

* **Tasks, problems and
real South African project**



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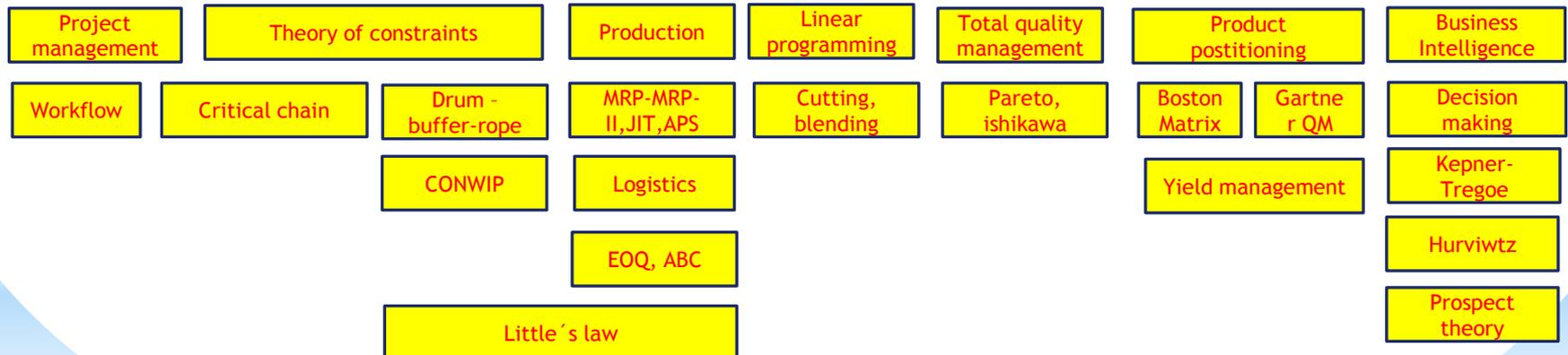


* **Methods** (not sorted so far - was already presented in OM Introduction show)

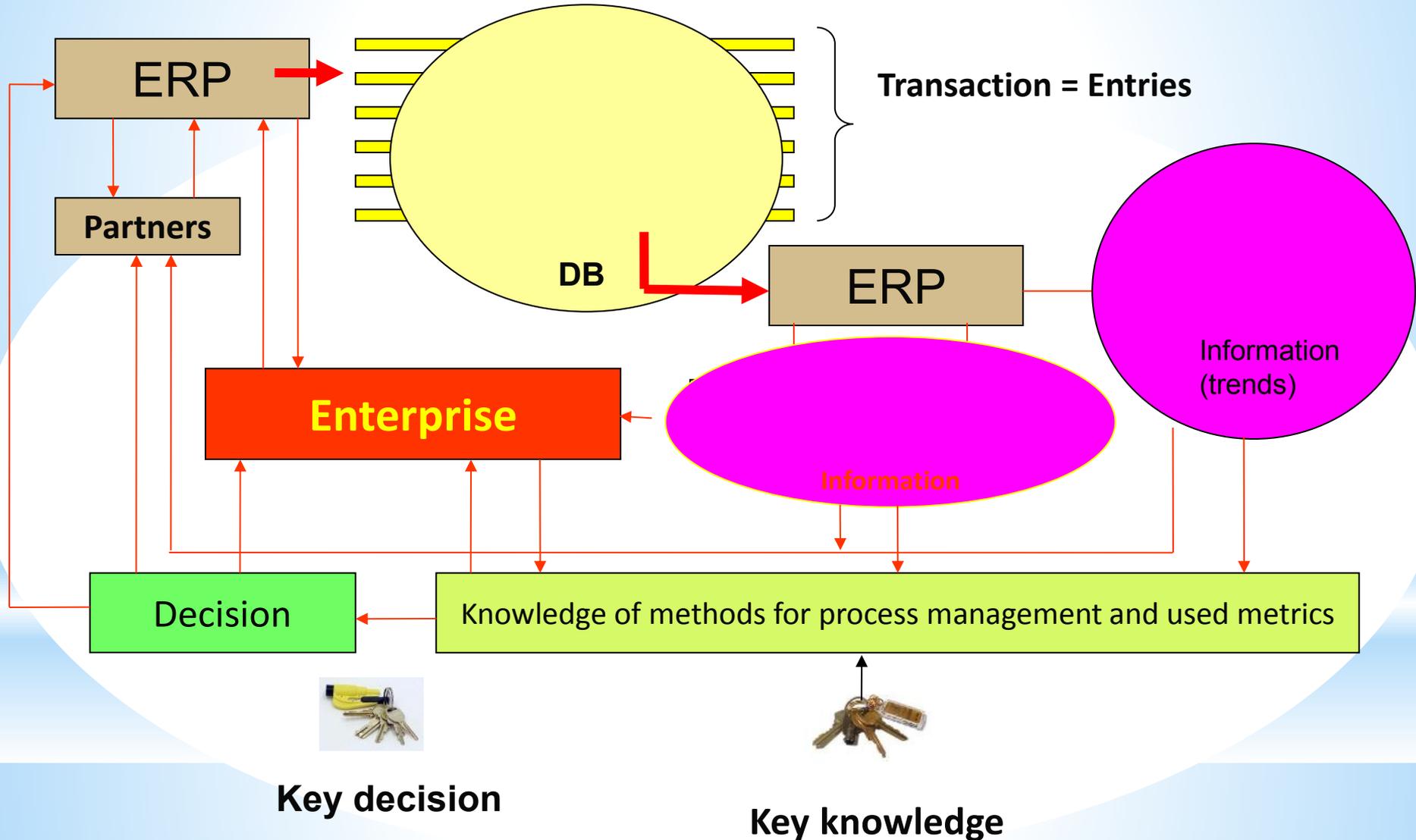
- * **Theory of Constraints**
- * Critical Chain (DBR)
- * Ishikawa Fishbone Diagram (Total Quality Management)
- * Pareto Analysis , ABC, EOQ, Six Sigma and Ishikawa
- * OLAP (On-Line Analytic Processing)
- * Kepner –Tregoe methodology
- * MaxMax and MaxMin (Hurwitz)
- * SWOT, BOSTON and Gartner Magic matrices
- * **ERP Statistics and Reporting**
- * Little’s law
- * Yield Management
- * **Forward Exchange Contracts**
- * Balanced Scorecard
- * Production algorithms (MRP,MRP-II, JIT,APS)
- * **Warehouse Management advanced methods –see slide 20**
- * And many, many more.....

Methods marked
by **red colour**
were used

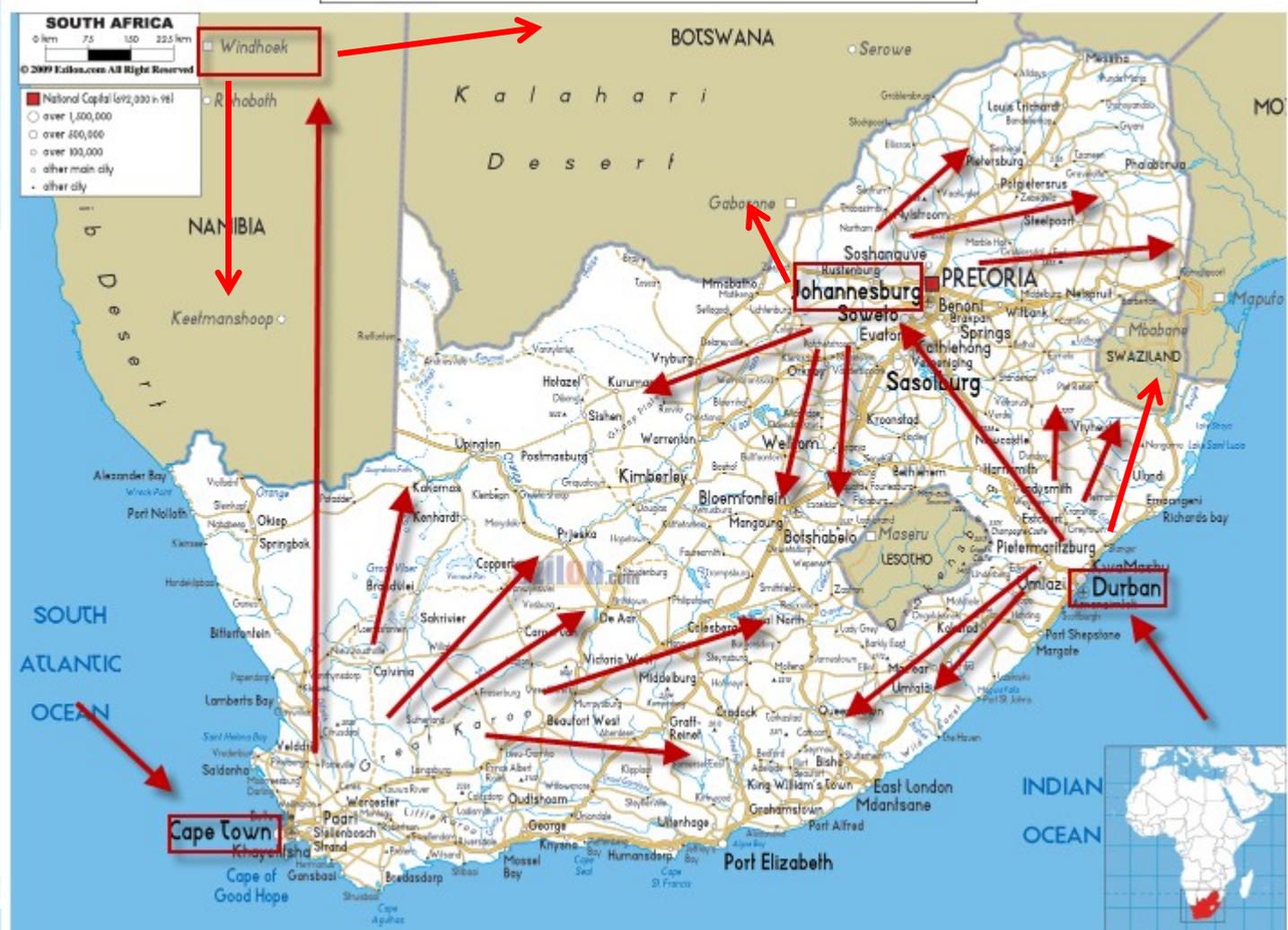
BS and OM - slide from Balanced Scorecard show (will be presented again in BS context)



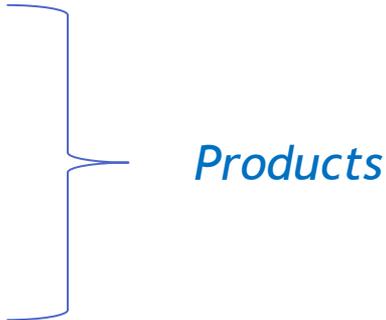
* Simplified diagram of ERP usage



* Wholesale-paper-warehouse management-ERP



Basic business specification

- * 100 000 Tones per Year
 - * *Carbonless papers*
 - * *Cast coated papers and Board*
 - * *Coated papers*
 - * *House brands*
 - * *Office papers*
 - * 5000 locations in HQ and 40 000 M2 warehousing space
 - * 50000 customers
 - * 90 vehicles
 - * FEC trading (Forward Exchange Contracts)
 - * Hundreds of employees
 - * Heterogeneous IT system with **every day synchronization** of data in HQ and subsidiaries
 - * High volume-low margin type of business
- 
- Products*

Basic requirement

- * One database only (MS SQL) for HQ and 3 subsidiaries
- * Modern IT technology ensuring :
 - * Fast access to data providing on-line information any time
 - * Easy upgrades
 - * Mobile technologies (BAR code readers,..)
 - * Quick response to business partner requirements
 - * Multidimensional analytic tool->reporting to support decision making process
 - * Efficient warehousing (inbound and outbound operations)
 - * On-line reporting (warehouse status, accounting, cost control,.....)

* Isolated Data Islands

Accounting Island



Marketing & Sales Islands



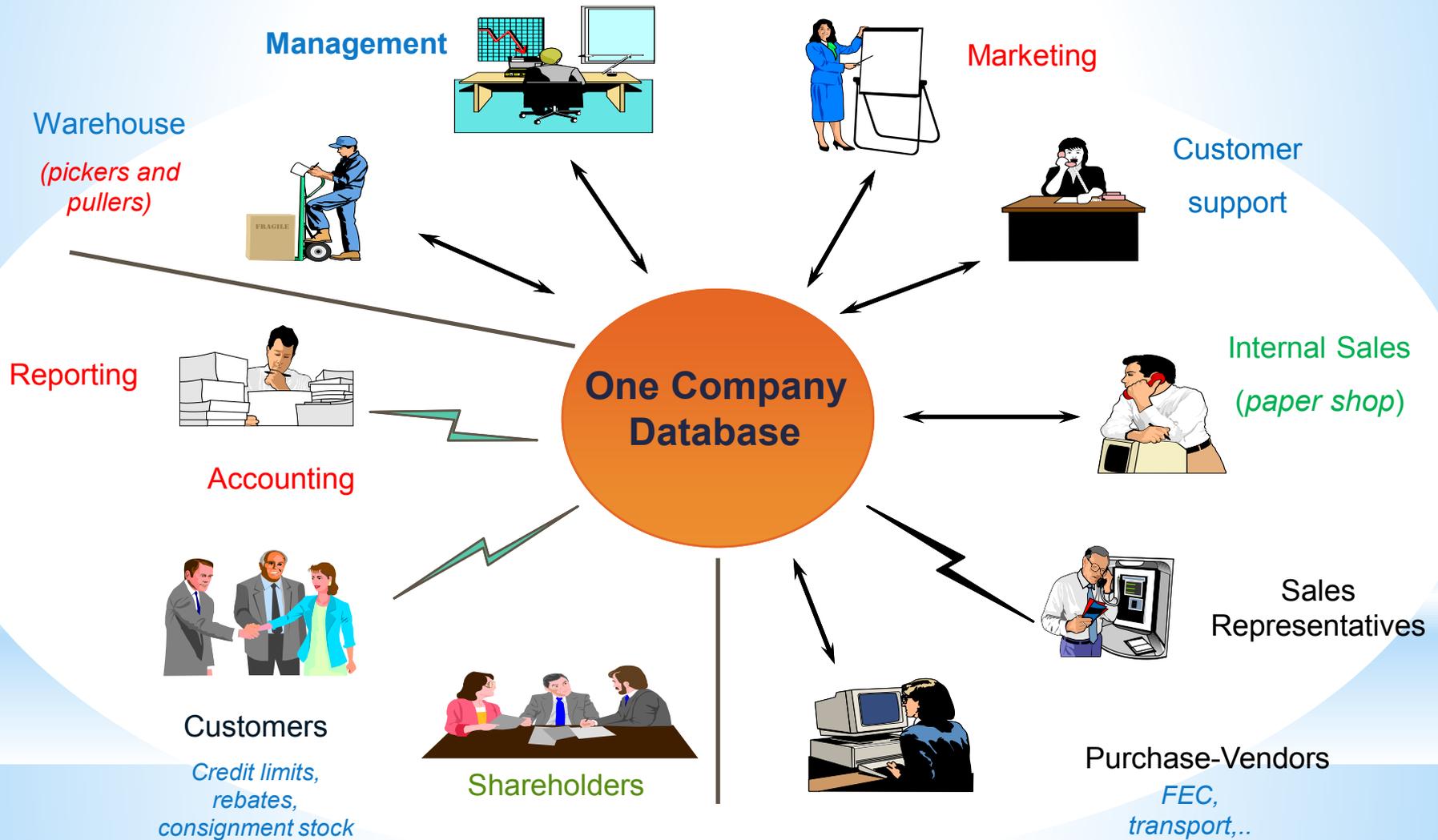
Island of Deliveries



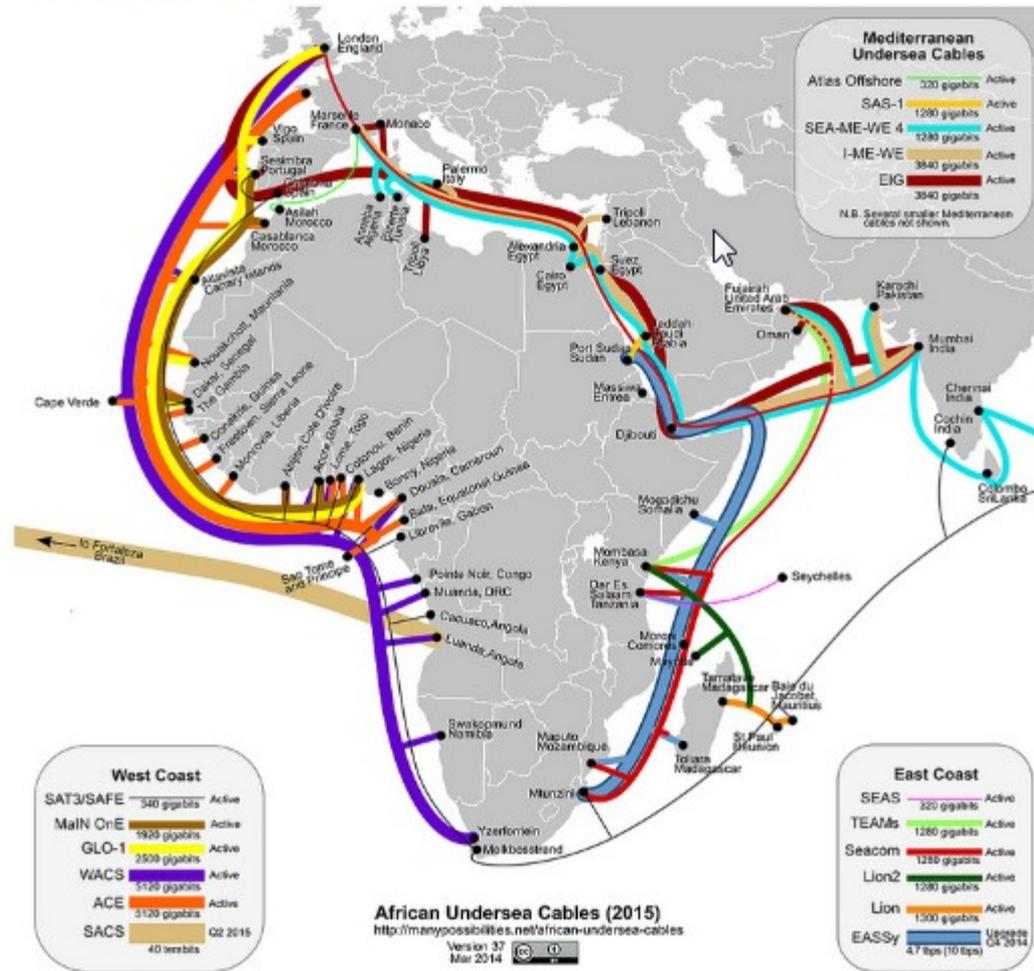
Quality Management Island



One Solution ● One Database ● All Microsoft



Communications limits (band width, stable connection...)

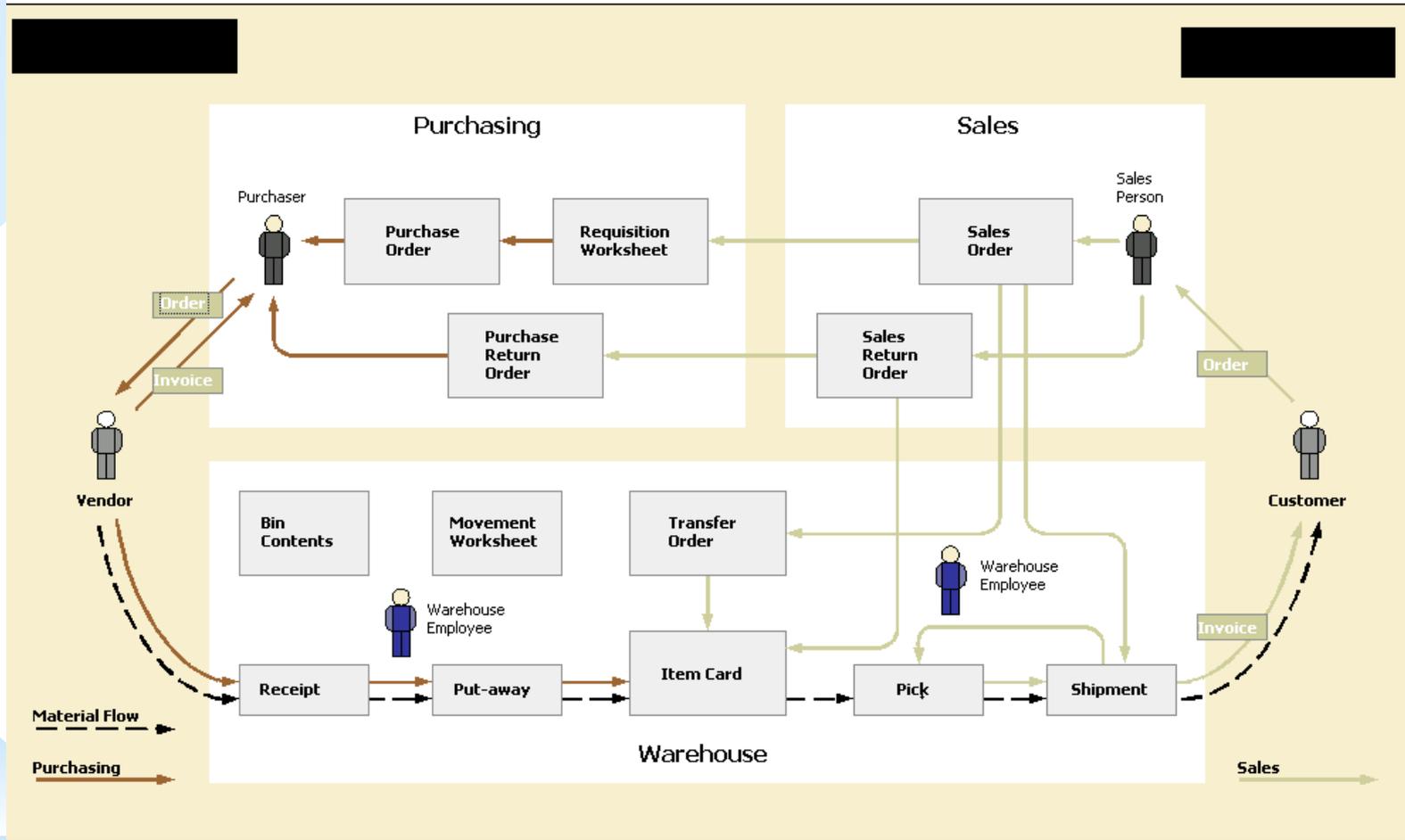


Efficient warehousing

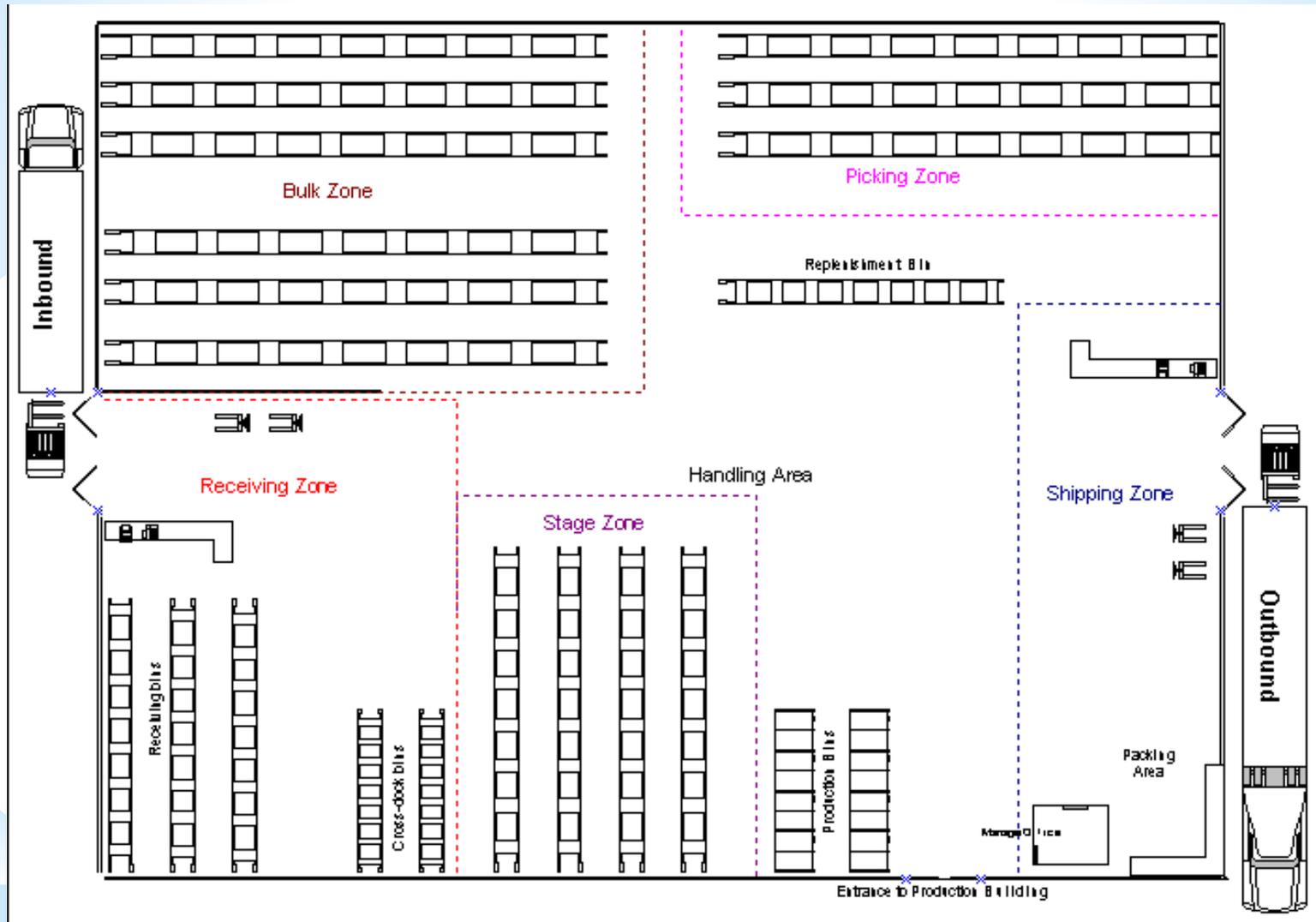
-(only a few examples)

- * Receipt bins (area where lorries are unloaded)
- * Put-away to bins (racks) based on zones definition
- * Capacities of the bins (racks) - (weight, size)
- * Cross docking (from inbound area directly to outbound area)
- * Transfer between location (HQ and subsidiaries)
- * Picking slips (from rack to shipment area)
- * Shipments area (bins, cages)
- * Transport planning
- * Credit limits and overdue payment check
- * Invoices, Credit memos,....
- * Claim management

*Warehousing



* Warehousing



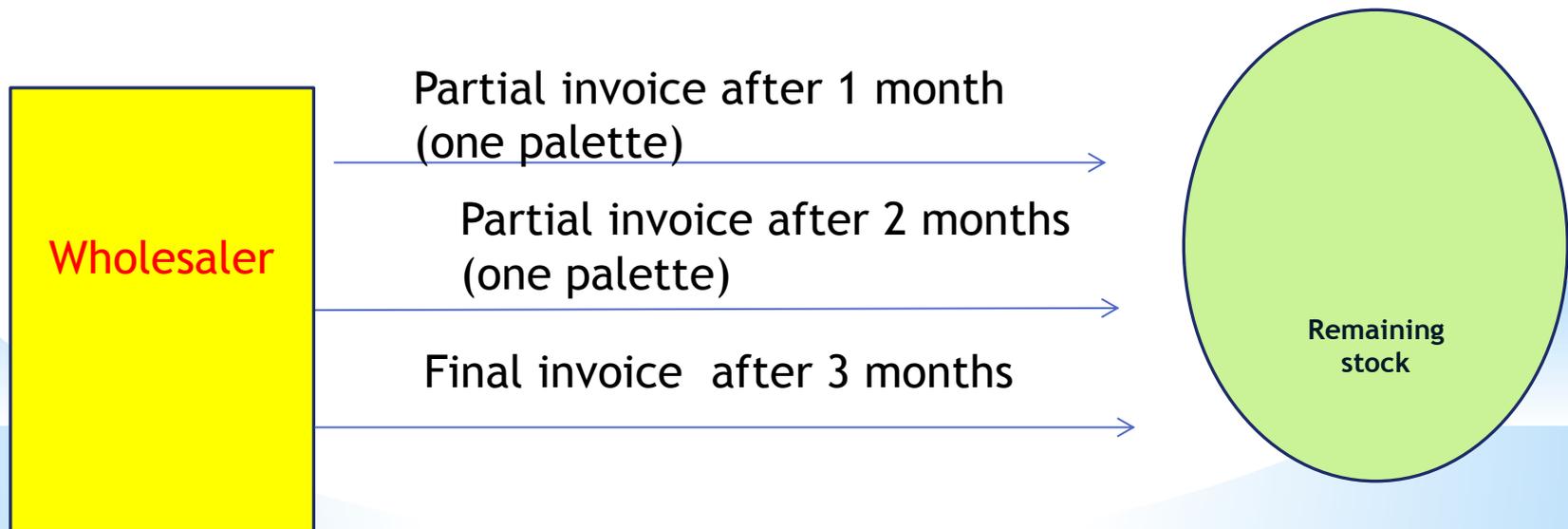
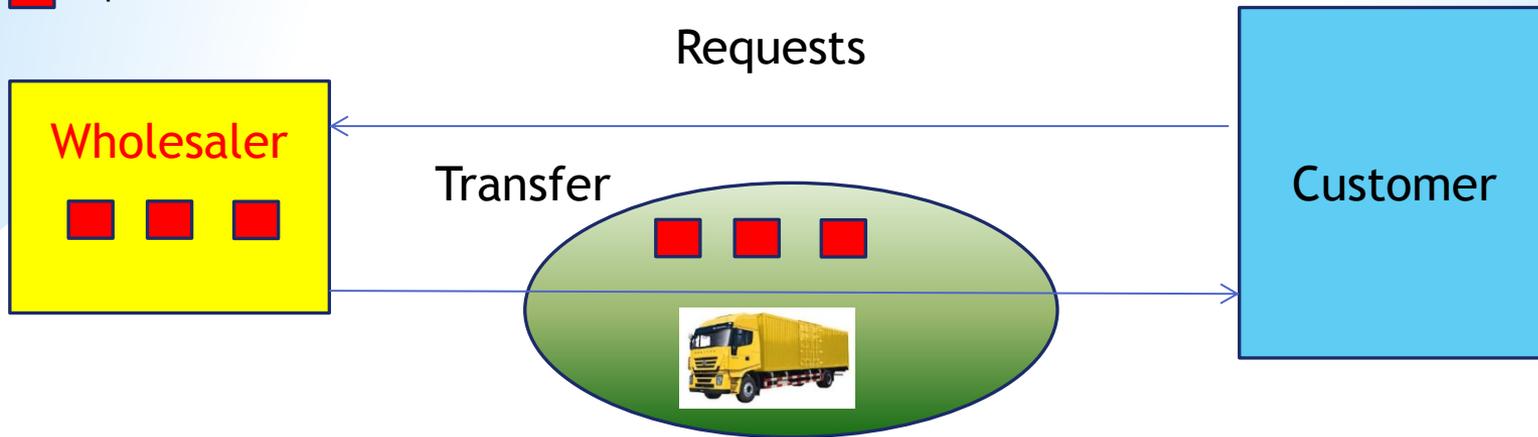


*Project management

- * Budget <-> Quote and contract
- * Planning of resources and task control
- * Planning tools - see following slides
- * Reporting (time-capacity usage, costs,...)
- * Change management
- * Project Risks
- * Consignment stock
- * CPM, PERT, CCPM - will be mentioned later

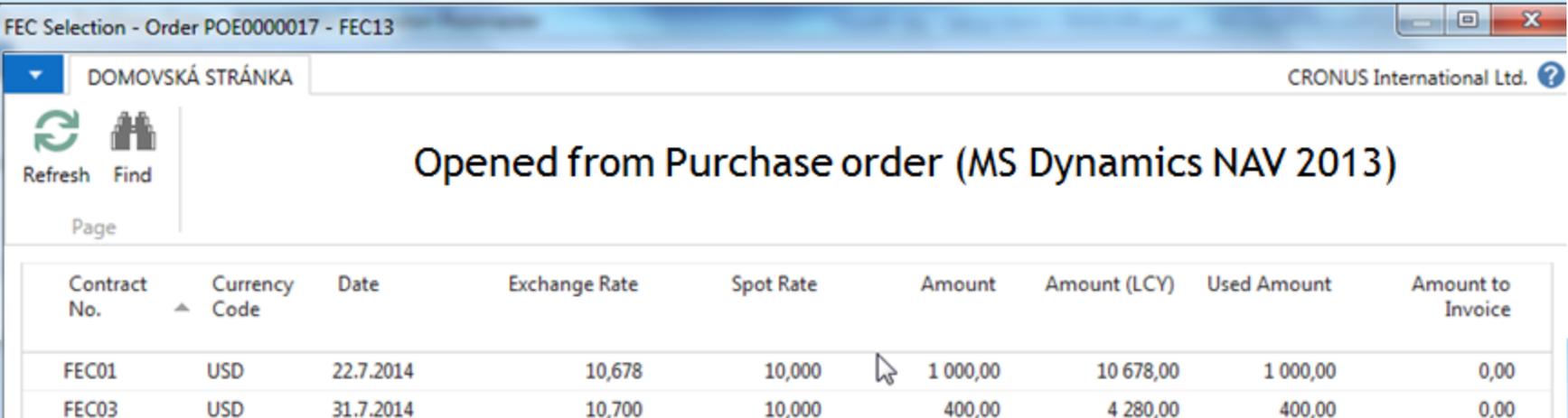
* Consignment stock (benefits)

 = palette



* Forward Exchange Contract (home study only)

A special type of foreign currency transaction. Forward contracts are agreements between two parties to exchange two designated currencies at a specific time in the future. These contracts always take place on a date after the date that the **spot** contract settles, and are used to protect the buyer from fluctuations in currency prices.



The screenshot shows a software window titled "FEC Selection - Order POE0000017 - FEC13". The interface includes a navigation bar with "DOMOVSKÁ STRÁNKA" and "CRONUS International Ltd." The main content area displays the text "Opened from Purchase order (MS Dynamics NAV 2013)". Below this is a table with the following data:

Contract No.	Currency Code	Date	Exchange Rate	Spot Rate	Amount	Amount (LCY)	Used Amount	Amount to Invoice
FEC01	USD	22.7.2014	10,678	10,000	1 000,00	10 678,00	1 000,00	0,00
FEC03	USD	31.7.2014	10,700	10,000	400,00	4 280,00	400,00	0,00

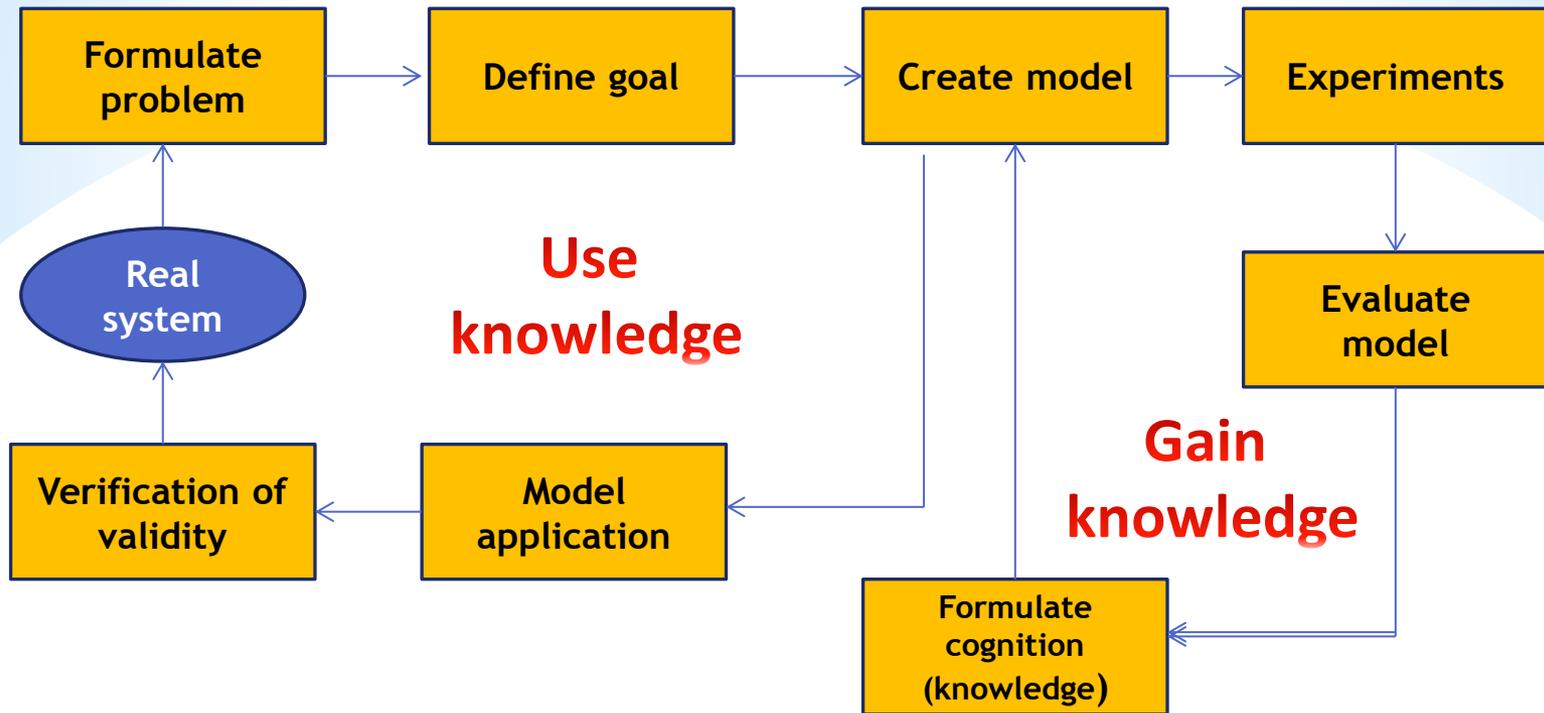
*Staff training

- *Study materials
- *Key users - roles, processes
- *Training :planning
- *Examination
- *Change management

*Project Management I.

- * Budget (financial and resource capacities)
- * Data transfers (old system -> new system)
- * Setup of the ERP system (MS Dynamics NAV)
- * Tests
- * Evaluation of customized solution
- * Change management
- * Sharp start
- * Closing project -evaluation

Steps in the model based problems solving process



* Implementation

- * Data transfer
- * Setup of the system
- * Role Tailored Clients- profiles, Approvals
- * Tests
- * Evaluation
- * Change management
- * Sharp start (Namibia and SA)
- * Closing project
- * Next stages

THIS IS

THE END