



LogicaCMG & Testing: **TestFrame & RRBT**

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Introduction, reason for this presentation



- EuroSTAR 2005:
one-day tutorial called
“Outsourcing / Offshoring
under Control”

Who is Rik Marselis

- Senior Test Advisor, working for LogicaCMG since 8 years
- 25 years in IT
- 12 years in testing and quality assurance
- board member of Dutch Testing Qualifications Board (ISTQB branch for Belgium and Netherlands)
- member of organisation committee of TestNet (= SAST of the Netherlands)
- accredited ISTQB foundation tutor
- certified Prince2 practitioner
- certified ISEB practitioner



About LogicaCMG

- > 30,000 employees worldwide
- 36 countries
- > 40 years experience in IT services
- Offers a wide range of IT-solutions
- Specialised in industry-specific solutions



LogicaCMG & Software Testing

- 2500 Test Professionals world-wide
- Test Research Centre in the Netherlands
 - TestFrame method & tooling
 - Test management: Risk & Requirement Based Testing
 - Business Acceptance Management & Business Acceptance Testing
 - ERP & Testing
 - STAPPIN (Module based testing of standard desktop or server configurations)
 - Technical TestFrame

logicaCMG
One global team



Testing credentials



... LogicaCMG's knowledge & experience in testing is based on more than 1,000 test projects over the world

Now let's talk about:

TESTING !

Agenda this afternoon

- 13:25 – 14:05 Part 1: TestFrame
- 14:50 – 15:30 Part 2: Outsourcing/Offshoring – The challenges
- 15:40 – 16:30 Part 3: Outsourcing/Offshoring – Under control

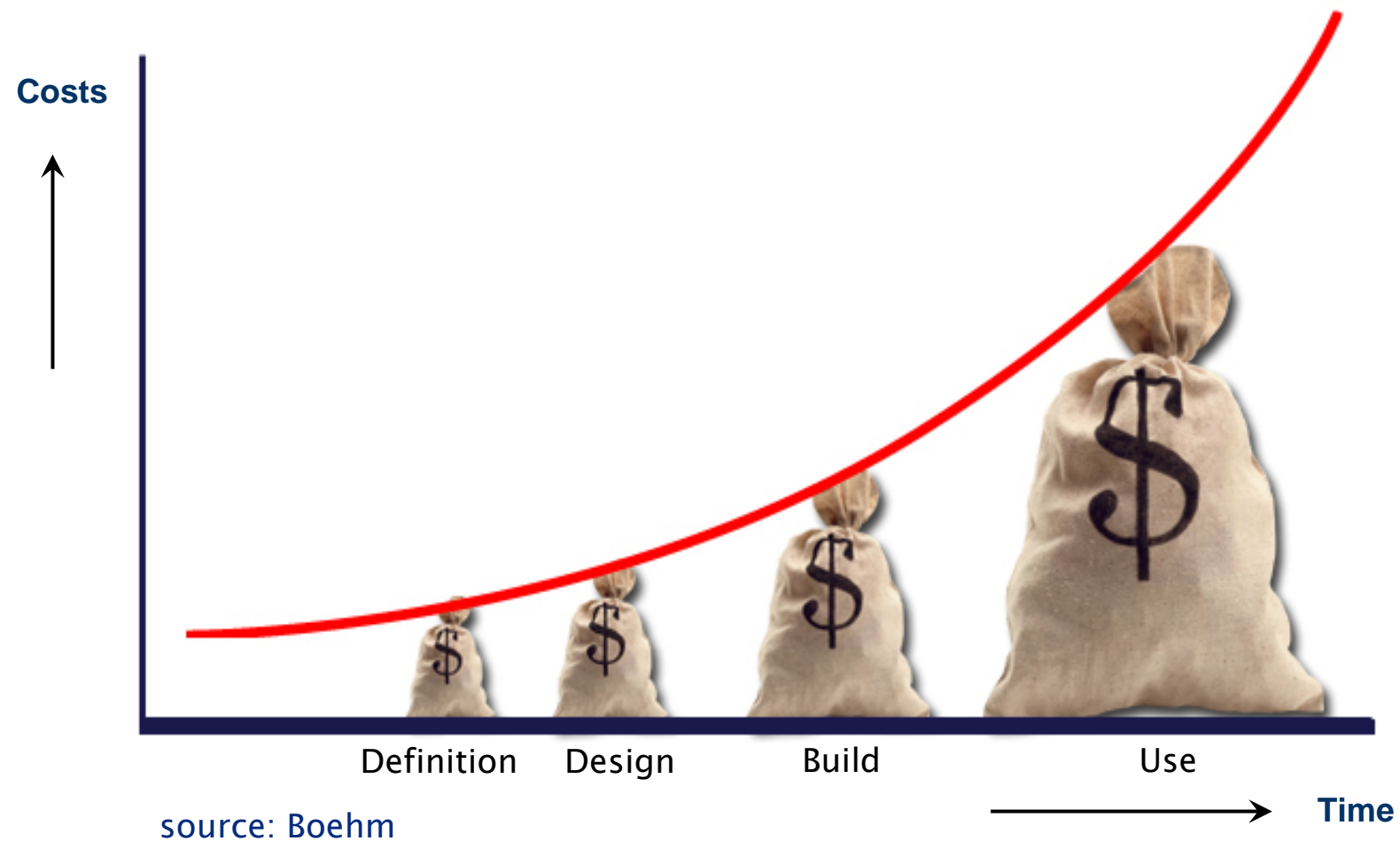
Agenda Part 1: TestFrame

- Introduction
- Position various test solutions
- Risk & Requirement Based Testing (RRBT)
- TestFrame
 - TestFrame model
 - TestFrame phases & approach
 - Conclusion

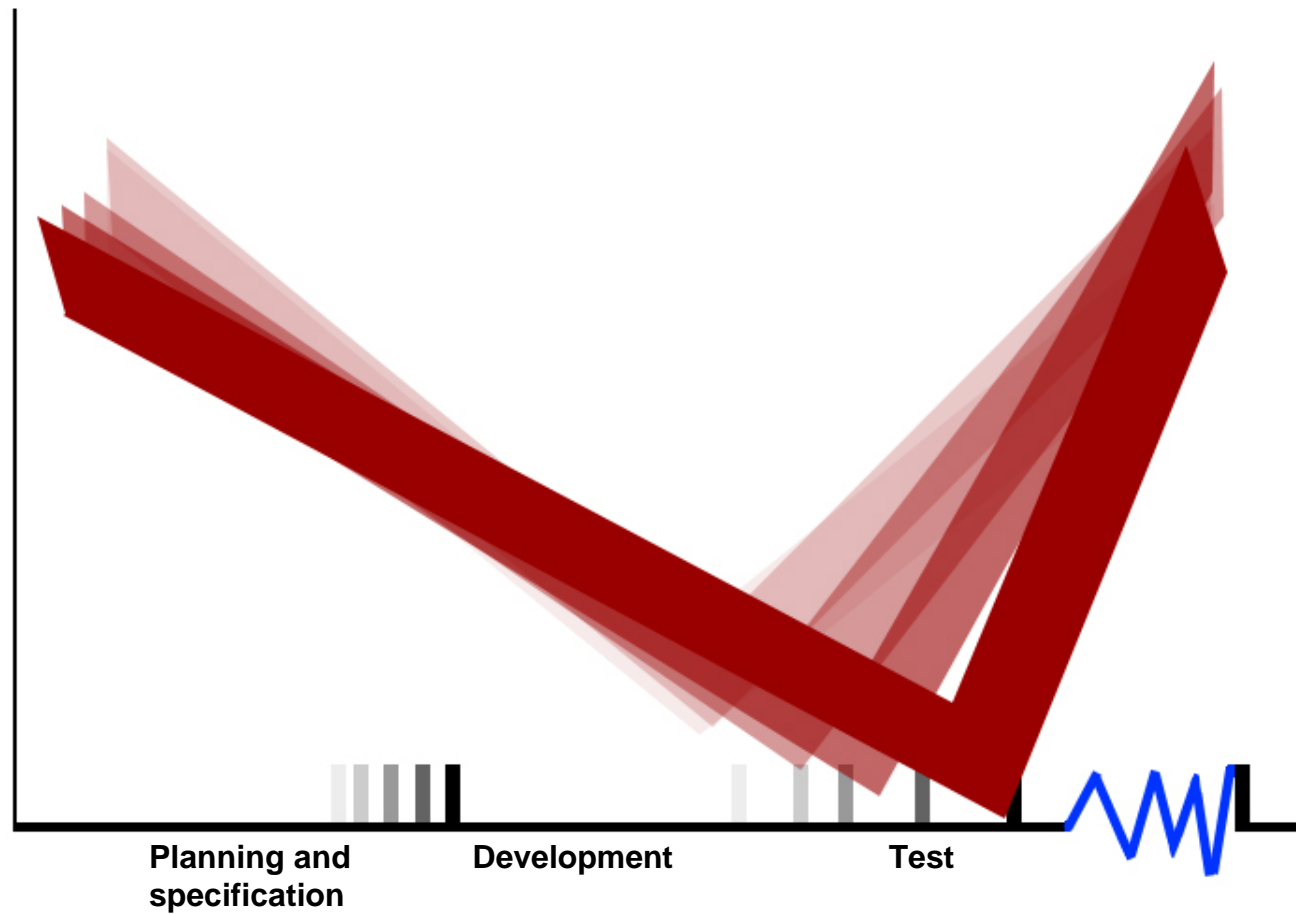
Facts of life for testers

Testing of systems

The later you find faults, the more it costs to solve them

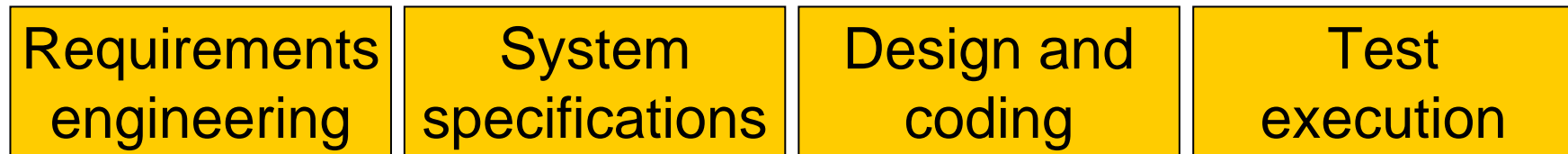


Testing (esp. test execution) is often under pressure

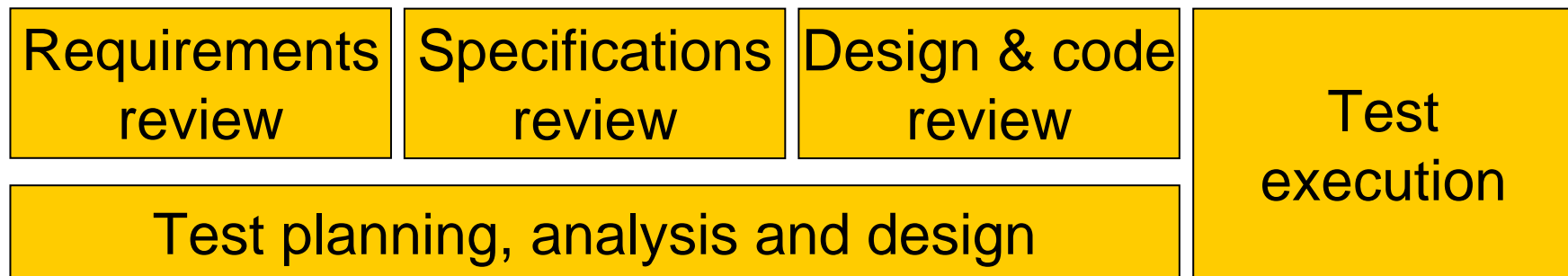


Testing in parallel to the development activities

Development activities

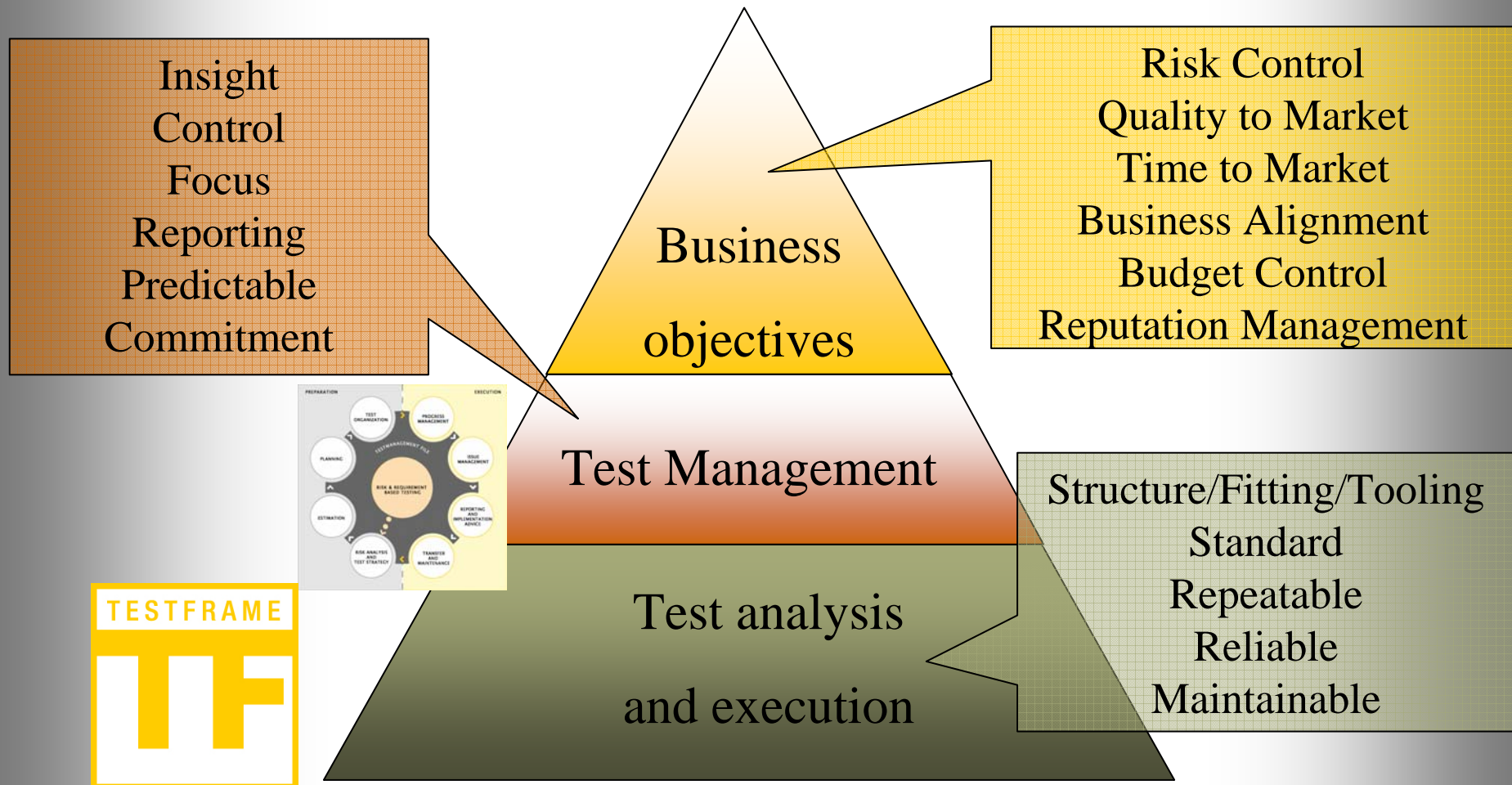


Testing activities

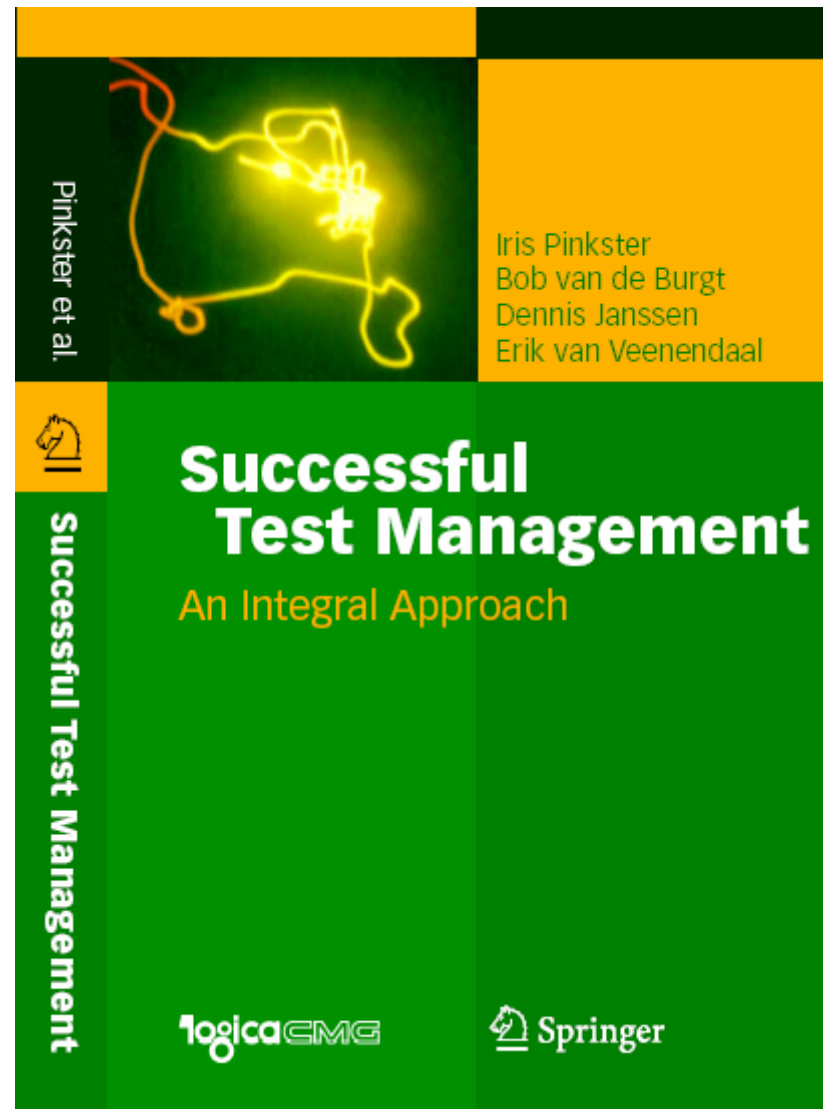
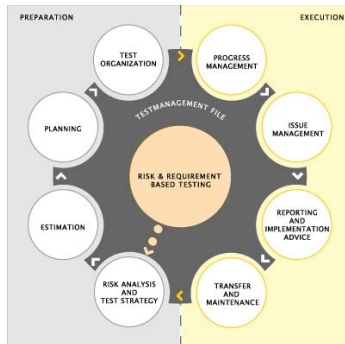


Facts of life for testers: Our way to handle them

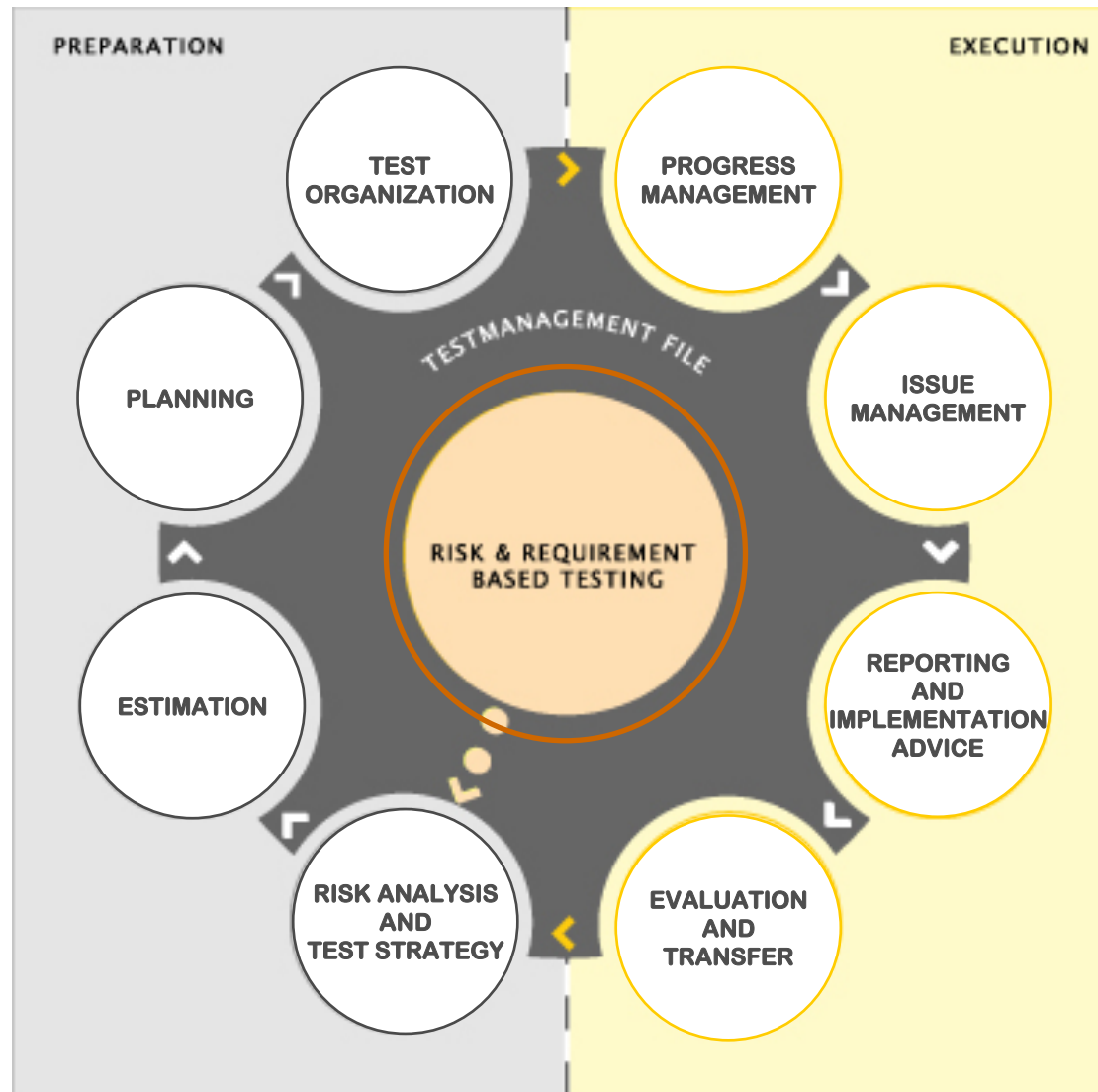
Position various solutions



Risk & Requirement Based Testing



Test Management Model



Product risks versus requirements

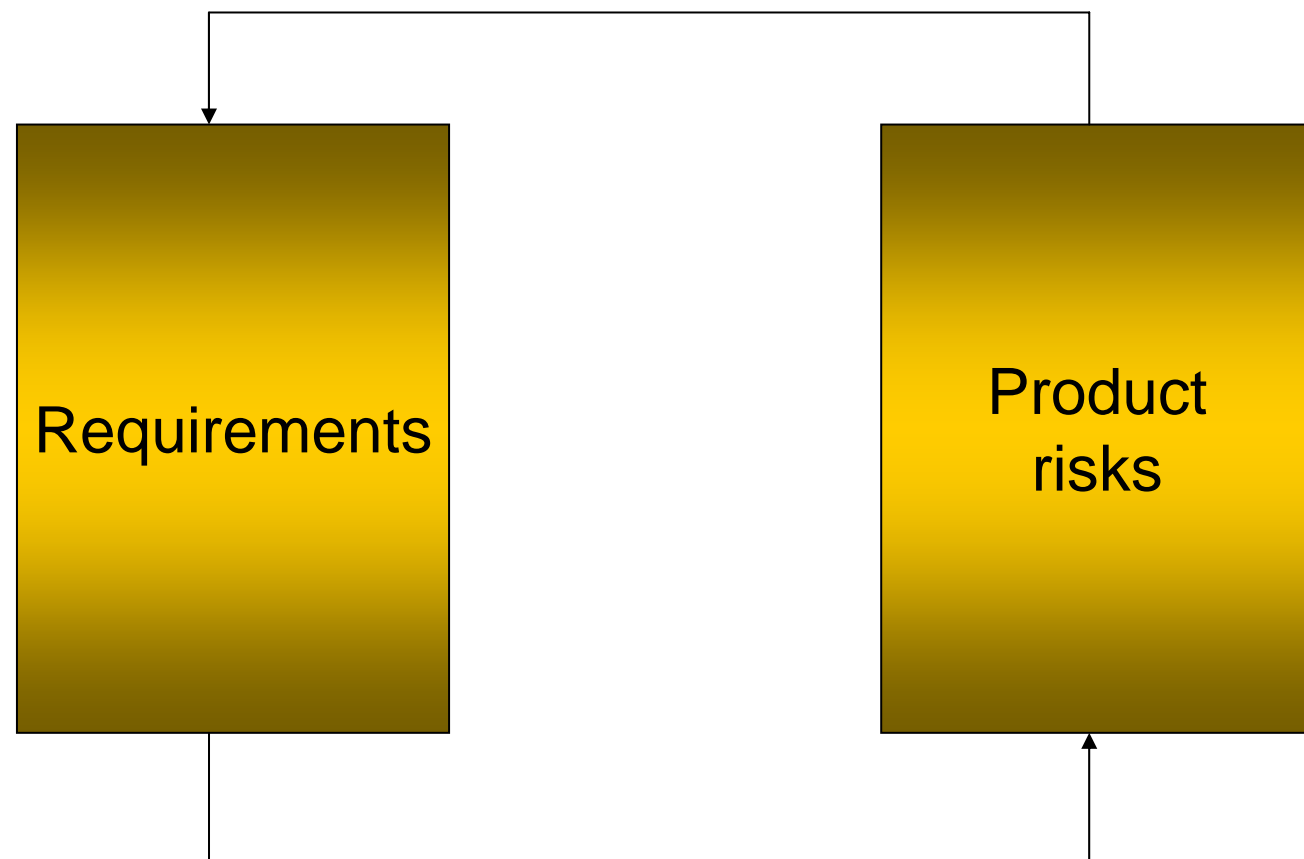
Matching risks and requirements

A risk, no requirement:

- Add requirement (find faults earlier)
- Remove risk (don't test more than necessary)

A requirement, no risk:

- Adjust risk list (better coverage of testing)
- Remove requirement (don't develop more than necessary, no "frills")



Matching requirements and risks

Testing under pressure, the Strategic Test Slicing Method (STSM)

OUCH!!

Must test:

- ...
- ...
- ...
- ...

Should test:

- ...
- ...
- ...
- ...
- ...
- ...
- ...

Could test:

- ...
- ...
- ...
- ...

Won't test:

- ...
- ...

Risk & Requirement Based Testing

Added value:

- Product risks: use the same language as stakeholders
- Unambiguous method for prioritizing product risks
- Detect gaps in requirements
- Good base for managing progress of test project

TestFrame



Integrated Test Design & Automation

Using the TestFrame Method

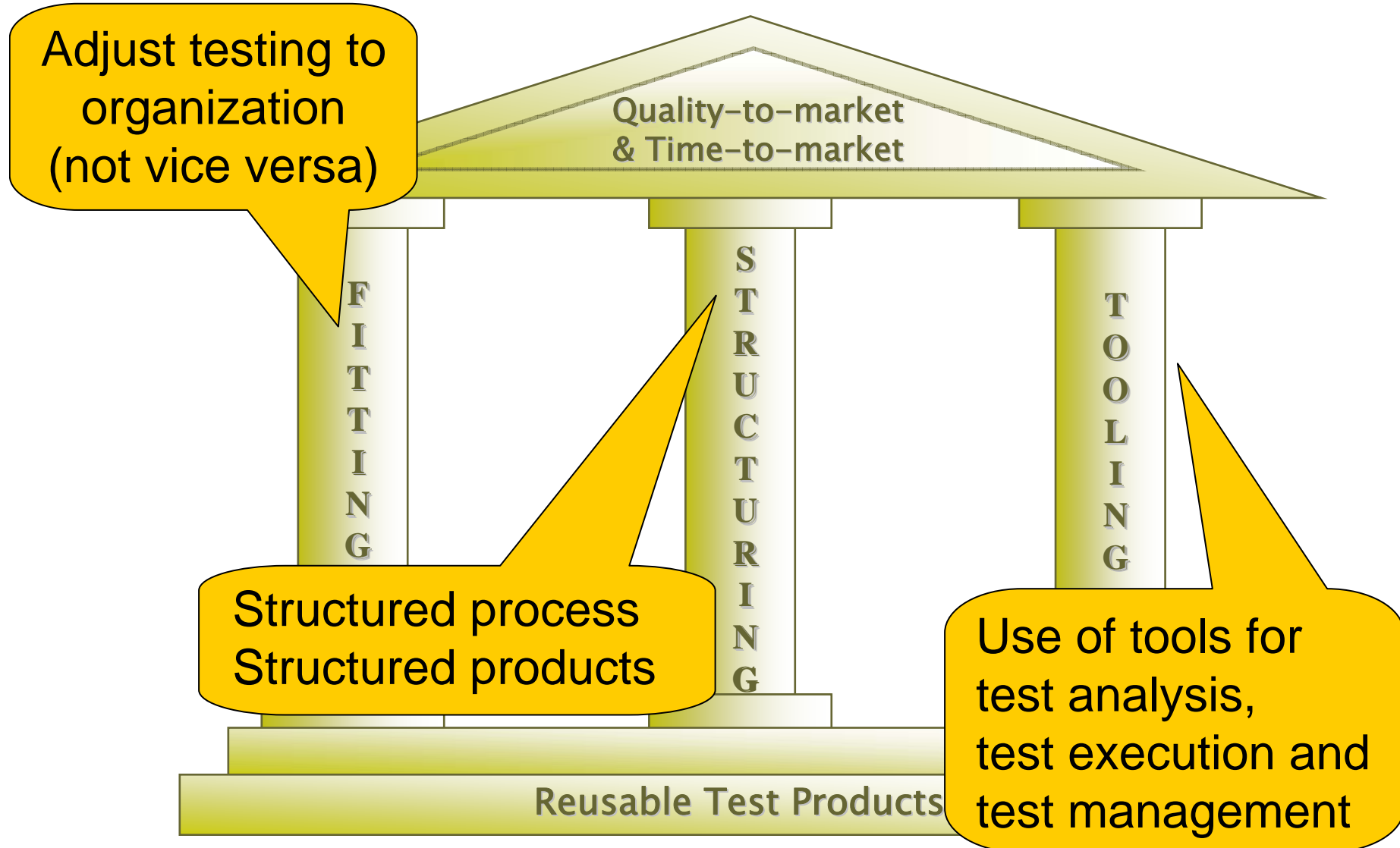
Hans Buwalda, Dennis Janssen, Iris Pinkster



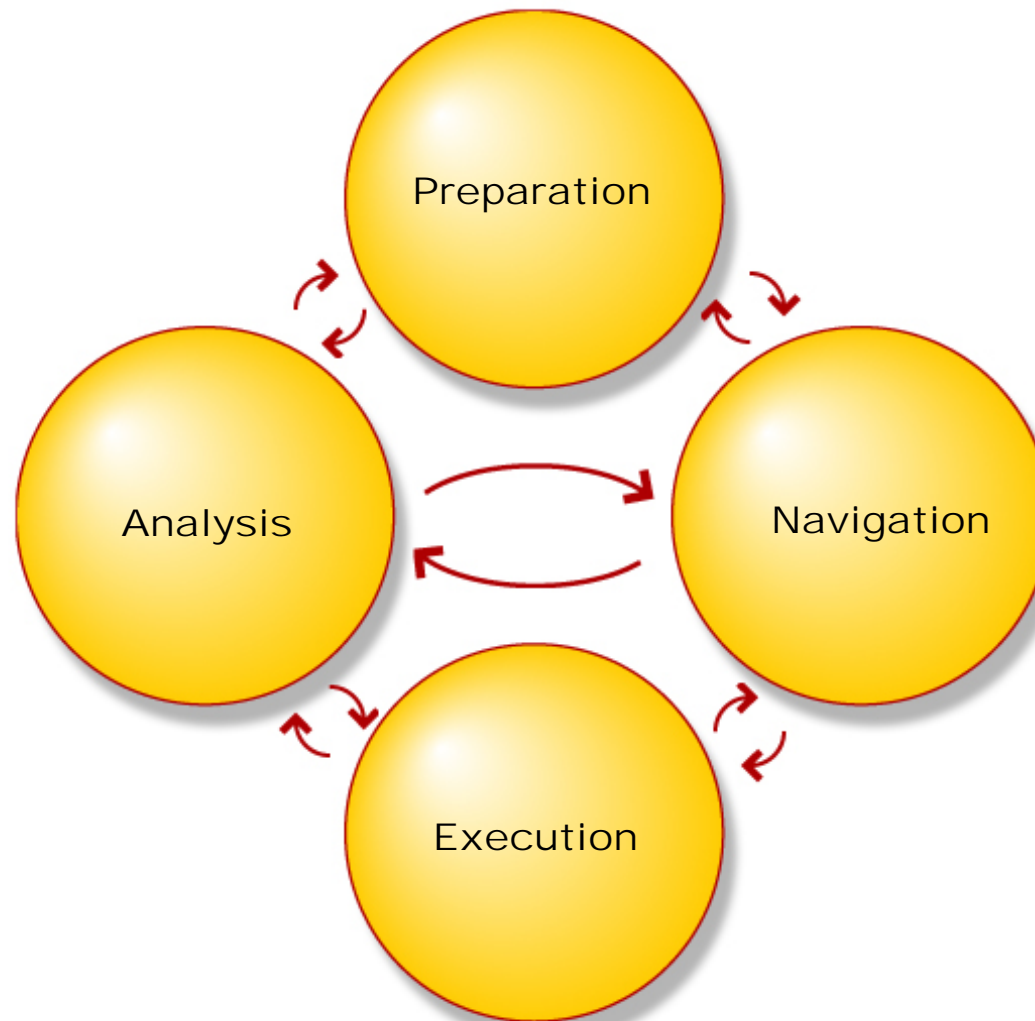
TestFrame

- LogicaCMG's method for structured testing
 - Testing plays a role in quality
 - Verifying test process and products
 - Working in a structured way
 - Testing takes effort
 - Re-use defined products
 - Optimal use of tools
 - Testing is not a goal, it is used to reach a goal
 - Use consciously and goal-oriented
 - Risk analysis
 - Testing has to fit with development method and organization
 - Flexible and fitting

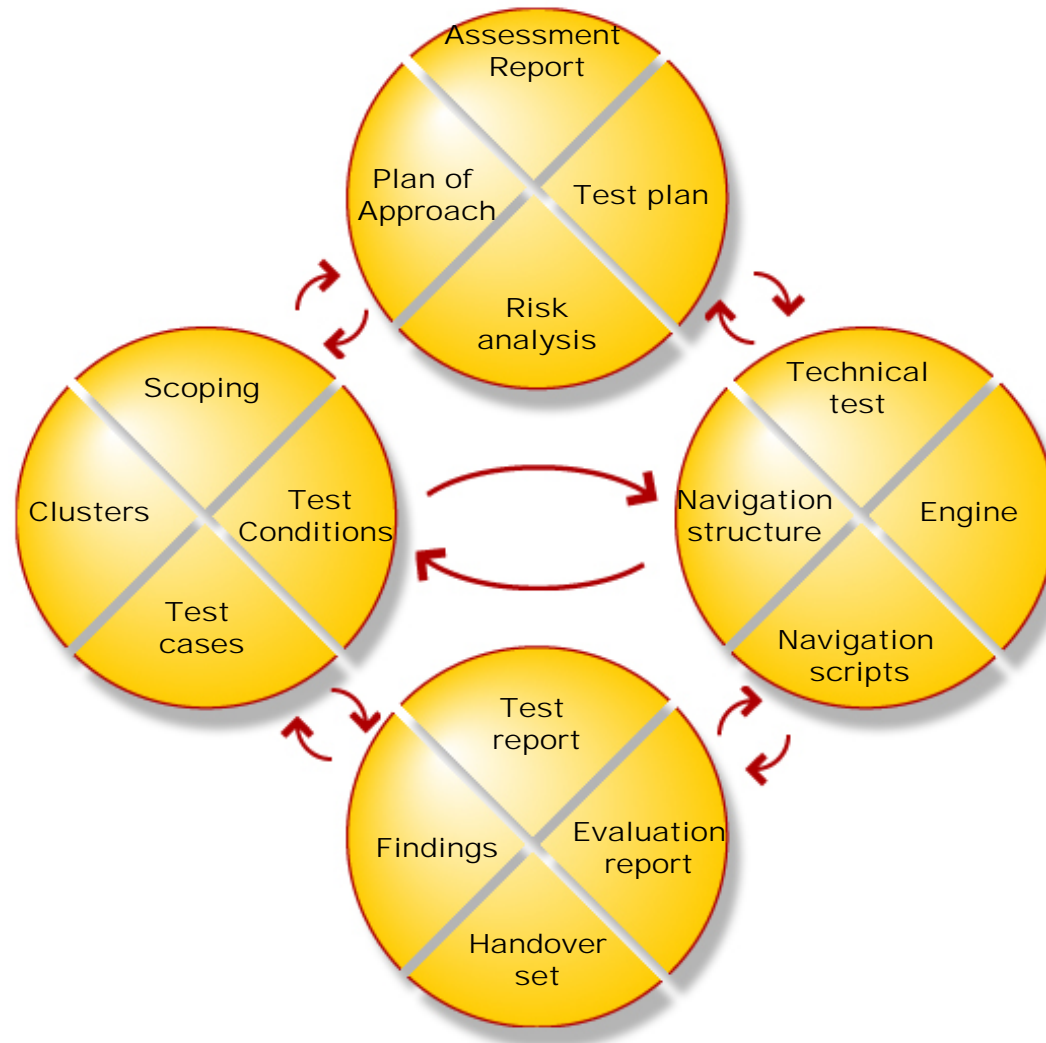
TestFrame model



TestFrame phases



TestFrame products



Test Clusters, Test Conditions and Test Cases in Excel

Microsoft Excel - Demo Testcluster SAST.xls

File Edit View Insert Format Tools Data Window TestFrame Help

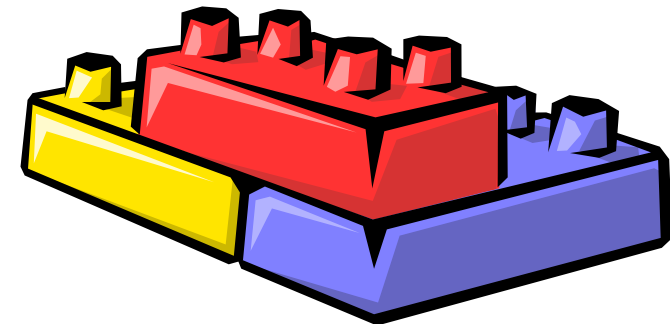
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	A	B	C	D	E	H
4	testcluster	Demo for SAST event	subtestcluster ID	SAST1	Testrun by Test Priority Aut numbering fix ation Grouping conditions/cases	Test Priority
5			subtestcluster Name	pension demo		Not defined
6	version	1.0	date last modification	04 May 2006		Must Test
7	date	04 May 2006	last modified by	Rik Marselis		Should Test
8	author	Rik Marselis			Could Test	Won't Test
9	authorised by	the audience	<signature>			
10	Number of testconditions	1				
11	Number of testcases	3				
12		This testcluster is meant to give the SAST audience a glimpse of our standard way of documenting testware				
13						
14	testcondition	SAST1C10	If someone is 65 years or older he gets a pension			Must Test
15		See user requirement number 1234				
16	testcase	SAST1C10T10	If someone is 64 years he will not get a pension			Must Test
17		This is a boundary value test for someone who is not entitled to a pension				
18		name	age			
19	Enter application	Johanson	64			
20		name	pension status			
21	Check pension status	Johanson	NO			
22						
23	testcase	SAST1C10T20	If someone is 65 years he will indeed get a pension			Must Test
24		This is a boundary value test for someone who is entitled to a pension				
25		name	age			
26	Enter application	Peterson	65			
27		name	pension status			
28	Check pension status	Peterson	YES			
29						
30	testcase	SAST1C10T30	If someone is 66 years he will indeed get a pension			Should Test
31		This is a boundary value test for someone who is entitled to a pension				
32		name	age			
33	Enter application	Carlsson	66			
34		name	pension status			
35	Check pension status	Carlsson	YES			
36						
37						
38						

Clustercard / Version information / SAST1 / SAST2 / Other / Test status / Summary testresult / Quality after Run

Testing with action words (1)

- Identify the smallest functional test step
- Assign an action word to every step
- Add parameters
- Use the action words when defining test cases and test scenario's
- When necessary: automate the action words



Testing with action words (2)

A	B	C	D
...			
<i>check balance</i>	Taylor	0	
<i>transfer</i>	Houston	Taylor	210
<i>check balance</i>	Taylor	210	
<i>transfer</i>	Smith	Taylor	150
<i>check balance</i>	Taylor	360	
...			

Test cluster

Test preparation and
- specification

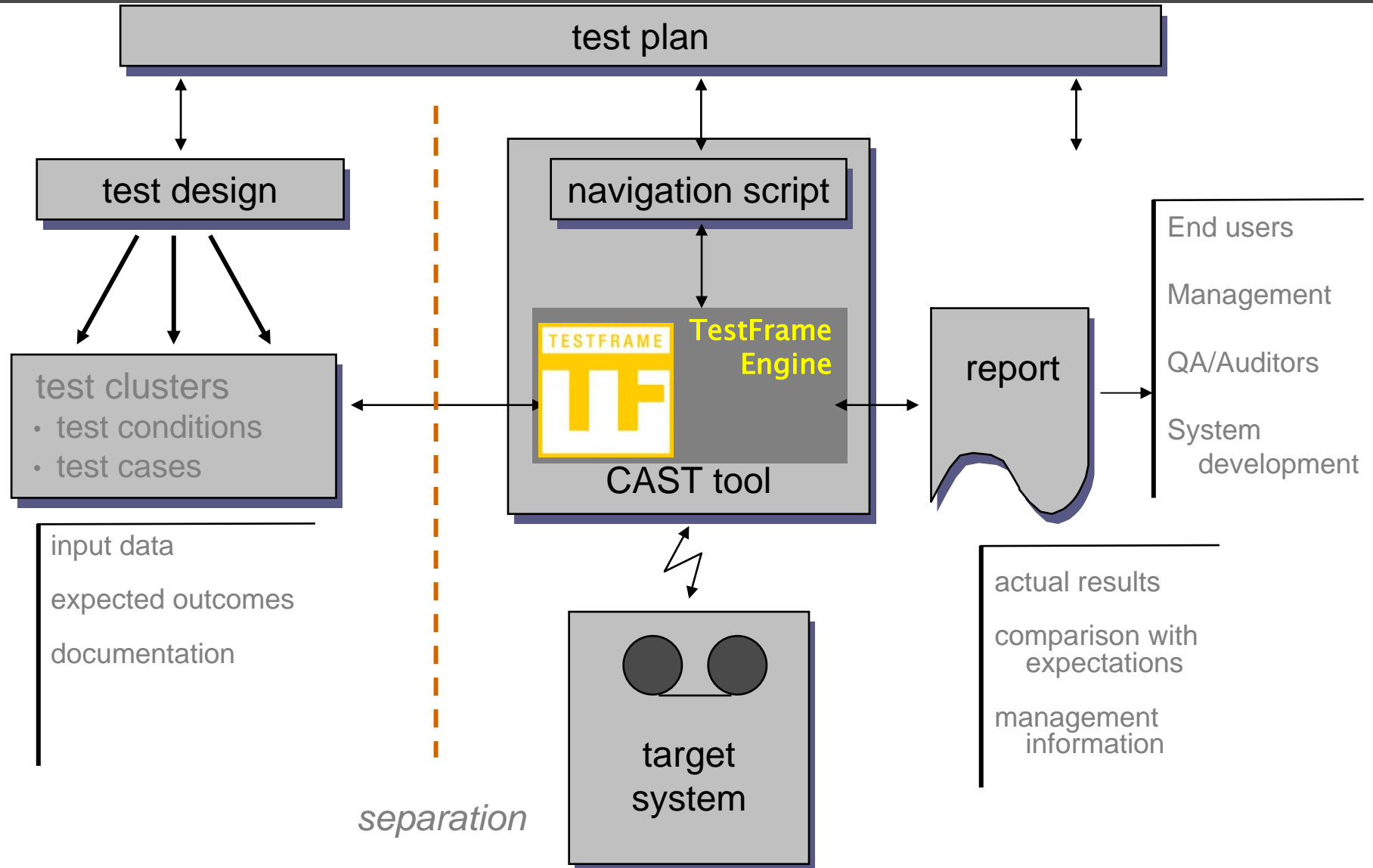
Automated
test execution

Navigation script

Test execution

...	
check balance	→
transfer	→
...	

TestFrame test automation



TestFrame: facts & advantages

- Easy accessible and well maintainable test products
- Early start possible and therefore time saving at the end of the project
- Effort “scarce” experts is minimized
- Better steering and control test execution process
- Test automation possible without adjustments to test documentation
- Test automation also possible when application is not 100% correct
- Easy reporting on test execution status and test results

Conclusion

*"I didn't test it,
but I assume it's
gonna work"*

TestFrame is a Framework,

an approach for structured testing;

that is easily adapted to the needs of the business or organisation,
making use of the TestFrame engine in order to interface with
standard off-the-shelf test tools at any desired moment.

Fits seamlessly in (Test) Managed environments