



4ª CONFERÊNCIA DA QUALIDADE DE SOFTWARE

Panorama Atual e Perspectivas da Qualidade de Software

A 4ª edição da Conferência trará um panorama atual da Qualidade de Software no Brasil, com relatos de empresas que obtiveram excelentes resultados na implantação de programas de melhorias de processos e suas perspectivas para os próximos anos.

Venha participar das palestras e debater com especialistas da Engenharia e Qualidade de Software assuntos que podem interessar diretamente à sua empresa.

dias
28 e 29
Setembro 2011

local
SÃOJUDAS
UNIVERSIDADE
40 ANOS

Unidade Mooca - Rua Taquari, 546 - SP

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apoio:



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realização



People and Processes

Myths on Software Development



Software Methodology Wars (Ken Orr/Cutter Consortium)

■ Question:

- What is the difference between a bank robber and a methodologist?

■ Answer:

- You can negotiate with a bank robber 😊



Remember...

- The only source of defects in software are humans
- Processes are used to:
 - Control the human variable
 - Identify problem sources
 - Make the outcomes repeatable
- Do we really need processes?

There is no silver bullet!!!



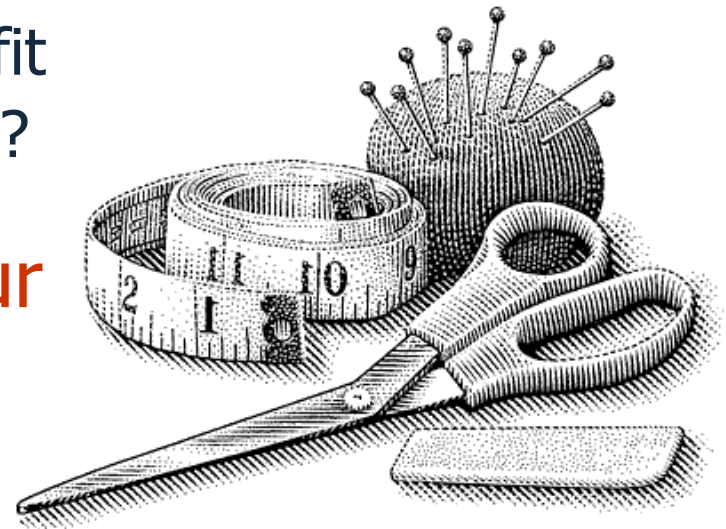
Process defined

- **Websters:**
 - “A series of actions or operations conducing to an end”
- **Software process**
 - Sequence of steps performed for a given purpose
 - Specific steps used in a specific organization to build systems
 - Specific activities that must be undertaken and artifacts that must be produced



What processes fits my project best?

- The common approach is:
 - How do I tailor the project to fit the processes we typically use?
- Tailor the processes to your project!!!
 - And not the reverse...



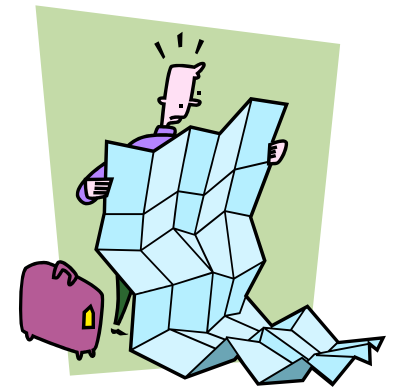
Myth: Defining processes is easy!!!

- **Be sure that you know:**
 - Why you are developing a process
 - What are the goals of the process
- **Ensure that processes are in-line with business goals**
- **Involve stakeholders**
 - They should develop the process
- **Be sure that the process is appropriate for organization/program/project**



Process Myths and Abuses (1)

- Belief that a given model is the Silver Bullet
- Imposing processes from above without involving people
- Beginning a process improvement effort without a baseline of current practices



Process Myths and Abuses (2)

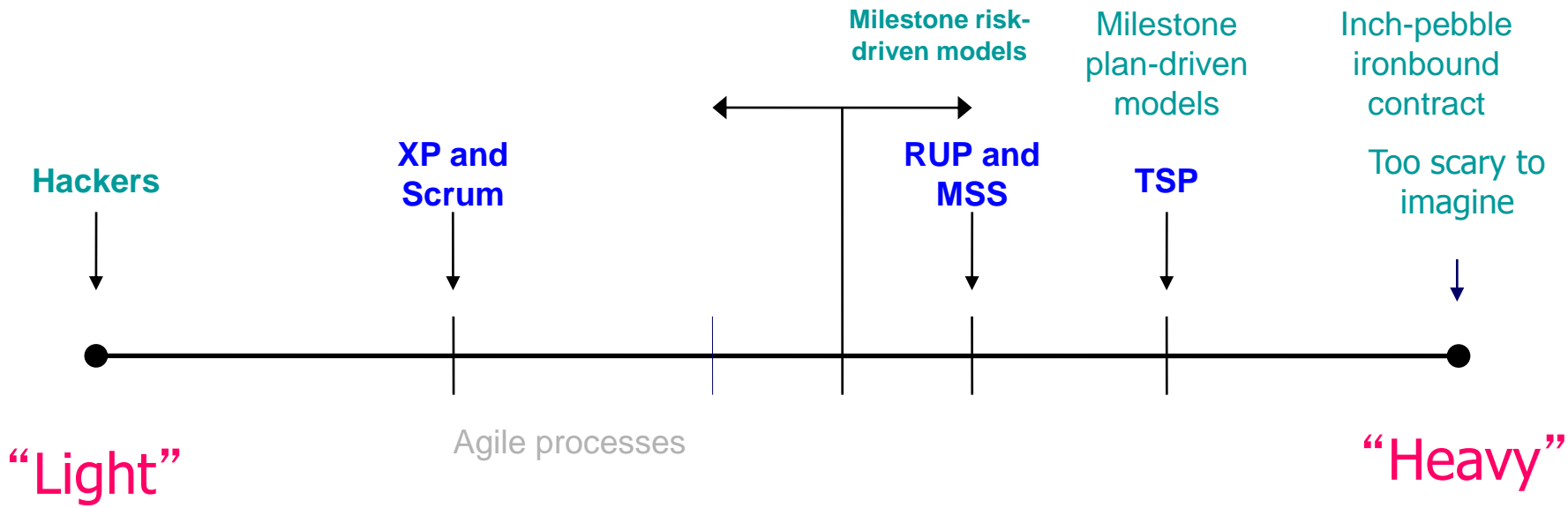
- Inability to apply a maturity model in light of business needs
 - Undertaking process improvement without consideration of business goals
 - Following the “letter of the law” instead of the “intent of the law”
- Assuming that high quality processes automatically mean high quality designs, code, and implementations
 - Chances are better that the quality of these artifacts will be better, but there is no guarantee



Process Myths and Abuses (3)

- Assuming that low maturity organizations will automatically produce low quality designs, code, and implementations
 - Successful organizations with low maturity processes typically have lots of “maestros”
 - These organizations may produce reasonable, even innovative systems
 - However the results are unpredictable!!!
- High maturity organizations are guaranteed to enjoy high profitability
- High maturity can only be achieved through high ritualization

Mythological process spectrum...



Weight = amount of project overhead / code 😊

Adapted from Justin Rockwood, "Choose your Weapon Wisely", 2003

Agile processes... are they a Myth?



Why Agile?

- **High flexibility**
 - Market changes
 - Technology changes
 - Unclear requirements
- **More coding, less paper-work**
- **Higher quality, quicker**

Are these just myths?

<http://www.agilealliance.org/>

Again... it's never too much repeating...

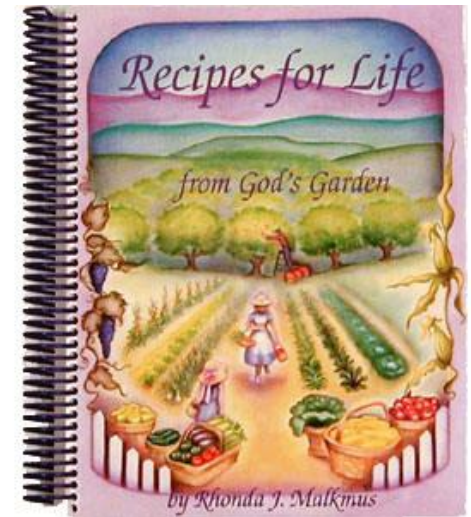
DO NOT make your project fit the processes!!!

- Find the right processes and tailor them to your project!!!
 - And if then can NOT be tailored?
- Any processes should be seen as a tool to assist development, not an end in and of it self!



Choosing a process... avoiding abuses!

- A big problem!!!
- Looking for a recipe...
 - There is no silver bullet
 - Do not tailor your project to a process, instead tailor the “right” process
- Supermarket shopping
 - Do not pick all the “best” techniques within processes and mix them together
 - But you can use some in tailoring





What about People????

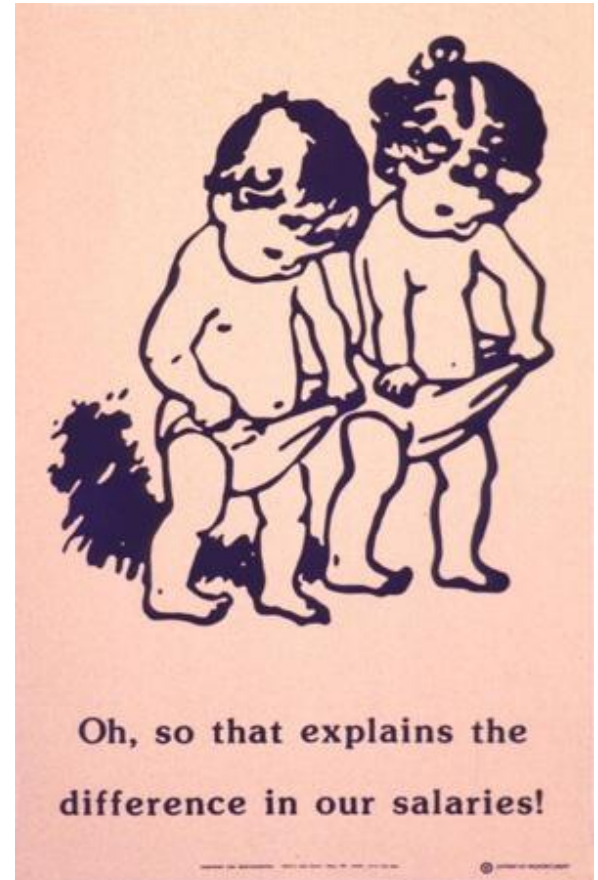
Myth: Technical people stereotype

- In slang may be called:
 - Techies, Tech Geeks, Geeks, Dweebs, Nerds...
 - Miss any? 😊
- Associated with Computers?
 - Not always...
- Badly dressed (and that is subjective 😊)
- Non sociable outside the “techie” domain

- More???

Are technical people different?

- What they like?
- Affinity for technology?
- Knowledge?
- Ego?
- Stubborn?
- Team players?



And, does it matter?

Abuses...

- Exclusion from decision making
 - Hiding the big picture
- Inconsistency in rewards/punishment
 - “Pet”, focus on individuals
 - Responsible for issues not under their control
- Poor use of extrinsic motivators
 - Examples?
- Micro management
- Focus on tasks, the “how” instead of results
- Evaluations without criteria

Myth: Leading is easy.....

- **Obstacles**
 - Conflict resolution
 - Annoying tasks
- **Promote culture**
 - Honesty, fairness, helping “team”
- **Facilitate communication flows**
 - Don't play/allow “I've got a secret”
- **Manage ambiguity**
- **Patience**
 - When to intervene?

Mentor, don't boss!!!

- **Manage by goals, not quotas**
 - Leadership/guidance not oversight/control
- **Recognize technical competency**
 - Use it effectively
 - Accentuate the positive, but don't BS
- **Foster work environment**
 - Physical, annoyances
- **Physical environment**
- **Promote interdependencies where appropriate**

Myth 1: Leadership = Management

■ Management:

- Project planning
- Tracking and oversight
- Organizational
- Maintenance
- Status quo

Leadership:

- Vision
- Inspiration
- Motivation
- Character
- Influence

From Webster's.....

- **Leader**

- “Person that leads”

- **Leads**

- “To direct on a course or in a direction”

- **Leadership**

- “Capacity to lead”

- **Manager**

- “One that manages”

- **Management**

- “Judicious use of means to accomplish an end”

Myth 2: Leaders are born

- Leadership can't be learned?
 - There are natural leaders but...
- Honest assessment of what you do know
 - Seek expertise where needed
 - Mentors – don't go it alone
- Learn from mistakes
 - Long term *vs* short term vision!

Myth 3: Only smart people can be leaders

- “Project management is a people intensive activity, and for this reason competent practitioners often make poor team leaders”
-- Roger Pressman
- How many university professors are leaders?
 - How many presidents or CEO's have Phd.'s? 😊

Myth 4: Must lead from the front

- Can you lead from inside?
 - Who is the true leader of any group?
 - Who has the influence?
- Position doesn't mean in charge, or respected
 - Pointy hair boss
- All good leaders are also good followers
 - Team concept

- No one begins as a leader

Myth 5: Entrepreneurs are good leaders

- Is it really the case?
- Not critical in entrepreneurs
 - Charisma
 - Personality



Myth 6: Leadership is based on position

- You must be assigned to leadership positions?
 - With position do followers follow?
- Lead from the inside
 - “Critical” members of your team

**CHOPPING DOWN ALL OF THE TREES GIVES YOU
A CLEAR VIEW OF THE DEVASTATION CAUSED
BY CHOPPING DOWN ALL OF THE TREES.**



Open Discussion

Your Time!

Thanks for your participation!



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