ENTERPRISE PROJECT MANAGEMENT (EPM) WORKSHOP CHAPTER 2: DESIGNING YOUR EPM ENVIRONMENT

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SECTION 2 ESTABLISHING YOUR EPIM REQUIREMENTS

Problem/Solution

- All too often, consultants are called and asked to implement a project software "solution"
- □ A prospective client lists features, functionality, reports and even the tool to be used
- This, however, is a description of the solution, not the problem to be solved
- ☐ A remarkably small percentage of clients ever articulate what business problem implementing epm will solve

Problem/Solution

- If you can't articulate your problem, the "solution" will likely never satisfy you
- The result of not being able to identify the business problem in epm? An unacceptably high percentage of dissatisfied clients
 - Cause: Insufficient management of expectations
 - Implementation of a system with little notion of what is must accomplish
 - Insufficient management support of culture change

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Determining system requirements

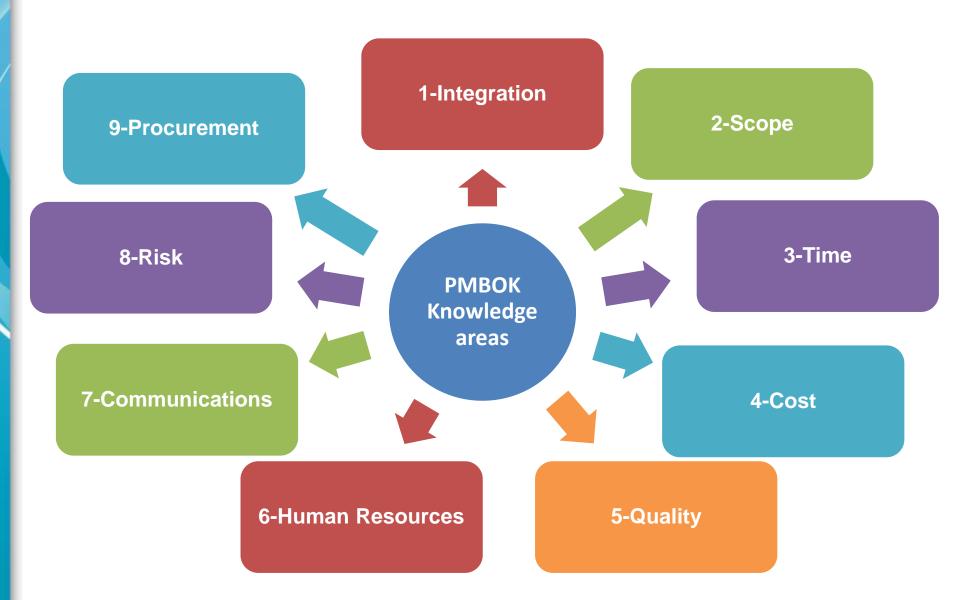
- If you are going to start generating system requirements, you have to start off with asking:
- What is the problem?
- What are the business decisions you need to make from this system?
- Who needs to make those business decisions?
- When do those business decisions need to be made?
- What other systems will this system provide data for that will result in further business decisions?

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Identify Business Objectives

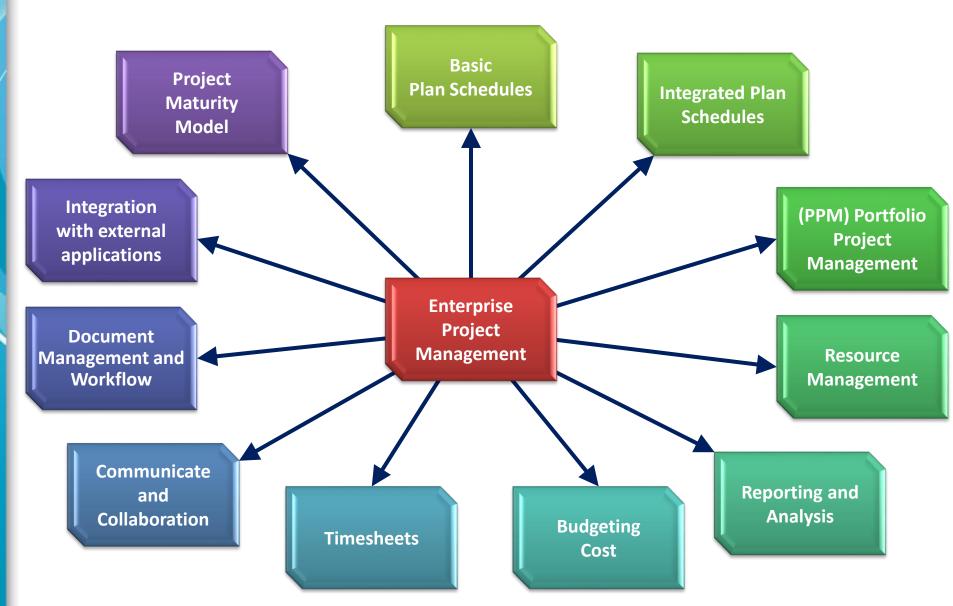
- Executive and Stakeholder workshops
- Identify management role impact
- Prioritize business objectives and create a Master Deployment Plan
- Establish milestones and metrics

PMBOK knowledge areas



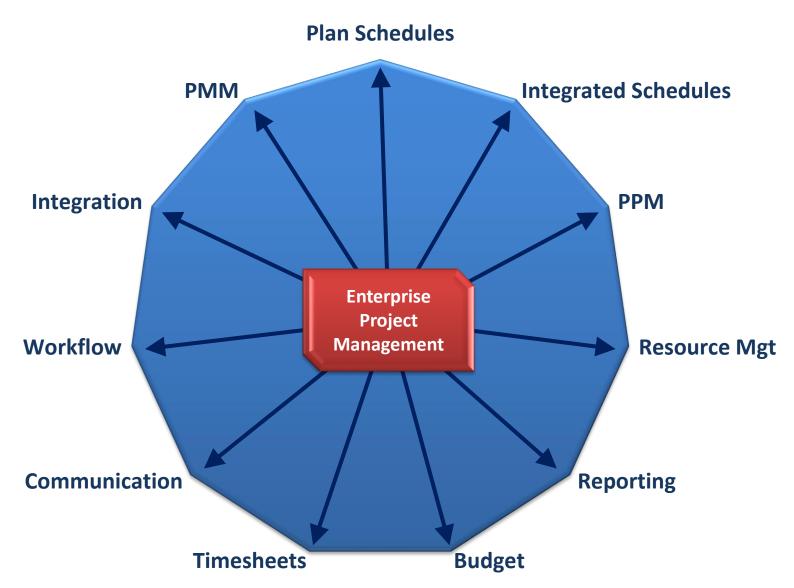
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EPM Categories



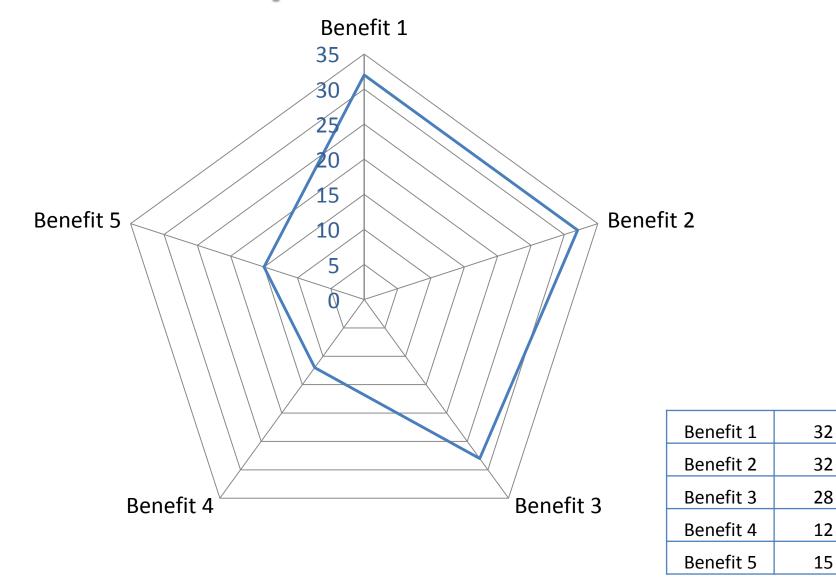
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The EPM Value Envelope



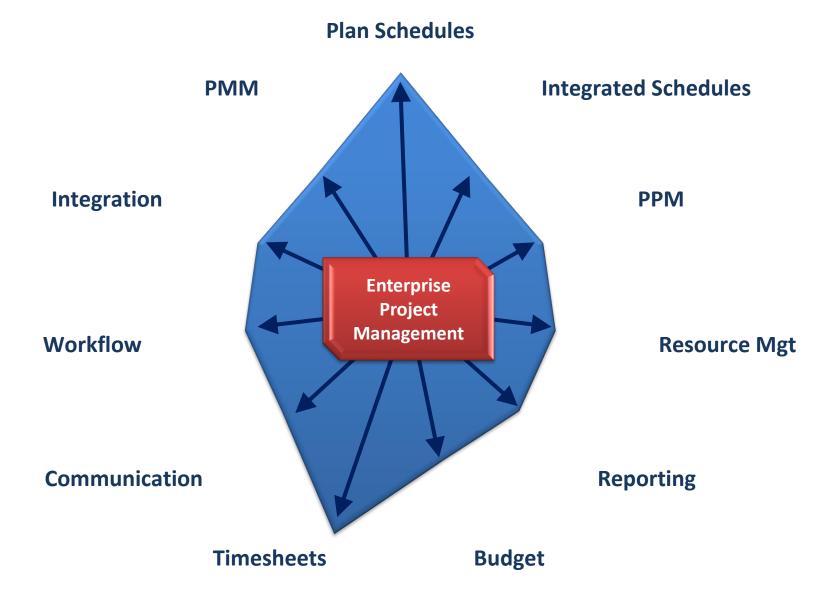
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The Radar Report?



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EPM Evolving Value envelope



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Return on Investment

- For each element of epm you should consider the ROI:
 - What benefit will implementing this facet of epm do we expect to receive?
 - What will be the cost in effort and resources to accomplish this facet?
 - What will be required to deliver this facet including: data elements, procedural change etc.
 - What alternatives are there to creating the same output (including manually)

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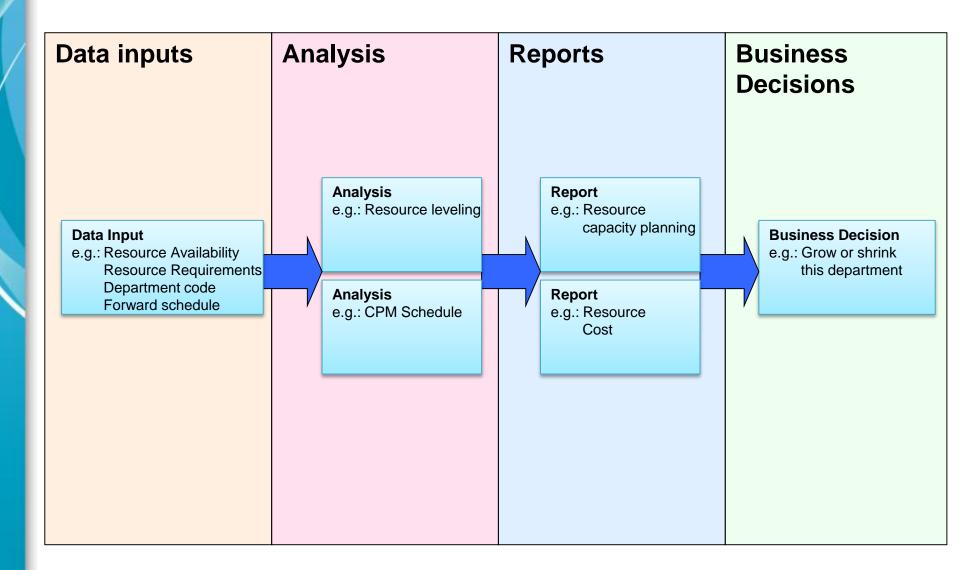
Divide and conquer

- Nothing is written in stone that says you must deploy every aspect of epm on the first day
- Divide your epm deployment into management chunks and schedule them into phases
- Your challenge will be balancing the desires for the most sought after benefits with the high effort and costs to get them (e.g. Resource Capacity Planning)

System requirements

- Once you know what you want to focus on, you can now apply Systems Analysis 101
- Using this method often identifies the efforts required to deliver a particular output
- Also, (and this happens often) numerous output items (reports, exports etc.) are often identified as having no purpose in this phase
- You may need to go back and revisit your phased priorities after some of the efforts/costs of delivering a particular phase are more clearly identified

Determining system requirements



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How to scope for EPM

Ask your stakeholders:

"What business decisions can you not make now, the making of which could be improved by the implementation of this system?"

Have all data elements

- When talking about resource capacity planning for example, we have to know if we have <u>all</u> the data elements required:
- ☐ 100% of resource availability
- ☐ 100% of resource requirements
- ☐ Skills, departments for all resources
- A complete schedule for all work

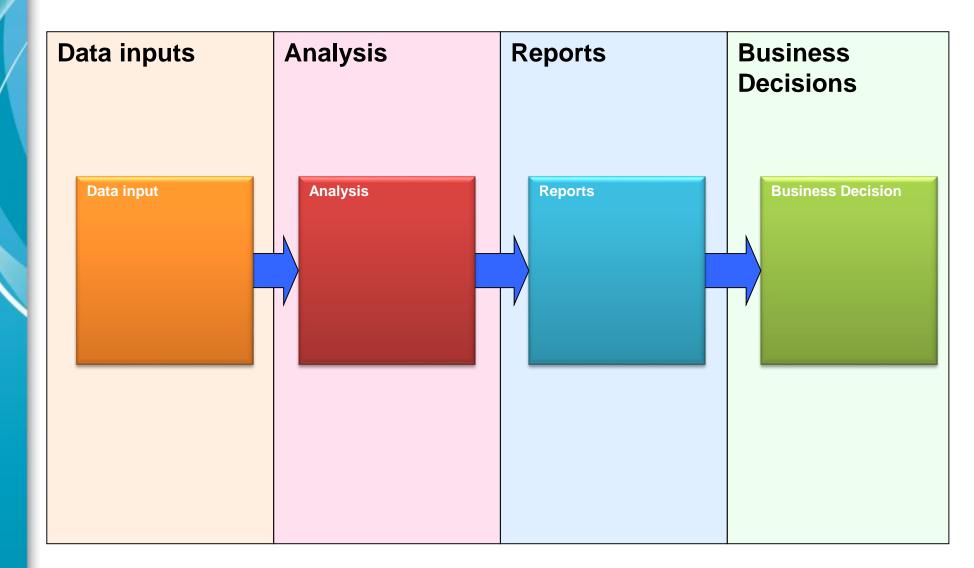
Resolve to a business decision

- EPM needs ultimately need to resolve to a business need
- If you get that dashboard indicator, what will you do with it?
- ☐ If we're making a report, who will read it? What will they do with it?
- ☐ If you get that analysis what business decisions will you be able to make?

Evaluating efforts/costs

- Some questions that are always good to ask during requirements:
 - What do we need this output for?
 - Do we do this already? How? What effort does it cost?
 - Is this information readily available?
 - Who is the client of this output?
 - What alternate methods are available of either:
 - a) generating the output or;
 - b) finding the input?

System requirement exercise



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SECTION 3 CHOOSING ENTERPRISE PROJECT MANAGEMENT TOOLS

How do we choose EPM tools?

- What are the trends in EPM tools?
- Problem/Solution
- How do we determine our requirements

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Today's Trends in PM Systems

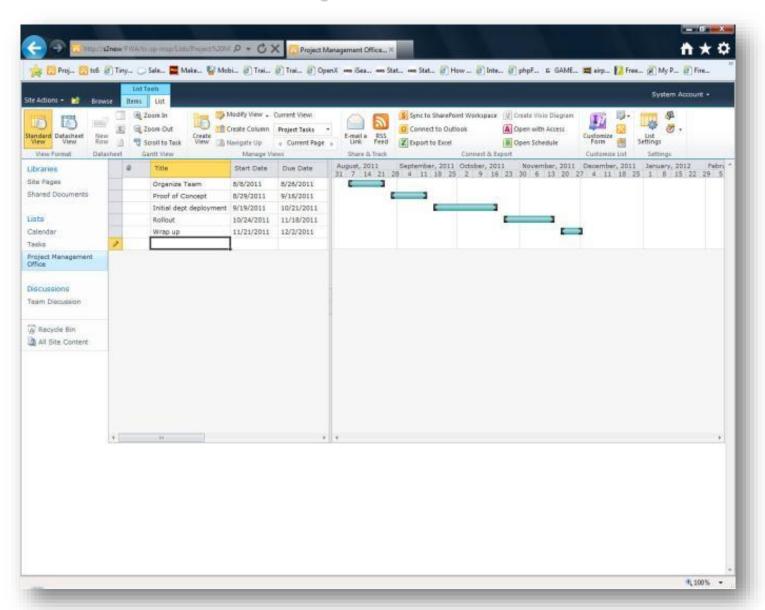
- Collaboration
- Less algorithmic perspective
- More resource-based
- More individual resource allocation
- Dashboarding
- Integrating Finance and Project Management

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Collaboration

- Once a project is underway most of the project manager's work will be spent either interacting with team members or facilitating them interacting with each other. This is what makes Collaboration tools so popular today.
- Collaboration tools can include elements of document management, online announcements, surveys, threaded conversations, and project workspaces

Microsoft: Sharepoint



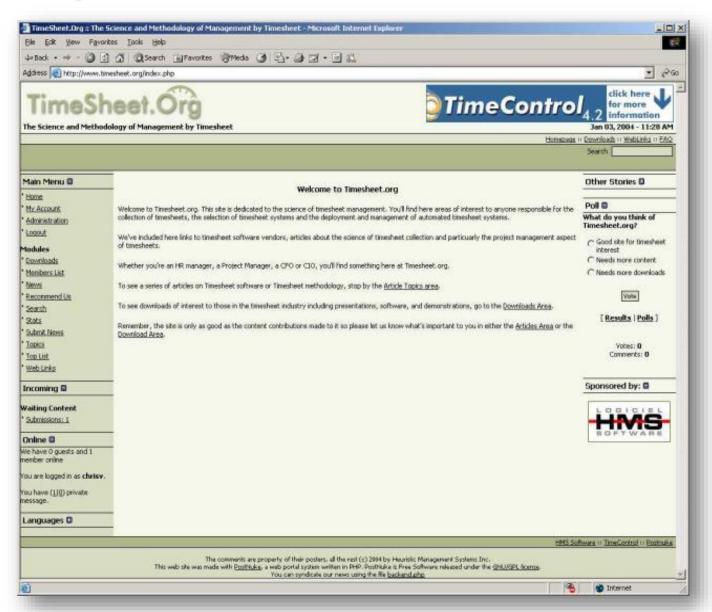
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Deltek: WelcomHome



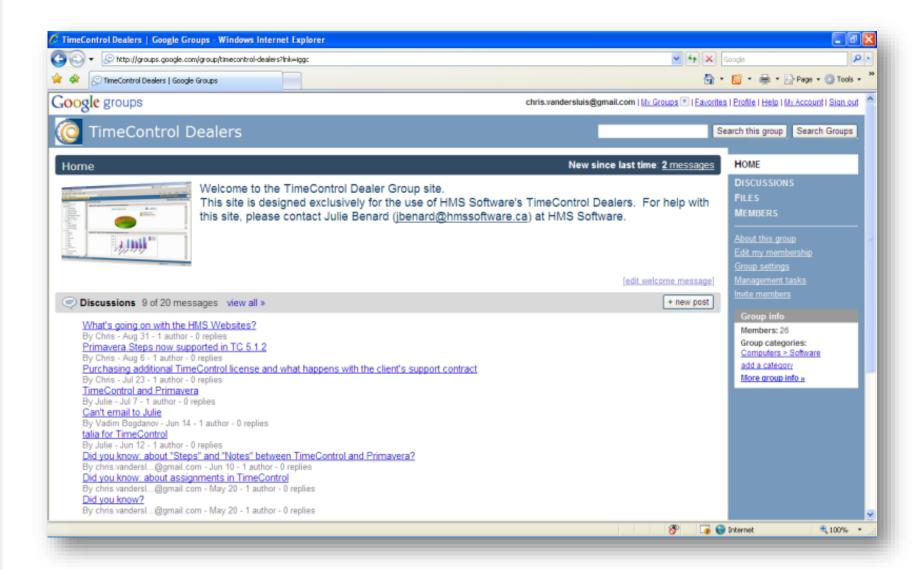
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Zikula, Joomla



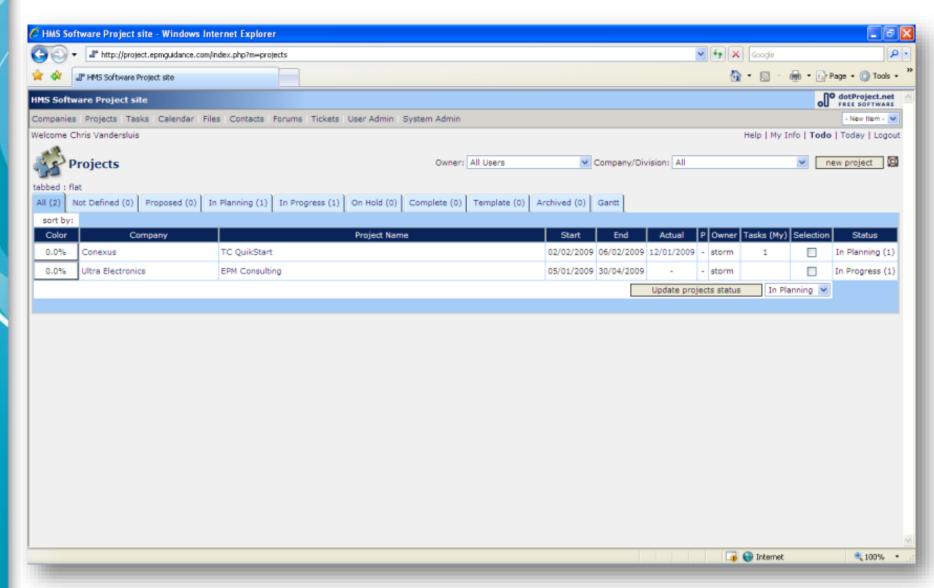
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Google Groups



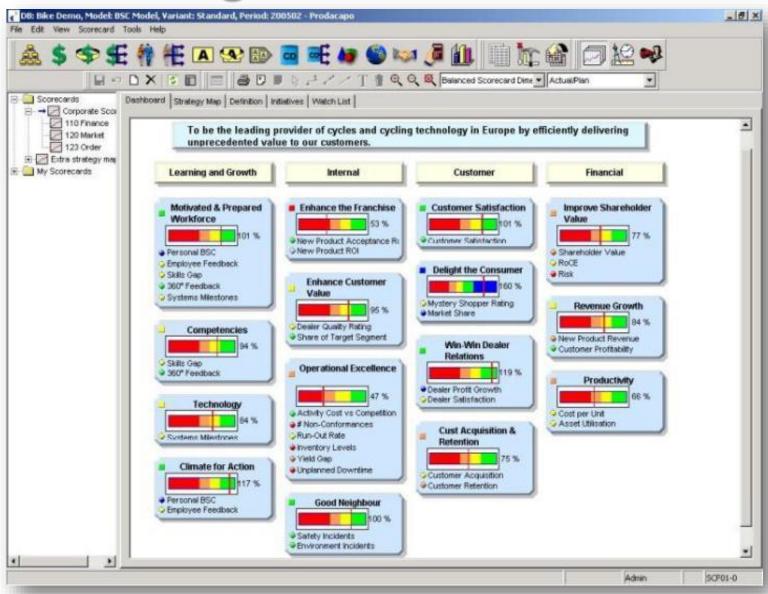
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DotProject.net



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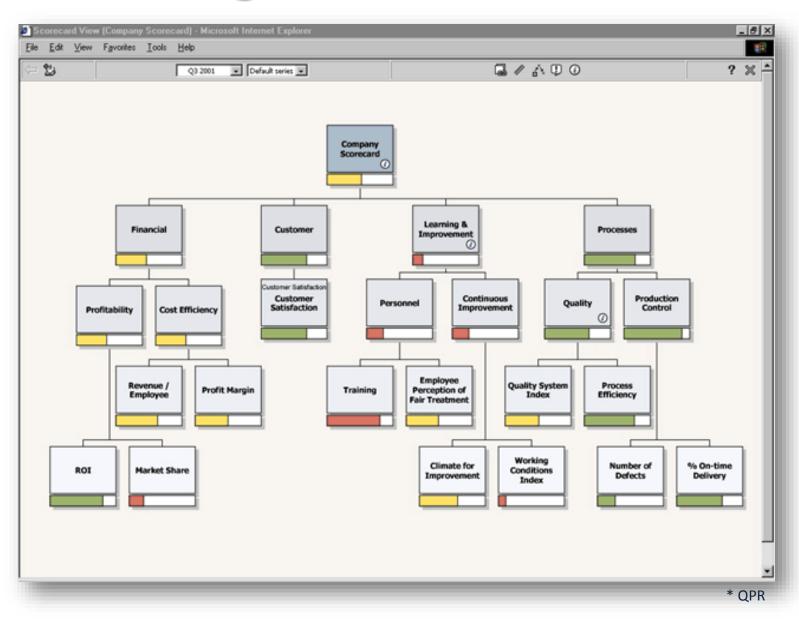
Scorecarding



* Prodapco

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Scorecarding



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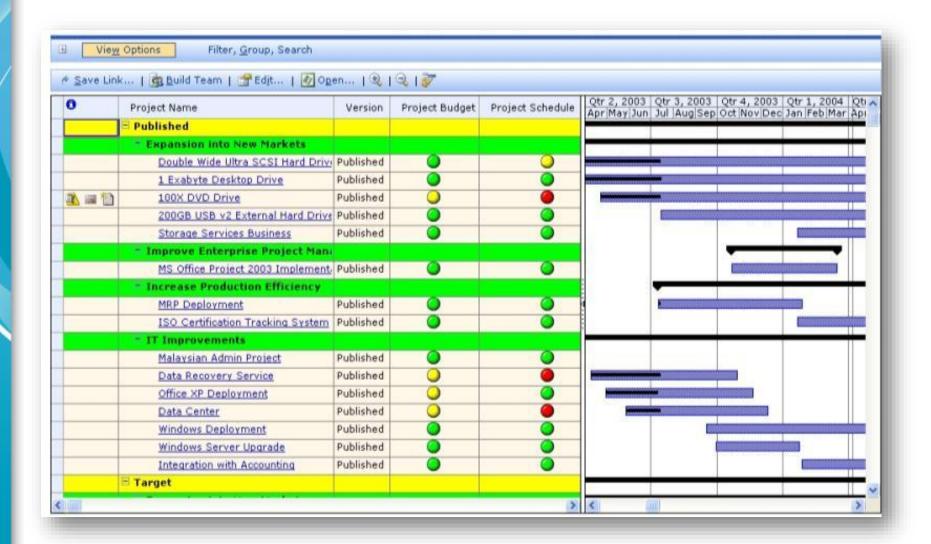
Dashboarding challenges

- Choose the right KPI's (Key Performance Indicators)
- Make sure that the dashboard shows the correct analysis.
 - Does this indicator require 100% compliance for an acccurate reading?
 - ☐ Can the level of compliance be determined right on the dashboard?



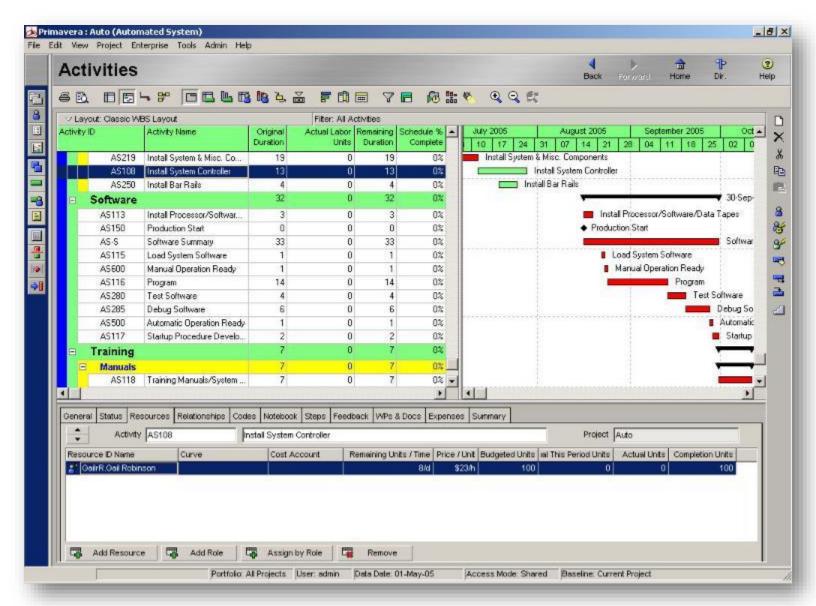
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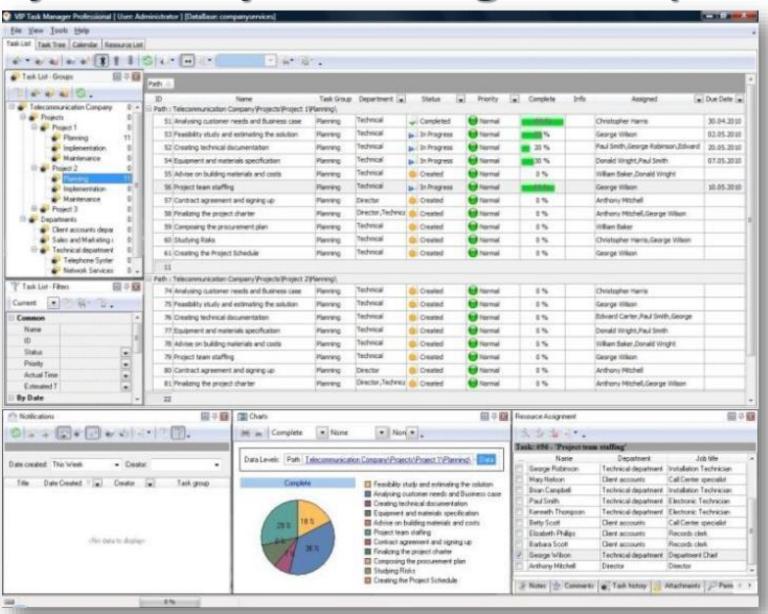
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Oracle-Primavera



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Project Lifecycle Management (PLM)



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* VIP Task manager

Project Portfolio Management (or is it Portfolio Project Management?)



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PPM: Project Selection



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Dashboarding

- Management has always had a taste for synthesized data.
- ☐ If it can be delivered as a one-page or onescreen summary then it will be wellreceived by the executive sweet
- ☐ Today's tools make creating dashboards very easy

Dashboard madness



| Name | Stage | Status | ΕV | |
|------------------------|--|----------------|----------|--|
| Paris | Planning | • | NA | |
| King | Design | | 1 | |
| Spike | Design | | | |
| Siren | Planning | | NA | |
| Seven | Planning | | 1 | |
| Тор | 5 Projects By Exp | ense | | |
| Top Name | | ense Status | EV | |
| | o 5 Projects By Exp Stage Planning | | | |
| Name | Stage | | NA | |
| Name Siren | Stage Planning | Status | NA | |
| Name Siren Spike | Stage Planning Design | Status | EV NA | |

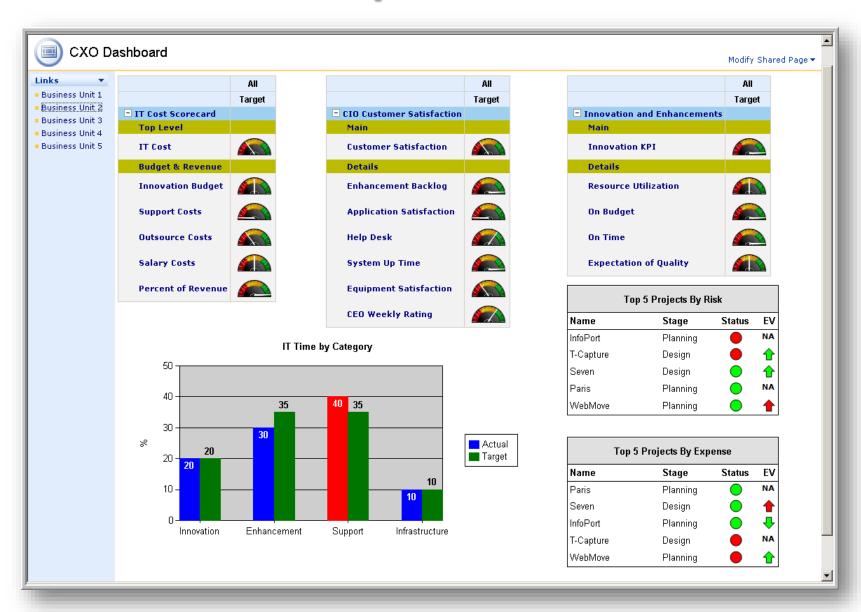




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| Project | Report | Health | Sched | Cost | Risk | Issue | % Cmp Status Comment |
|------------------------------------|--------|--------|-------|------|------|-------|----------------------------------|
| Assets Database Design | | | 0 | 0 | | | 3 % |
| General Ledger Enhancement | - | | | 0 | | | 49 % |
| Ledger Tracking System Upgrade | | | | 0 | | 0 | 1 % |
| Sarbanes-Oxley Compliance Tracking | 161 | 0 | | 0 | 0 | 0 | 32 % Adapting to New Regulations |

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Dashboarding challenges

- Choose the right KPI's (Key Performance Indicators)
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Dashboards deployment challenges

- Is the data complete?
- ☐ Is it timely?
- ☐ Is there an action for every indicator?
- Are the Key Performance Indicators... key?
- Is it subjective or objective and can you tell the difference?

Project Lifecycle Management

| Pre-Project | Planning | Execution | Delivery | Marketing | Maintenance |
|-------------|----------|-----------|----------|-----------|-------------|
|-------------|----------|-----------|----------|-----------|-------------|

Project Portfolio System

EPM Tools

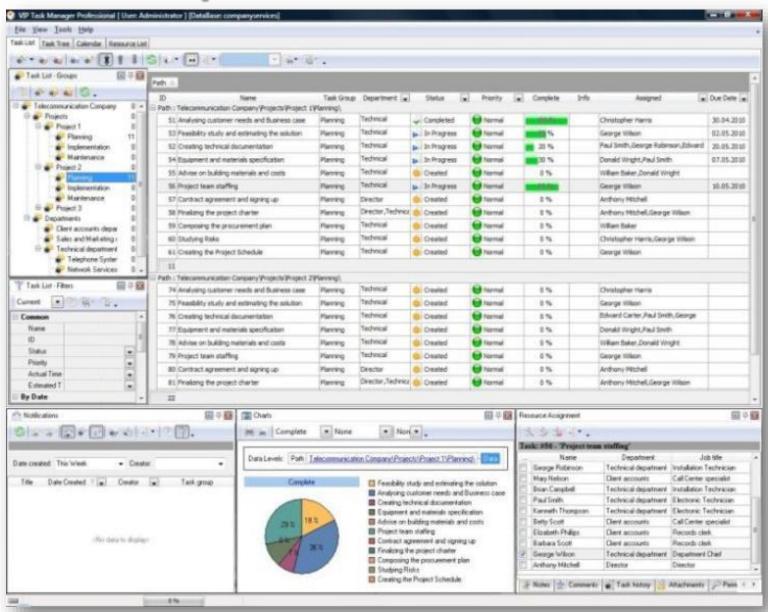
Work Management

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Product Lifecycle Management

☐ PLM is a direction for many in the EPM or PPM industries. It includes management of a product from design to EndOfLife (EOL)

PLM Example



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* VIP Task manager

In the Cloud or On Premises?

- What the heck does that cloud thing mean anyway?
- What are the implications of subscribing to a service vs. buying a system?



In the Cloud vs. On Premises

On premises

- You own the software and control the data
- ☐ Security is your problem
- ☐ You have to own and maintain the hardware
- ☐ You have to maintain technical expertise as well as system expertise

In the Cloud

- ☐ You have temporary access to the software and they control the data
- ☐ Security is their problem but you are still responsible
- ☐ The hardware and the hardware maintenance is their problem
- ☐ You don't need to maintain technical expertise, only system expertise

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Tool selection challenges

- Death by spreadsheet
 - Making your requirements by gathering a list of "wants" by anyone who can be reached and has access to a spreadsheet
- Adding non project requirements into the project requirements. Do you have a budget? Can I include my needs in it?
- Being clear about the problem you wish to solve

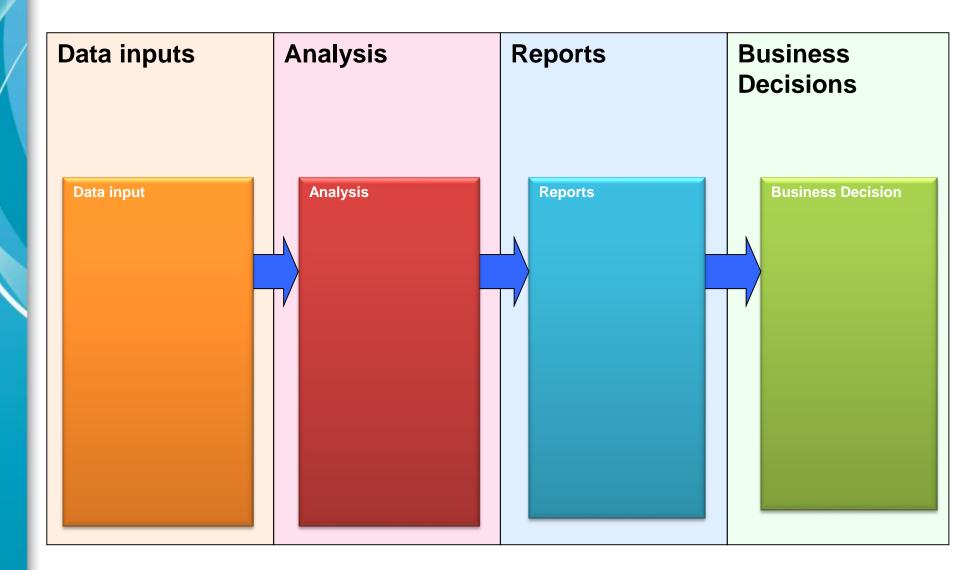
Key EPM tool selection questions

- Who will it serve?
- Centralize or Decentralize?
- ☐ All-in-one or Best-of-breed?
- ☐ *Total* cost of ownership
- ☐ How will we deploy?

Tool selection questions/discussion

- ☐ Which one is best?
- I'm stuck with one, will it work?
- ☐ We're in too deep, how do I back up?

System requirement exercise



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Dashboarding exercise

| Indicator | 1 | | |
|-----------|---------------------|-----------------------|--|
| | | Name: | |
| | | Action (when green): | |
| | 0 | Action (when yellow): | |
| | 0 | Action (when red): | |
| | | Any other indication: | |
| | | | |
| Indicator | ndicator 2 Name: | | |
| | | Action (when green): | |
| | 0 | Action (when yellow): | |
| | | Action (when red): | |
| | _ | Any other indication: | |
| | | | |
| Indicator | 3 | Name: | |
| | | Action (when green): | |
| | 0 | Action (when yellow): | |
| | 0 | Action (when red): | |
| | | Any other indication: | |

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