

How TMap[®] can help testers

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SAST, Stockholm, 23 February 2012

My test history

- **In testing since 1984**
- **Started with test automation from laziness**
- **Missed situations to be tested: how to test?**
- **Test techniques needed!**
- **1985-1987 Dutch Tax Office test approach with a internal book, which was sold on the market**
- **1989 Report: unstructured testing is expensive and not manageable: projects out of control**
- **1995 all experiences brought together: TMap**
- **In 1999: update, more risk thinking**

Test & IT schools I know

- **Test schools**

- Context-driven
- Exploratory testing
- ISTQB (+200,000 certified testers)
- TMap (+50,000 books worldwide, certification is growing)
- Some local Dutch schools, mostly process based

- **Project management**

- Testing in agile projects (test is not mentioned in the agile manifesto & principles), we have a point of view document TMap.net
- Testing and PRINCE2, we have a white paper in the book TMap Test Topics

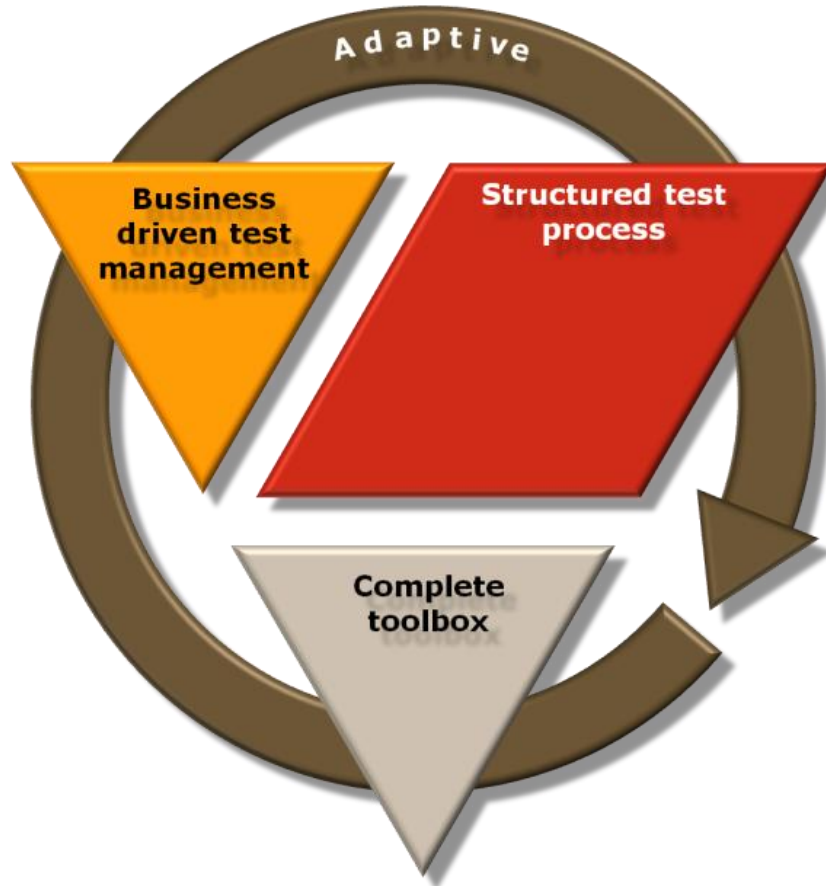
Principles behind

- **Testing is done in 'command', control is in place**
- **Testing as short as possible on the critical path of the project**
- **Makes is possible to do fixed price test assignments by a having**
 - estimation techniques and productivity metrics
- **Meant for all levels of test**
- **TMap = experienced based, always developed with customers and colleagues**

TMap typical

- **For the assigner / client / manager / boss → business case driven: time or cost or risk (BDTM)**
- **Make the process manageable → processes and toolbox (how-to)**
 - The test process must be as short as possible on the critical path of the project
- **Use of TMap in the project context → Adaptive**
- **Process is like PRINCE2 product based**
- **TMap is open**
Product templates and checklists are for available on TMap.net

TMap NEXT Essential



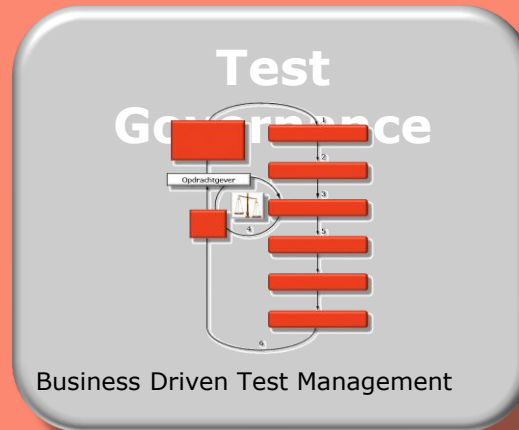
Governance

Corporate Governance

SOX, IFRS,
Basel III, SAS70, Solvency 2

IT Governance

Gartner demand-supply,
ISACA COBIT PRINCE2



Client/business makes always the decision



SOGETI

Test Governance based on Business Case

- Results
- Risks
- Time
- Costs

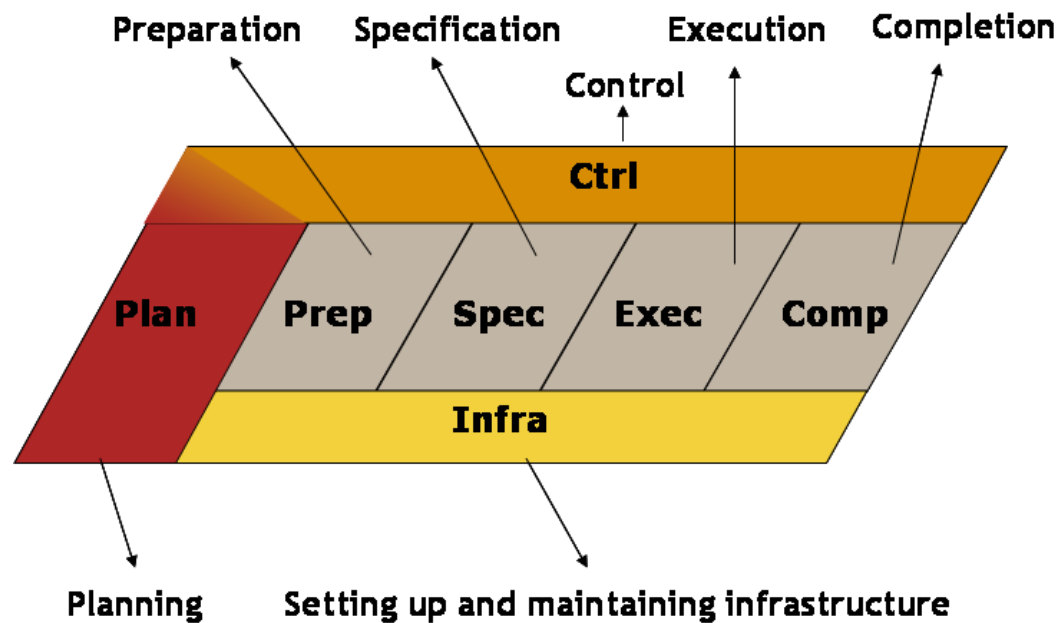


The Key to BDTM is Balance

Client/business makes always the decision



Structured test process



Complete tool box

- **Techniques**
 - how to test
- **Infrastructure**
 - where and with what to test
- **Organisation**
 - who tests in what organisation



Adaptive

Establish assignment, use clients language

Preserve infrastructure

Intake test basis, infrastructure and test object

Determine test process risks and measures

Control, report and adjust

Preserve test ware

Exploratory test

Insight and support to tailor your own toolset

Feedback priorities in result, risk, time or money

Evaluation

Useful tools

Pilot test tool introduction

Evolution of a test organisation

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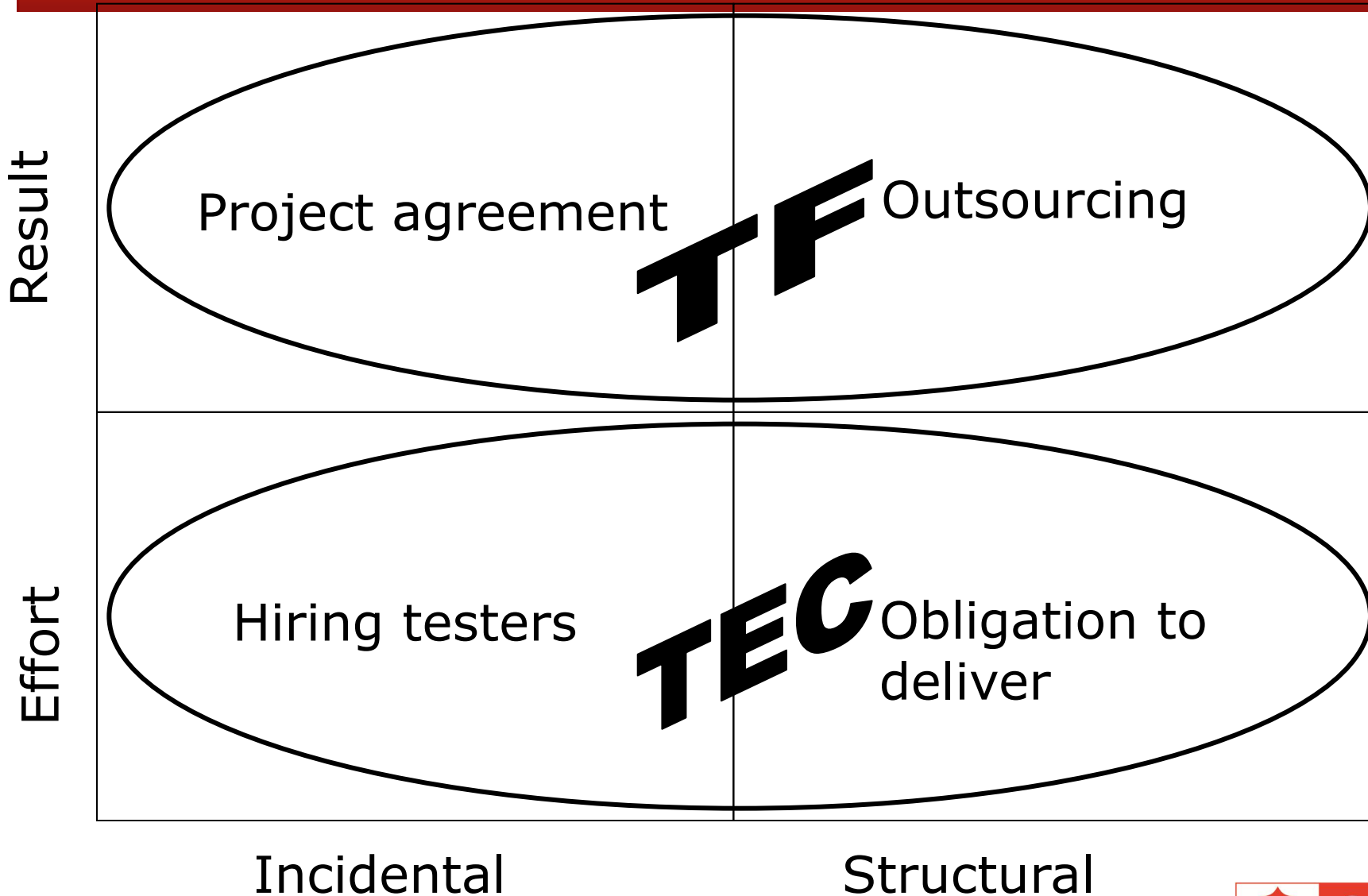
Adapted by more than 400 tips, cases and examples

How to organize testing?

- Test policy
- Permanent test organization
- Test organization in projects
- Test professional
- Test roles

Permanent
test organisation

Supplier of test services



PTO offers test services

ELEMENTS	ACTIVITIES																		
	supporting	presentation	training	coaching	advising	checking	Quality checking	execution of audit	reviewing	preserving	managing	maintaining	executing	executing	coordinating	R&D	developing	implementing	
Test tools																			
Defect management tool		X	X	X	X						X	X		XE	XE				
Test data tool																	X	X	
Test environment																			
ST environment														XR	XR				
AT environment														XR	XR				
Structured testing																			
Test plan		X	X	X	X						XR	XR		XE	XE				
Logical test design		X	X	X	X						XR	XR		XE	XE				
Physical test design		X	X	X	X						XR	XR		XE	XE				
Test scenario		X	X	X	X						XR	XR		XE	XE				
Test execution		X	X	X	X						XR	XR		XE	XE				

X = Service without obligation

XE = Service with obligation of effort

XR = Service with obligation to deliver results

Most easy: use a web portal

How to manage the test?

Plan

- **Master Test Plan**

- **Test plans for**

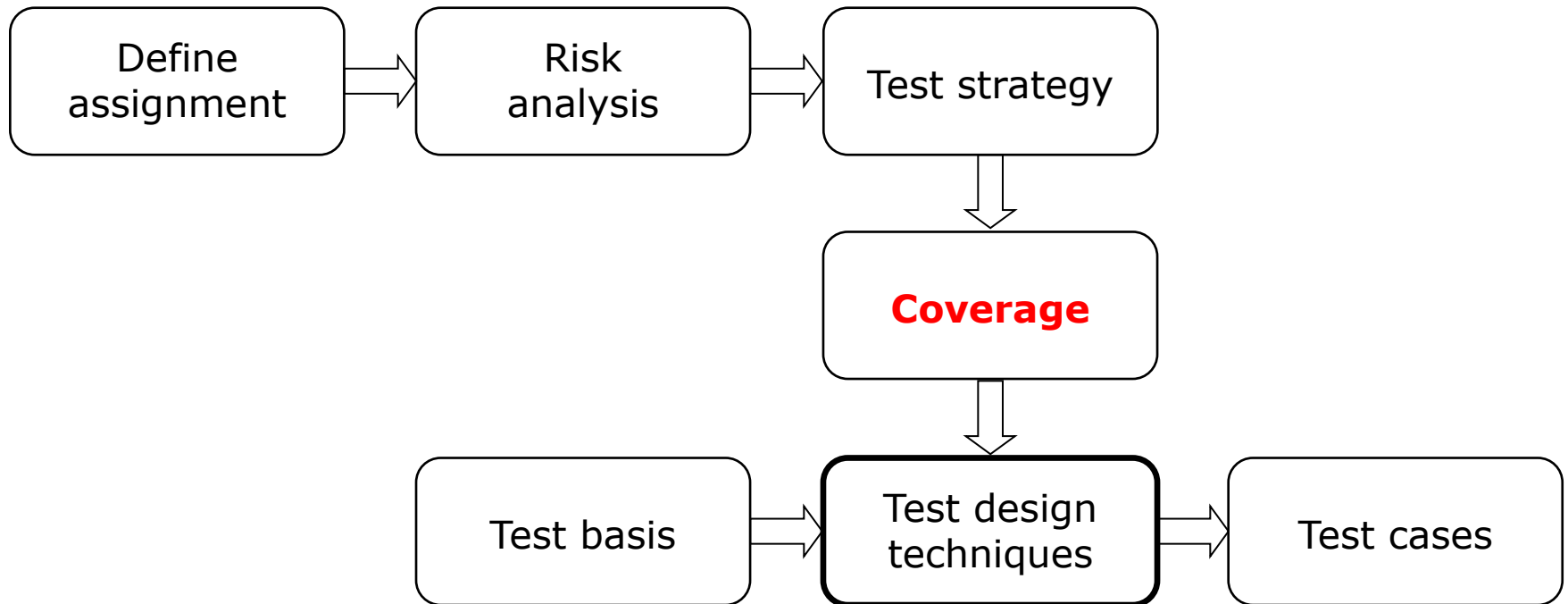
- Development test, system test and acceptance test
- Test unit of work

- **Estimation**

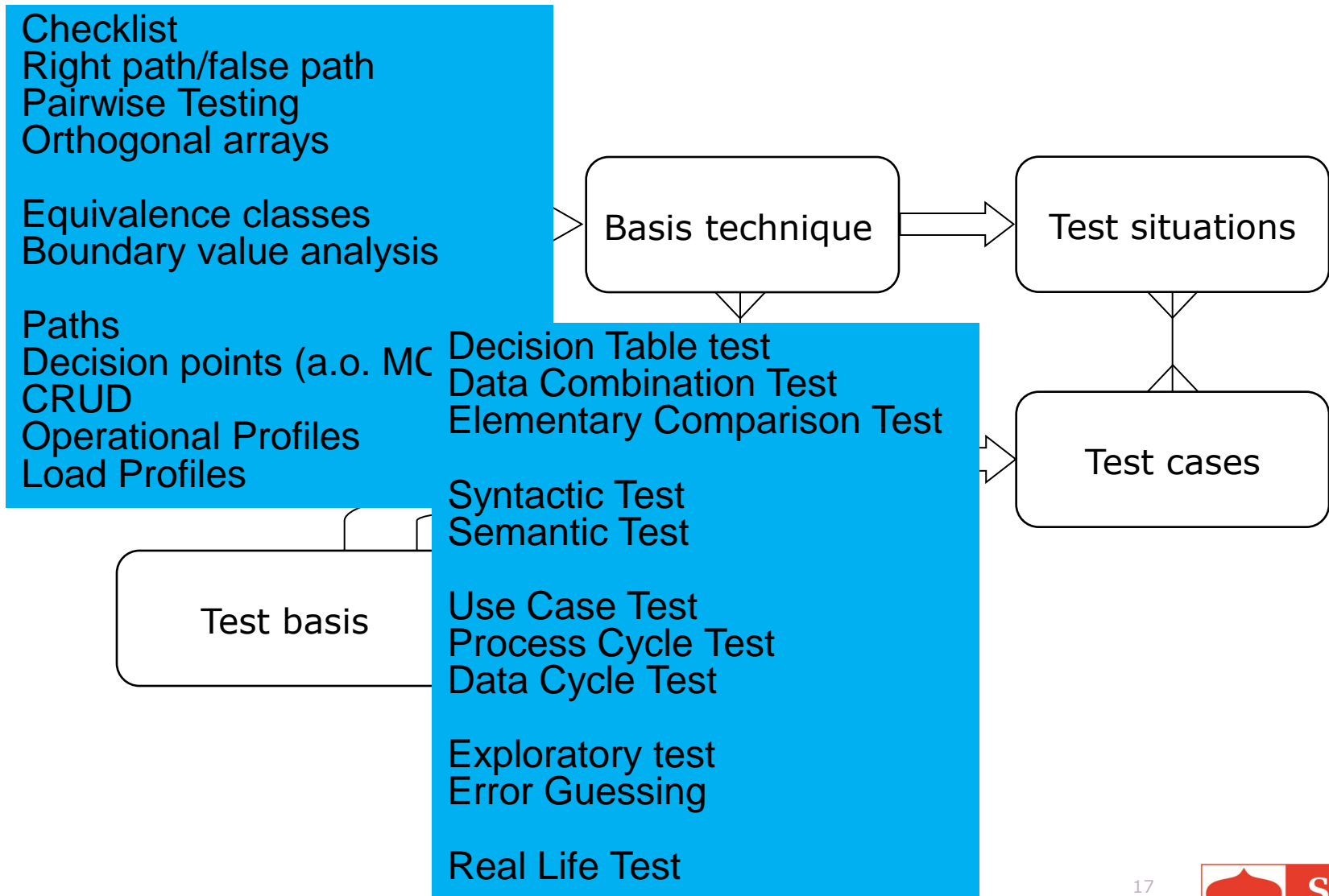
- 4 different test effort techniques
- Goal Question Metrics applied for testing but don't forget
 - a repeatable process allows measuring (with test units)
 - a common process allows metrics conclusions
- Some metrics

Control

What do I cover with the test?

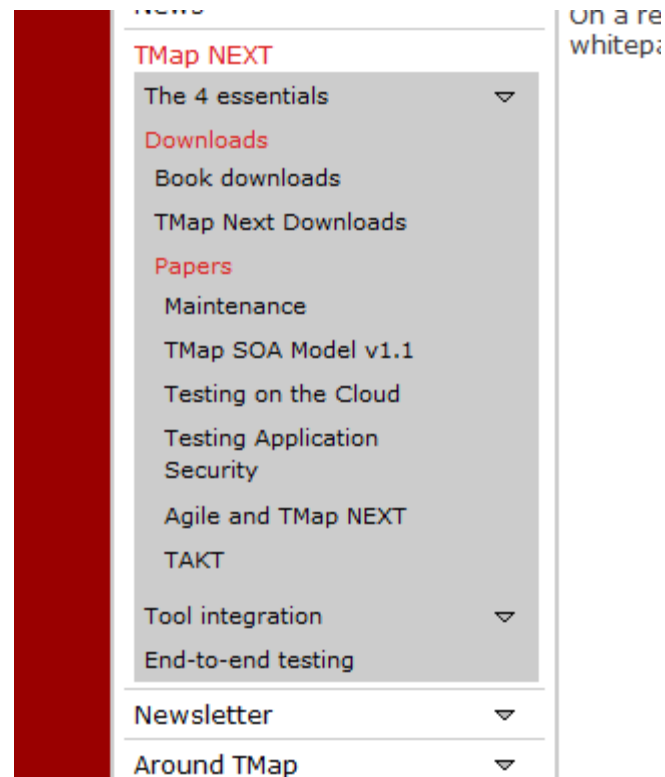


From coverage to test cases



Follows the trends - some history

On www.tmap.net



The screenshot shows a navigation menu for TMap. The menu is organized into several sections, each with a red header. The sections and their items are:

- TMap NEXT**
 - The 4 essentials
 - Downloads**
 - Book downloads
 - TMap Next Downloads
 - Papers**
 - Maintenance
 - TMap SOA Model v1.1
 - Testing on the Cloud
 - Testing Application Security
 - Agile and TMap NEXT
 - TAKT
 - Tool integration
 - End-to-end testing
- Newsletter**
- Around TMap**

To the right of the menu, there is a partial view of another section titled "On a re whitep:".

• Books

- Testing embedded systems
- Topics = bundled white papers: light testing, outsourcing, packages(ERP), components, datawarehousing/BI, Exploratory testing, system integration testing, RUP, DSDM, PRINCE2
- NEXT: the 2006 complete makeover
- BDTM: for government execution
- End-to-End testing
- Cloud testing

Recently published

Method

- **2008 Business Driven test management, book**
- **2009 End-to-End testing, book & material**
- **2010 Agile and testing, point-of-view**
- **2011 Testing applications in the cloud, e-book**
- **2011 Model based test cases design, tool**

In development tools

- **IBM/RUP TMap plug-in**
- **Microsoft Visual Studio 2010 TMap-template**

Future innovations

Working on white papers

- **Agile and testing**
- **Testing of mobile app's**
- **Test data management**
- **Test environment management**

Future

- **TMap and ISO 29119, the new test standard**
- **TMap and ISO 25xxx, Software product Quality Requirements and Evaluation (SQuaRE)**

Results

- **Benefits achieved with applying TMap Next**

- 60% reduction of test specification effort, make only effective test cases
- 50-90% reduction of production incidents
- 20% reduction of test time
- Predictable quality for go live
- Testing process under control

Accessible

- **Books**

- www.tmap.nl
checklists

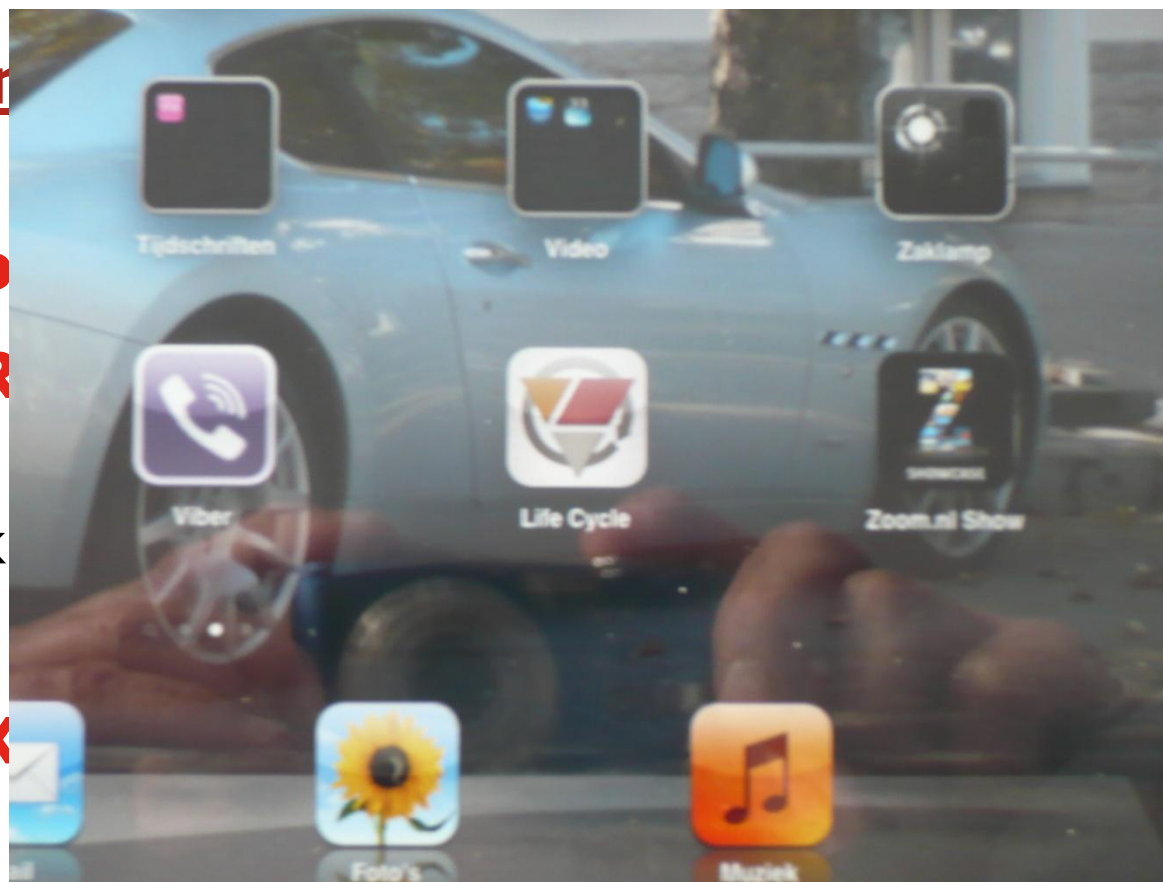
- **Subscribe to**

- **TMap as FR**

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 - Android markt

 - = **Summary
of TMap NEX**



www.tmap.nl

Be adaptive!....use it!





Local touch - Global reach