















Agility as a Culture

 Culture is a fuzzy set of attitudes, beliefs, behavioural norms, and basic assumptions and values that are shared by a group of people, and that influence each member's behaviour and his/her interpretations of the 'meaning' of other people's behaviour. Helen Spencer-Oatey (2000)













Viruses of the Mind (2)

- "Patients typically make a positive virtue of faith's being strong and unshakable, in spite of not being based upon evidence. Indeed, they may feel that the less evidence there is, the more virtuous the belief."
- For many practices we have only sporadic evidence of effectiveness, or in a limited context.



Viruses of the Mind (3)

"The sufferer may find himself behaving intolerantly towards vectors of rival faiths, in extreme cases even killing them or advocating their deaths. He may be similarly violent in his disposition towards apostates (people who once held the faith but have renounced it); or towards heretics (people who espouse a different —often, perhaps significantly, only very slightly different—version of the faith). He may also feel hostile towards other modes of thought that are potentially inimical to his faith, such as the method of scientific reason which may function rather like a piece of anti-viral software."











Example 1: Finance / Hitting the wall

- Large organization, distributed, legacy system
- Re-implementation of large legacy, 50 dev. collocated
- XP + scrum, 2 weeks iteration
- Initial success
- Things are buzzing along fine



Example 1: Finance / Hitting the wall

- After 6 months, difficulties to keep with the 2-weeks iterations
- Refactoring takes longer than one iteration
- Scrap and rework ratio increases dramatically
- No externally visible progress anymore
- Iterations stretched to 3 weeks
- Staff turn-over increases; Project comes to a halt
- Lots of code, no clear architecture, no obvious way forward



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Example 2 – Aerospace / Safety is 1st

- Large legacy
- Multiple projects
- 4 week iteration across the board
- Some applications are safety-critical (installed in the cockpit of airliners)
 - Artifacts, documentation
 - DER interaction
 - Cultural resistance



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Example 3 – Factory / No small releases

- Large paper mill control
- Physics
- Hard to test
- Yearly cycle
- Each major machine is a project
- Many medium size overlapping projects



Example 4 – Finan. Analysis / Push, not pull

- The customer has no explicit need
- A set of core complex algorithms, in several packaging
- One year release cycle
- Adopt XP
- No visible improvements, few practices actually help



Pattern?

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- Organization...
 - Wants to be agile (but not always sure why)
 - Gets training and consulting
 - Applies, very hard all the right recipes
 - Does not get the "right" or expected result
 - Gets discouraged
 - Throws things out the window











































Environme	nt → Context →	Practice
Business domain Number of instan Maturity of organ Level of innovatio Culture	ces ization on System size Criticality System age Rate of change Business model Stable architecture Team distribution Governance	Good Practices: • Planning • Rate of iteration • Release early, often • Backlog • Continuous Integration • Documentation • Quality • Risk Management • Daily stand-up m. • TDD • Pair programming • "Customer on site" • Adaptation • etc.
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Agile sweet spot (center of target)	
System Size • 012 300	
Criticality Simple, \$ losses, de	eaths
System Age • Exploratory, greenfield maintenance	, legacy
Rate of change - Low medium, high	
Business model 🗕 In house, Open source	·,
Stable architecture - Stable, changed, new	
Team distribution • Collocated,, offs outsource	hore
Governance Simple rules,, SOX,	







