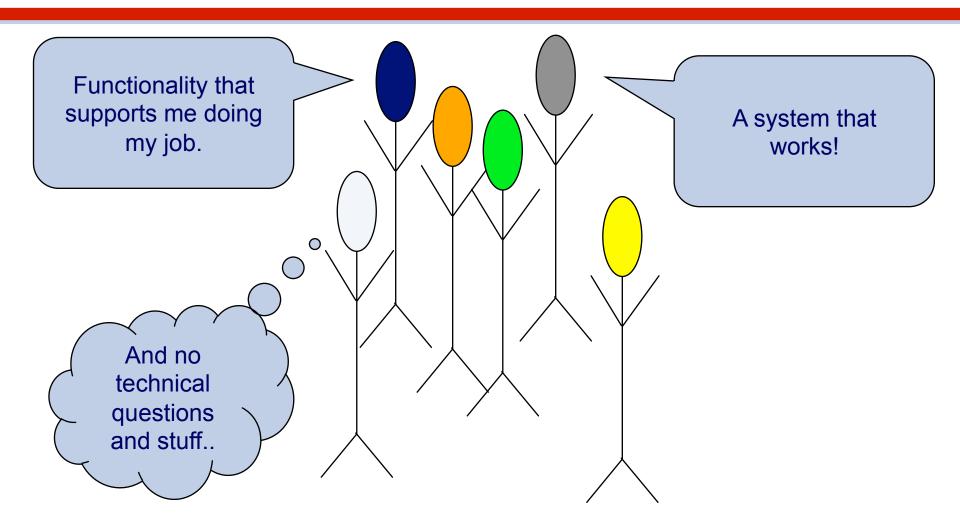


Risk Based Testing

A piece of cake?

2011 Jeanne Hofmans, Improve Quality Services

What does the customer want?





Risk Based Testing

Measures

Risk

Product Risk Analysis

Improve Quality Services B.V.



Product Risk Analysis

Several methods

- PRISMA®, PRIMA®, TMAP Next®

Difficulties

- Hard to determine initial set of risks
- Little time available
- Hard to match risks to the specifications at hand
- Not suitable in maintenance situations

Result

- PRA is barely used



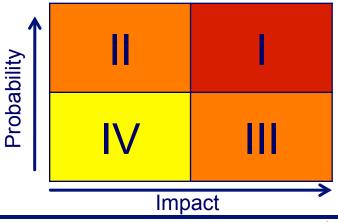
3 types of product risk

Specification

- Requirements, objects, changes,..

- Integral
 - "Out of the box", implicit
- Regression

- Unchanged items (both specification and Integral)





Example Loading railway timetables

Risks:

Specification

•Automatic loading of timetables daily at 2 am. **Integral**

•Automatic loading process is interrupted by a manual instruction to load plans.

Regression

•Manual loading of plans.

•Usage of automatically loaded plans.

Test plan, cases & report: **Specification**

•Automatic loading of timetables daily at 2 am. **Integral**

•Automatic loading process is interrupted by a manual instruction to load plans.

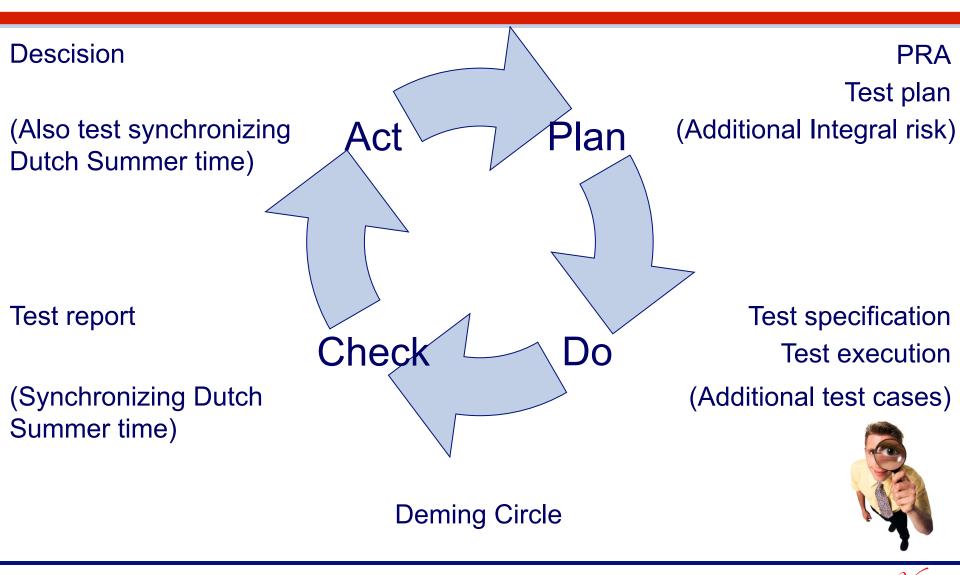
Regression

- Manual loading of plans.
- •Usage of automatically loaded plans.

tester



Riskmanagement throughout the process



IMPRO

Risk based reporting

Туре	Description	RK	RK'	Status
Specification	Automatic loading of plans at 2 am.	П		
Integral	Automatic loading process is interrupted by a manual instruction to load plans.	I		
Integral	Synchronizing Dutch Summer time		П	
Regression	Manual loading of plans.	Ш		
Regression	Usage of automatically loaded plans.	IV		





•Use a combination of techniques!

•At start of a project

- PRIMA® or TMAP Next® or brainstorm

Before test execution starts (SIR)

- FMECA and/or brainstorm
- PRISMA®

During test execution (SIR)

- 'progressive knowledge ' (Context Driven Testing)





Conclusion

•One list of product risks, SIR!

- Specification
- Integral
- Regression

Suitable in almost every situation

- Maintenance
- Traditional testing
- Context driven testing / Agile testing
- End2End testing



Questions



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