

### Pains and benefits

Miki Skorkovský, PhD. for Department of Business Economics ESF MU

- Pain
- Pain and vision distinction
- Searching for the pains depends on :
  - market segment
  - size of the company
  - ownership
  - position in SCM
  - position of the person

dormant (latent) pain: it exists, but it is

not presumed





'Dr. Livingstone, I presume?'

**Example:** collecting money late, paying to early ->crippled cash-flow

- real pain
  - a real pain (lack, deficiency, shortage),
    which are wittingly admitted by the customer

**Examples:** high value of the stock, due date performance is low, laborious and not exact calculation of production cost...

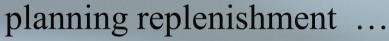


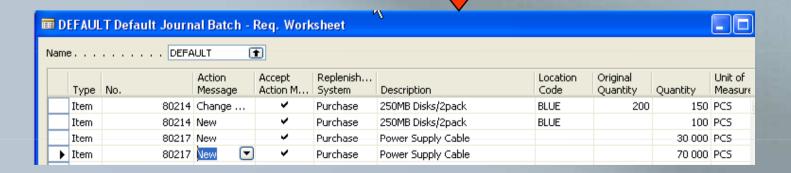




particular (tangible) idea of the pain killer

Example: use of a good algorithm for replenishment



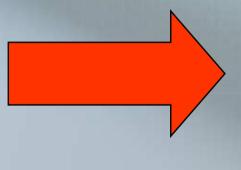


## Creation of the pain chain

- General pain: difficult analysis reports from existing data
- CEO view: owners push me hard every week to supply results
- Inventory manager : I cannot optimise manipulation movement
- IT manager: to get right data in right time I must transfer and modified a lot heterogeneous data in takes time and I am overloaded

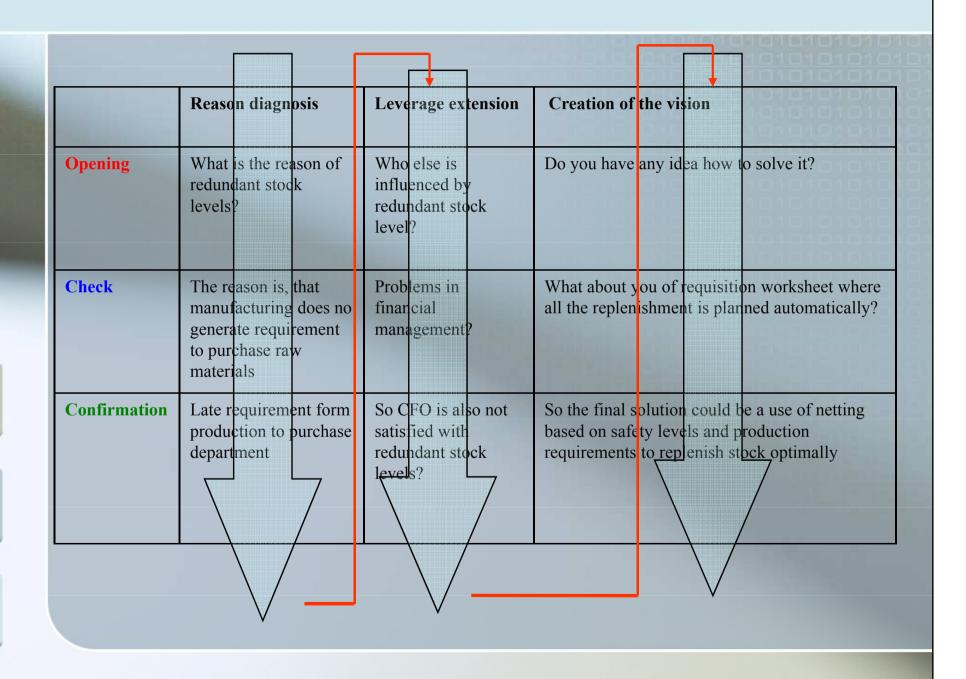
- what is the reason for the change (buying)?
- what do you expect for the new solution?
- reason for investment to the solution?
- what do you think will be improved the most?







### Ceation of the vision



### Pains in the information processing

- All what any competitors is doing could be easily copied anywhere all over the world (e.g. china)
- You cannot duplicate culture (organization system, the way you manage people and relationship to information)
- The unique enterprise is specified first and foremost by access and links the people and information
- Work on computer is not the same as a work with information !!

# Learning to think...



#### Indian Institute of Technology (IIT)

- 300 000 people sit for entrance exams
- 5 000 admitted (acceptance rate (AR) of 1,7 % compared to Harward, Yale and Princeton, where they have AR 9-10 %)

#### IIT has

- mediocre equipment
- indifferent teachers
- unimaginative class work
- the quality of education remains extremely poor and many students leave the country to get trained abroad
- India PhD. in Computer Science per year : 35 50
- USA PhD. in Computer Science per Year: 1000

Resource: Fareed Zakaria (The Post American Word)

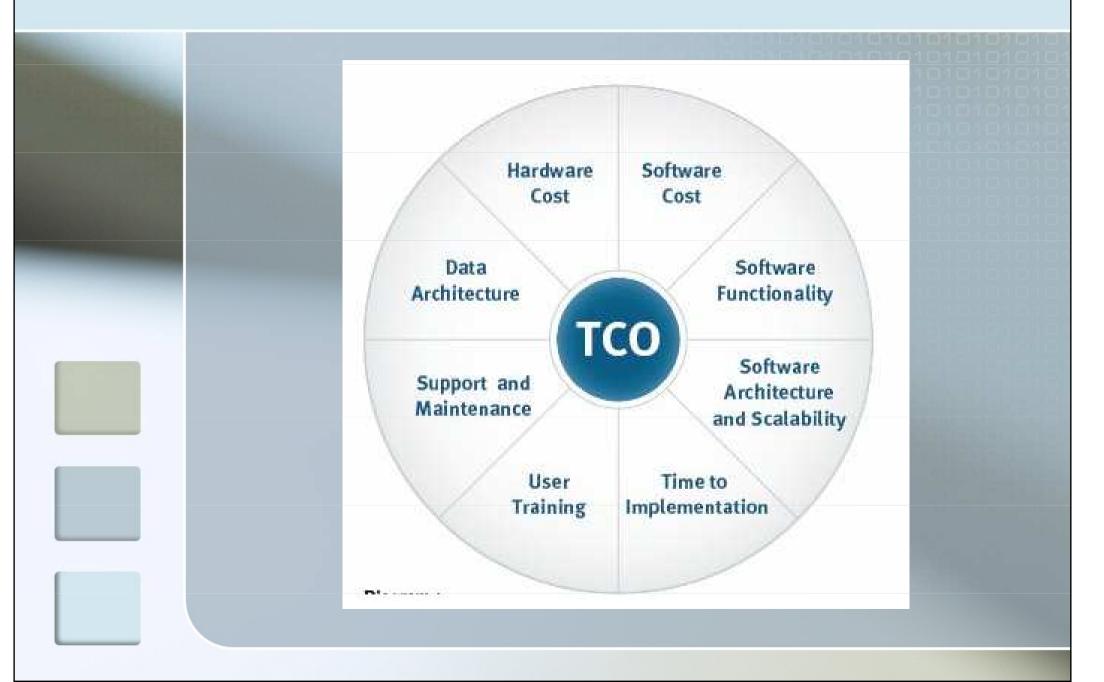
### Pains in the information processing

- manual /batch processing
- BAR code reader
- heterogeneous databases
- Homogeneous databases, XML ports,...
- uncertain information
- on-line data processing, automatic data integrity checking
- errors
- Total quality management (to avoid errors in the future)

### Pains in the information processing

- shaky system
- Transaction processing, stable DB, automatic backup
- difficult implementation of add-ons, customization and upgrades
- Tools for upgrade top object oriented development tools
- complicated way of system usage
- Standard commands for every application –unique user environment
- too much IT managers
- Modern ERP requires less of standard IT guys and more IT guys understanding methods used to control enterprise processes
- High price/ low system performance
- Long term TO (Total Cost of Ownership)





#### Pains in the financial management (accountancy)



- late access to information, difficulties in finding the reason why any entry (transaction) was created
- Navigation functions, workflow, dimension, Business Analytics, ...
- comparing actual and expected is a foolish dream only
- Budget functionality, On-line data...
- difficulties in of applying (invoices<->payments)
- Functionality allowing manual or automatic apply using unique entry numbers and possibility easily un-apply recently wrongly applied entries

#### Pains in the financial management (accountancy)



- difficult analysis of the customer or vendor balances
- Flow field (calculated fields)
- unconvincing repairs of wrongly posted documents
- Necessity to generate corrective documents
- futile / doubled operations
- Integrated database- every record is written only once
- unequal load of the users during the period of one month
- Ontinuous accounting decrease of number of the accountants and less stress during closing at the end of every period

#### Pains in the financial management (accountancy)



- out-of-date information
- CRM directly connected of Sales, Purchase and Inventory
- processes such are Sales, Inventory, Manufacturing, Purchase and Accounting are not connected
- All above mentioned processes are connected
- out of date or wrong information about customers
- Questioners evaluation of their profiles, connected to Sales
- rigidity of sales processes
- Tracking of the business opportunities, tasks and activities and follow up procedures
- difficult substitutability of sales people
- Work flow and better and flexible access to the information
- no e-Shop
- Integration with Outlook, e-Shop application, B2B, B2C, document management

#### Pains in the manufacturing processes



- processes such as Sales Inventory-Production- Accounting-Purchase are not connected internally
- Function Order tracking and Dynamics action tracking see later
- lack of information about Work In Progress
- Automatic posting of 2140 (121|611 in Gech legislation)

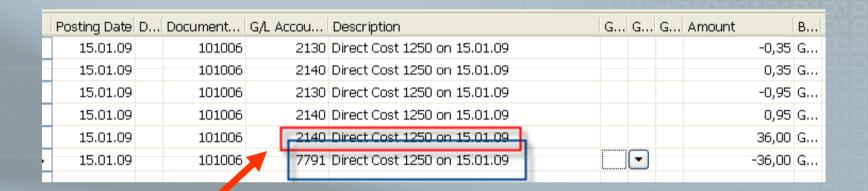


- lack of actual cost information
- Good calculation setup, tracking of indirect costs see value entries



### **WIP**



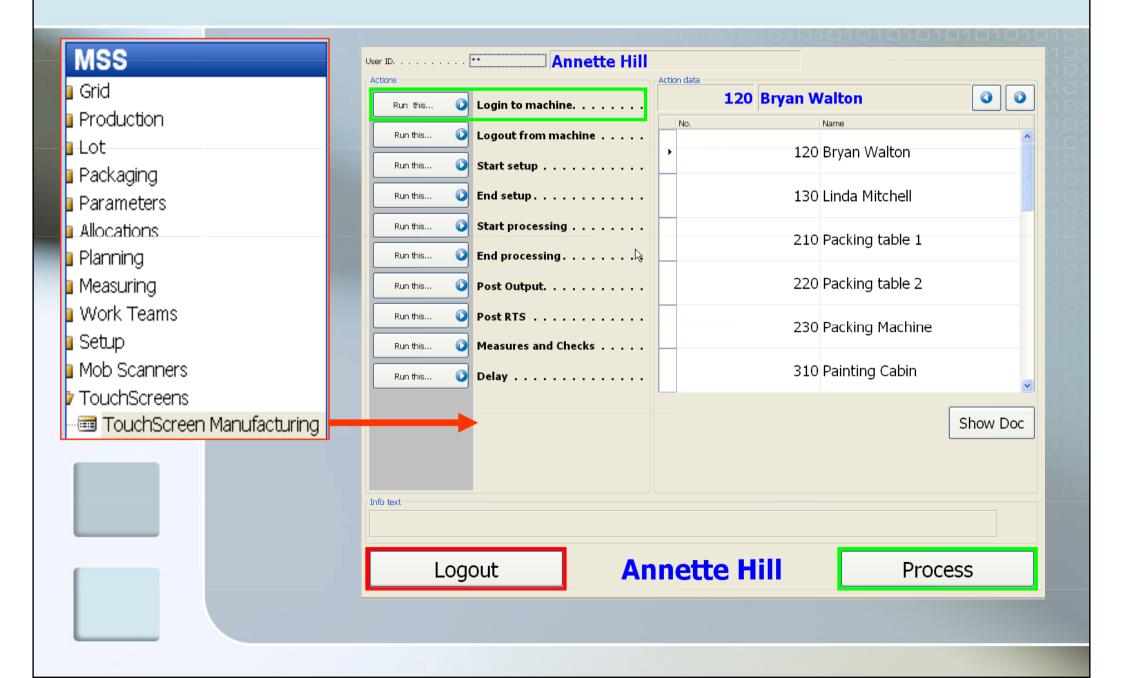


No.	Name	I A Totaling	G  G  G	Net Change Balance	
2140	WIP Account, Finished goods	B P		37,30	37,30

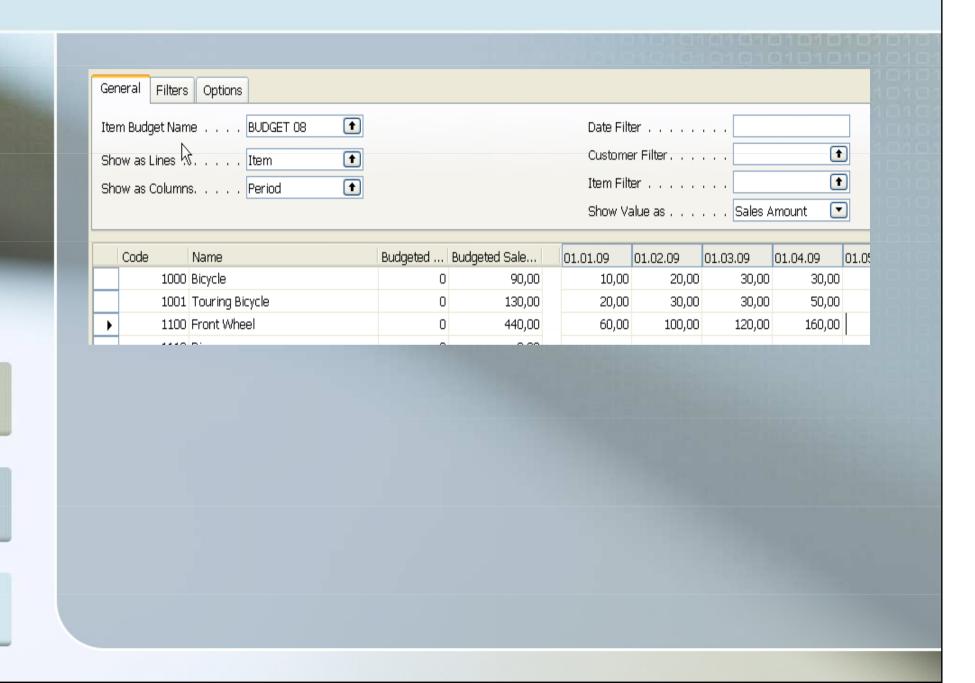
#### Pains in the manufacturing processes

- useless manual work spent to issue documents
- Automatic Data Capture, XML data ports, PDA, touch screens
- difficult planning/ changes in production
- MPS (Master Production Schedule), MRP-II, JIT and direct link to sales and production orders for direct planning from sales orders (netting), manual MRP, automatic suggestion of replenishment and automatic issuing of purchase orders
- difficulties in subcontracting management
- Subcontracting worksheet in MS Dynamics
- constrained capacities of resources in production
- Graphical planning tools, TCCapplication

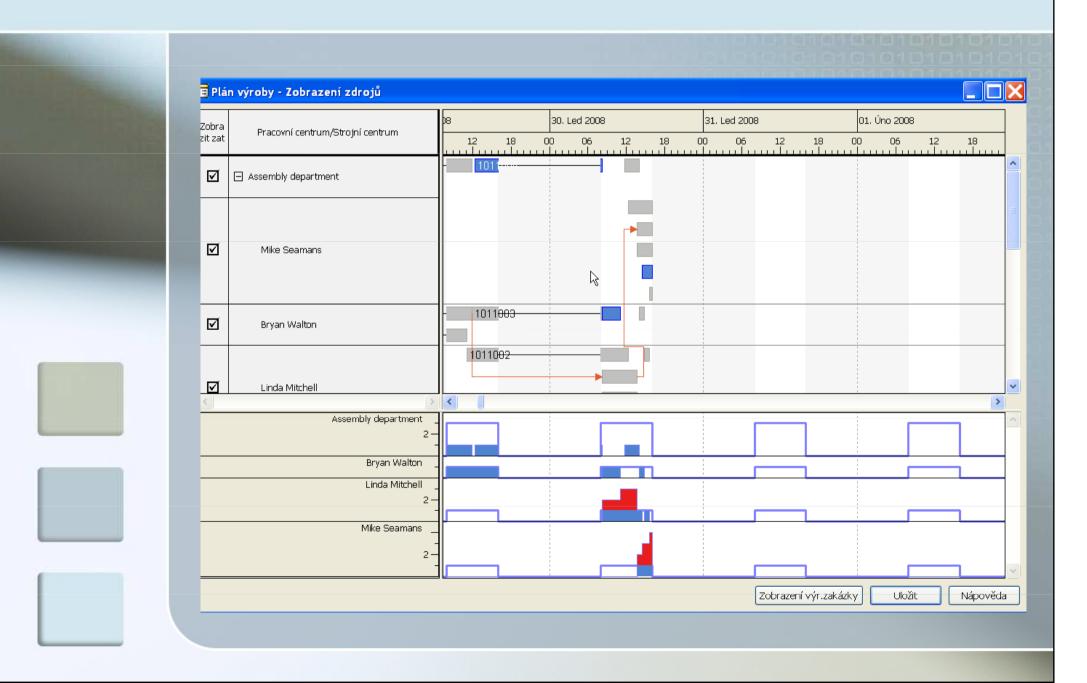
### Touch Screen application



### Master Production Schedule



## Graphical planning



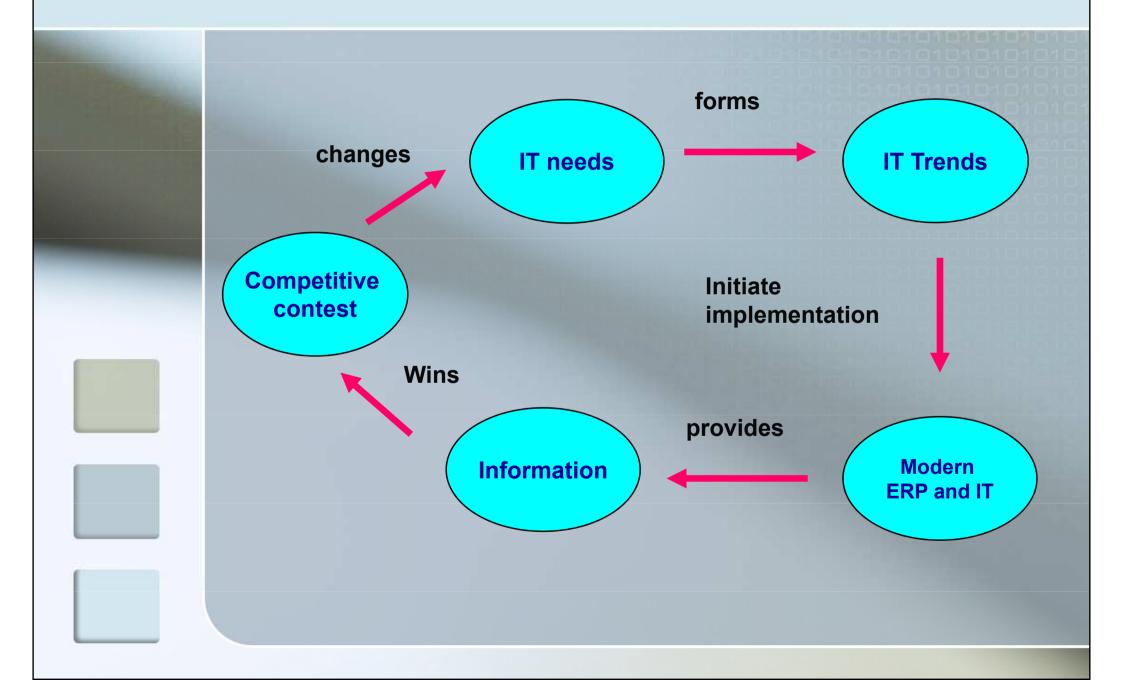
#### Pains in purchasing and inventory

- Processes such as Purchase-Inventory-Production-Accounting are no connected internally
- Dynamic tracking
- A huge volume of stock (value , quantity)
- Use of appropriate reordering policies, properly setup of safety stock, netting, prognosis (forecasts)
- Purchase is not flexible
- EDI, automatic price generation, use of substitutions and cross references
- Insufficient information about vendors
- RM
- Futile purchases/payments
- Workflow and operation approve, netting, use of modifiers on the Item card
- Difficult stock (inventory) management in different places
- Use of location, bins and responsibility centers

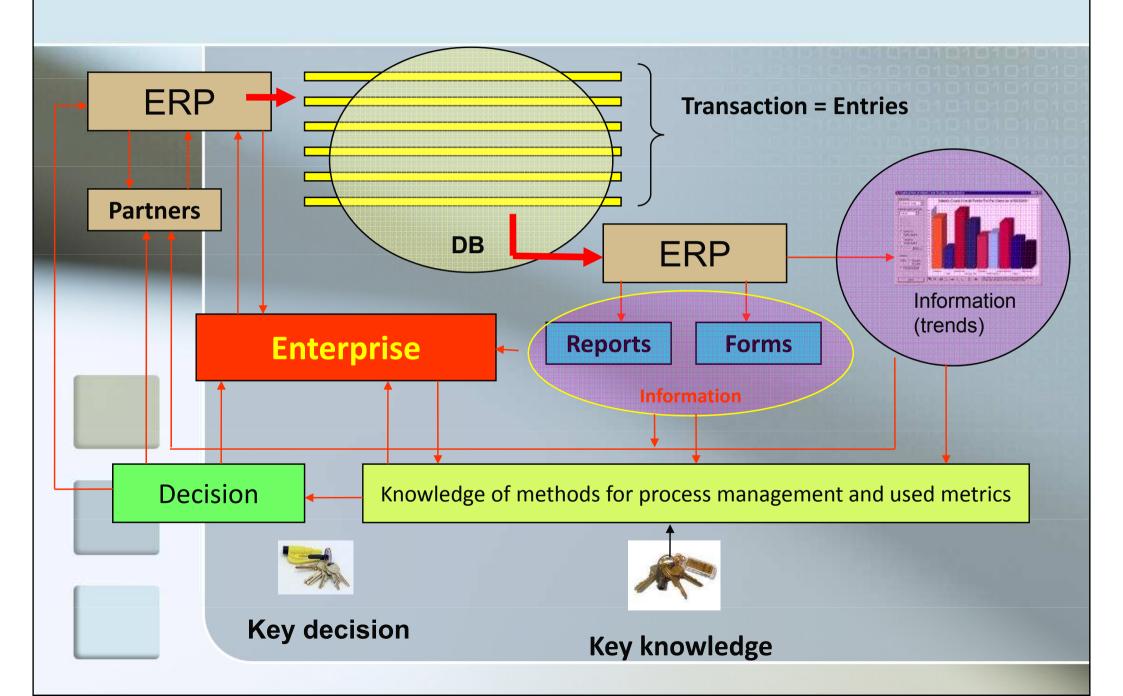
### Bolesti ve skladu a v nákupu

- Not even workload of purchasers
- RM, activities, tasks, business opportunities, priorities
- E-Shop does not work or such a solution does not exist
- Biz Talk
- Difficulties in item tracking (lots, serial numbers, warranty expiration)
- Item tracking functionality of MS Dynamics
- Virtual stock (O catalogues) does not exist
- Non-stock Items functionality

### Implementation cycle



### Simplified diagram of ERP usage



#### **Others**

- Change log
- Inter-company posting (More companies)
- Business Notification
- Menu modified by users e
- Responsibility centres
- User Portal Internet / Intranet
- 6mmerce Portal B2C
- 6mmerce Gateway B2B
- OLAP + Business Analytics