NokiaSiemens and Agile Development by Petri Haapio JAOO 2008



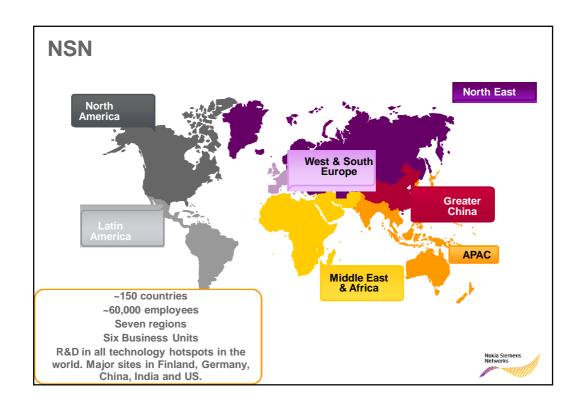
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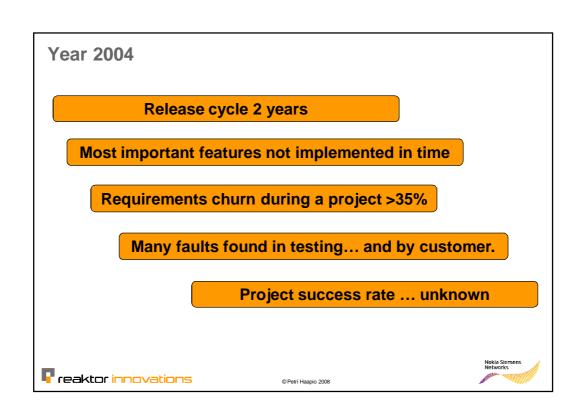
DISCLAIMER!

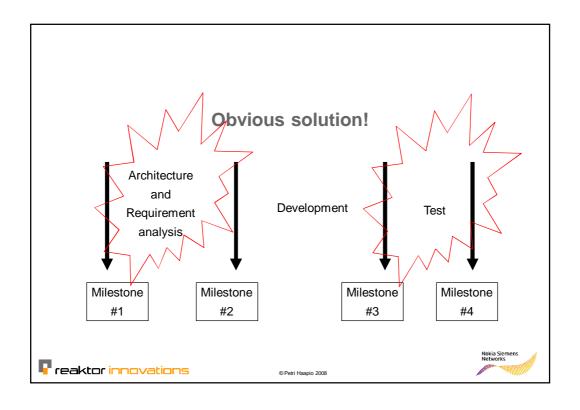
This presentation is based on my views and my opinion. This is not the view of the company and also others have experienced the same time in a different way :)

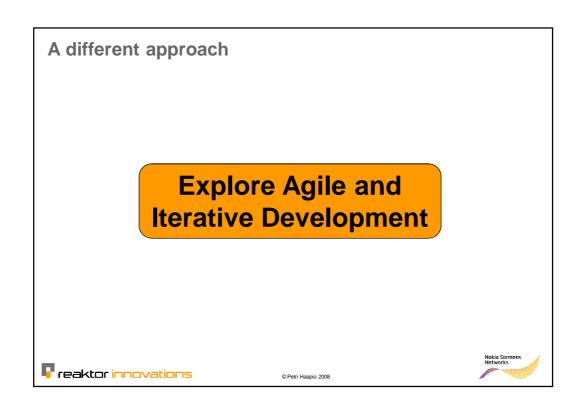
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Result:				
Flexible R&D				
reaktor innovations		Make R&D more flexible. By introducing, Agile and iterative development To Nokia Networks Nokia Siemens Networks		
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The search				
Where in Networks did people experimented with Agile?				

The Nokia Test (called so by Jeff)

You know when you are not doing iterative development when:

- Iterations are longer than 2-4 weeks.
- Team tries to complete specification before programming.
- An iteration does not include testing.
- Iteration does not produce workable code.
- Detailed (task level) plan are accurate estimates are expected at the beginning of a project.
- The sprint plan doesn't reflect what the team is doing.

You know when you are not doing agile development when:

- There is little co-operation within the team.
- Design and code is produced in individual effort.
- Progress is measures by hours spend or documents created instead of working code.
- Builds are done once every three weeks.



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Introductions

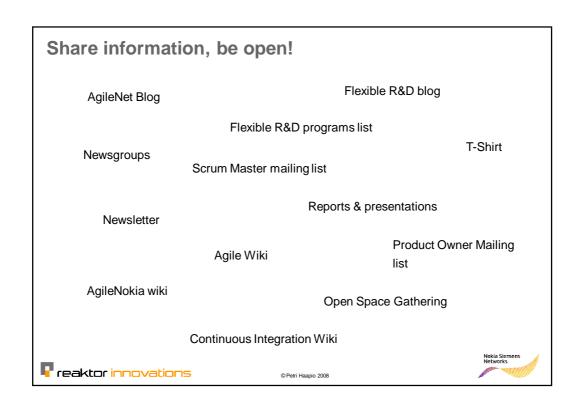


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Suddenly

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What do we do?

Give and arrange training

Facilitation

Organize Gatherings

Create Communities

Coaching

Project Support

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Monday Morning White the state of the state

Result: Agile evangelists... Petri Haspo 2008

Timeboxes and reflections



How to work within timeboxes?





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Requirement and modeling workshops

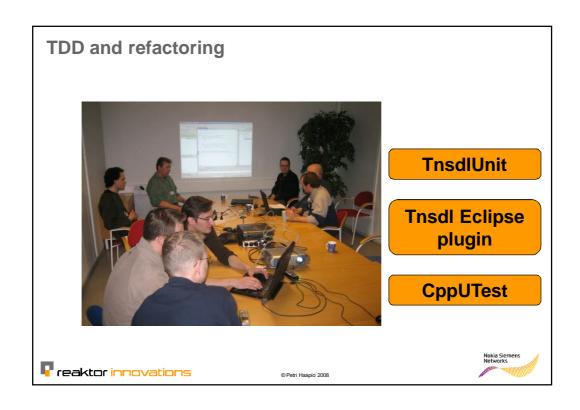


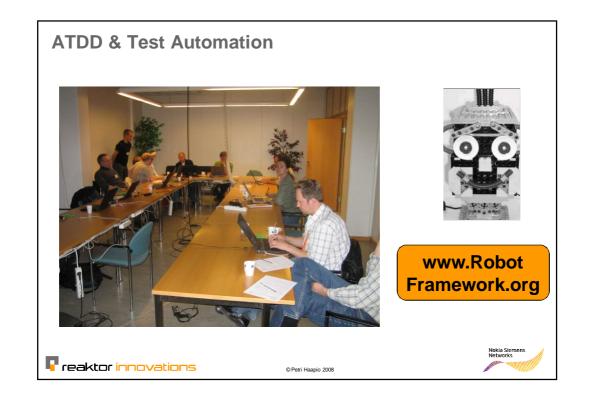
How to split the features?

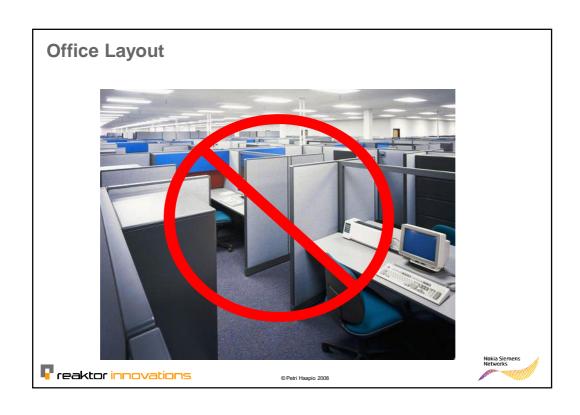


How to model?

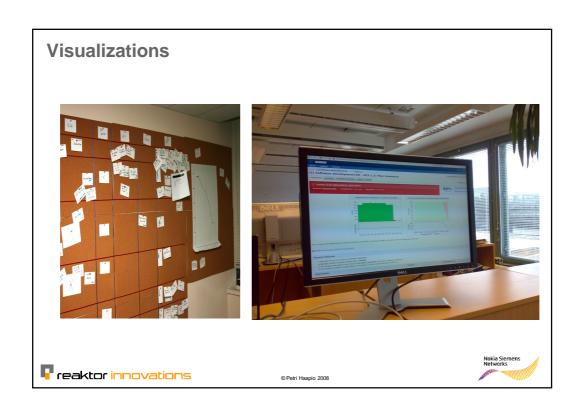


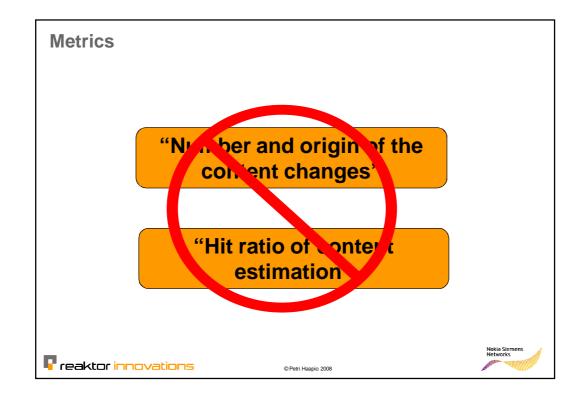








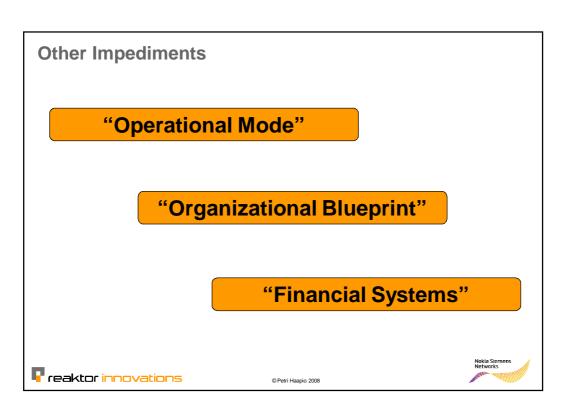


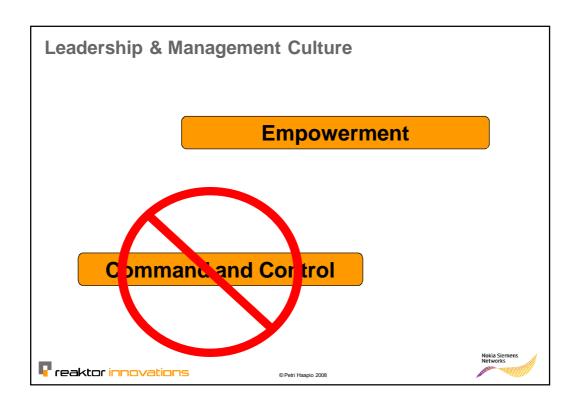


Data from NPM

Metrics	Result	Target
Time to Market (E1-E5)	LE 9.5 months	10 months
E4 slippage	+ 29 %	+/- 30%
Number and origin of the content changes (added/deleted features)	9/6	
Hit ratio of E1 content estimation (% of E1 content in E4)	10%	
Hit ratio of product decisions (% of features used by customer, estimation at E4)	100%	100%

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History & Current State Peri Haspic 2008

History

Project "Flexible R&D" started in beginning 2005.

Result:

April 2005: 4 projects
July 2005; 6 projects
December 2005: 9 projects
March 2006: 13 projects
November 2006 17 projects
January 2007 21 projects
August 2007 40+ projects

Renamed to Flexible Company in March 2007

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Nokia Siemens Networks

Currently in Nokia Siemens Networks

- About ¼ of NSN Product development is either piloting or using Agile development practices
- Products range from:

Environments: Java Traditional
Size: 10 500
Development sites: 1 5
Product phase: New Legacy

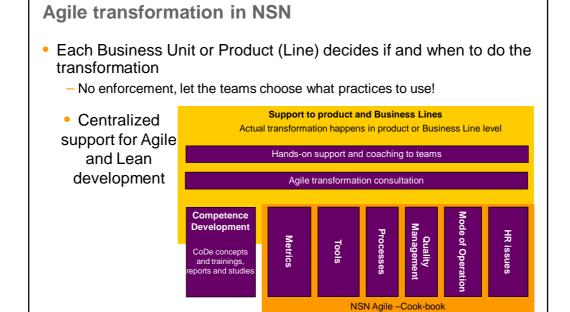
- The largest product which is slowly moving to agile development is about 500 people, legacy product, embedded SW, multi-site and collaborated
- Several training and coaching solutions
 - 750 CSM's, 3500 participated in Introduction to Agile and Lean

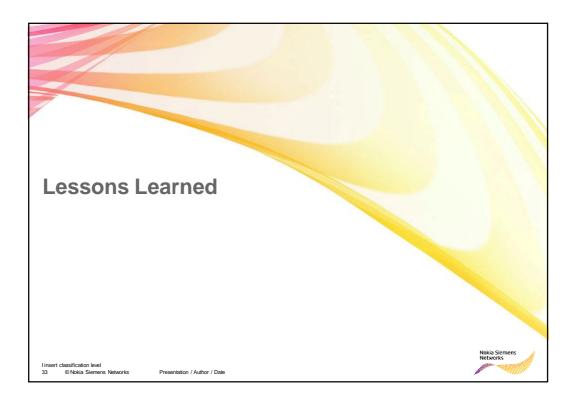


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Guiding principles

Focus on value and people creating it

Only give support, no organizational enforcement

Balance top-down and bottom-up

Evolving and participative knowledge creation

Build trust and communities





Guiding principles

- Don't do agile, be agile
 - -It's all about mindset, values and principles
- There is no single Agile method or practice that would be sufficient as such, so we combine Agile practices to NSN processes
- Teams combine different Agile practices and take gradually more new practices into use
- The two "musts" (a.k.a. where to start)
 - Short iterations
- Quick feedback
- Retrospectives
- -> Inspect and adapt!



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Core Agile practices, which emerged in NSN

- Time-boxed short iterations
- Prioritized product backlog
- Continuous integration
- Self-organized, cross-functional feature teams
- Inspect and adapt
- Core set of practices for agile transformation
 - the basics in place
 - create the framework for continuous improvement towards increased agility and flexibility.
- These practices alone are not enough!





Exec level involvment



"Our business environment is forcing us to increase flexibility and responsiveness of product development. Moving more towards Agile and Iterative development methods are key ways of doing that.

This is also a good way to aim for Lean working methods and removing the waste from development (e.g. unimportant features being developed, many handovers during development, too heavy processes, waiting for decisions or approval).

The transformation starts in Product Management and R&D, but does not end there; we have to look at the whole chain from customer to development to delivery to customer.

There are no ready made solutions, this transformation is about learning together and working towards it!

I would strongly encourage you to learn about Agile and think how you could benefit from it in your own work. "



