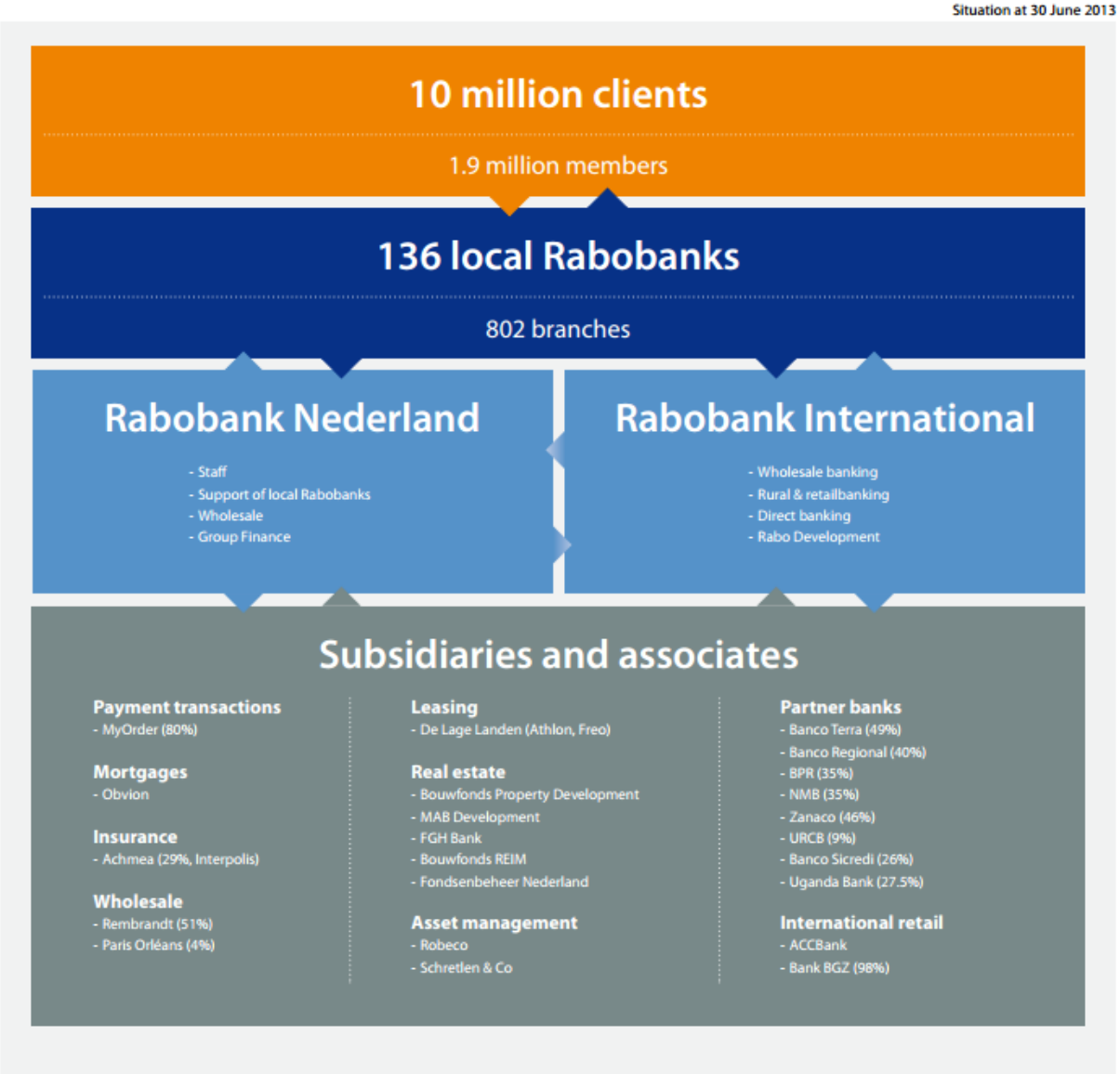
Result Driven Testing

Changing the test policy
at Rabobank International

Rabobank Organisation



Rabobank International



Information Systems &Development

IS&D Global

Services & IT Risk Management	
Strategy & Architecture	
Business Management	
GFM IT	7 Testers
GFM Operations IT	17 Testers
Corporate Banking IT	22 Testers
Risk IT	26 Testers
Finance IT	11 Testers

Previous testing policy







TMap, TPI en TAKT was the basis of the previous strategy

With a minor influence by ISTQB standards

Process oriented



- Lots of process oriented information
- Definitions
- Role descriptions
- Document descriptions
- What to do and what not to do

  (and sometimes in which order…)

Diversity



- Uniformity was created while respecting business line differences
- As a consequence testing was done in many diverse variations
- Little exchange of practical ideas

So did it work?



- The policy contained a lot of information but was difficult to follow in practice

- As a response templates were developed. These were used most of the time (…as use was mandatory)

  Usage did however not mean that theire content was adhered to or understood

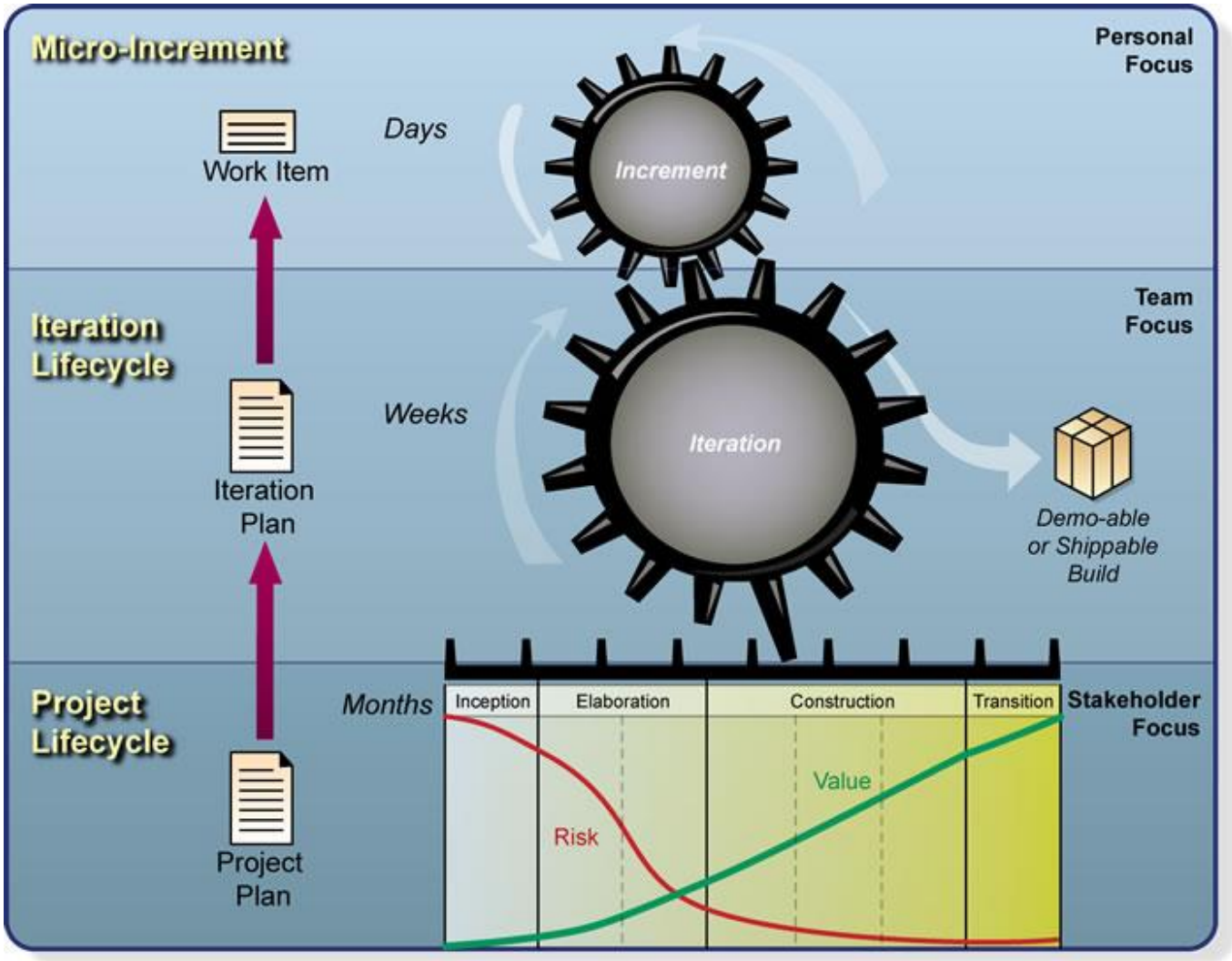
- Testers felt the policy did not connect to everyday reality

- But testing they did…

Change



Agile OpenUP



OpenUP Awareness

Ok and then?

Rapid Software Testing

Practices:

- ***Risk Value Lifecycle***
- Continuous re-evaluate what you do?
- **Iterative development**
- ***Whole team***
- *Agile dashboard*
- Requirements from a user perspective
- ***Prioritize requirements before implementation***
- Create a shared understanding of the domain
- **Test Driven Development**
- Evolutionary Architecture
- *Concurrent Testing*
- Continous Integration
- **Embrace and manage change**
- Measure progress objectively

Agile Testen

Exploratory Testing

Training


AGILE MASTERY
EMPOWER YOURSELF
Agile Awareness
Agile Behaviour
Risk Management
Agile Requirements
Planning & Estimation
How many building blocks do you have?

Workgroups

The new practices were (partly) implemented by forming a number of workgroups



Testing Dojo



What is a testing dojo?
A testing dojo is a gathering of software testings with the intend to work or learn from a challenge

Purpose of testing dojo

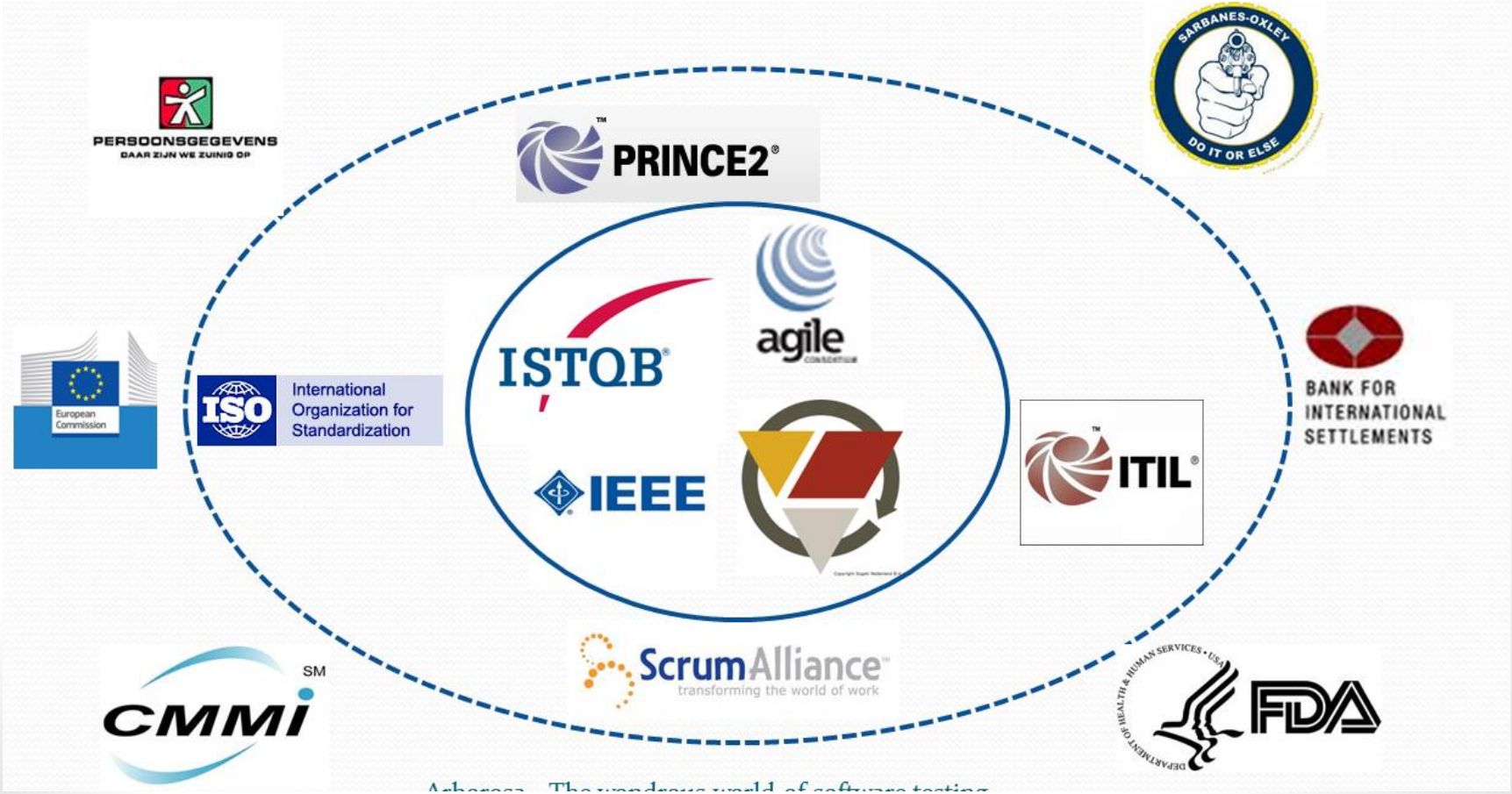
- Focus on a specific subject or problem
- To evaluate tooling
- Learn, learn, learn

Testing dojo themes

- Session based test management
- Exploratory Testing

The rules

The environment surounding testing however stays more or less the same. It still is a bank with ever increasing regulation.



A new test policy

Basics

Testing is performed concurrently with all roles
and by all members of
a ‘cross-functional’ team

Testing is based on risk analysis prioritization

Test results are traceable to
requirements and change requests

Testers are involved in all software
development and configuration activities

Testing is to be automated as much as possible
but only if it is efficient and/or
enhances the quality of testing

A new policy



Strategy and planning

- **Strategy**
  - Product Risk Analysis
  - Test Product Breakdown
  - Acceptance Criteria
  - Mitigation
- **Planning**
  - Generic Test Agreement – Test Plan
  - Master Test Plan – Test Plan

A new policy



Testing

- **Purpose**
  - To deliver information
  - Focussed on the discovery of differences between the demands, expectations and the actual behavior of the product or its results
- **Design**
  - Based on, but not limited to, the test strategy
  - Scripts, scenarios or charters related to a test object
- **Results**
  - Test results have to be informative to the stakeholders
  - Test results have to be traceable and reproducable

A new policy



Reporting

- **Throughout the whole project**
  - Not only at the end
- **Contains information about the product**
  - What does it do / what doesn't it do
  - Information is stakeholder specific
- **Contains information about testing**
  - Deviations of the test strategy / problems / successes
  - Influences on testing results
- **Information about the 'quality' of the product**
  - In relation to the (stakeholder specific) acceptance criteria

The future…

Many of the new ideas in the test policy were based on:

Agile Principles

- *…to satisfy the customer through early and continuous delivery of valuable software.*
- *Welcome changing requirements, even late in development. Agile processes harness change …*
- *Deliver working software frequently, ….*
- *Business people and developers must work together daily throughout the project.*
- *Build projects around motivated individuals….*
- *…face-to-face conversation.*
- *Working software is the primary measure…*
- *Agile processes promote sustainable development….*
- *Continuous attention to technical excellence and good design enhances agility.*
- *Simplicity is essential.*
- *The best architectures, requirements, and designs emerge from self-organizing teams.*
- *At regular intervals, the team reflects …..*

Context-Driven Testing principles

- *The value of any practice depends on its context.*
- *There are good practices in context, but there are no best practices.*
- *People, working together, are the most important part of any project's context.*
- *Projects unfold over time in ways that are often not predictable.*
- *The product is a solution. If the problem isn't solved, the product doesn't work.*
- *Good software testing is a challenging intellectual process.*
- *Only through judgment and skill, exercised cooperatively throughout the entire project, are we able to do the right things at the right times to effectively test our products.*

Questions



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http://arborosa.org

Sources

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