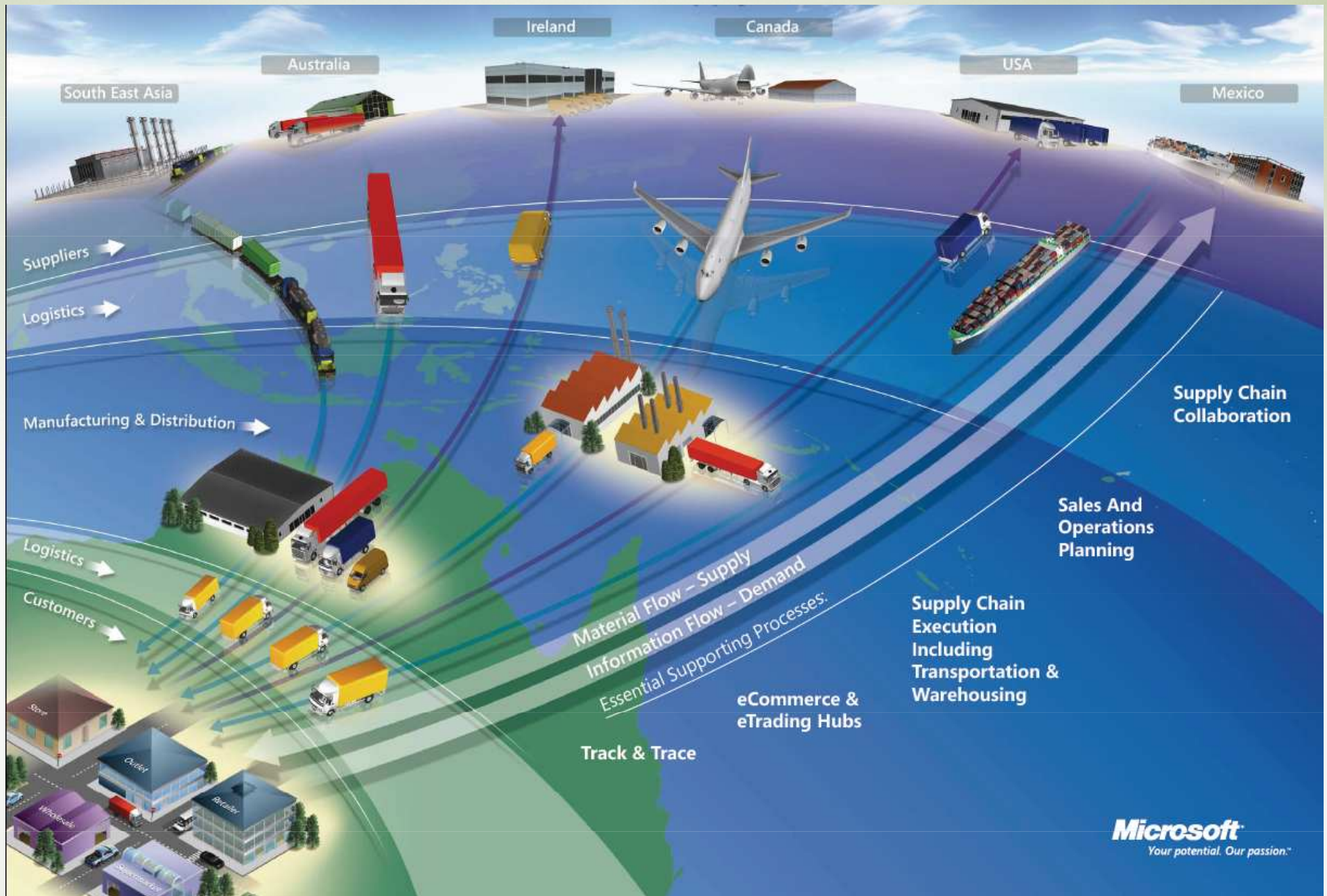


# BASIC ERP ARCHITECTURE

Skorkovský, KPH, ESF MU

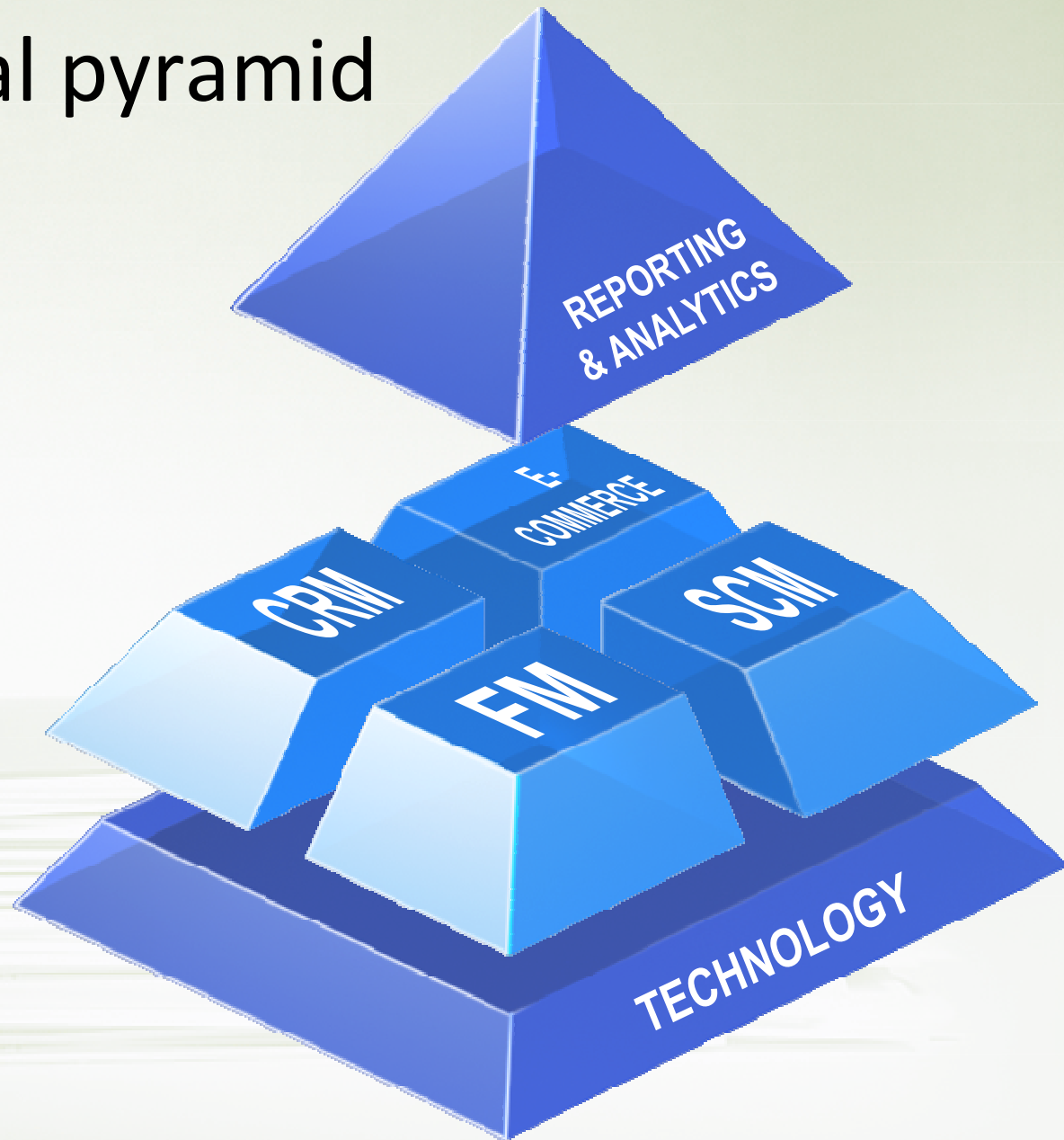


# What could be controlled...



# Technological pyramid

MICROSOFT  
BUSINESS  
SOLUTIONS  
- NAVISION





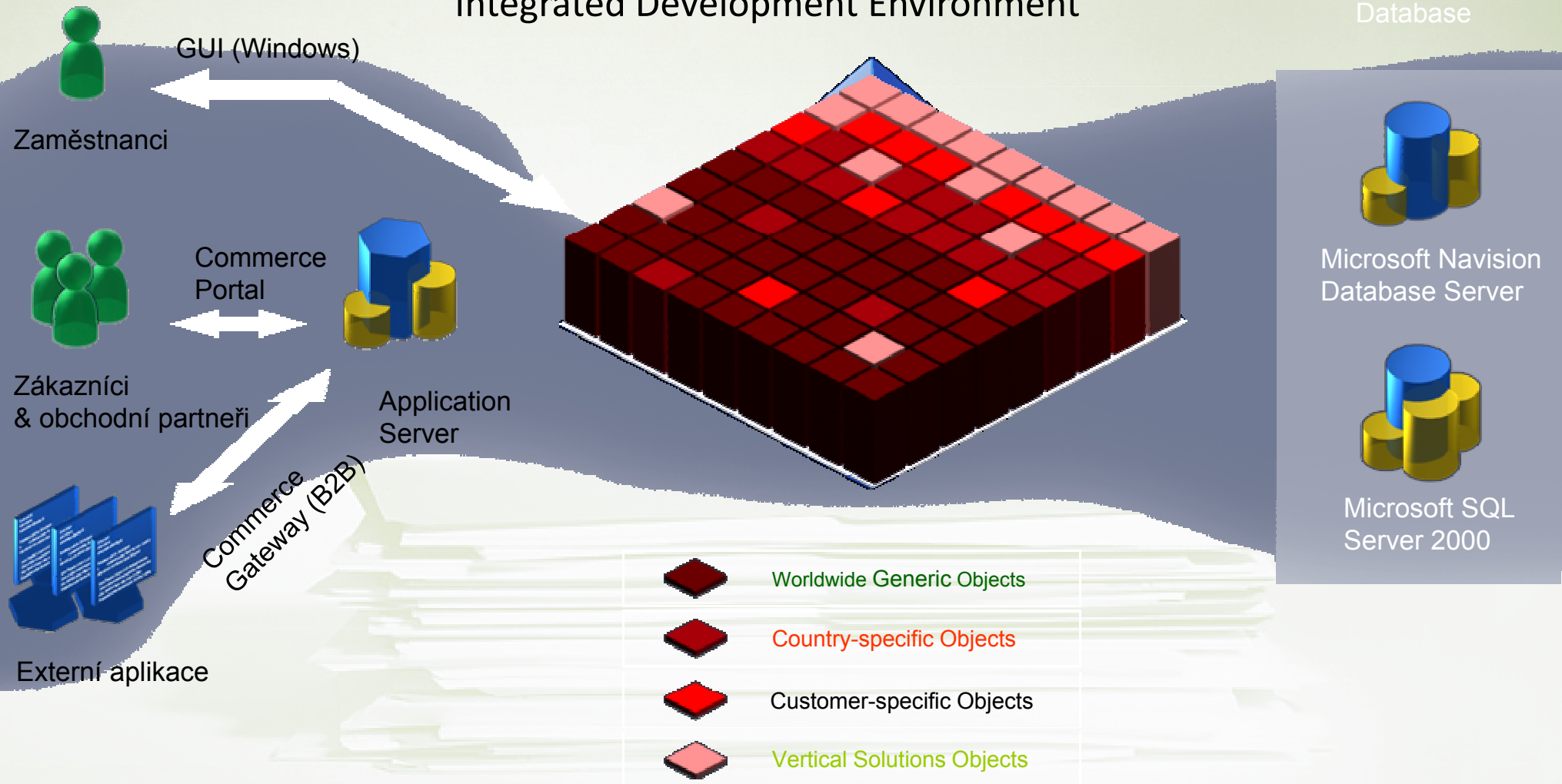
# Integrated homogeneous solution



27.3.2009

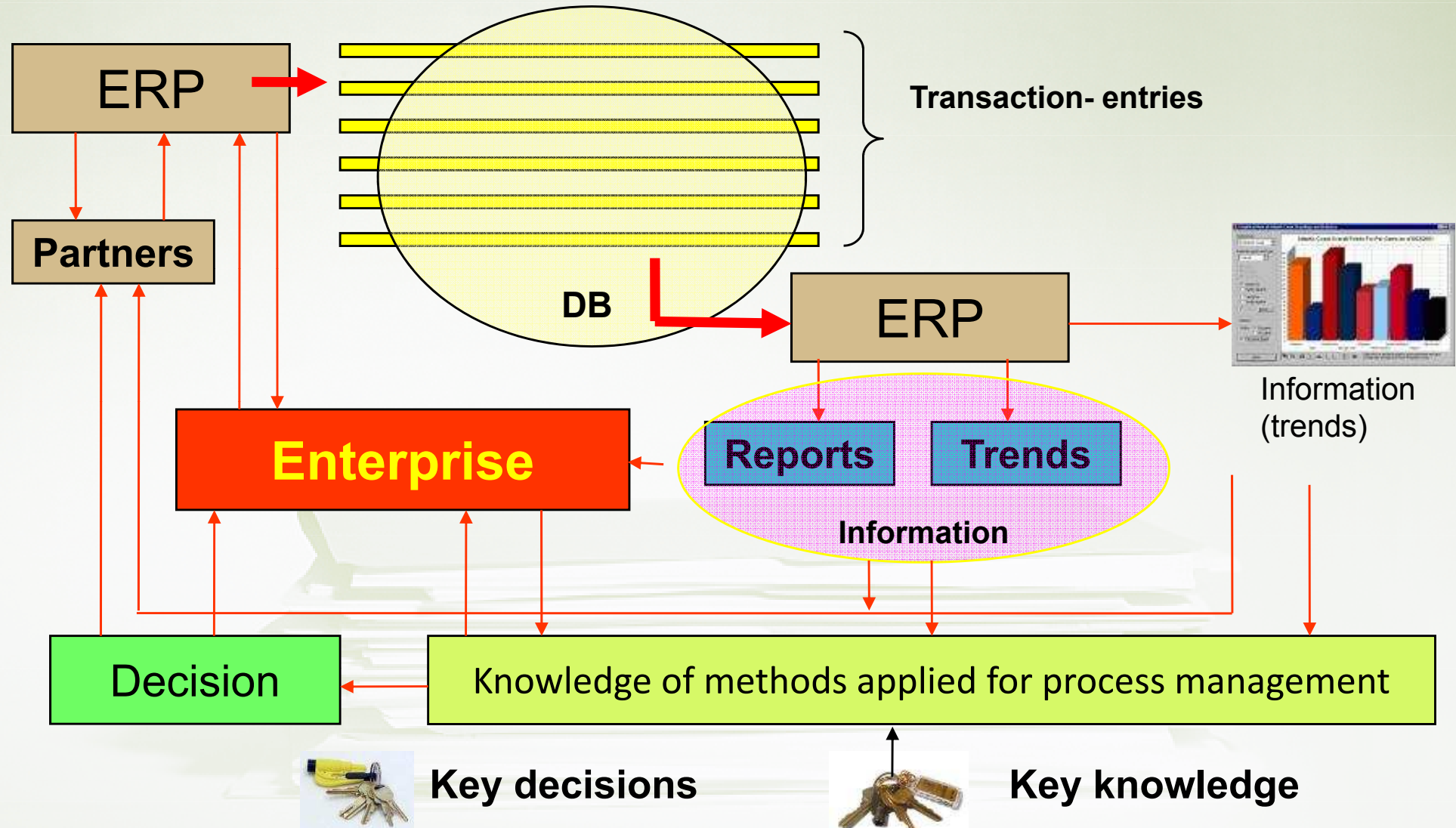
# Unique architecture

Integrated Development Environment



27.3.2009

# Simplified schema of ERP usage



# Main form (menu, toolbar, forms)

CRONUS CZ s.r.o. - Microsoft Dynamics NAV

File Edit View Tools Window Help

Financial Management

- General Ledger
  - Chart of Accounts
  - Budgets
  - General Journals
- Analysis & Reporting
- Intercompany Postings
- Reports
- History
- Periodic Activities
- Cash Management
- Receivables
- Payables
- Fixed Assets
- Inventory
- Setup

Financial Management

Sales & Marketing

Purchase

Warehouse

Manufacturing

Jobs

Resource Planning

Service

Human Resources

Administration

Chart of Accounts

Name	Income/Balance	Totaling	Account Type	Gen. Posting Type	Gen. Bus. Posting Group	Gen. Prod. Posting Group	Net Change	Bal
Režie, kapacita	Income Statement		Posting					
Nákupní odchylka, kapacita	Income Statement		Posting					
<b>Celkové náklady na kapac...</b>	Income Statement	511050..511990	End-Total					
Travel expenses	Income Statement		Posting	Purchase		BEZ DPH	1 012 816,40	
Režie, suroviny	Income Statement		Posting					
Entertainment costs	Income Statement		Posting				149 170,50	
<b>Other services</b>	Income Statement		Begin-Total	Purchase	NÁRODNÍ	SLUŽBY		
Cleaning	Income Statement		Posting	Purchase	NÁRODNÍ	SLUŽBY	992 215,91	
<b>Overhead services</b>	Income Statement		Begin-Total	Purchase	NÁRODNÍ	SLUŽBY		
Phones	Income Statement		Posting	Purchase	NÁRODNÍ	SLUŽBY	2 029 440,00	
Postage	Income Statement		Posting	Purchase	NÁRODNÍ	BEZ DPH	121 574,70	
Other overhead services	Income Statement		Posting	Purchase	NÁRODNÍ	RŮZNÉ		
<b>Overhead services, Total</b>	Income Statement	518205..518295	End-Total				2 151 014,70	
Advertising	Income Statement		Posting	Purchase	NÁRODNÍ	RŮZNÉ	3 834 471,87	
<b>Rent and renting</b>	Income Statement		Begin-Total					
Renting of operational sp...	Income Statement		Posting					
Renting of vehicles	Income Statement		Posting					
<b>Rent and renting</b>	Income Statement	518405..518495	End-Total					

Account Balance Functions Help

Net Change: 18.12.08 FILTER

Start Odeslaná pošta ... 2 Microsoft Of... TEMPORARY OP... Angličtina - Lexi... CRONUS CZ s.r.o. CS 10:19

# Main forms (card, list, form->sub-form)

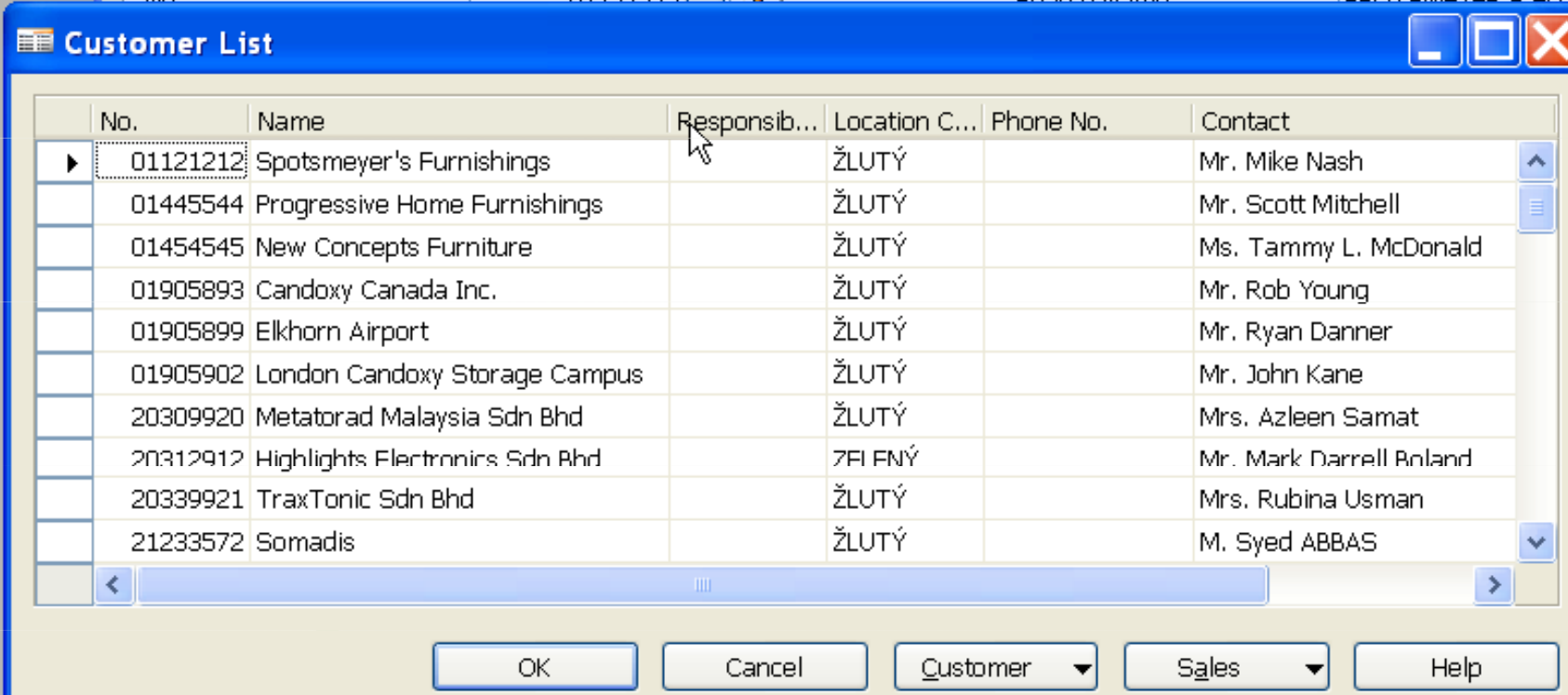
The screenshot shows a software window titled "01121212 Spotsmeyer's Furnishings - Customer Card". The window has a blue title bar and standard Windows window controls (minimize, maximize, close). Below the title bar are several tabs: "General", "Communication", "Invoicing", "Payments", "Shipping", and "Foreign Trade". The "General" tab is active. The form contains the following fields and values:

No.	01121212	Search Name	SPOTSMEYER'S FU...
Name	Spotsmeyer's Furnishings	Balance (LCY)	0,00
Address	612 South Sunset Drive	Credit Limit (LCY)	0,00
Address 2		Salesperson Code	JM
Post Code/City	US-FL 37125 Miami	Responsibility Center	
Country/Region Code	US	Service Zone Code	X
Phone No.		Blocked	
Primary Contact No.		Last Date Modified	09.06.08
Contact	Mr. Mike Nash		

At the bottom of the form, there are four buttons: "Customer", "Sales", "Functions", and "Help".



## Main forms (card, **list**, form->sub-form)



The screenshot shows a window titled "Customer List" with a table of customer records. The table has columns for No., Name, Responsib..., Location C..., Phone No., and Contact. The first row is selected, and a mouse cursor is pointing at the "Responsib..." column. Below the table are buttons for "OK", "Cancel", "Customer", "Sales", and "Help".

No.	Name	Responsib...	Location C...	Phone No.	Contact
01121212	Spotsmeyer's Furnishings		ŽLUTÝ		Mr. Mike Nash
01445544	Progressive Home Furnishings		ŽLUTÝ		Mr. Scott Mitchell
01454545	New Concepts Furniture		ŽLUTÝ		Ms. Tammy L. McDonald
01905893	Candoxy Canada Inc.		ŽLUTÝ		Mr. Rob Young
01905899	Elkhorn Airport		ŽLUTÝ		Mr. Ryan Danner
01905902	London Candoxy Storage Campus		ŽLUTÝ		Mr. John Kane
20309920	Metatorad Malaysia Sdn Bhd		ŽLUTÝ		Mrs. Azleen Samat
20312912	Highlights Electronics Sdn Bhd		7FI FNÝ		Mr. Mark Darrell Boland
20339921	TraxTonic Sdn Bhd		ŽLUTÝ		Mrs. Rubina Usman
21233572	Somadis		ŽLUTÝ		M. Syed ABBAS

# Main forms (card, list, **form->sub-form**)



**101018 New Concepts Furniture - Sales Order**

General | Invoicing | Shipping | Foreign Trade | E - Commerce | Prepayment | Advance Invoice

No. . . . . 101018 [edit] [refresh]  
Sell-to Customer No. . . . . 01454545 [up]  
Sell-to Contact No. . . . . [up]  
Sell-to Customer Name . . . . . New Concepts Furniture  
Sell-to Address . . . . . 705 West Peachtree Street  
Sell-to Address 2 . . . . .  
Sell-to Post Code/City . . . . . US-GA 31772 [up] Atlanta [up]  
Sell-to Contact . . . . . Ms. Tammy L. McDonald  
No. of Archived Versions . . . . . 0  
Reason Code . . . . . [up]

Posting Date . . . . . 25.01.08  
VAT Settlement Date . . . . . 25.01.08  
Order Date . . . . . 25.01.08  
Document Date . . . . . 25.01.08  
Requested Delivery Date . . . . .  
Promised Delivery Date . . . . .  
Quote No. . . . .  
External Document No. . . . .  
Salesperson Code . . . . . JM [up]  
Campaign No. . . . . [up]  
Responsibility Center . . . . . [up]  
Status . . . . . Open

**Customer Information**

Sell-to Customer [edit]  
• Ship-to Addresses (0)  
• Contacts (2)  
Bill-to Customer  
• Avail. Credit 0

Type	No.	Purch... Code	Drop Shipment	Description	Location Code	Quantity	Reserved Quantity	U
Item	1980-S		<input type="checkbox"/>	MOSCOW Swivel Chair, red	ZELENÝ	6		k

**Item Information**

• Item Card [edit]  
• Availability (8)  
• Substitutions (1)  
• Sales Prices (0)  
• Sales Line Dis... (1)

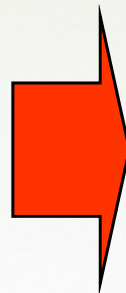
Order | Line | Functions | Posting | Print | Help

Partner

What

# Table->Form principle

Field No.	Field Name	Data Type	Length
1	No.	Code	20
2	Name	Text	50
3	Search Name	Code	50
4	Name 2	Text	50
5	Address	Text	50
6	Address 2	Text	50
7	City	Text	30
8	Contact	Text	50
9	Phone No.	Text	30
10	Telex No.	Text	20
14	Our Account No.	Text	20
15	Territory Code	Code	10
16	Global Dimension 1 Code	Code	20
17	Global Dimension 2 Code	Code	20
18	Chain Name	Code	10
19	Budgeted Amount	Decimal	
20	Credit Limit (LCY)	Decimal	
21	Customer Posting Group	Code	10
22	Currency Code	Code	10
23	Customer Price Group	Code	10
24	Language Code	Code	10



General Communication Invoicing Payments Shipping Foreign Trade

No. . . . . 11121212

Name . . . . . Spotsmeyer's Furnishings

Address . . . . . 612 South Sunset Drive

Address 2 . . . . .

Post Code/City . . . . . US-FL 37125 Miami

Country/Region Code . . . . . US

Phone No. . . . .

Primary Contact No. . . . .

Contact . . . . . Mr. Mike Nash

Search Name . . . . . SPOTSMYER'S FU...

Balance (LCY) . . . . . 0,00

Credit Limit (LCY) . . . . . 0,00

Salesperson Code . . . . . JM

Responsibility Center . . . . .

Service Zone Code . . . . . X

Blocked . . . . .

Last Date Modified . . . . . 09.06.08

# Table x->Table y relations

01121212 Spotsmeyer's Furnishings - Customer Card

General Communication Invoicing Payments Shipping Foreign Trade

No. 01121212 Search Name. SPOTSMYER'S FU...

Name Spotsmeyer's Furnishings Balance (LCY) 0,00

Address 612 South Sunset Drive Credit Limit (LCY) 0,00

Address 2

Post Code/City **US-FL 37125** Miami

Country/Region Code US Salesperson Code JM

Phone No.

Primary Contact No.

Contact Mr. Mike Nash Responsibility Center Service Zone Code X

Blocked Last Date Modified 09.06.08

Customer Sales Functions Help

Post Codes

Code	City
UG-KLA	Kampala
US-AL 35...	Birmingham
<b>US-FL 37125</b>	Miami
US-GA 31...	Atlanta

X= Customer  
Y=Post Code

✓	84 Fax No.	Text
✓	85 Telex Answer Back	Text
✓	86 VAT Registration No.	Text
✓	87 Combine Shipments	Boolean
✓	88 Gen. Bus. Posting Group	Code
✓	89 Picture	BLOB
✓	<b>91 Post Code</b>	<b>Code</b>
✓	92 County	Text

CRONUS CZ s.r.o. - Microsoft Dynamics NAV - [Table Relation]

Table	Field
Post Code	

CRONUS CZ s.r.o. - Microsoft Dynamics NAV - [Post Code - Properties]

DateFormula	<No>
ValuesAllowed	<>
SQL Data Type	<Undefined>
<b>TableRelation</b>	<b>"Post Code"</b>
ValidateTableRelation	No
TestTableRelation	No



Balance, Payments,..

# Business Case Principles

Customer table

Sales Entry in database  
(Type Invoice)

Sales Order  
Header

F11

Item Chair 4 pcs 30 EURO

Item Table 1 pcs 100 EURO

Item Table

Item Table

Availability, Costs,...



Entries in General Ledger



Item Ledger Entries  
in database  
(Types Sales)





If I'd known  
I was going  
to live this long  
I would have taken  
**MUCH** better  
care of myself.