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Our goal: Bring risk analysis and risk management to agile / scrum, without making scrum heavier

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BUILT IN QUALITY

How the approach evolved

Since 2014 and beyond

- Valori experts & customer think tank
- Improved after workshop pilots (TestNet, ...)

VGZ Insurance, Politie ANWB, RABO bank

Ministry Economic

Sticking to existing Scrum practices

- Scrum guide (www.scrumguides.org)
- Widely accepted practices (Spikes, HIP, DoR, DoS)

Baptized AGRAM

- AGile Risk Analysis & Management

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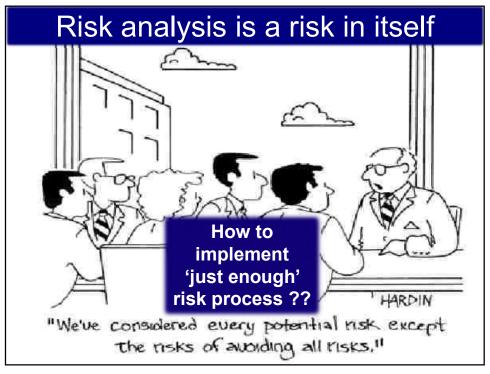


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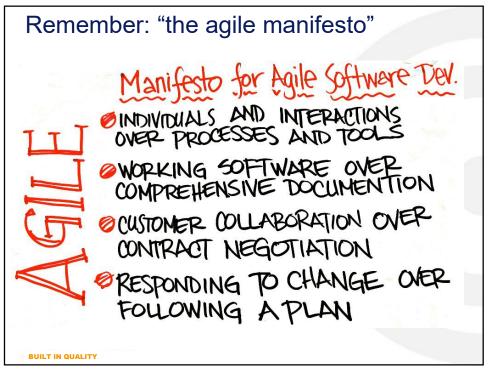


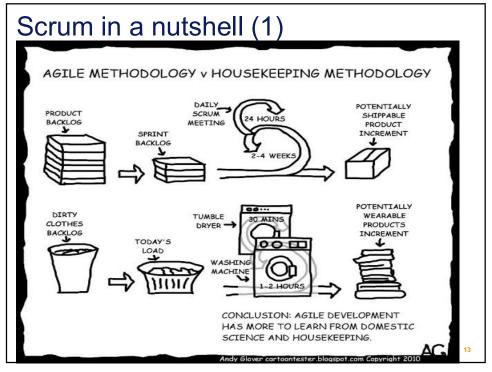
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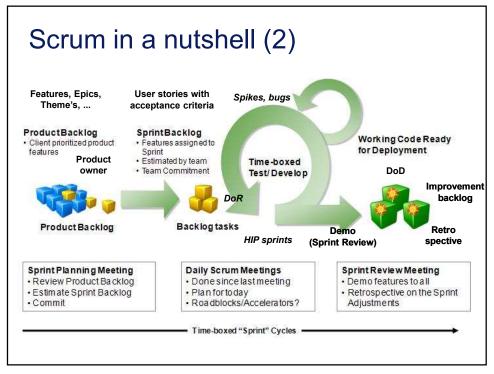


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From an agile forum

"Because we continuously look for what is blocking progress and address those impediments immediately, no potential risk that actually is occurring can go unnoticed for long. Furthermore, when we address them, we have far more current information about the situation than if when we would have pre-planned the response.

Therefore, explicitly listing those potential risks (most of which will never occur) and pre-planning what we would do about them would be a big waste of time"

I take this very serious, because risk management may be waste

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A bit less extreme...

A <u>lightweight risk log cannot hurt</u> - a simple list of impediments the Team, Product Owner and ScrumMaster anticipates only helps with visibility, trust and accountability.

I always think of the risk list and the scrum master's todo list as being the same thing. You just need to make sure the non-functional items get in there somewhere.

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How explicit must it be?

Scrum: risk management is implicit

- Scrum caters for timely risk elimination
- Even if you don't talk risks

Do we need a more explicit process?

- Scrumdamentalists: no!
- We: **sometimes no, often yes,** but just enough!

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Why explicit?

Auditability & Compliance

- Internal and external auditors
- Require a traceable risk approach

People around you expect it

- They stick to Value?
- PRINCE2, MSP, PMBOK

No risk, no test

- Testers don't move without risks.
- And rightly so!

Stakeholders taken seriously

- Their 'risk appetite' should be leading
- 'Your nightmare

Because it makes you more complete

- Against tunne and group think
- Risks = pessimists requirements

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So, let's Scrum!



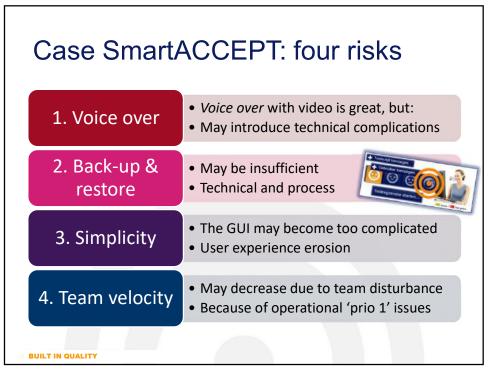
Let's assume that we:

- have serious risks
- want to address them in Scrum
- want it explicit & traceable
- want to add 'just a gram' to Scrum

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Case: SmartACCEPT 4.3 **Testscript toevoegen...* Gebruiker toevoegen... Testregistratie starten... A real project with real risks!! I am the product owner



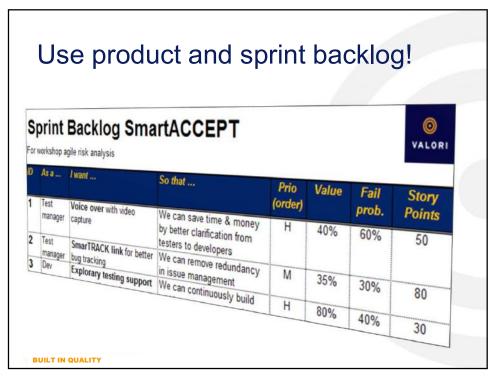
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AGRAM four risk types strategy 1. Detail product risk Add an acceptance criterion to related to one specific the backlog item (user story) backlog item (or two) 2. General product risk • Raise a spike, risk item, HIP item not related to an existing backlog or a new user story item, can be managed in 1 sprint 3. Long time product risk Add an item to the requiring attention for a longer Definition of Done (or DoR, DoS) time span & more sprints 4. Project risk • Raise an Impediment or not directly related to Improvement item project deliverables **Explicit risk mitigation in Scrum 'as is'! BUILT IN QUALITY**

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Use product and sprint backlog! As part of a user story or epic Manage risks in • ... as a *spike* the backlog • ... as an explicit risk item Backlog already has Value Add failure prob. • Add Failure Probability as an attribute • Risk = Value * Probability • AKA backlog refinement, story time Keep up-to-date: • In *sprint review* + continuously Backlog grooming • Ken Schwaber: reserve 5% time **BUILT IN QUALITY**



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So far, so good?

This was our starting point and our goal:

Let's assume that we:

- have serious risks
- want to address them in Scrum
- want it explicit & traceable
- want to add 'just a gram' to Scrum

Did we manage?

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What's the deal up to now?

Explicit and traceable risk management

- In an agile / Scrum setting
- And that's what we were looking for!

For all risk types

- You can map every risk to one of the four types
- Split up composite risks if need be

Without overloading Scrum

- We added 'just a gram', one or two things:
 - One attribute to the backlog
 - If you want: a risk list as a separate 'artifact'

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"True eloquence consists in saying all that is necessary and saying nothing more than is necessary" (Francois de la Rochefoucauld)

But that man is no longer alive...
.... and I still want to say a bit more...
... because you will need it, I presume.



1. Risk trawling

Wide or focused?

- Wide & out-of-the-box: OK, but sometimes vague
- Focused at sprint backlog: OK, but danger of tunnel vision

You need both!

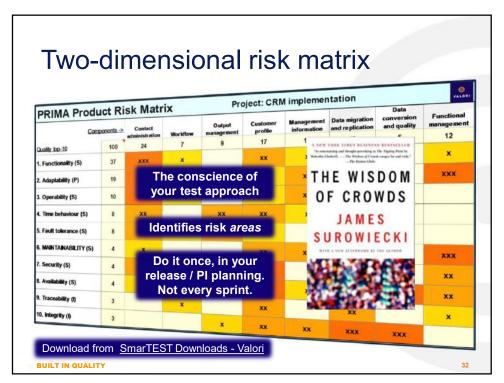
- Finding blind spots beyond (sprint) backlog
- · Maintaining user story focus for the agile team

Therefore:

- Start a project (> 1 sprints) with a broad risk analysis (PRA/PRIMA)
- In the sprints: manage concrete risks with the 4 AGRAM types

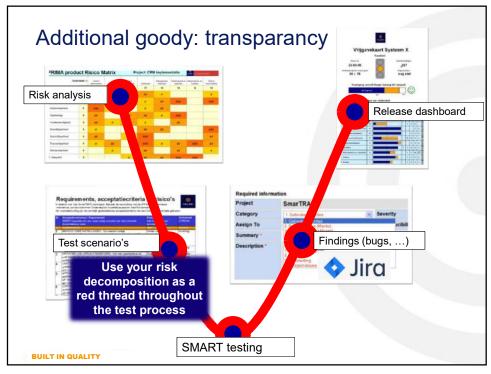
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Advantages broad risk analysis Serious worries taken seriously Stakeholders, Product Owner, Scrum team More complete & balanced risk perspective Out-of-the-box Not limited to (sprint) backlog Better 'know what you don't know' Validation of in-sprint risks Use risk matrix to validate/complete Reduces group think & tunnel vision

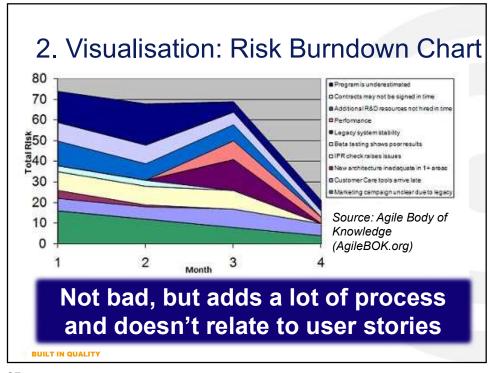
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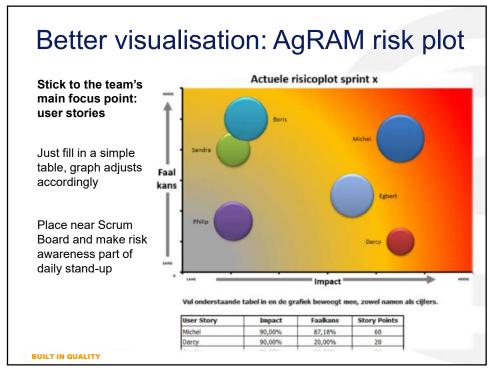


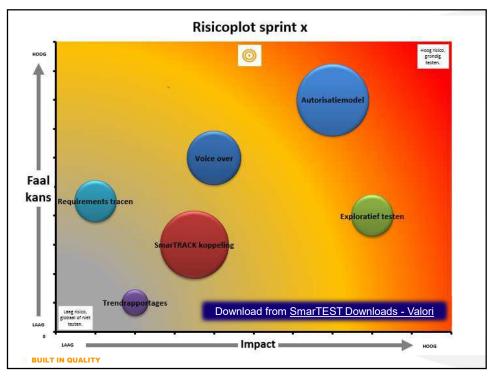
In-sprint risk trawling Refinement Ask 'What if' questions (BDD Gherkin: Given...When...Then...) Address rainy day scenario Avoid vagueness in the sprint: Sprint planning Enrich your planning or an engage of the sprint backlog Focus on the sprint backlog Good teams have that focus Plus room for strange creatures Plus room for strange creatures Yells room for strange of the sprint backlog Focus on the sprint

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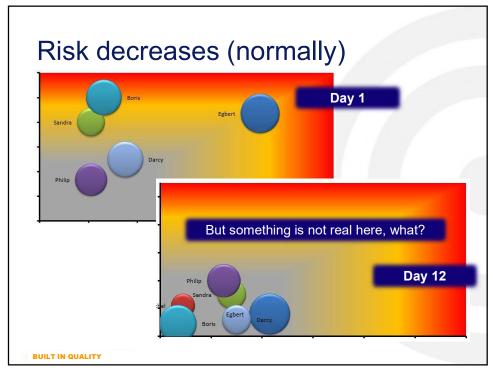








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3. If the risks are (too) big

| Risks are | Measure |
|-----------------------------|---|
| Too big, irresponsible | Kill project / releaseRevise sprint backlog: less risky items |
| Big, possibly too big | Do shorter sprints. Worst case, you won't loose 4 weeks but 1 or 2. Deploy and test independently in A-environment ('above the line' in the W-model) |
| Significant, but manageable | Take ample time for inspection and demo's Take care for test-expertise in the team The independent acceptance test may be faster |
| Small | Test smart, but don't talk risks too much Focus on opportunities and velocity |





