



# Towards UML Testing Profile 2

OMG UTP Working Group

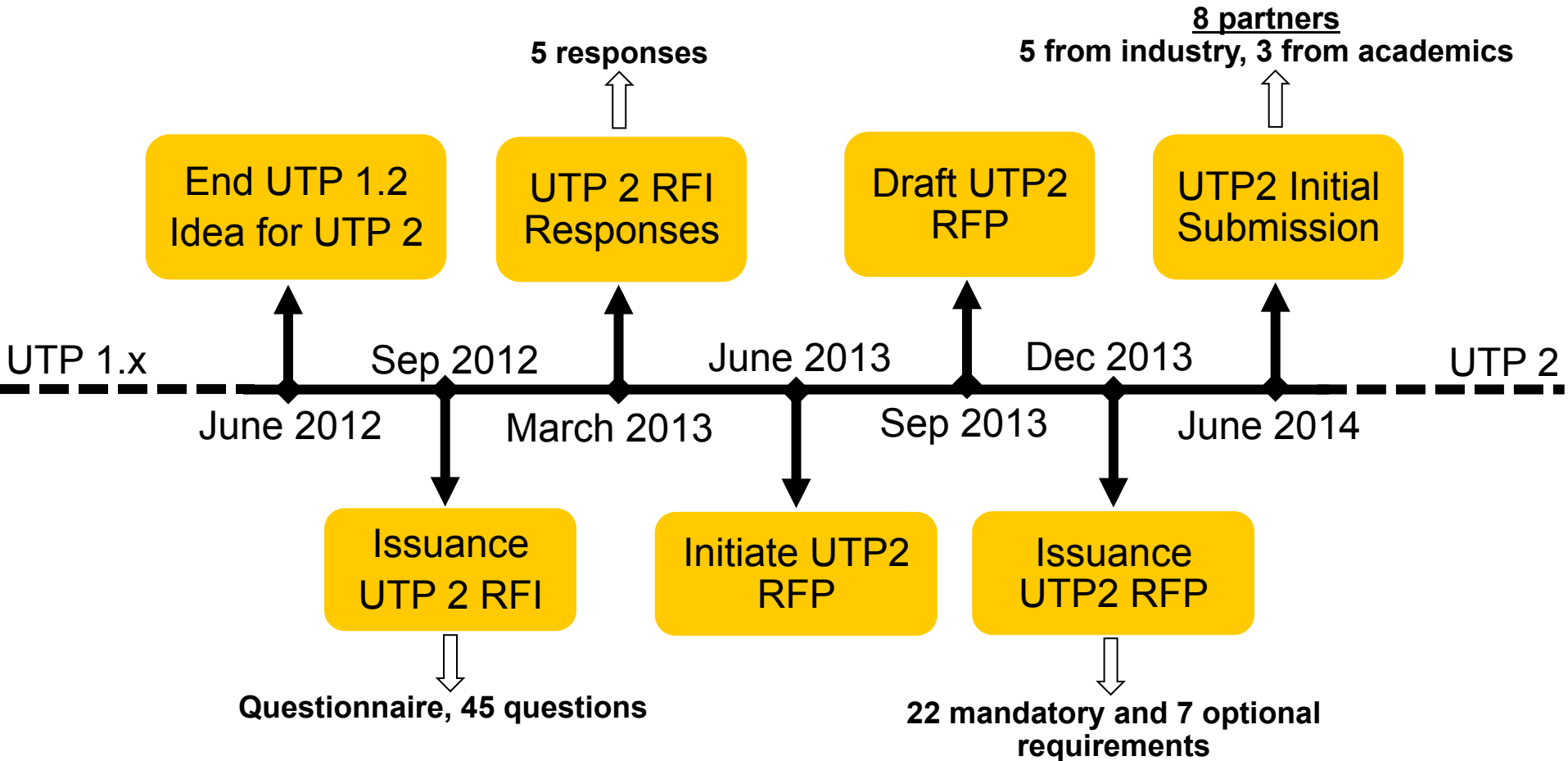
2<sup>nd</sup> UCAAT, 18<sup>th</sup> September, 2014, Munich

Marc-Florian Wendland, Fraunhofer FOKUS

## UTP (2) in a nutshell

- First standardized language to support model-based testing released in 2005 (UTP 1)
- Provides means for test design, execution and evaluation activities – and management thereof
- Address needs for advanced testing approaches required/suitable for achieving a high degree of test automation
- Methodology- and technology agnostic

## From UTP 1.2 to UTP 2

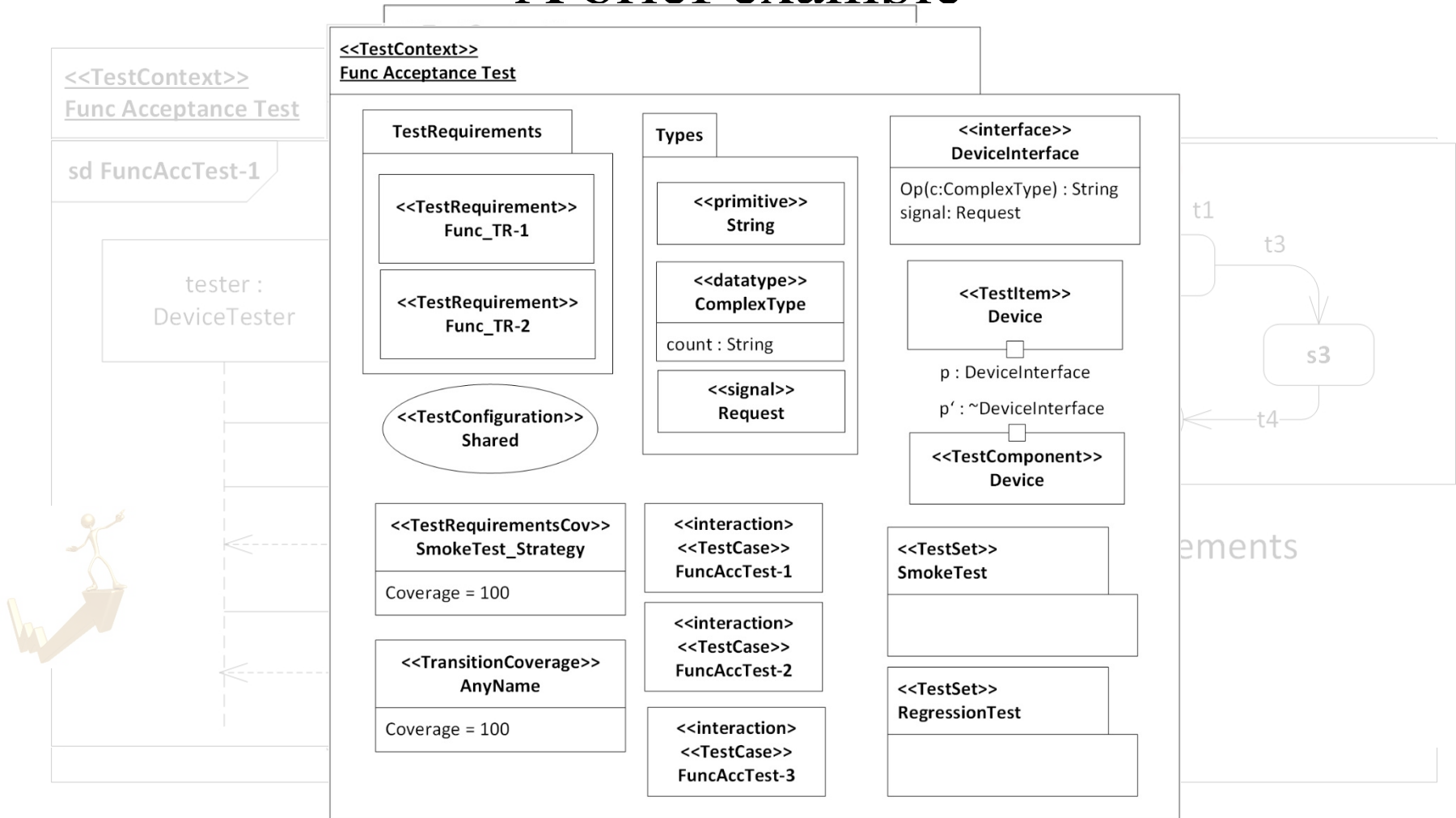


## Terminological origins and concept space

BS 7925-1 & 2		JUnit		
IEEE:829		TTCN-3		
ISO 29119	ISTQB	UTP 1	ES 202 951	UML
<b>UTP 2</b>				
<b>Test Planning</b>	<b>Test Analysis &amp; Design</b>	<b>Test Implementation &amp; Execution</b>		<b>Test Evaluation</b>
Test Context	Test Case	Test Execution Schedule		Test Log
Test Set	Test Design Strategy	Arbitration Specification		Test Log Structure
Test Objective	Test Design Model	Test Component		Verdict
Test Requirement	Test Configuration	Test Item		
Test Type	Test Data Specification			
Test Level	Data Values			
	Data Pools			

Terminological origins  
 Concepts

## A brief example



## Towards the revised and final submission

- Initial submission was accepted in June 2014 by OMG Analysis & Design Task Force

- Current work is the revision of the initial submission

- Development of a conformance test specification for UTP 2 tools with UTP 2

- Formal specification for mapping between UTP 1 to UTP 2 (QVT)

- The entire submission was specified and documents have been generated with the modeling environment KnowEnterprise®

Milestone	Date
Preliminary revised submission	December 2014
Final revised submission	March 2015
Final adoption of UTP 2	December 2015

# The OMG UTP WG



**Background (left-right):**

Andrey Sadovyk (Softeam),  
Markus Schacher (KnowGravity),  
Tao Yue and  
Shaukat Ali (Simula Research Lab),  
Marc-Florian Wendland (FhG FOKUS)

**Foreground (left-right):**

Andreas Hoffmann (FhG FOKUS),  
Alessandra Bagnato (Softeam),  
Zhen Ru Dai (HAW Hamburg),  
Etienne Brosse (Softeam)

**Missing:** Jon D. Hagar (Grand Software Testing)



Thank you for your attention.

Questions, please!



# References

- [EES11] ETSI ES 202 951: Requirements for Modeling Notations. ETSI Standard, Methods for Testing and Specification (MTS); Model-Based Testing (MBT). V1.1.1 (2011-07)