# Testing in Agile Environments In practice

Consult Services

QA

Erik Boelen

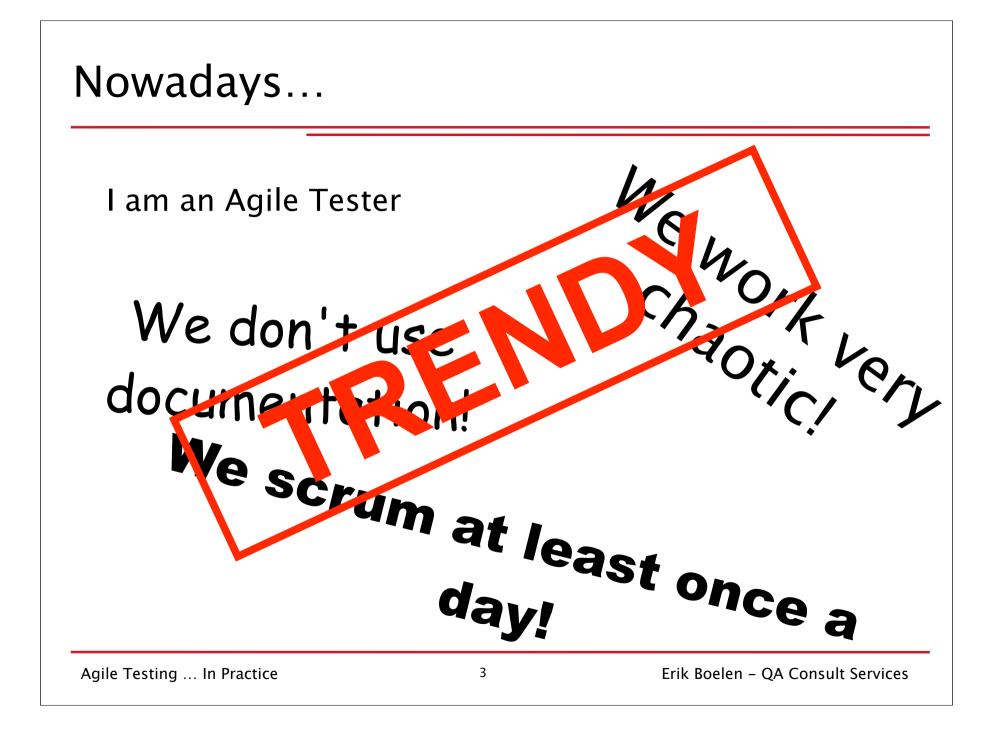
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### What will I talk about?

- Agile Testing for me
- Am I an Agile Tester?
- How to put in practice?



Terms and Definitions		
Intentions are good		
The truth is not in the words		
Positive influence on the end result		
Agile Testing is not about using terms and definitions		

Agile Testing ... In Practice

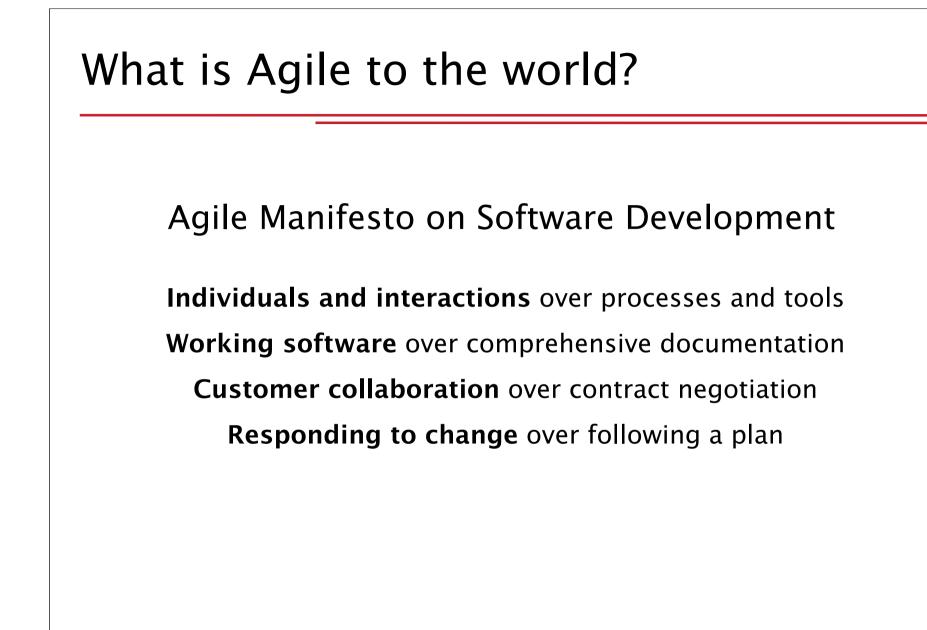
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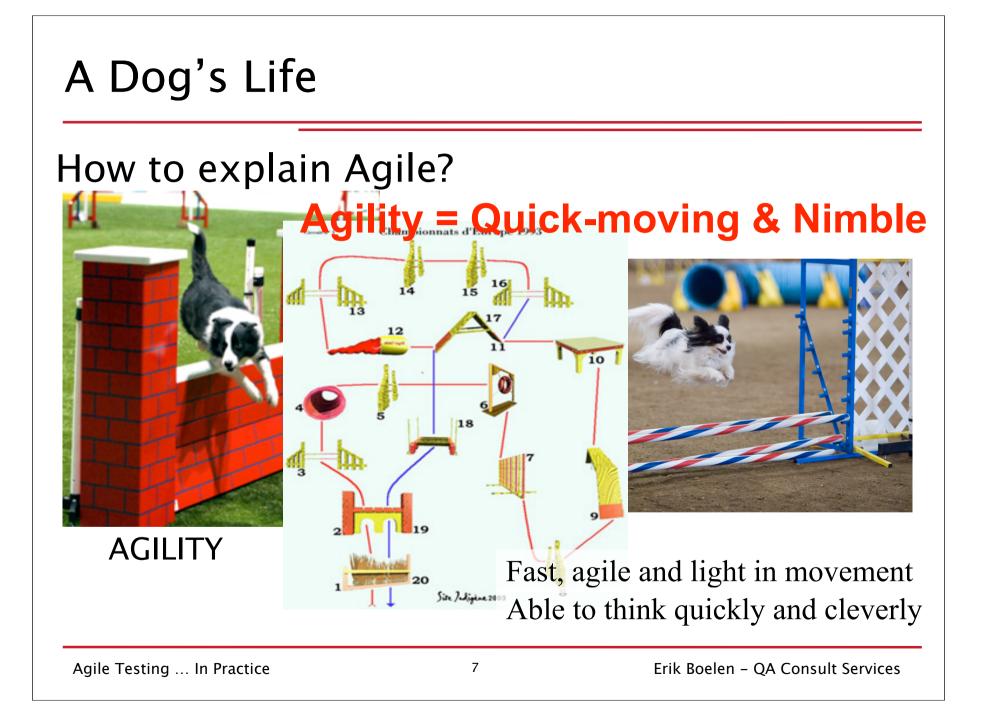
### What is Agile for me?

- Providing a continuous stream of value to your customers
  - Increase the rate of feedback
  - Reduce the waste
- Not about
  - Compressing the schedule
  - Tossing out the documentation
  - Coding up to the last minute

#### It is all about maximum value for minimal cost

5





Who is an Agile Tester?		
How to determine if you	ı're an Agile	Tester?
How did I set up the	requirements	?
Experience Opinion of peer softw Experts on the topic	vare testers	
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#### I love my customer

The Customer is responsible for ensuring the correct application gets built by:

- Providing the vision that drives the product
- Steering the project through numerous specific decisions about the sequence of work based on an understanding of the overall business benefit relative to the cost of each piece of work. This is an ongoing process that accounts for changes to the business over time
- Describing the requirements clearly and succinctly, at just the right time, and in just the right level of detail

The customer role is also responsible for assessing that the application was built right by:

- Defining acceptance criteria / tests that drive product development
- Testing the delivered product

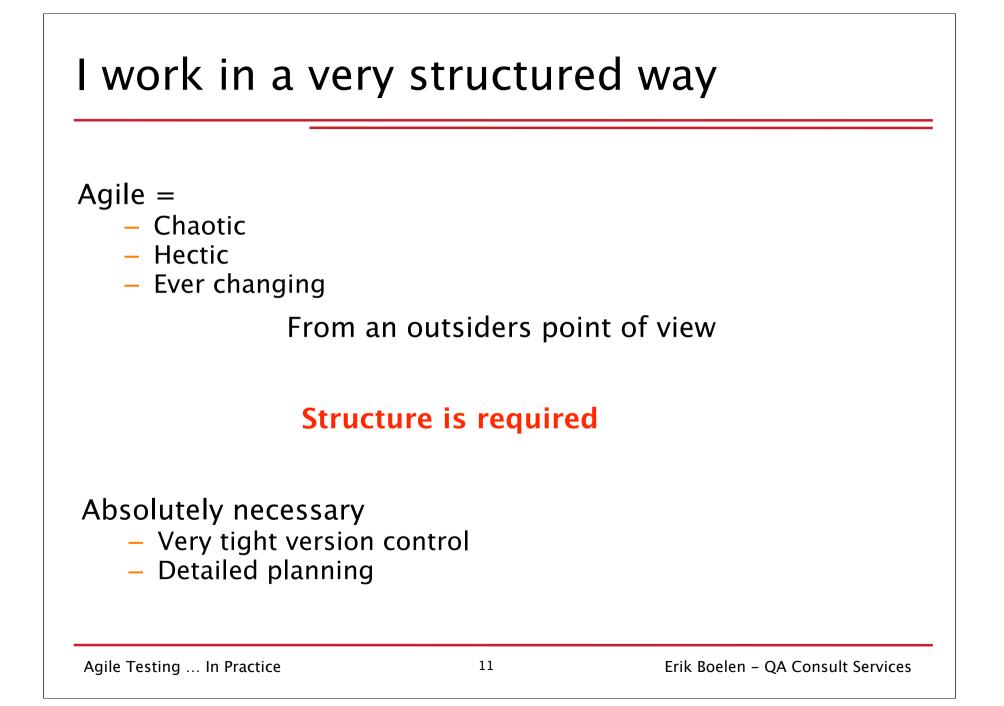
#### I love my customer

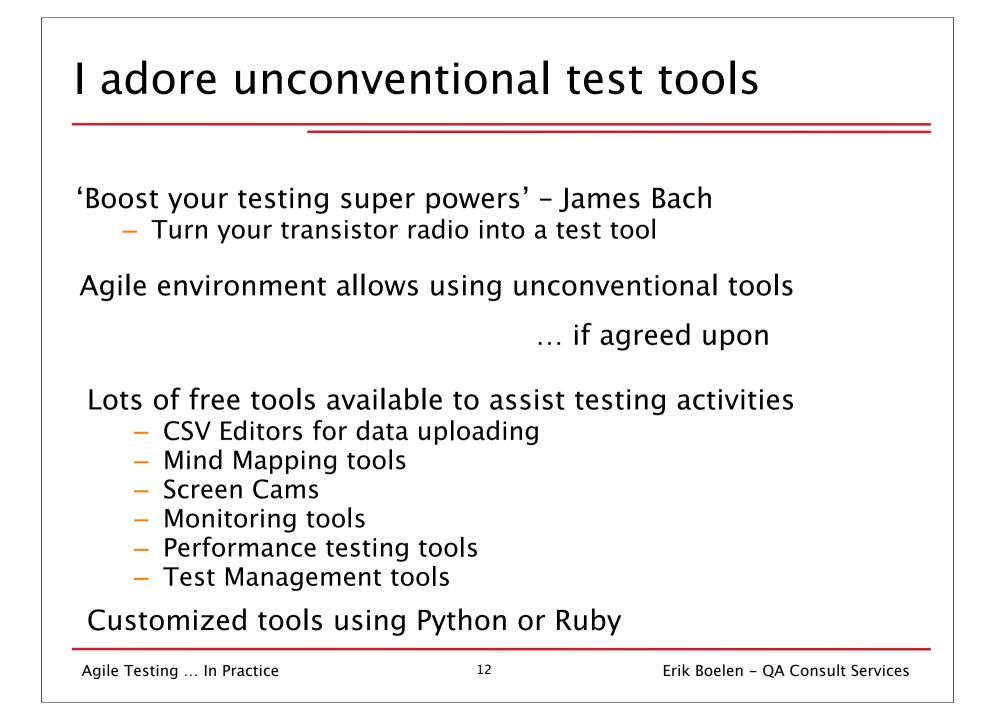
It helps to be connected to:

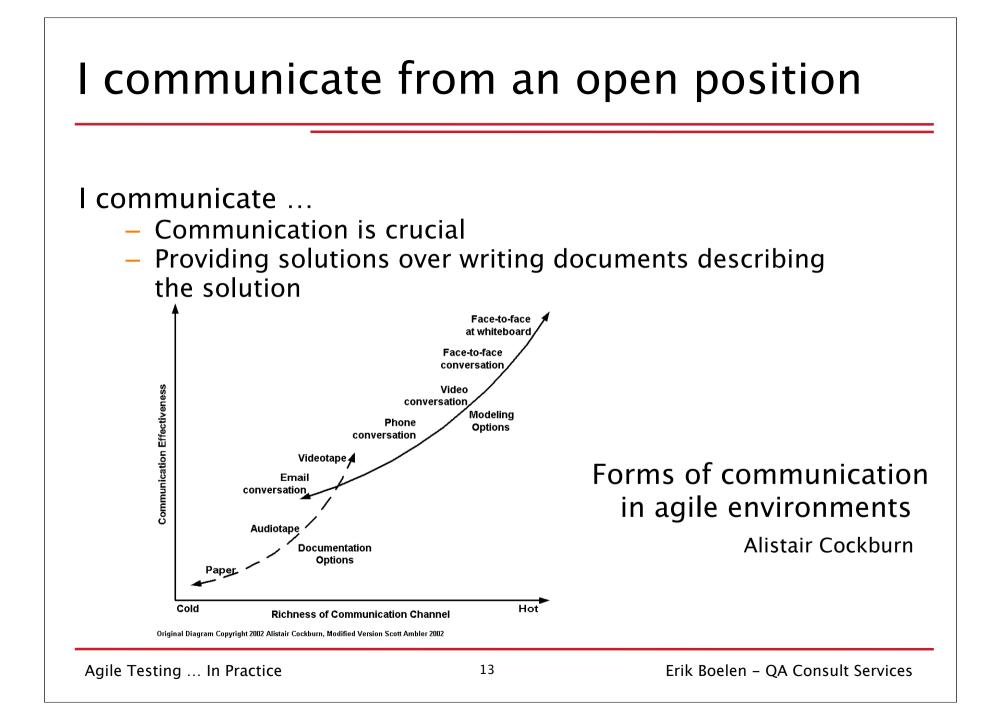
- the test object
- the environment
- The solution

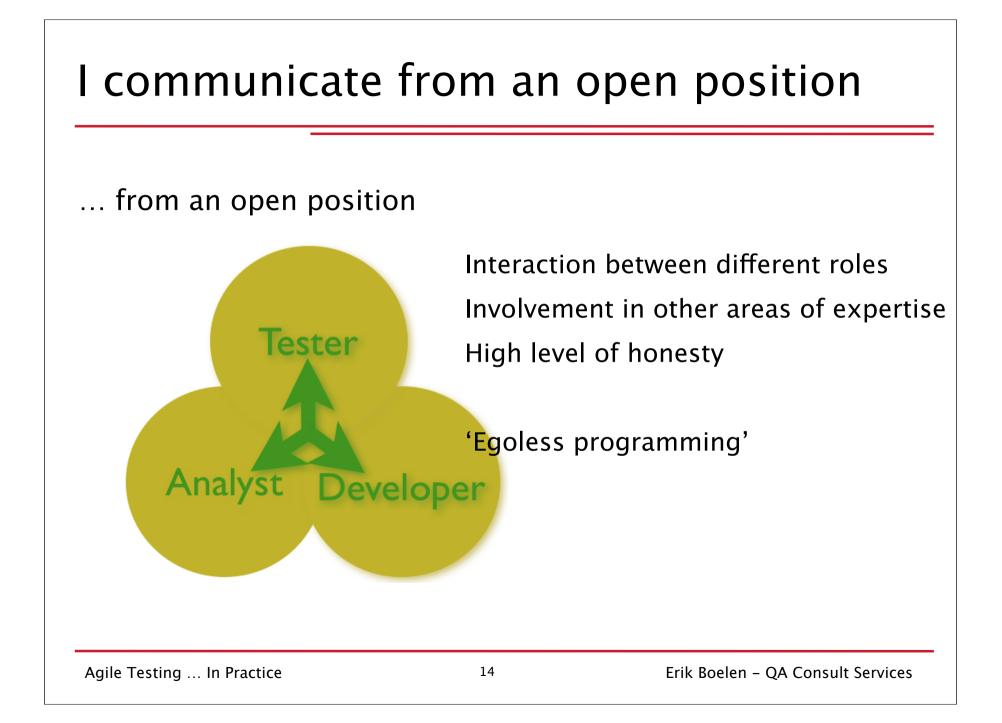
If not, you can become uninspired

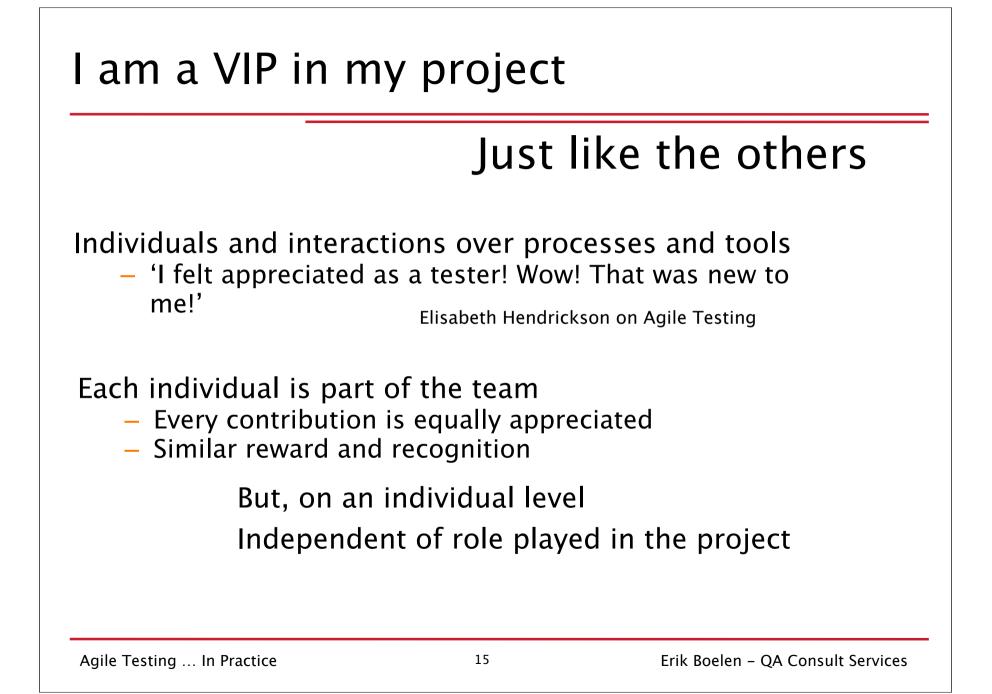
# Team work can be influenced by the weakest link

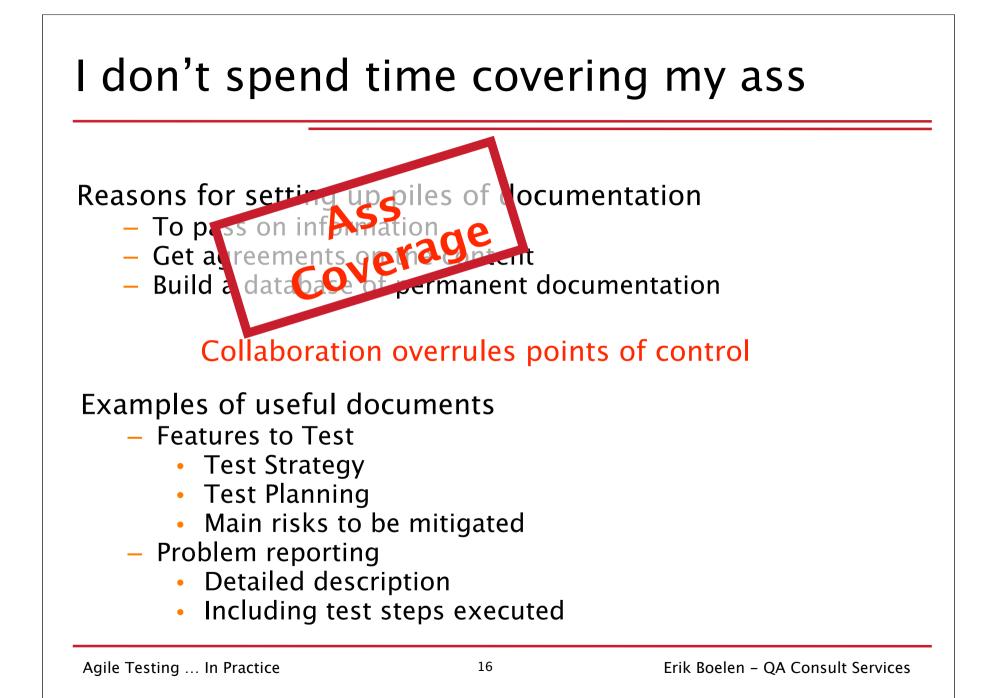












## I know my boundaries

Management issue in agile environments

 Stay away from the border of unstructured and uncontrolled project management

Content boundaries

- Many releases of small parts of the solution
  - Increments or iterations
- Content of test activities is also limited to this increment or iteration
- Crossing that border causes overhead to others

### I know my boundaries

**Timing boundaries** 

- Time Boxing
- Detailed planning
- Close follow up of time requirements
- Work according to schedule
  - Schedule may be adapted through group decision

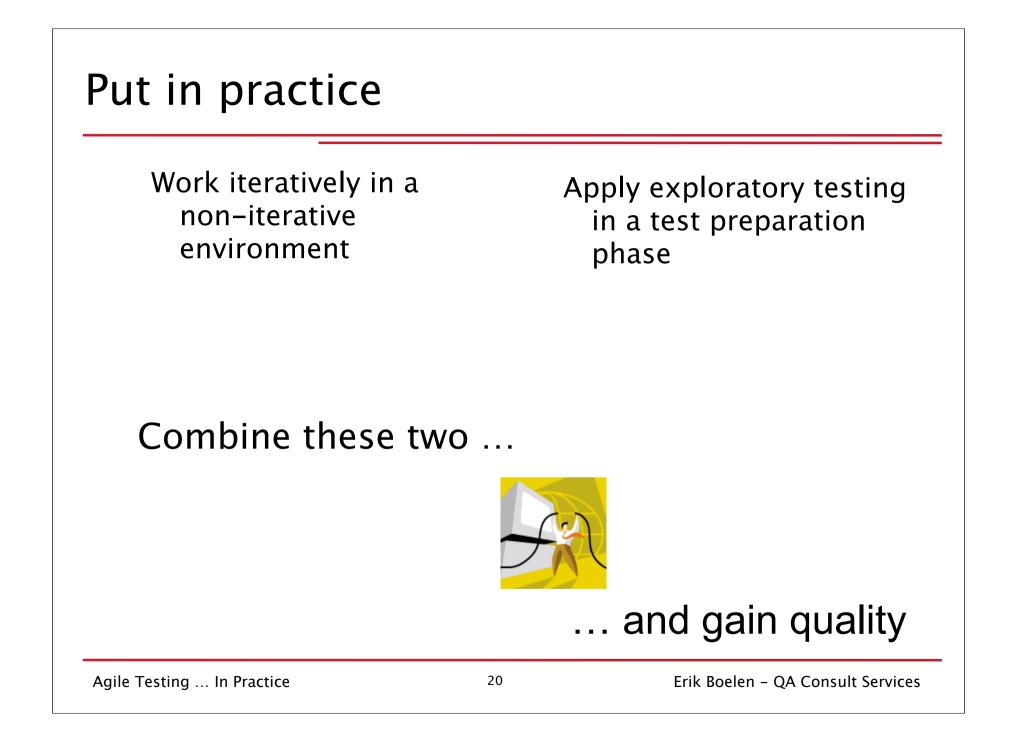
My favorite item

Agile tester is tester adapted to agile environments

Comes naturally to testers

Exploratory testing

Agile Testing ... In Practice



### Background Info

#### The Assignment

Governmental environment Throughput time of 4 months 11 technicians

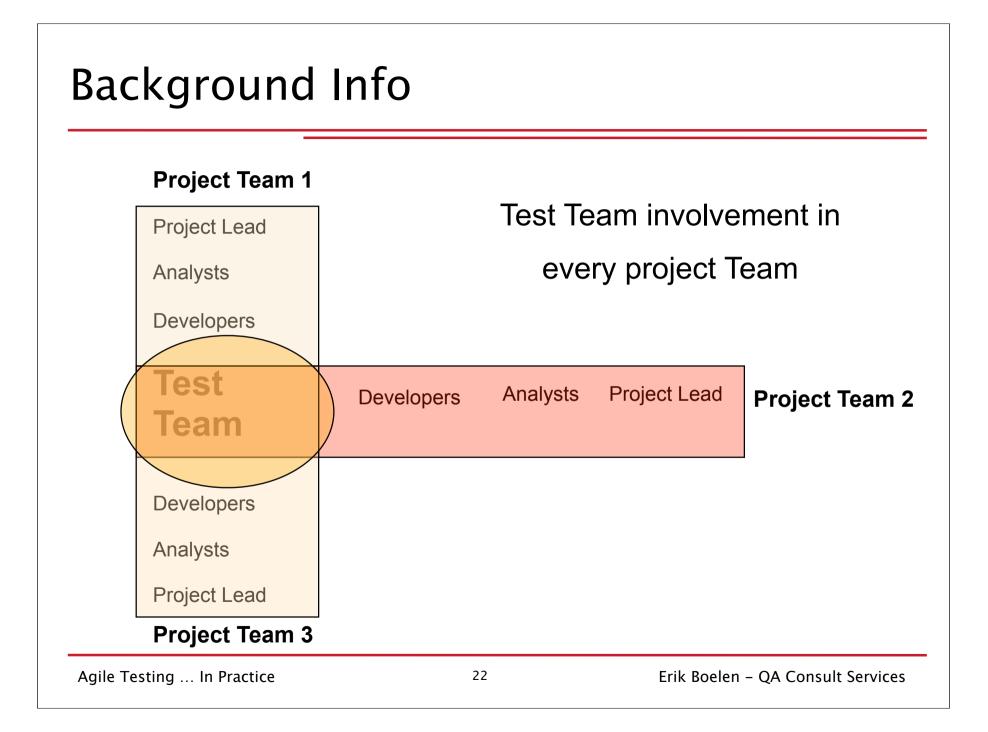
#### The Goal

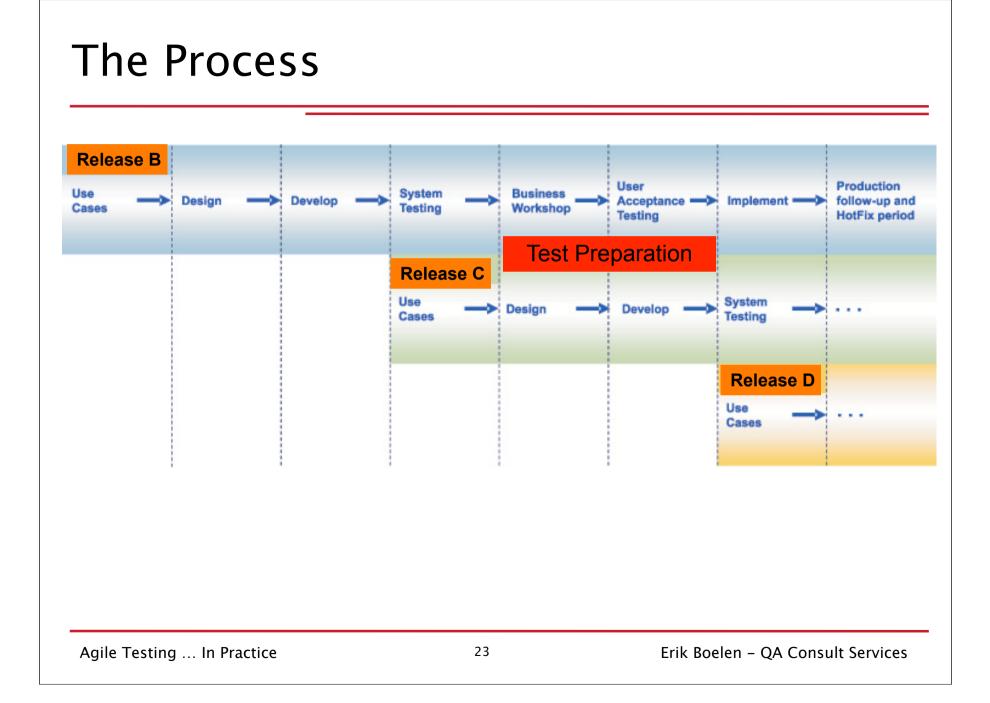
High quality system All user specifications met

#### The Test Team

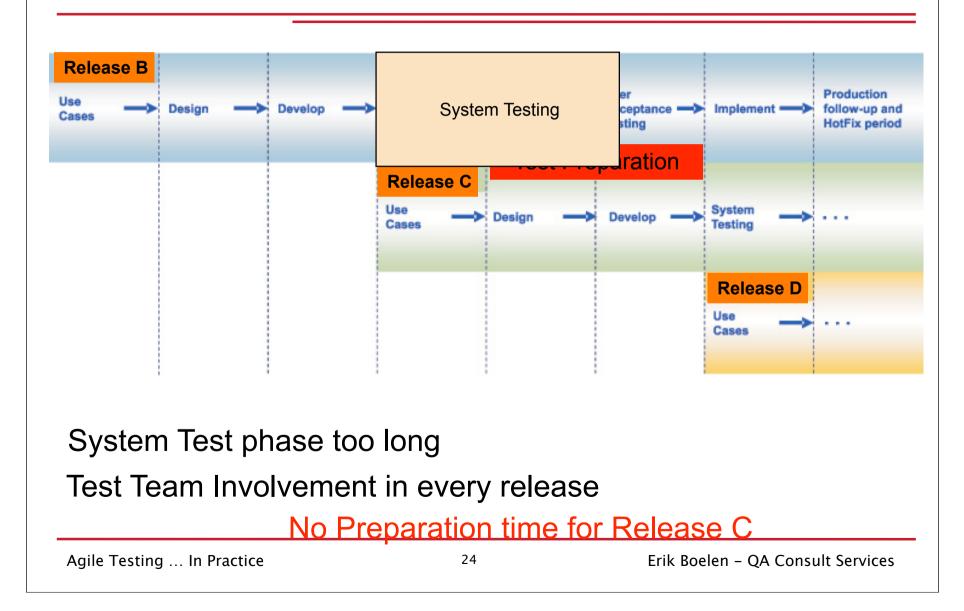
Small, only three persons Involved in every release for different project teams

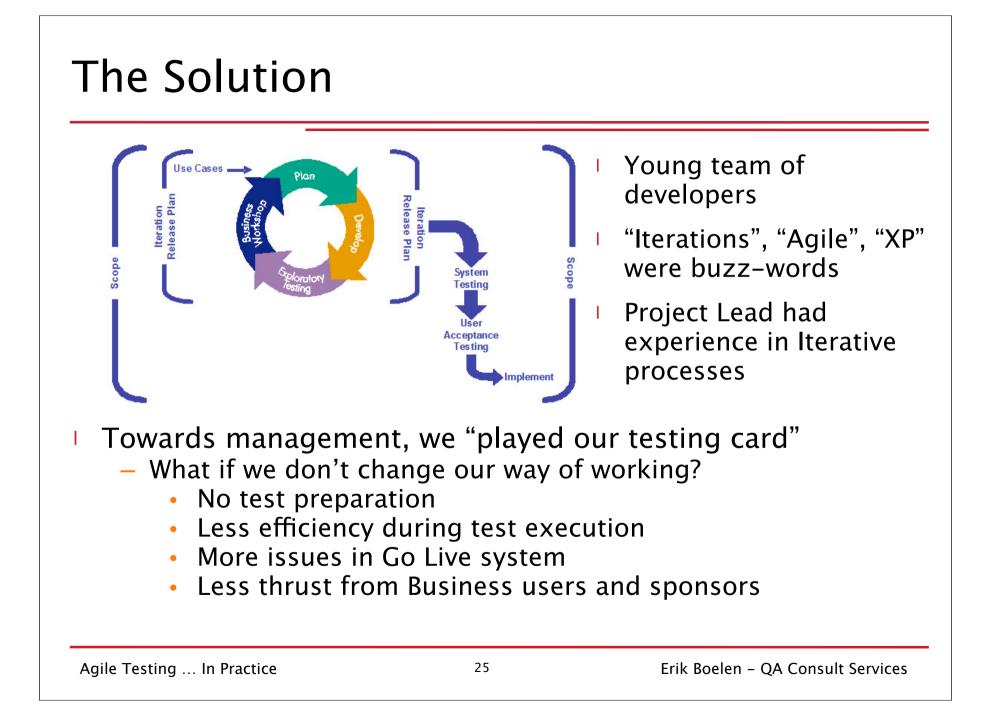
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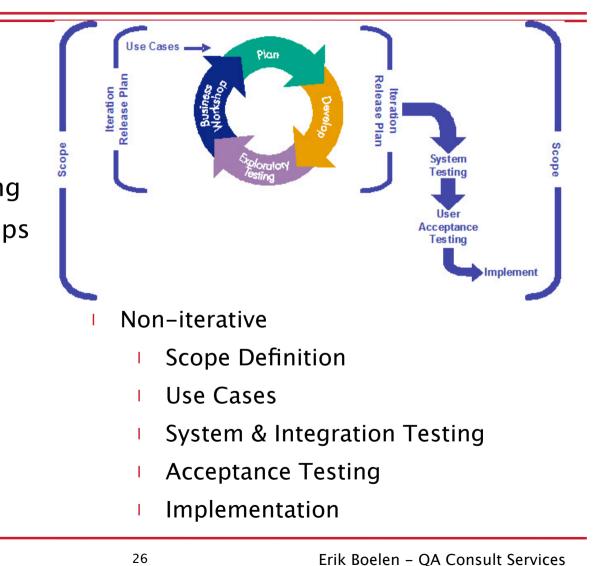
### The Process – Where it went wrong



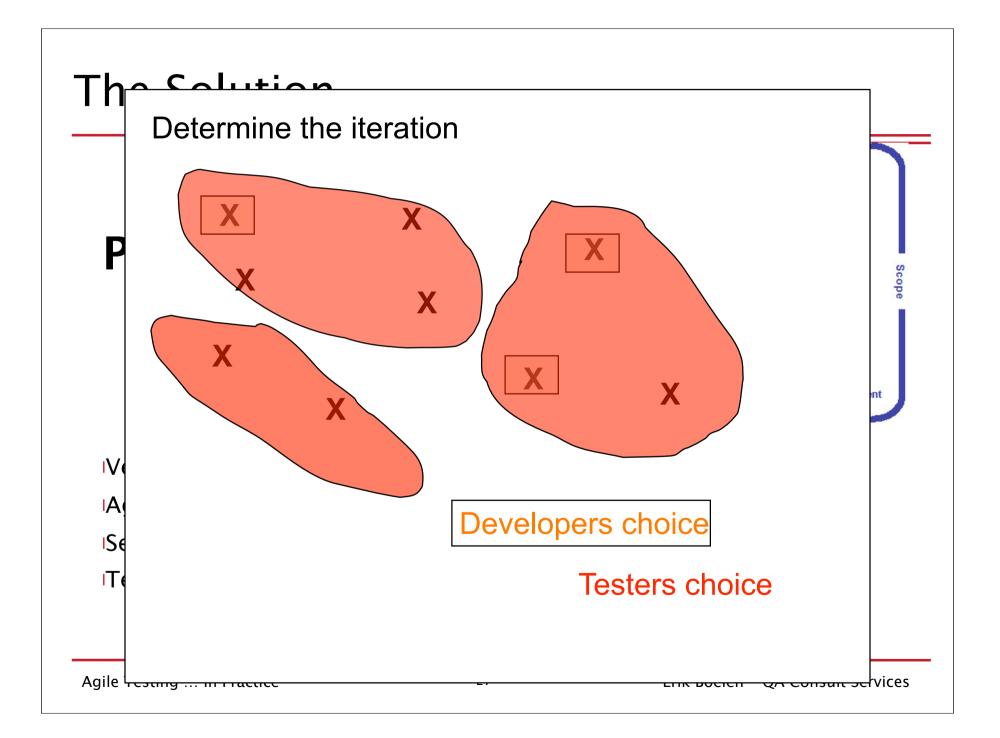


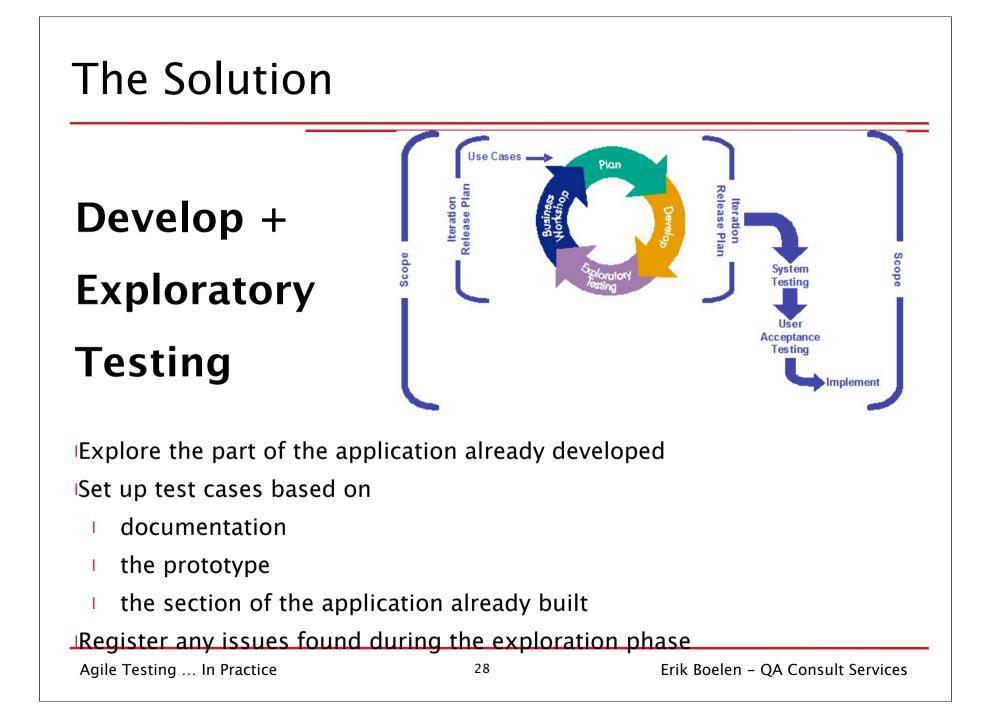
## The Solution

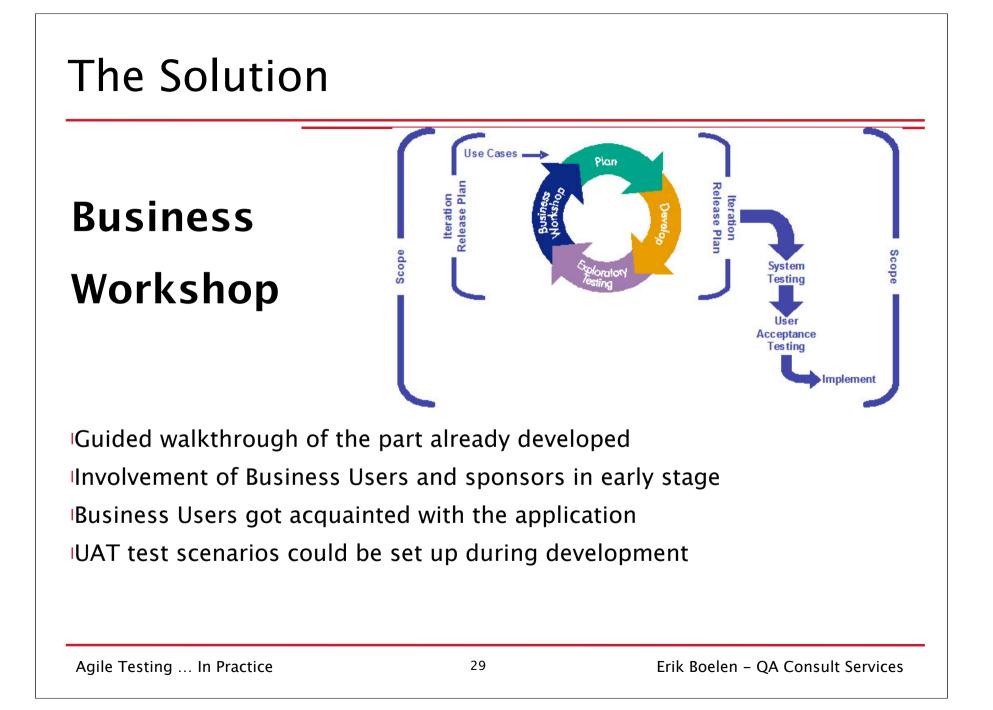
- Iterative
  - Plan
  - Development
  - **Exploratory Testing**
  - **Business Workshops**



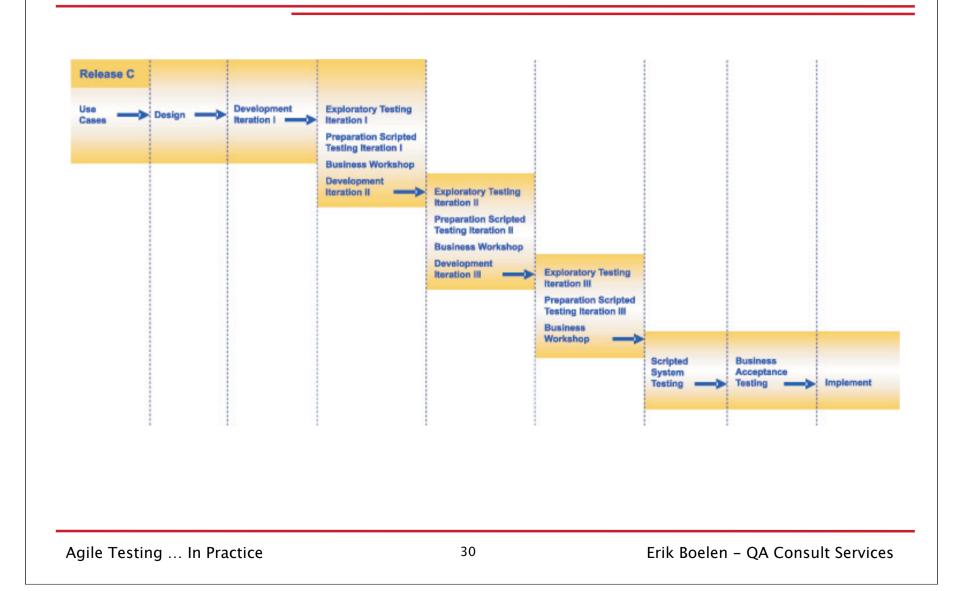
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### The Solution – Work Breakdown



### Results

#### • Overall results

- Better application knowledge
- Positive enhancements in team cooperation
- Detect major issues before the actual testing period
  - we improved quality and gained time
- The exploratory testing iterations forced us to
  - explore the application in greater detail
  - ask more questions of analysts
  - communicate more extensively with business users
  - our application knowledge increased significantly
  - enhanced application knowledge will be used and further improved in future releases by the test engineers.

### Results cont'd

#### System testing

- Planned for five weeks
- Exploratory testing iterations
- Actual throughput time was two weeks

#### User acceptance testing

- Planned for three weeks
- Users were well-informed about the application thanks to the business workshops
- Users had already developed ideas about what needed to be tested during this phase
- We gained thrust of Business Users and sponsors
- Users end-to-end test cases covered the entire application
- Actual throughput time was two weeks

### Conclusion

- Approach can be applied in different situations
- Involvement of all different parties is crucial
- Use this approach to increase team cooperation

Take your team in an iterative direction

#### BUT

- Make sure that you're up for the job
- Not everybody is an agile tester
- It's definitively worthwhile to try

#### Agile Testing ... In Practice