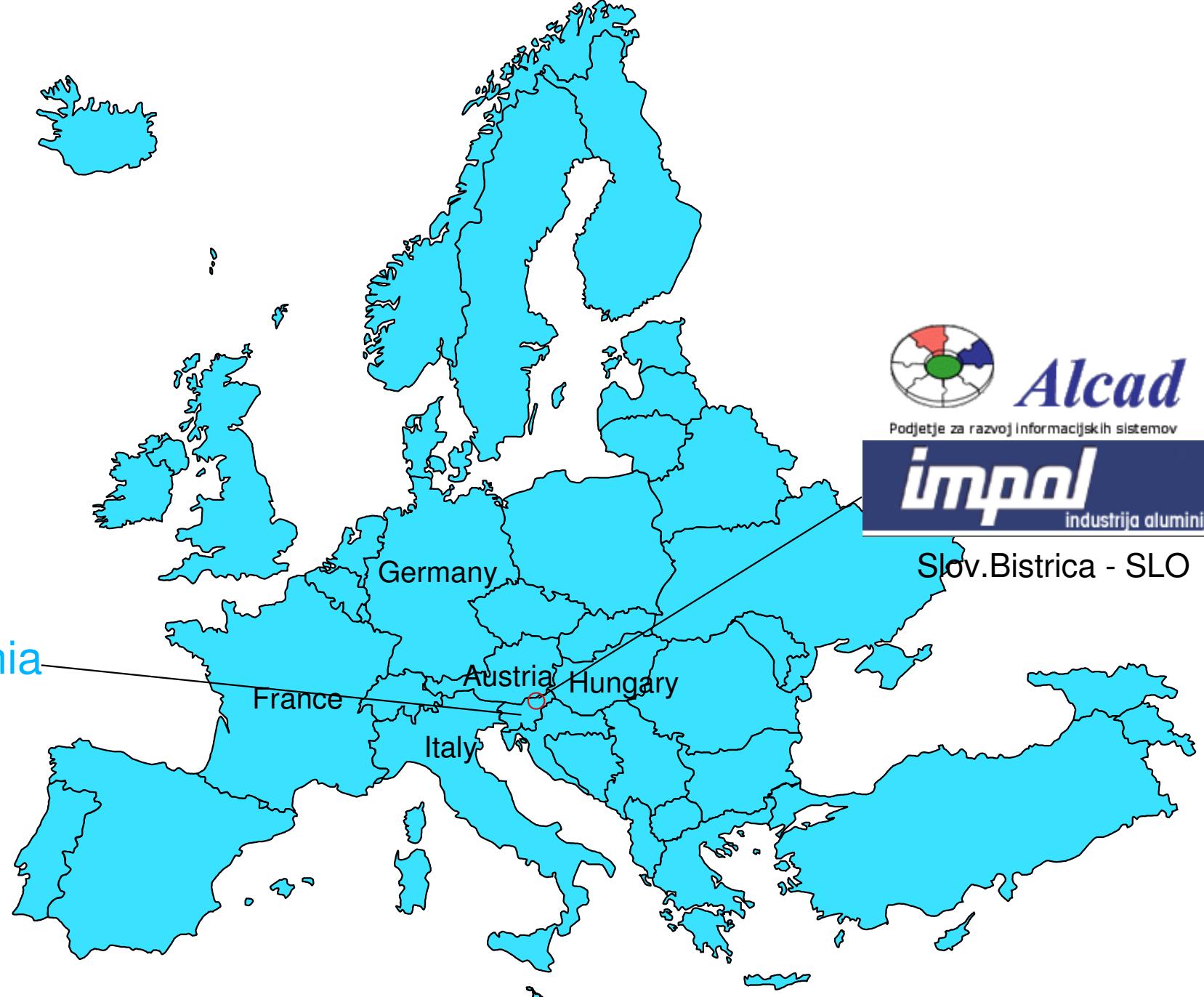
Agenda

- Where we are?
- Who we are?
- History of Alcad
- Environment
- Applications, Design and Solutions
- Future

Agenda

- **Where we are?**
- Who we are?
- History of Alcad
- Environment
- Applications, Design and Solutions
- Future

Slovenia



IBM Success Story for Slovenia

2.000.000 citizens in Slovenia

25 S/390 or zSeries Customers 80 K citizens/zSeries

USA (278M cit.)

3.475 zSeries Customers

GER (82M cit.)

1.025 zSeries Customers

FRA (59M cit.)

737 zSeries Customers

Agenda

- Where we are?
- **Who we are?**
- History of Alcad
- Environment
- Applications, Design and Solutions
- Future

About Alcad ...

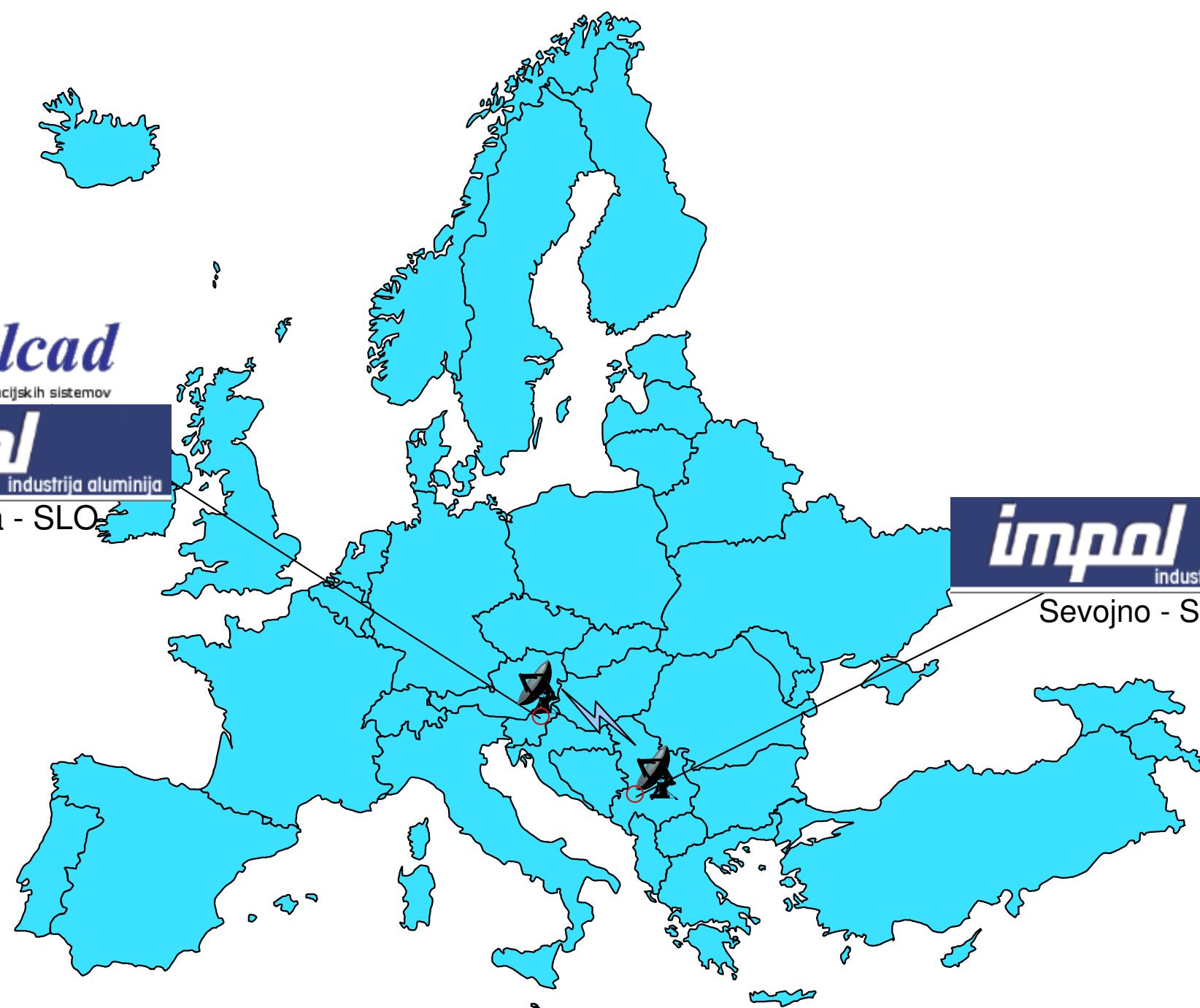
- IS engineering & data processing Company
- Outsourced IT service provider for Impol
- IBM Business Partner
 - ▶ S/390 or zSeries (VSE/ESA, Linux on zSeries and z/VM)
 - ▶ Development tools (WebSphere, VisualAge, Rational)
 - ▶ Information Management Software (DB2, OLAP, Warehouse)
- Project oriented team
- Reference customer for IBM (Linux on zSeries)
- Employing of 19 highly skilled workers
- Using only IBM Software and Hardware

About Impol ...



- One of Europe's leading aluminium manufacturers
- Producing a wide variety of specialised alloys, which are in turn used by manufacturers in the auto, aerospace and industrial sectors
- Producing more than 80,000 tons of rods, bars, tubes, foils and ingots
- Have more than 400 customers in 25 countries around the World
- Employing of 900 + 900 workers





Agenda

- Where we are?
- Who we are?
- **History of Alcad**
- Environment
- Applications, Design and Solutions
- Future

History of Alcad

	1995	2004
Employee	10	19
S/390	4381 - R14	Multiprise 3000-H30, Multiprise 3000-H55
Operating System	VSE/SP, VM/SP, OS/2	VSE/ESA V2.7, z/VM V4.2, SuSE SLES V8, Windows
Application Server	CICS/VSE	CICS/TS V1.1, WebSphere Application Server (WAS) V5.1 WebSphere Portal Server V5
Database	SQL/DS, VSAM,DL/1, DB2/2	DB2 Server for VSE V7.3, DB2 UDB ESE V8.2, Rational Rose XDE Developer Plus, DB2 OLAP Server V8.1, DB2 OLAP Server Analyzer V8.1
Application Development Tools	CSP, PL/1 VisualAge SmallTalk	VisualAge Generator V4.5, WebSphere Studio Application Developer (WSAD) V5.1

S/390:



IBM 4381 - R14



Multiprise 2000

Multiprise 3000
7060-H55



IBM PC Server
System/390

1995



Multiprise 3000
7060-H30

2004

Operating System:

VSE/SP → VSE/ESA V2.3 → VSE/ESA V2.6



VM/SP → null → z/VM V4.2

2001
SuSE SLES V7 → SuSE SLES V8

OS/2 → Windows

.....
VSE/SP → VSE/ESA V2.3 → V2.4 → V2.5 → V2.6 → V2.7



VM/SP → VM/ESA V2 → z/VM V4.2

2000
SuSE SLES V7 → SuSE SLES V8

OS/2 → Windows

1995

2004

Application Server:

CICS/VSE → CICS/TS V1.1



2001 WAS V3.5 → WAS V4 → WAS V5.1

.....

CICS/VSE → CICS/TS V1.1



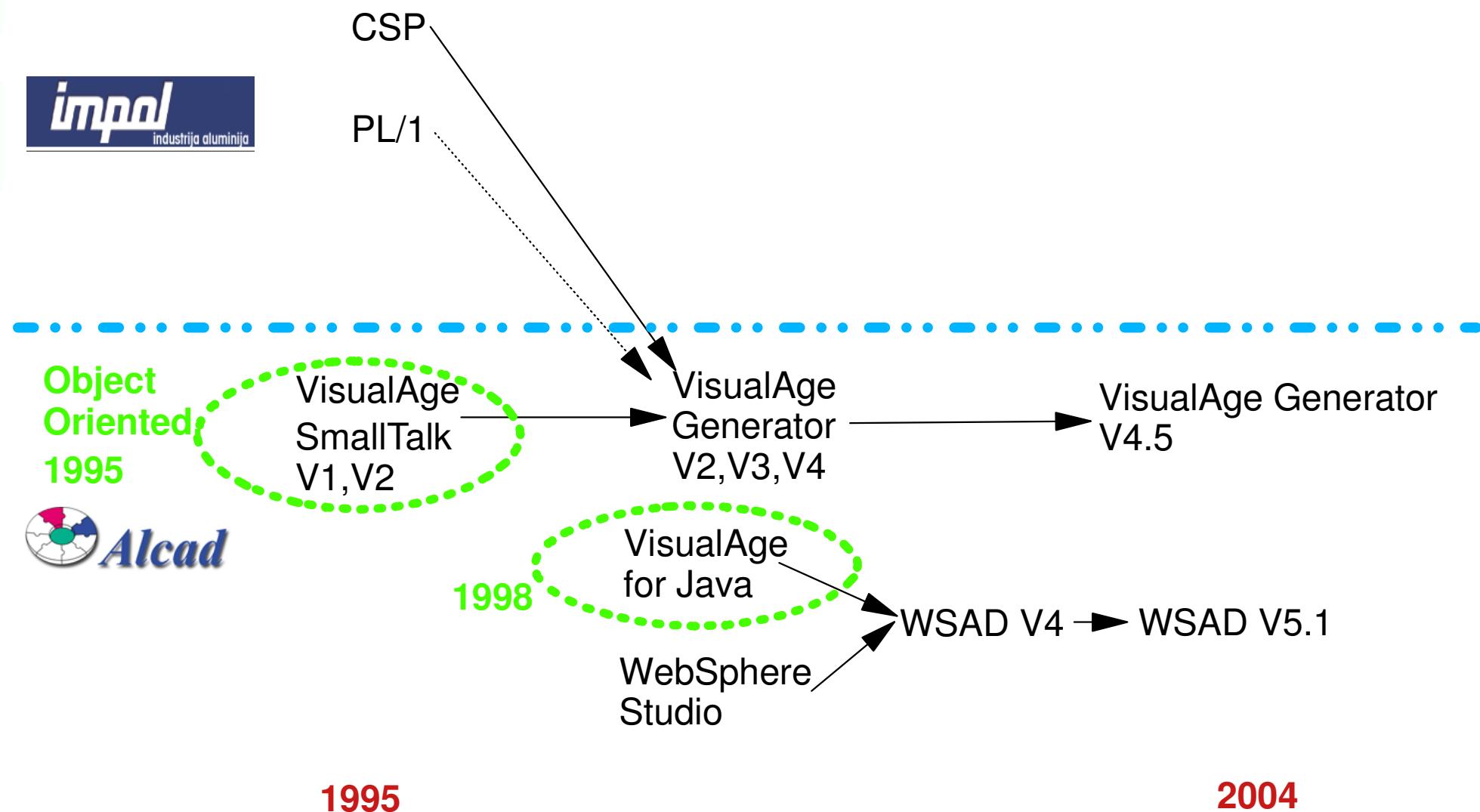
2000 WAS V3.5 → V4 → V5.0 → WAS V5.1

WS Portal V5

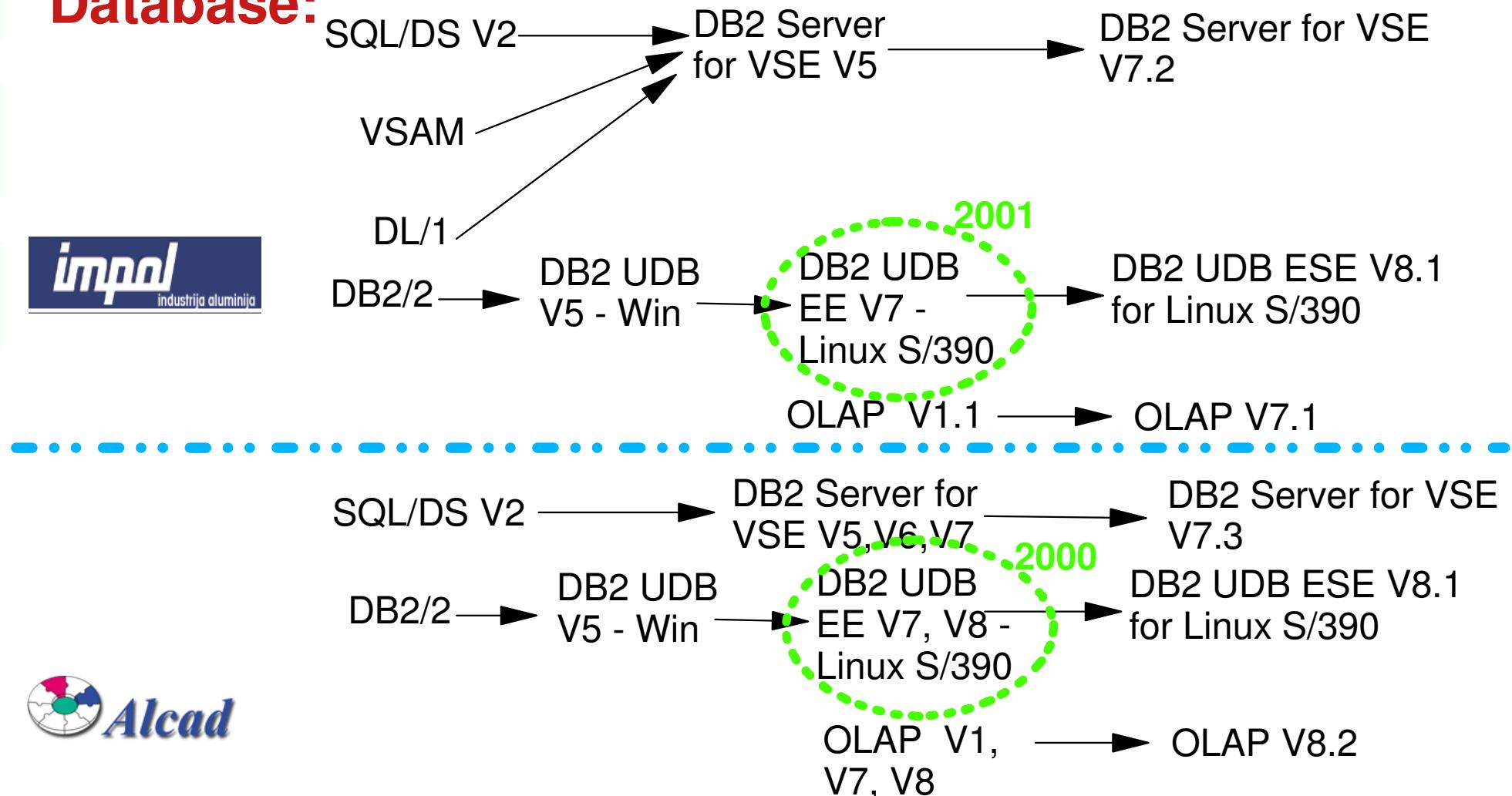
1995

2004

Application Development Tools:



Database:



IBM Rational Rose XDE
Developer plus V2003

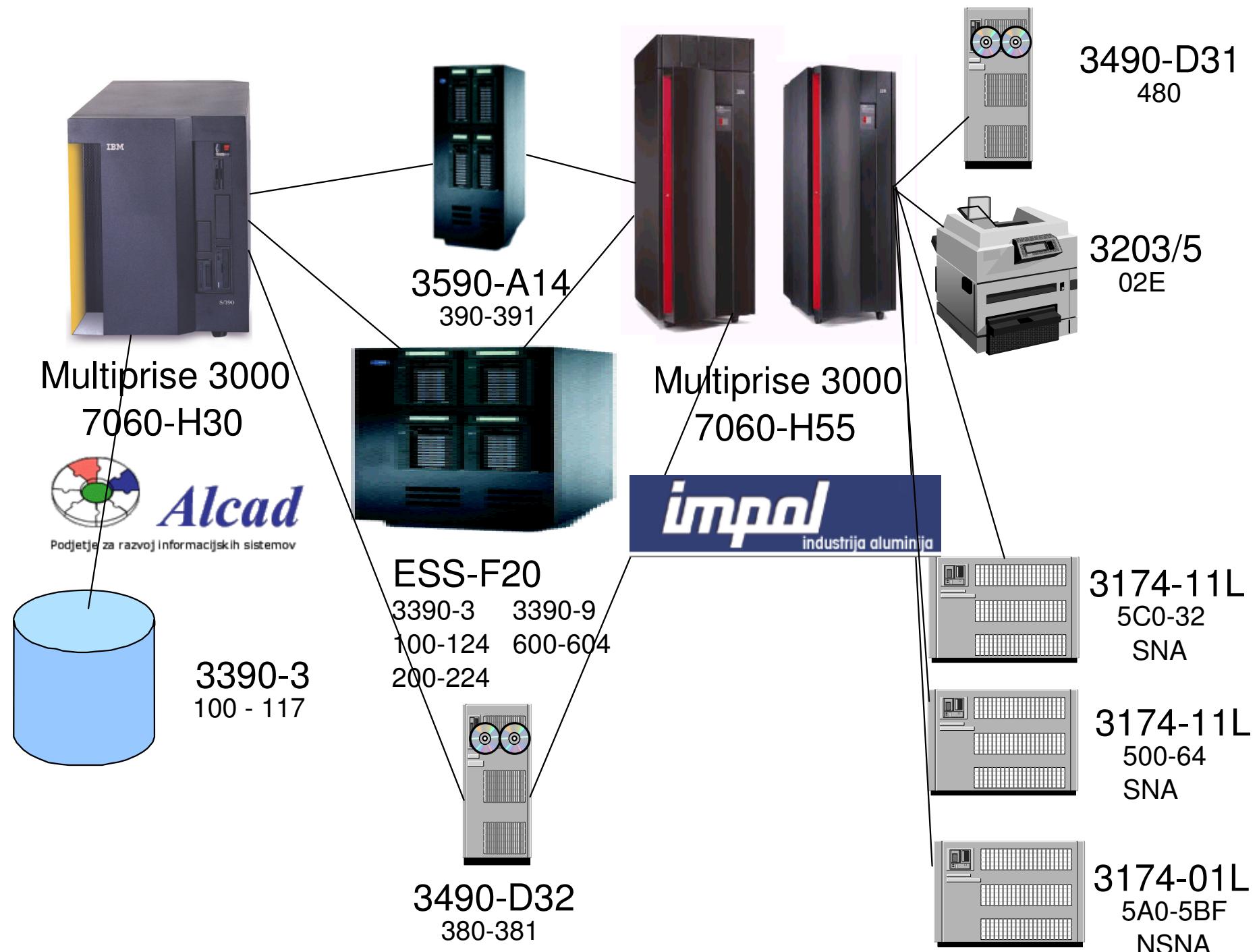
1995

2004



Agenda

- Where we are?
- Who we are?
- History
- **Environment**
- Applications, Design and Solutions
- Future




Alcad

Podjetje za razvoj informacijskih sistemov


Multiprise 3000
 7060-H30

Multiprise 3000
 7060-H55
z/VM V4.2

VSE/ESA V2.7

 TCP/IP V1.5.0
 VAGEN V1.2.0
 ICKDSF 1.17.0
 DB2/VSE V7.3.0
 DB2 DR V7.3.0
 DB2 CC V7.3.0
 ASN/VSE V7.3.0
 DFSORT 3.4.0
 CICS/TS 1.1.1
 VTAM 4.2.0
 OSA/SF 6.7.0
 LE/VSE 1.4.3
 DITTO 1.3.0
 EREP 3.5.0
 VSE CONN. 6.7.0
 HLASM 1.4.0
 COBOL 1.1.0

SuSE SLES V8

 DB2 UDB ESE V8.1
 WAS V5.1
z/VM V4.2

VSE/ESA V2.6

 TCP/IP V1.4.0
 VAGEN V1.2.0
 ICKDSF 1.16.0
 DB2/VSE V7.2.0
 DB2 DR V7.1.0
 DB2 CC V7.1.0
 ASN/VSE V7.1.0
 DFSORT 3.4.0
 CICS/TS 1.1.1
 VTAM 4.2.0
 OSA/SF 6.6.0
 LE/VSE 1.4.2
 DITTO 1.3.0
 EREP 3.5.0
 VSE CONN. 6.6.0
 HLASM 1.4.0

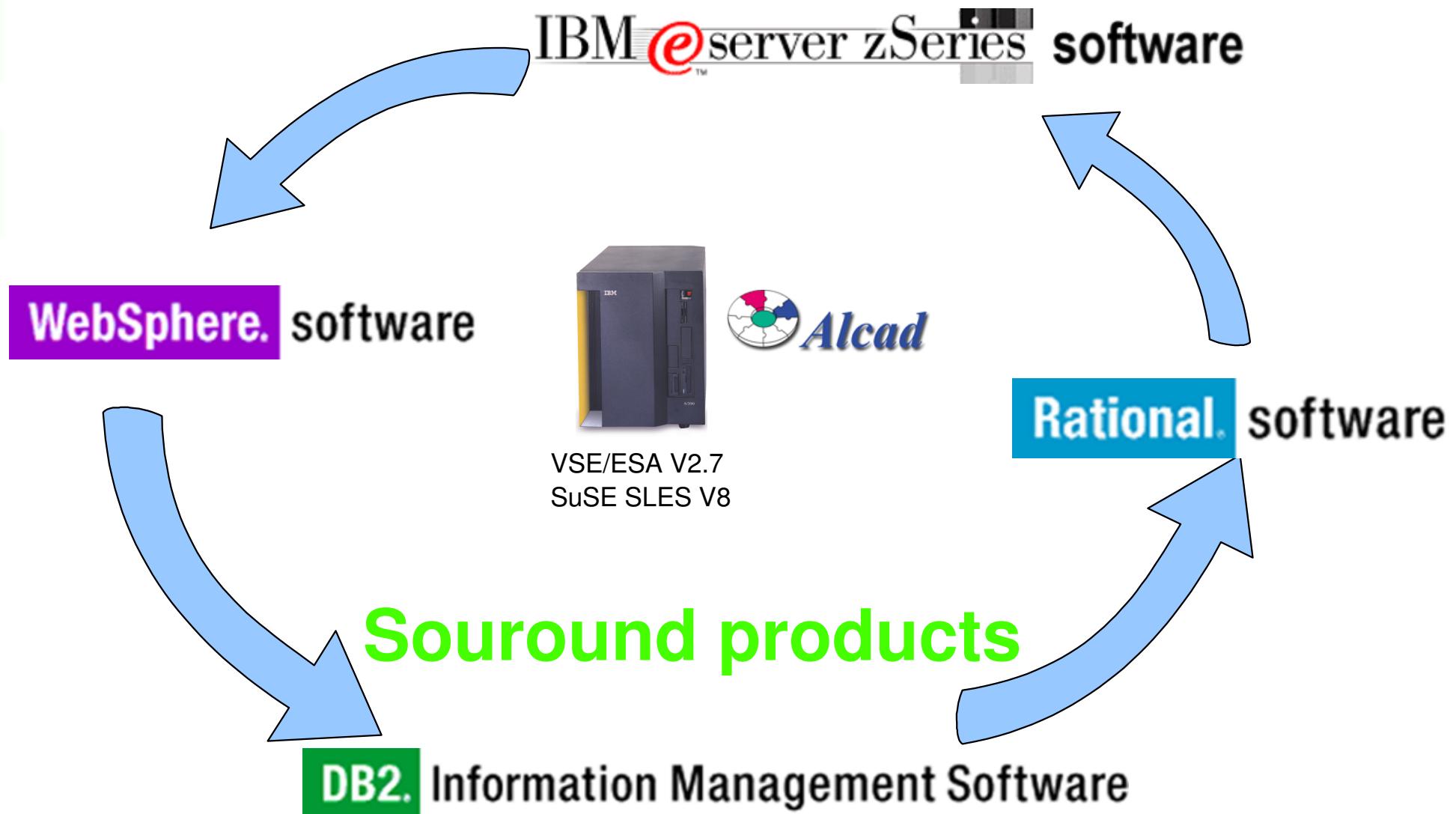
SuSE SLES V8

DB2 UDB ESE V8.1

SuSE SLES V8

WAS V5.1

Development and Test environment



Production environment

IBM eServer zSeries software

WebSphere. software



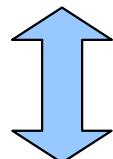
VSE/ESA V2.6
SuSE SLES V8

Souround products

DB2. Information Management Software

IBM S/390 Customers meeting, Zemono (SLO), 28.6.2001:
Session: "e-business with Linux for zSeries and S/390"

What is Unix Services for OS/390 or z/OS



Is Linux S/390 for VSE/ESA V2.6

z/OS - OS/390

Parallel Sysplex

Systems Mgmt, Capacity incl 64-bit, Availability

IMS DC
TSOCICS TS OS/390
ACF/VTAM, TCP/IP
LE COBOL, PL/1, C
DFSORT, MQSeries
DB2, IMS DB, VSAM*Unix Services*
heavy duty e-business
ie. WebSphere Appl Server
Enterprise JavaBeans
hardware encryption
DB2 UDB

Unique

No

CICS TS VSE/ESA
ACF/VTAM, TCP/IP
LE COBOL, PL/1, C
DFSORT, MQSeries
DB2, DL/1, VSAMWebSphere Appl Server
VSE
e-business
connectors
Enterprise JavaBeans

VSE/ESA

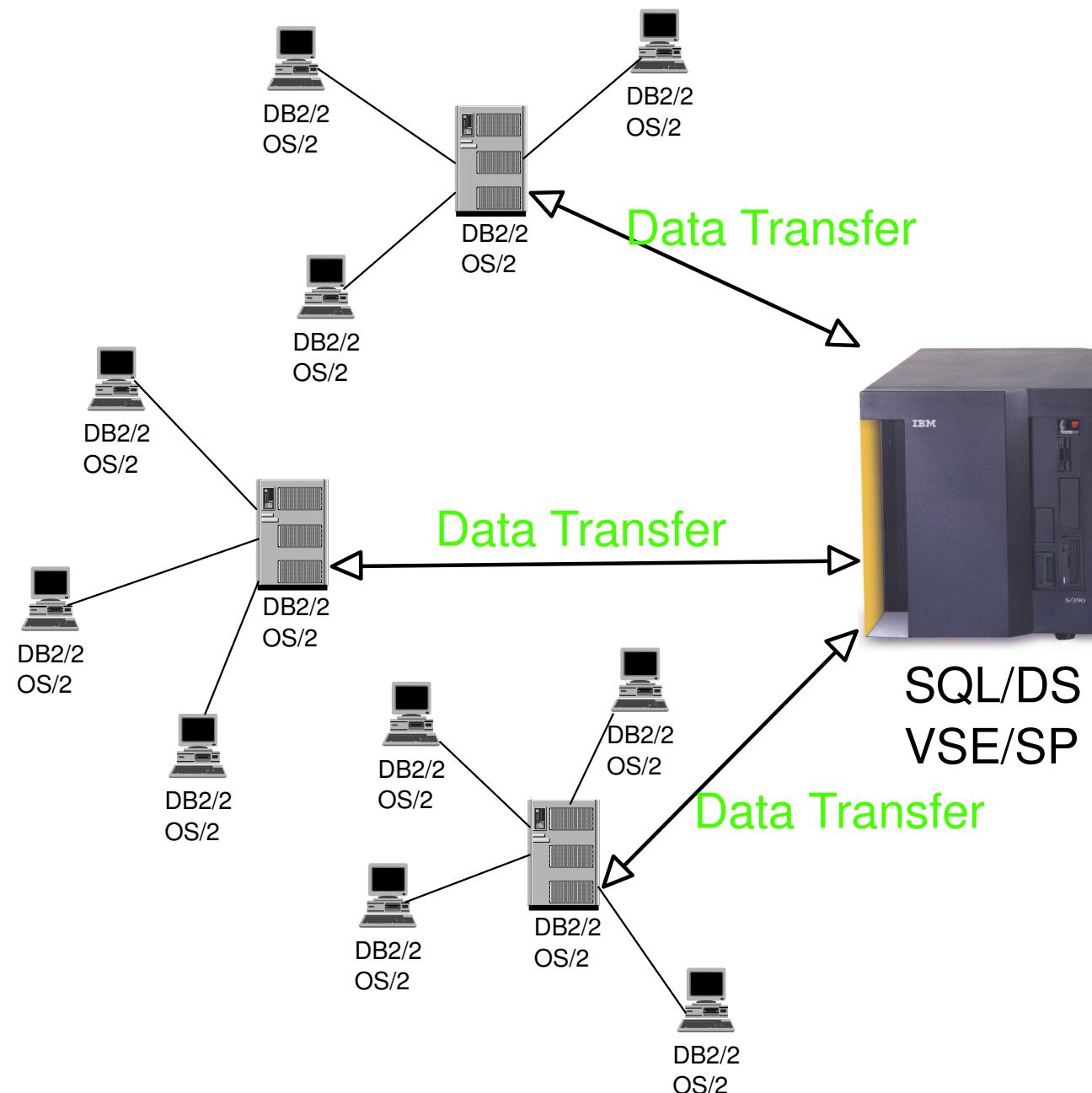
Linux for S/390

Agenda

- Where we are?
- Who we are?
- History of Alcad
- Environment
- **Design, Applications and Solutions**
- Future

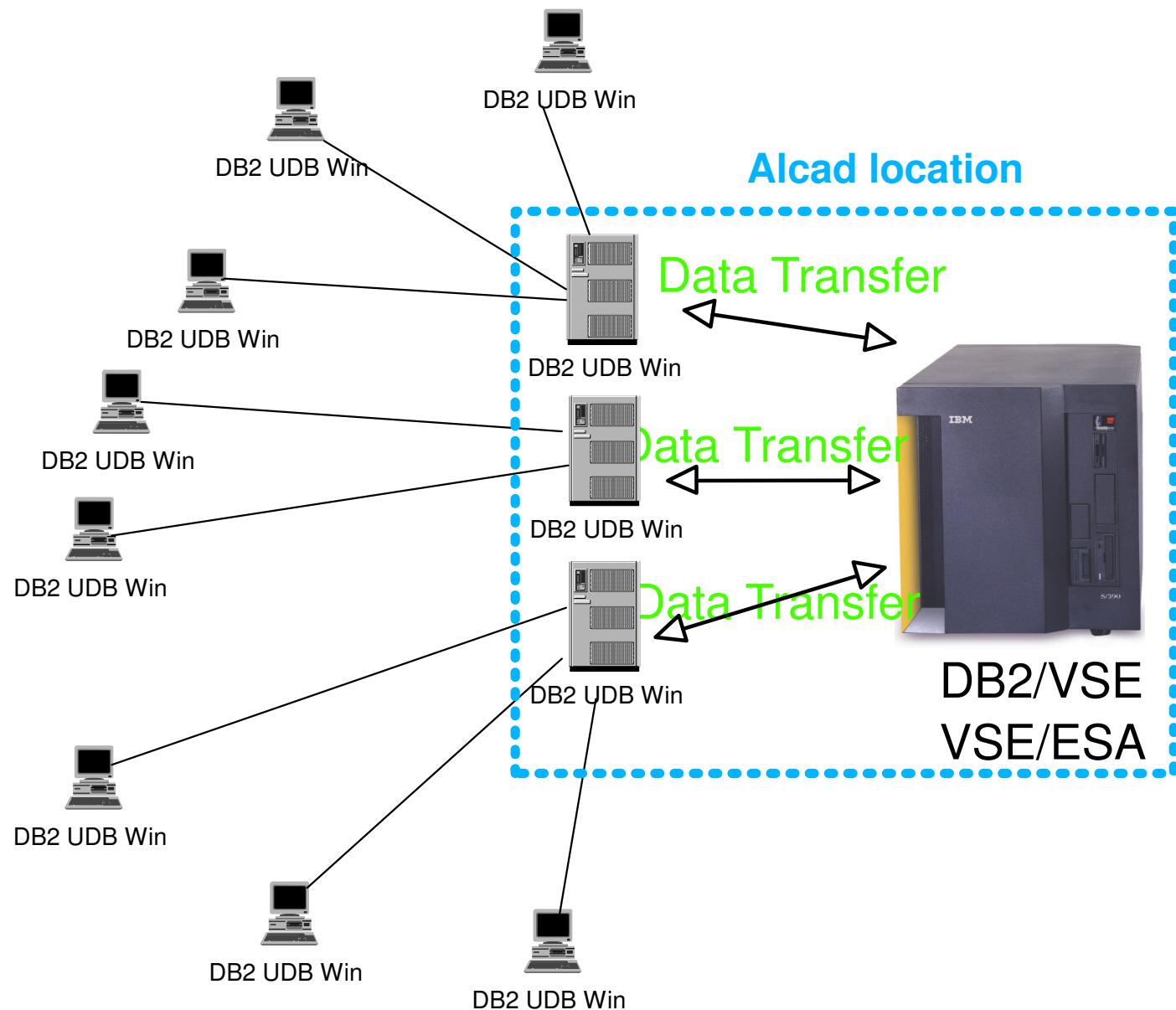
Database design - Client Server option

1995



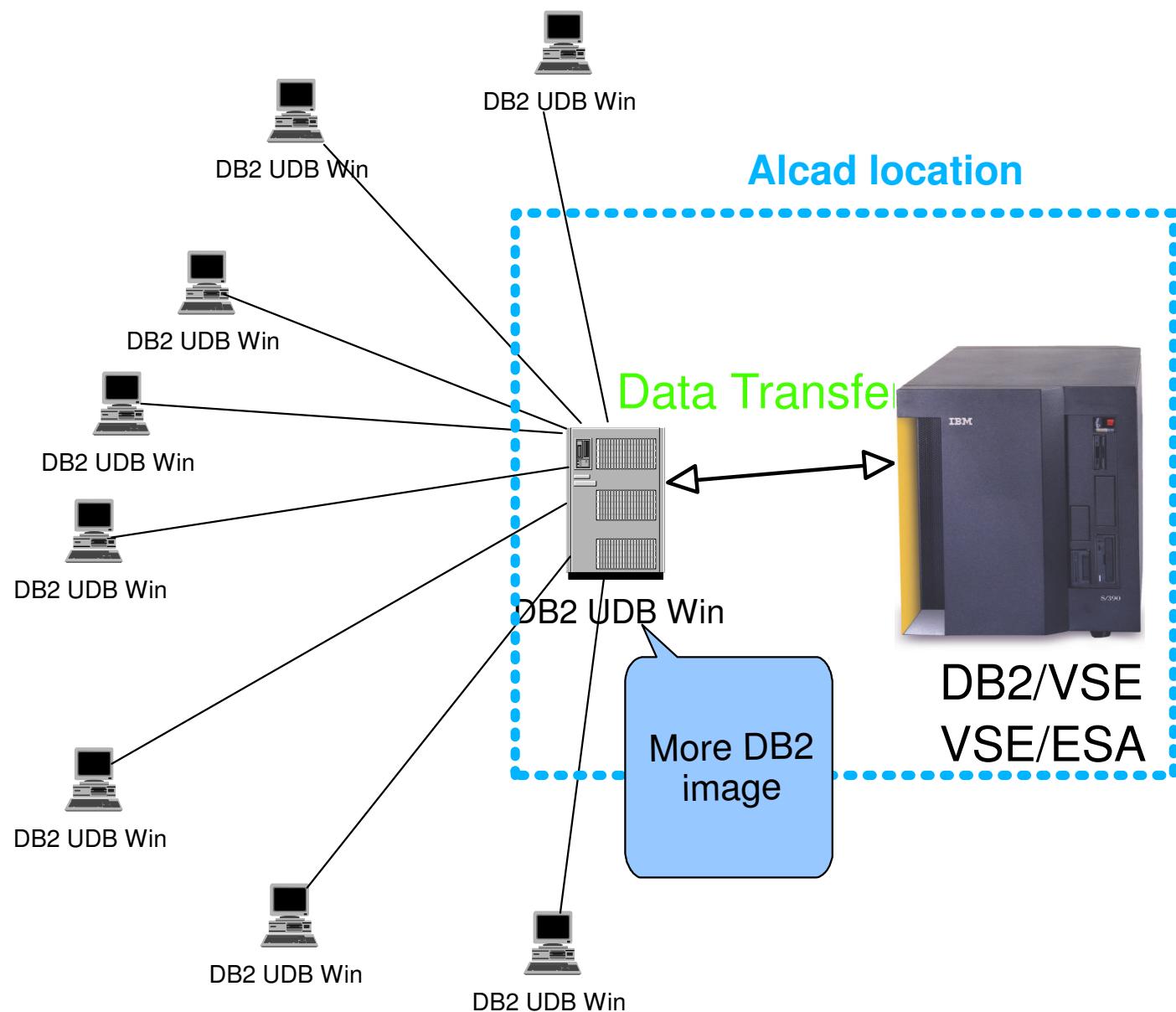
Database design - Client Server option

1998

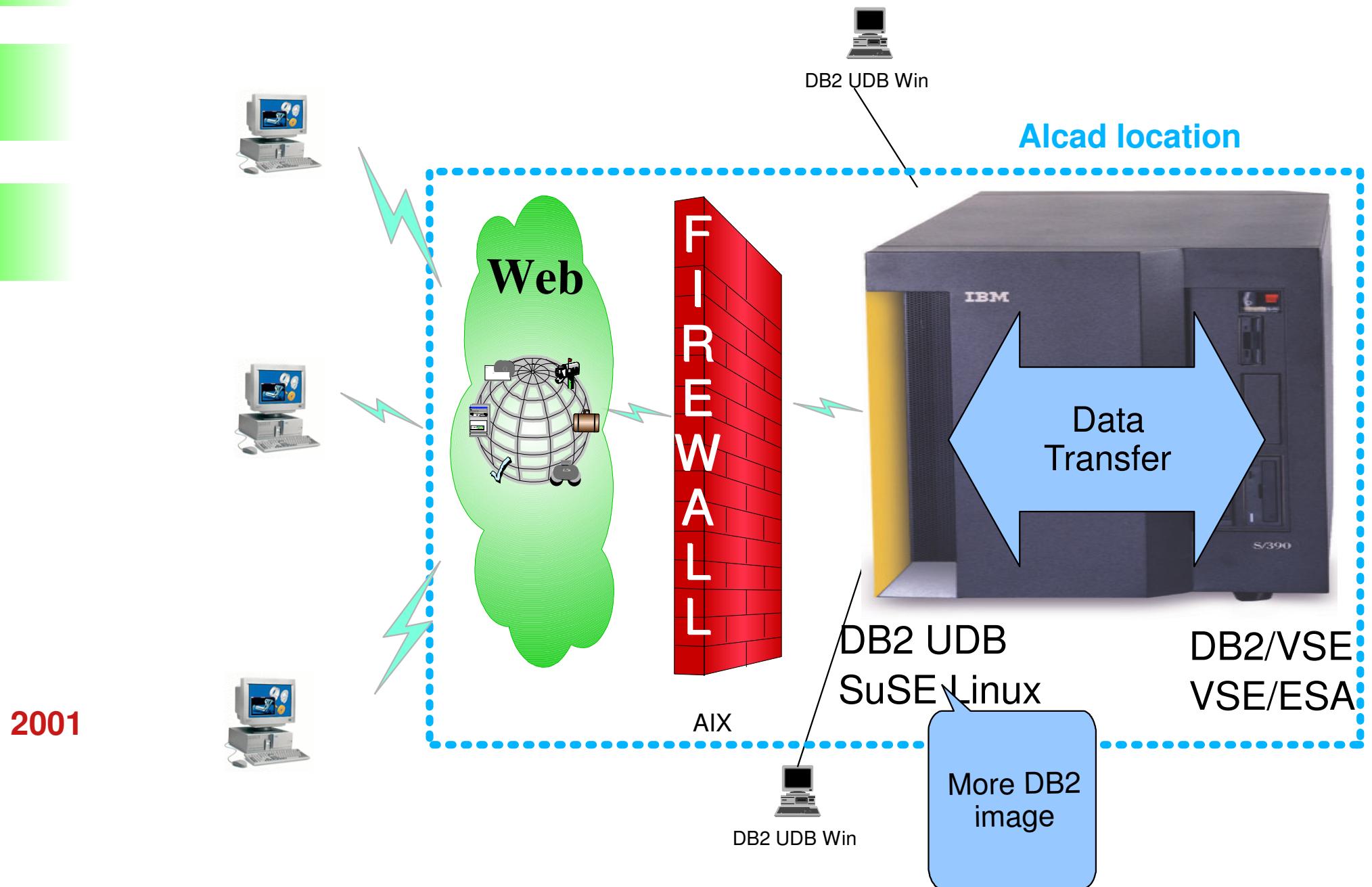


Database design - Client Server option

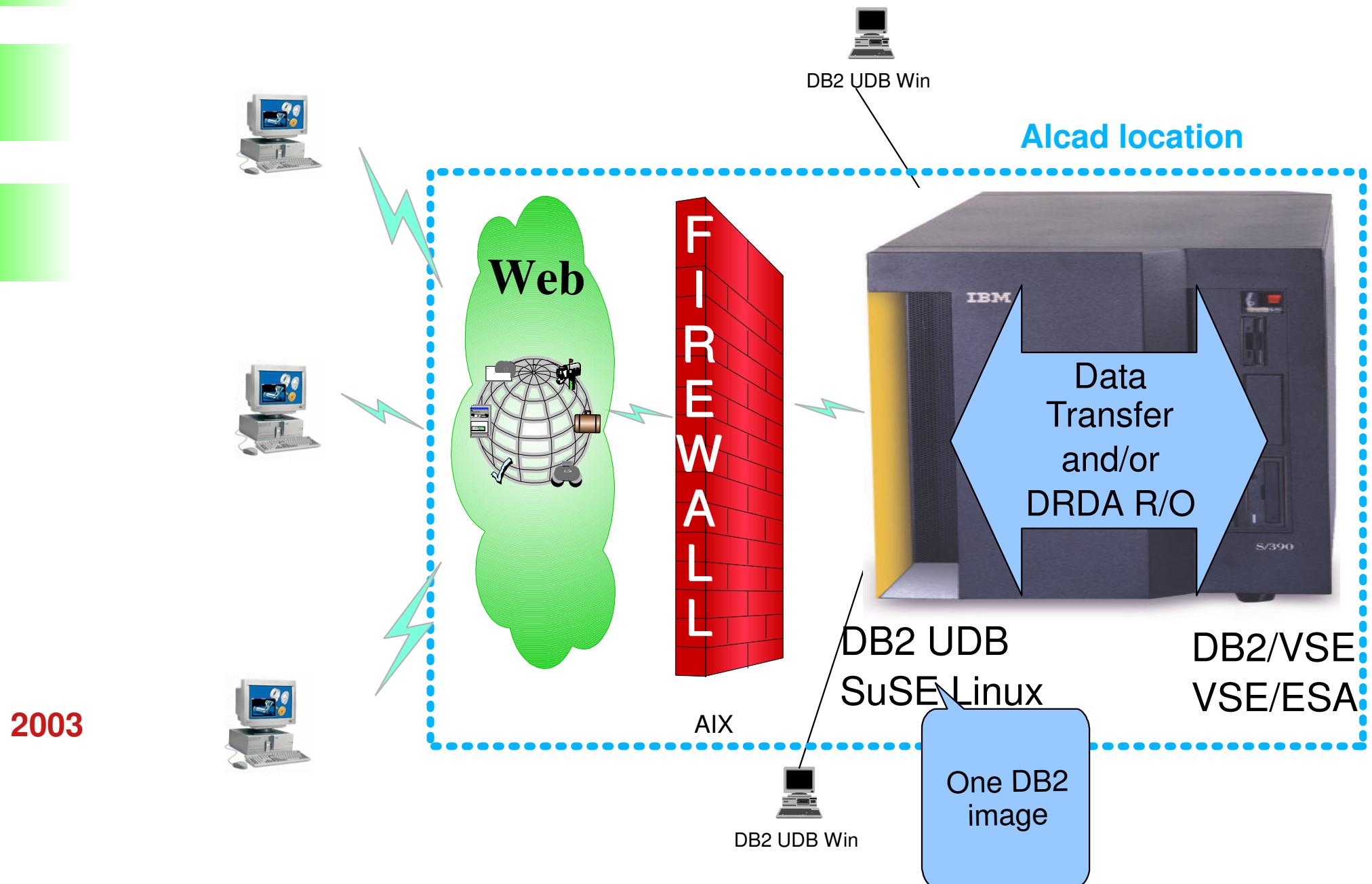
1999



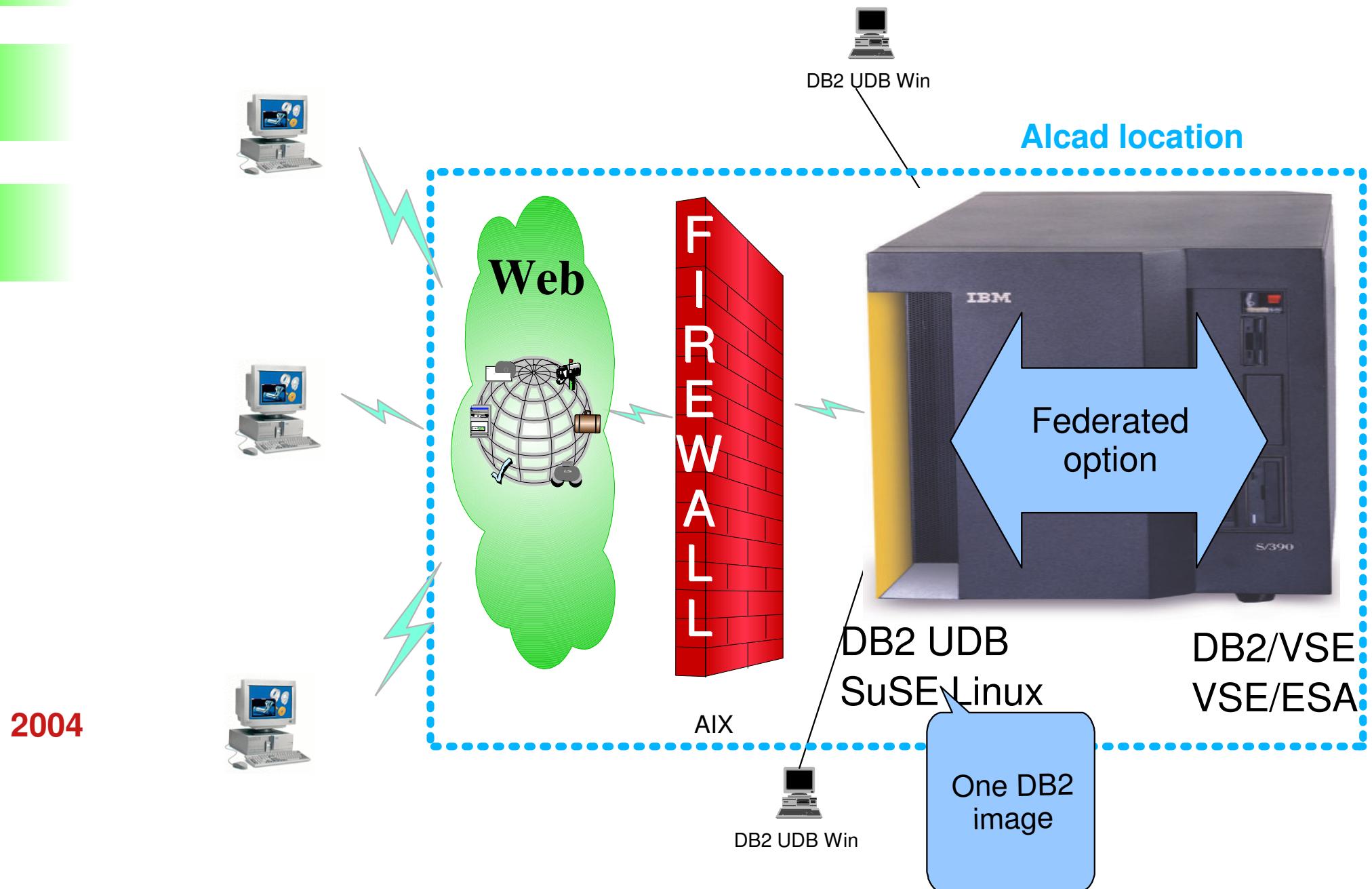
Database design



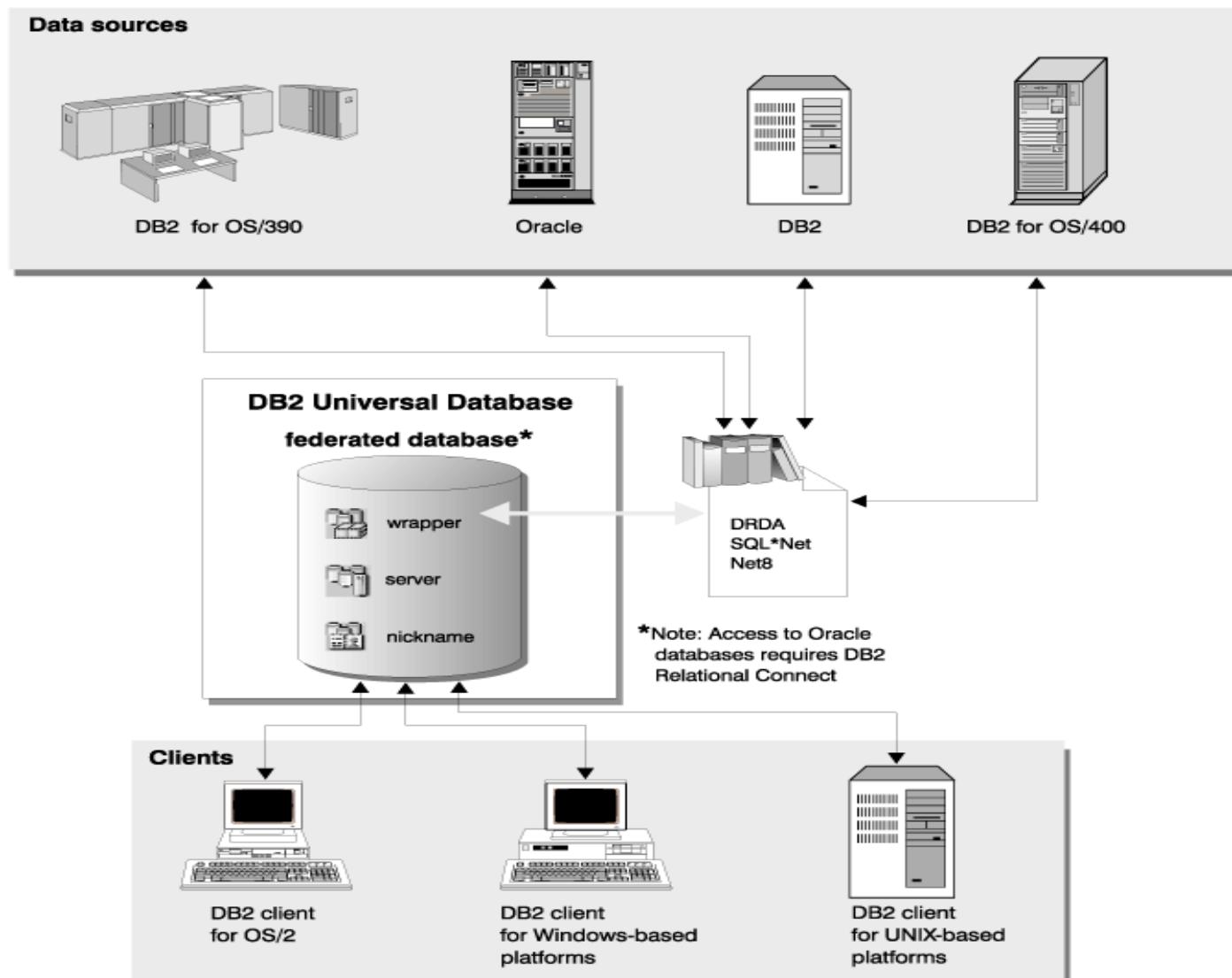
Database design



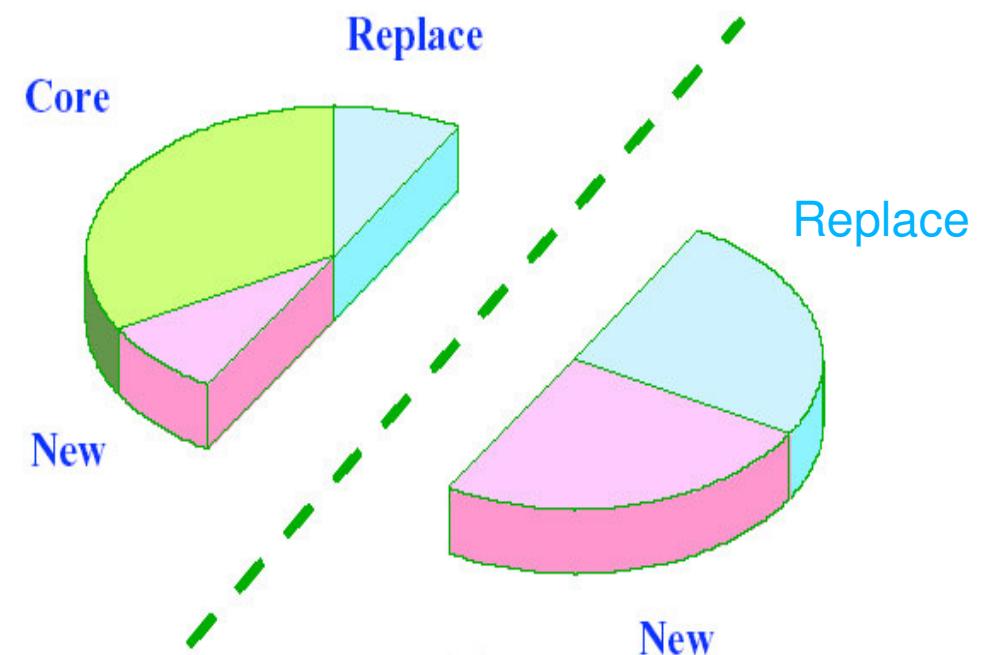
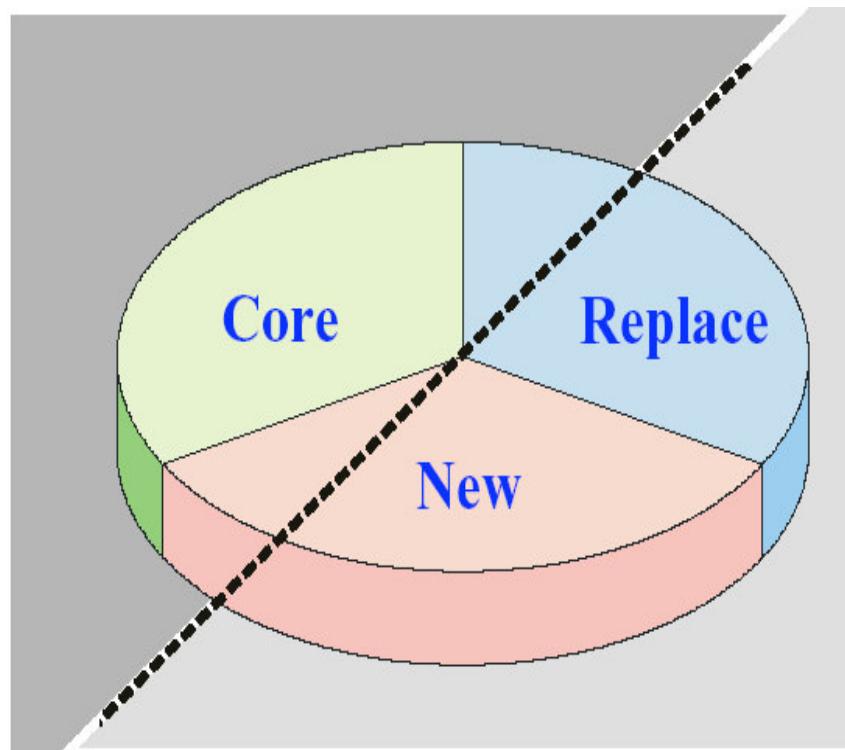
Database design



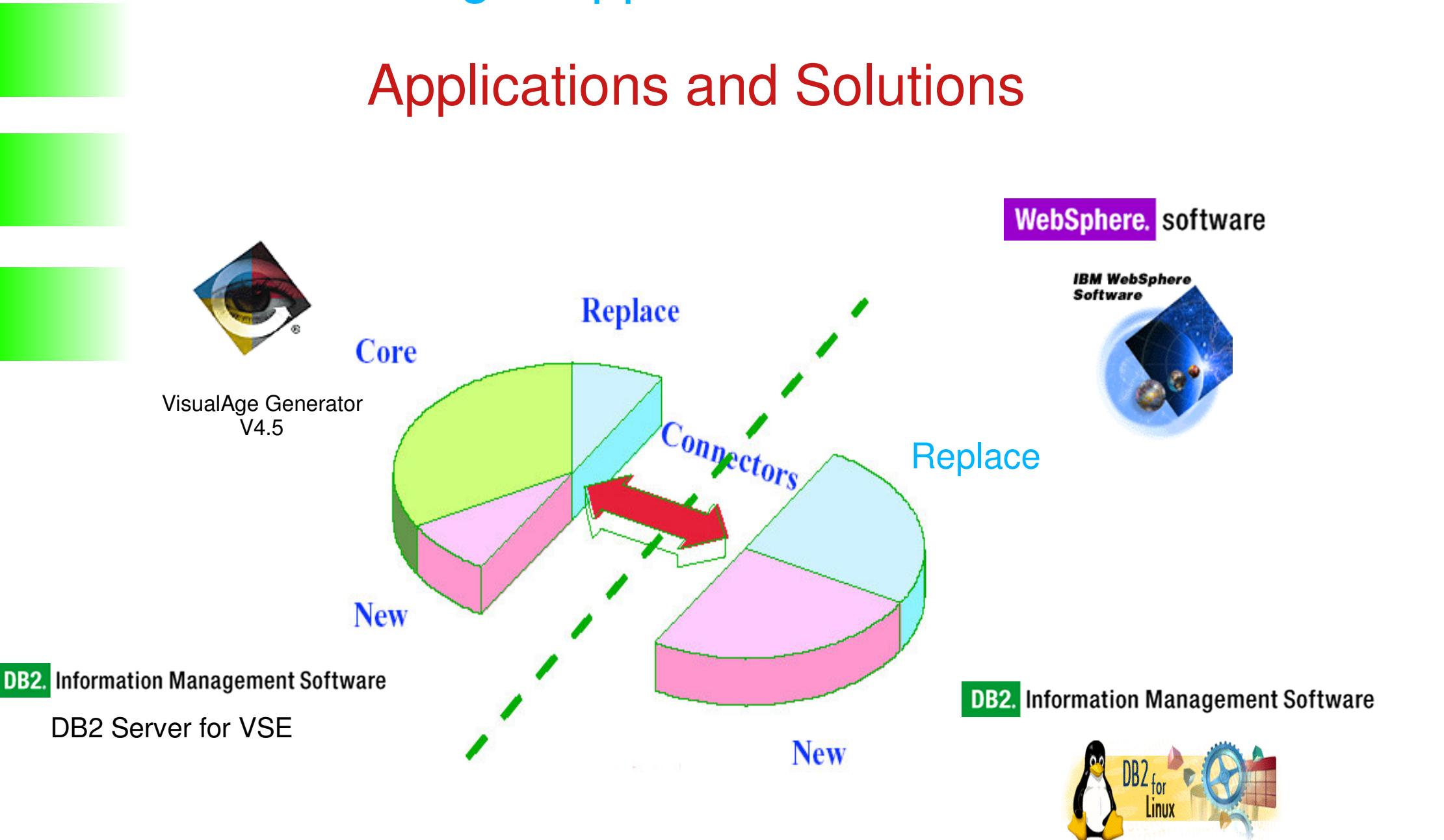
Federated option



Applications and Solutions



Applications and Solutions



Applications and Solutions

- e-Business
- Balanced Scorecard and OLAP
- WebSphere Portal

Applications and Solutions - e-Business

e-Business - Today

- every customer has unique userid and password and can change it
- customer can see only their own stock.
- customer can build their stock lists.
- all users of e-Business are able to Inquire and Order products from Impol stock
- Result of confirmed order is a contract, which can be confirmed or canceled by customer.
- customer can print PDF documents (Packing list, Analysis certificate)

e-Business - in progress

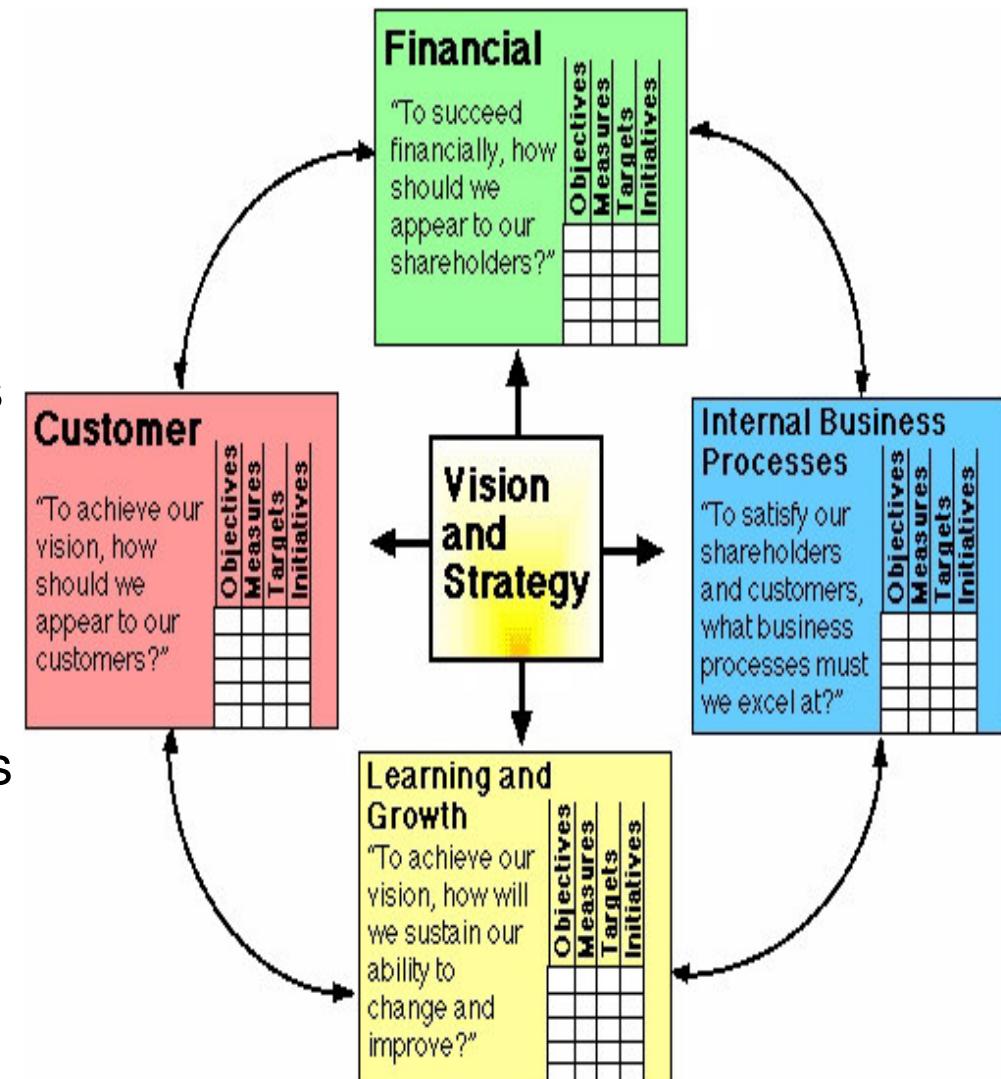
- security, LDAP and certificate
- all users of e-Business will be able to Inquire and Order products from all items.
- customer will be able to print PDF documents (Invoice)

e-Business - in future

- customer will be able to see, where their Order products are in production

Applications and Solutions - BSC and OLAP

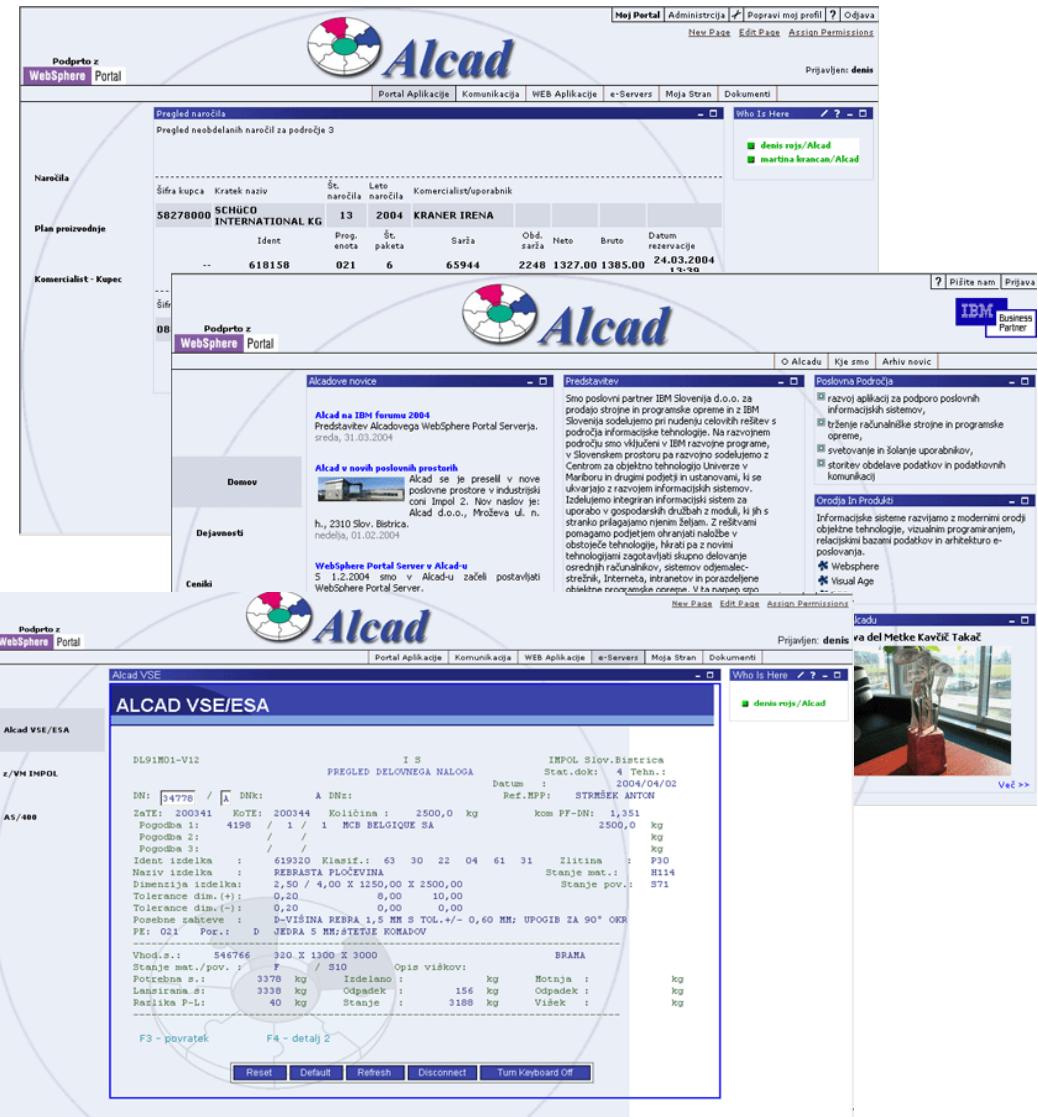
- BSC developed in Alcad
- new approach to strategic management to control Critical Success Factors
- view the organization from four perspectives
- Integrated with OLAP Analyzer
- Online Analytical Processing (OLAP) provides time series and trend analysis views - detailed information



Applications and Solutions - WS Portal

Portal principale

- Combines application user interfaces together into one unified presentation
- Delivers a highly personalized experience, considering
 - ▶ User's job role
 - ▶ Security settings
 - ▶ Administrators
 - ▶ Personal settings
 - ▶ Device settings
- Provides application integration, collaboration, single sign-on services and much more



Top Screenshot (Dashboard):

Portal Aplikacije | Komunikacija | WEB Aplikacije | e-Servers | Moja Stran | Dokumenti

Middle Screenshot (Order View):

Naročila
Šifra kupca: 58278000 | Kratek naziv: SCHÜCO INTERNATIONAL KG | Št. naročila: 13 | Leto naročila: 2004 | Komercialist/uporabnik: KRANER IRENA

Ident	Prog. enota	Št. paketa	Sazra	Obd. saraž.	Neto	Bruto	Datum rezervacije
618158	021	6	65944	2248	1327.00	1385.00	24.03.2004 19:20

Bottom Screenshot (VSE/ESA Document):

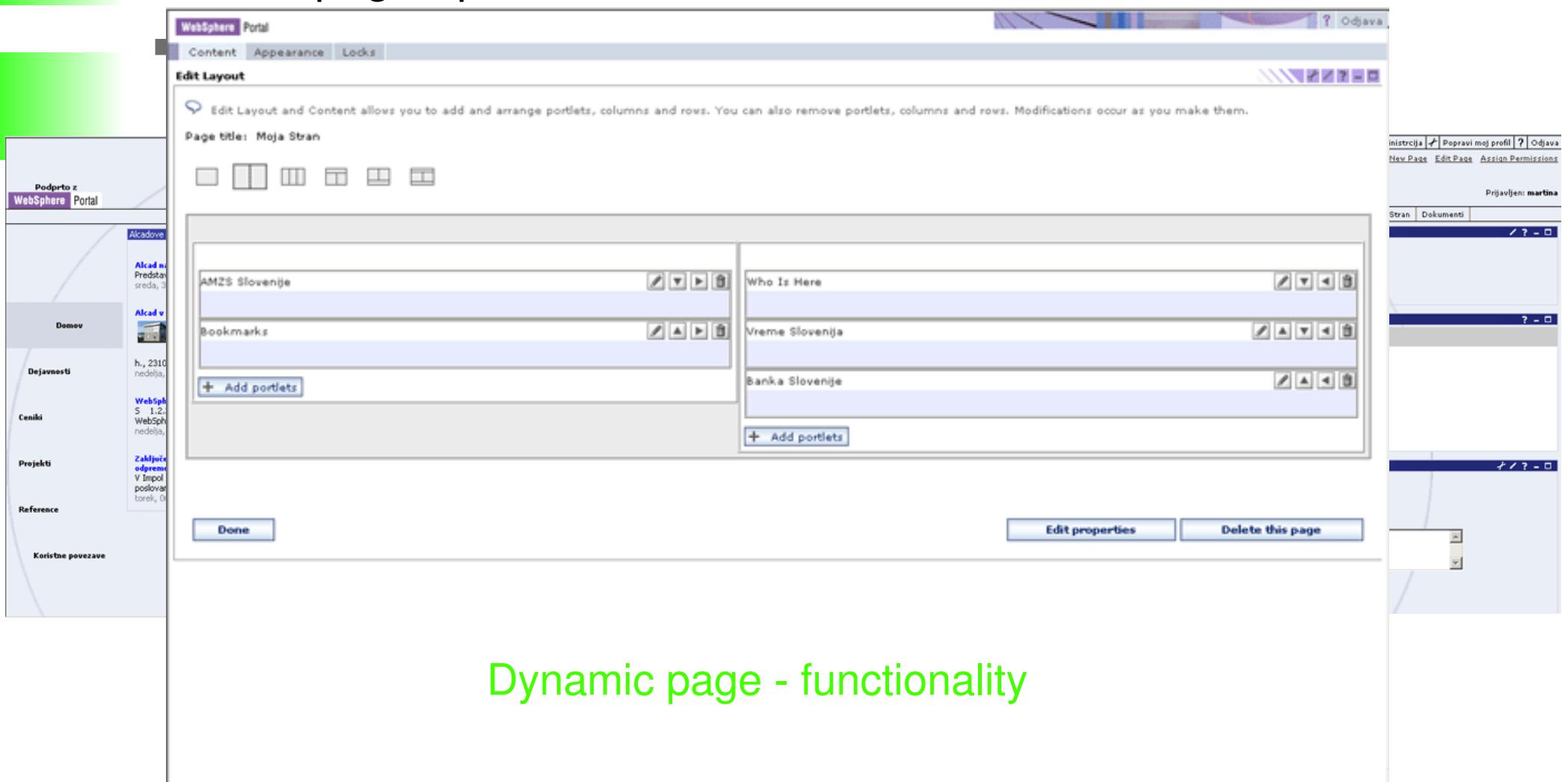
I S
PREGLED DELOVNEGA NALOGA
IMPOL Slov.Bistrica
Stat.dok.: 4 Tehn.: 2004/04/02
Ref. NPP: STRŠEK ANTON

DN:	DNK:	A DNz:	kom PF-DN:		
547760 / 547760	200341 / 4190	1 / 1 RCB BELGIQUE SA	2500,0 kg		
Zetki:	4190	/	2500,0 kg		
Popodba 1:	/	/	kg		
Popodba 2:	/	/	kg		
Popodba 3:	/	/	kg		
Ident izdelka:	619320	Klasif.:	63 30 22 04 61 31	Zlitina:	P30
Naziv izdelka:	REBRASTA PLOČEVINA	Stanje mat.:	H114		
Dimenzija izdelka:	2,50 / 4,00 X 1250,00 X 2500,00	Stanje pov.:	P71		
Toleranca dim.(+):	0,20				
Toleranca dim.(-):	0,20				
Posebne zahteve:	D-VISINA REBRA 1,5 MM S TOL./+- 0,60 MM; UPOGIB ZA 90° OKR				
PE:	021	Por.:	D JEDRA 5 MM; STETJE KONADOV		

Vhod.s.: 546760 / 320 X 1300 X 3000
Stanje mat./pov. : F / S10 Opm. viškov:
Potreben s. : 3376 kg Odpravljan. : kg Metria : kg
Lastna s. : 3338 kg Odpradek : 156 kg Odpradek : kg
Razlika P-s. : 40 kg Stanje : 3188 kg Višek : kg

Applications and Solutions - WS Portal

■ Static page - public



The screenshot shows the WebSphere Portal interface. On the left, there is a sidebar with links like 'Podprt z WebSphere Portal', 'Alcadove', 'Domov', 'Dejavnosti', 'Ceniki', 'Projekti', 'Reference', and 'Koristne povezave'. The main area is titled 'Edit Layout' and shows a 'Page title: Moja Stran'. It contains several portlets: 'AMZS Slovenije', 'Bookmarks', 'Who Is Here', 'Vreme Slovenija', and 'Banka Slovenije'. There are buttons for 'Edit properties' and 'Delete this page'. A 'Done' button is at the bottom left. The right side of the screen shows a preview of the portal with sections for 'Instrucija', 'Popravi moj profil', 'New Page', 'Edit Page', 'Assign Permissions', 'Prijavljen: marina', 'Stran', 'Dokumenti', and 'FAQ'.

Dynamic page - functionality

Agenda

- Where we are?
- Who we are?
- History of Alcad
- Environment
- Applications, Design and Solutions
- **Future**

- **New HW and SW for Impol**
- Application Development environment
- DB2 environment
- Integration Sevojno (SCG) to Impol in non-3270 applications



z/890

z/890

IFL - 64 bit

VSE/ESA V2.7
or
z/VSE V3.1

z/VM V5

SuSE SLES V9

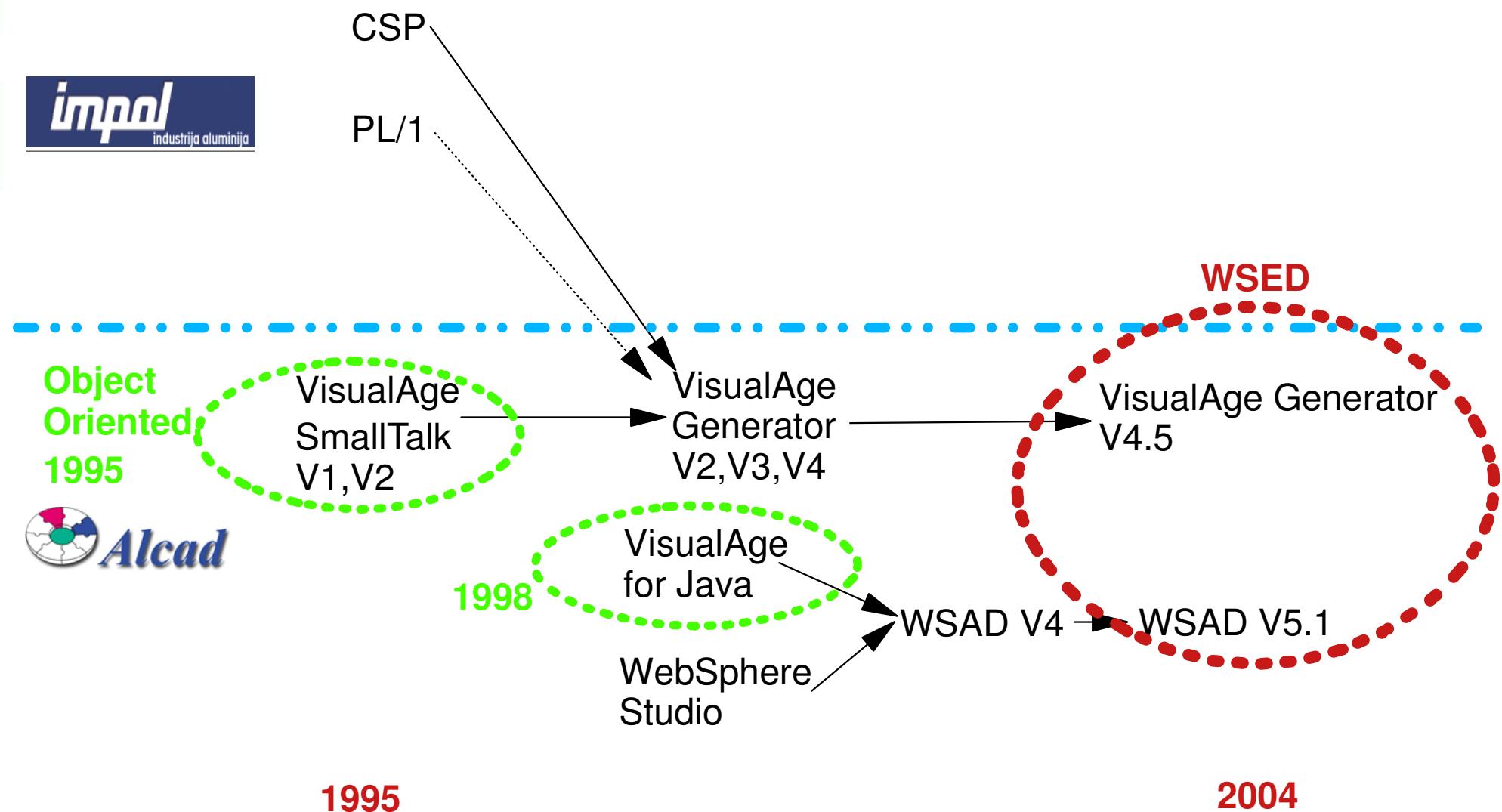
DB2 UDB ESE V8.2

SuSE SLES V9

WAS V6

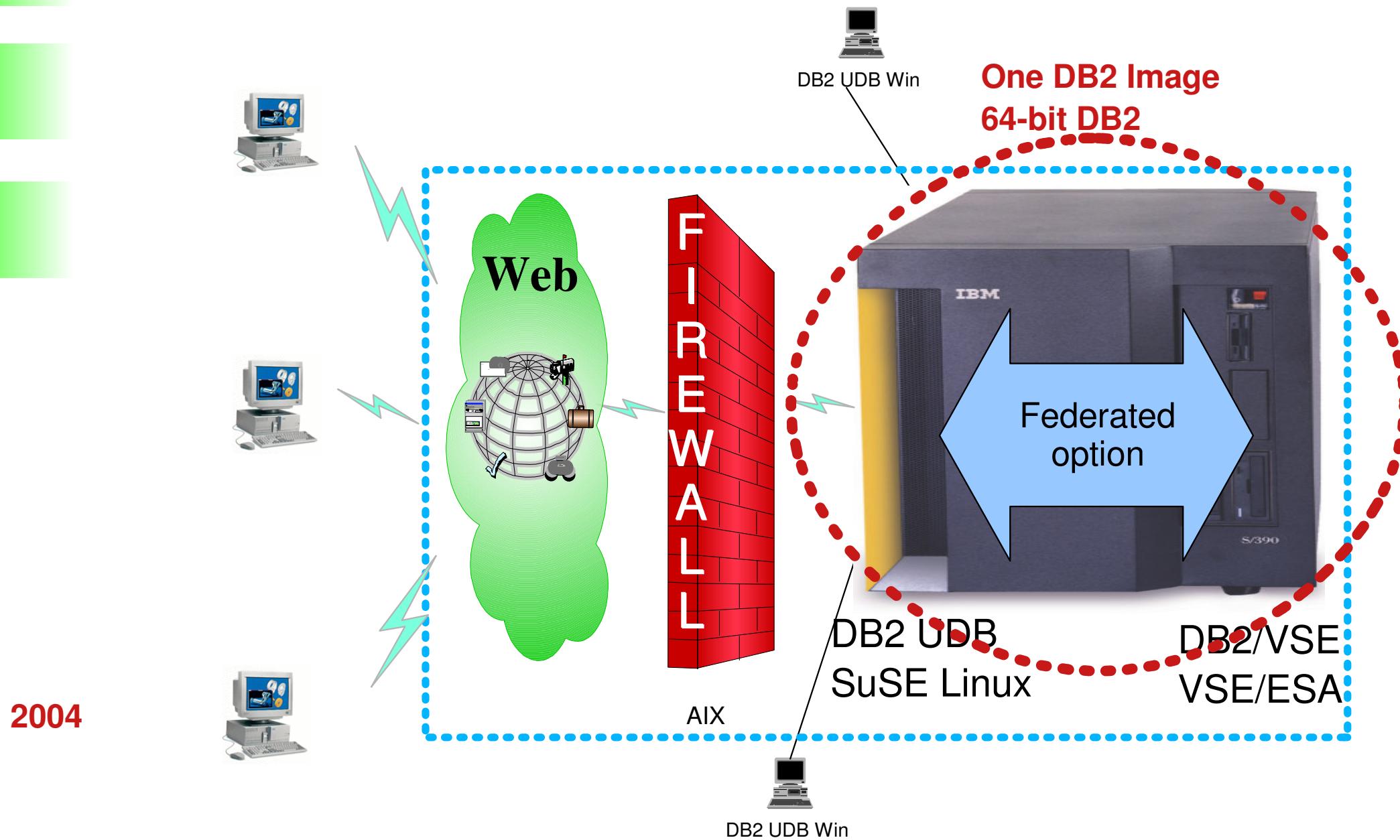
- New HW and SW for Impol
- **Application Development environment**
- DB2 environment
- Integration Sevojno (SCG) to Impol in non-3270 applications

Application Development environment



- New HW and SW for Impol
- Development environment (WSAD, VAG, WSED, SmallTalk)
- **DB2 environment**
- Integration Sevojno (SCG) to Impol in non-3270 applications

DB2 environment



- New HW and SW for Impol
- Development environment (WSAD, VAG, WSED, SmallTalk)
- DB2 environment (DB2/VSE, DB2 UDB zLinux, 64-bit arhit.)
- **Integration Sevojno (SCG) to Impol in non-3270**

applications

VisualAge Generator

EGL

Cobol

IBM eServer zSeries software



VSE/ESA V2.7
SuSE SLES V8

WebSphere. software

WAS
WSAD (RWD)
WSED (RAD)
WS Portal

Rational. software

RWD
RAD
Rational Rose XDE
Developer plus

DB2. Information Management Software

DB2 UDB
DB2 VSE

Thank you!

oskar.lang@alcad.si