

Pains and benefits

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- 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

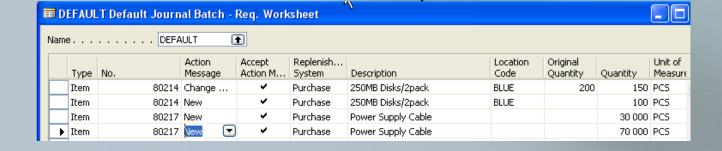
Examples: high value of the stock, due date performance is low, laborious and not exact calculation of production cost...





- vision
 - particular (tangible) idea of the pain killer

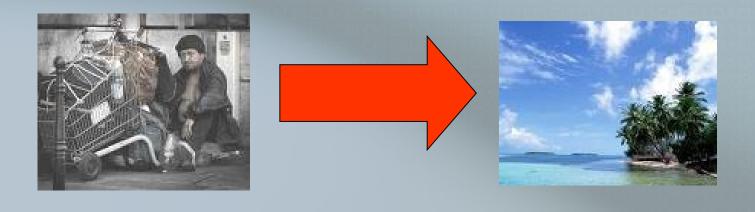
Example: use of a good algorithm for replenishment planning replenishment ...



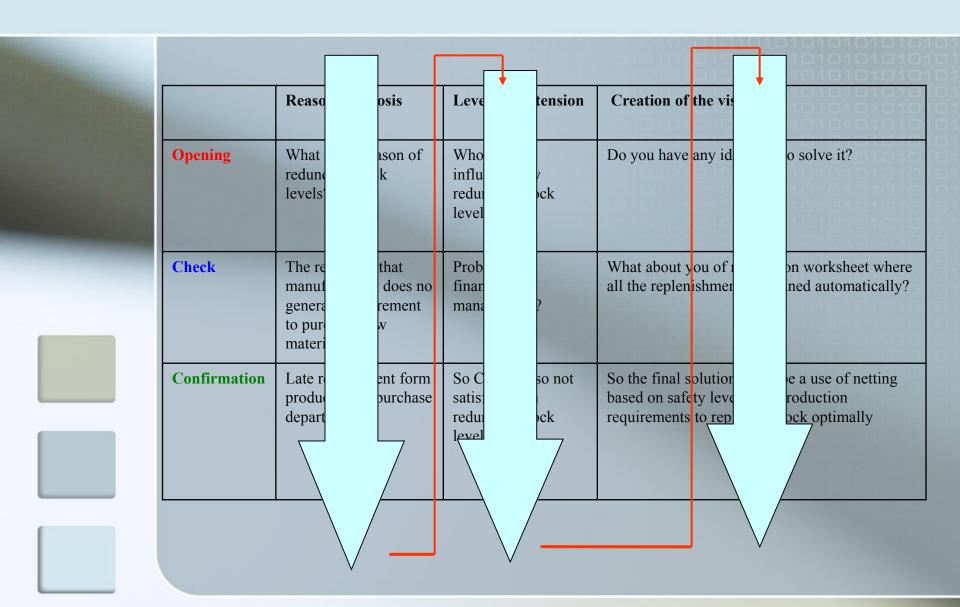
Creation of the pain chain

- **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?



Creation 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 backups
- 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 TCO (Total Cost of Ownership)

TCO



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
- Continuous 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



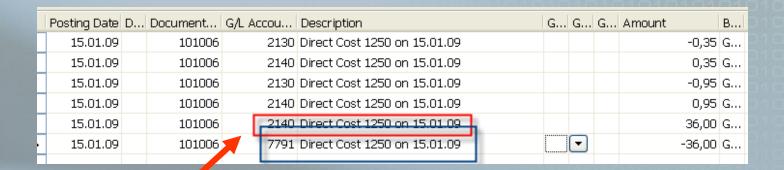
- processes such as Sales Inventory-Production- Accounting-Purchase are not connected internally
- Function Order tracking and Dynamics action tracking see later
- lack of information about Work In Progress
- Automatic posting of 2140 (121|611 in Czech legislation)
 - See next slide

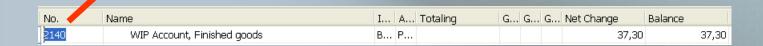
- lack of actual cost information
- Good calculation setup, tracking of indirect costs see value entries



WIP



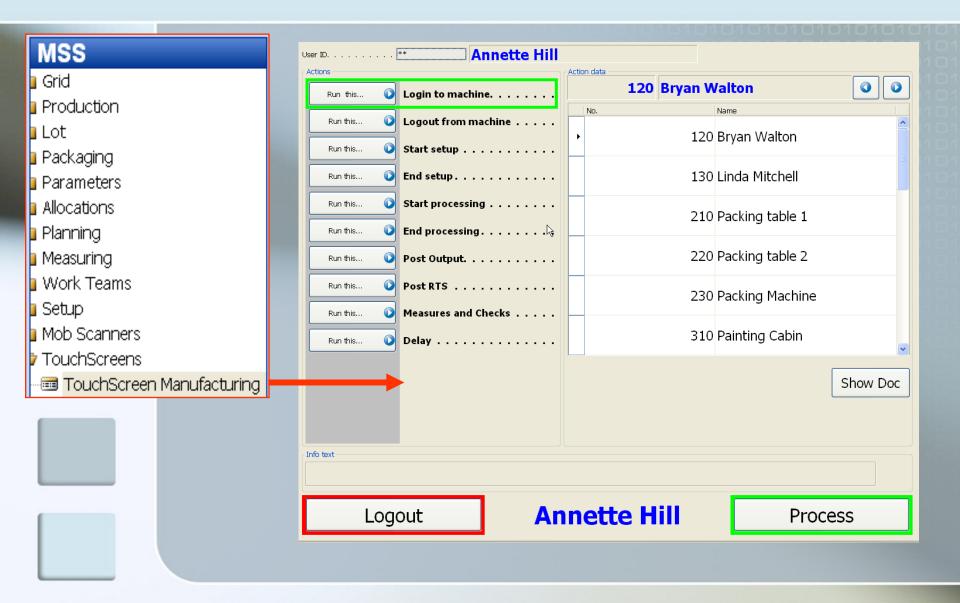




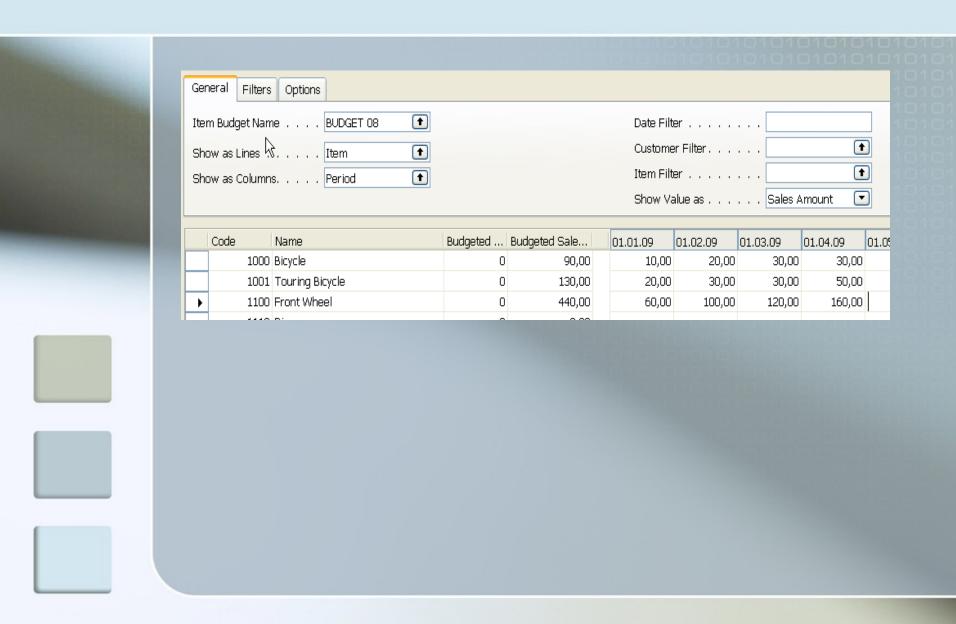
Pains in the manufacturing processes

- 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, TOC application

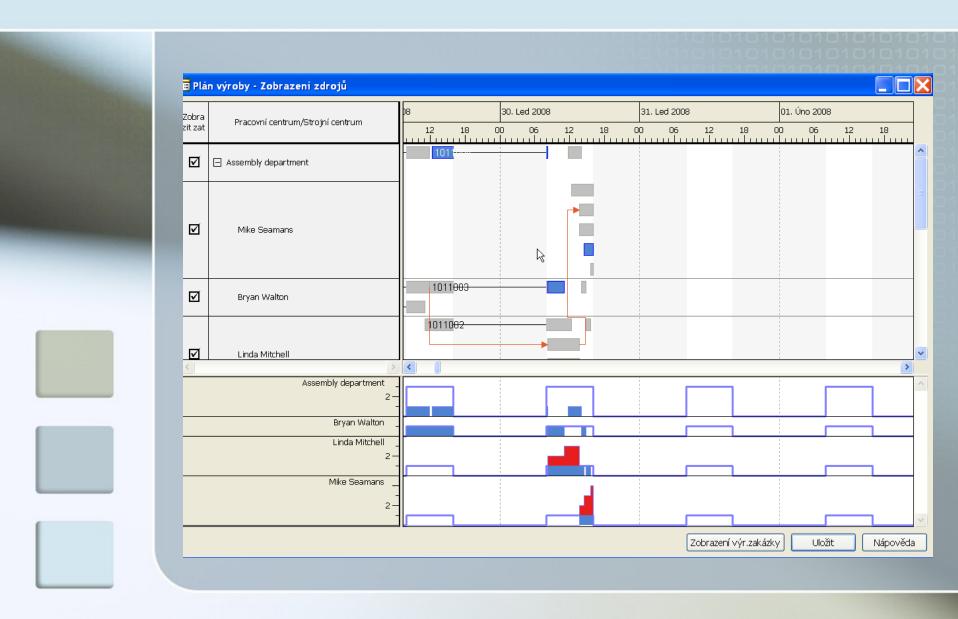
Touch Screen application



Master Production Schedule



Graphical planning



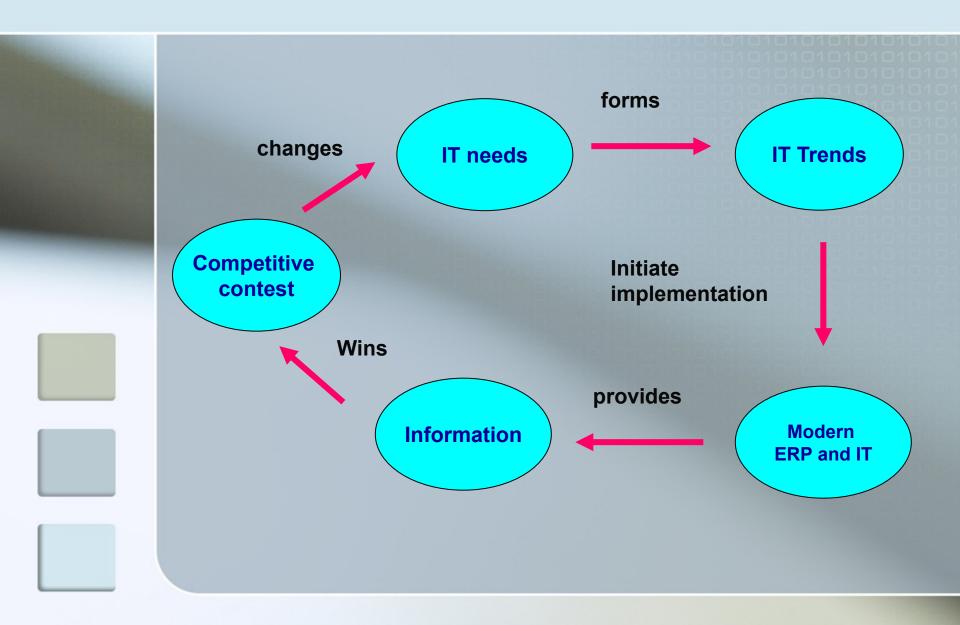
Pains in purchasing and inventory

- 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
- CRM
- 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

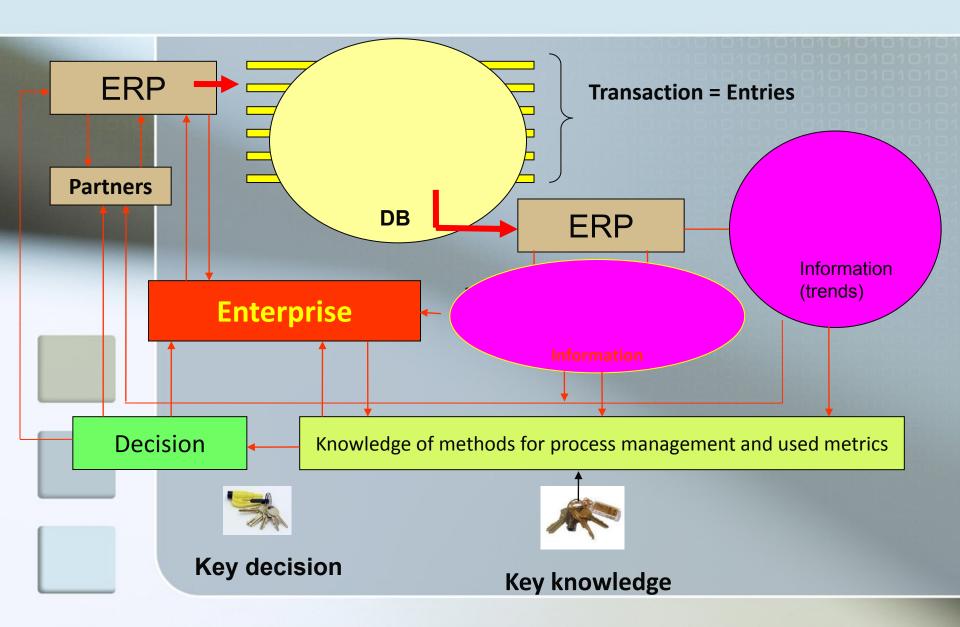
Bolesti ve skladu a v nákupu

- Not even workload of purchasers
- CRM, 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 (CD 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
- Commerce Portal B2C
- Commerce Gateway B2B
- OLAP + Business Analytics