



# Make TTCN-3 happen!

Introducing TTworkbench as the TTCN-3 environment

# Testing Technologies – Facts and Figures





- Research Group Fraunhofer FOKUS
- Founded in 2000
- Headquarters located in Berlin, Germany
- **2000**:

First commercial TTCN-3 environment →TTthree

- Compiler and Run-Time Environment
- **2005**:

First full TTCN-3 IDE → TTworkbench

- Editing, Compiling, Executing
- 2007: Stable and world-wide deployed installation base

## **Testing Technologies**



#### Vision

- Efficient and systematic testing
- Test automation along the development life cycle

#### Mission

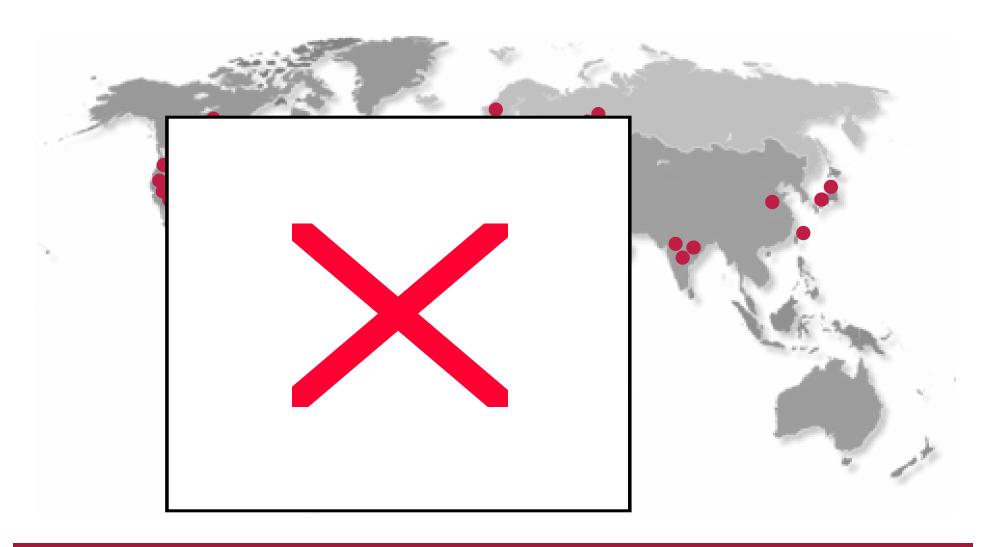
- To reduce your testing costs with ready-to-run test solutions
- Test automation across technologies, development phases and types of testing
  - Increase your test quality by 100%
  - → Reduce re-test costs up to 50%
  - Find errors first and locate their causes

#### Task

- Extended TTCN-3 development tool-set
- Most advanced test suites and services

#### **Customer Distribution**





## TTCN-3 in European Projects







INFORMATION TECHNOLOGY FOR EUROPEAN ADVANCEMENT







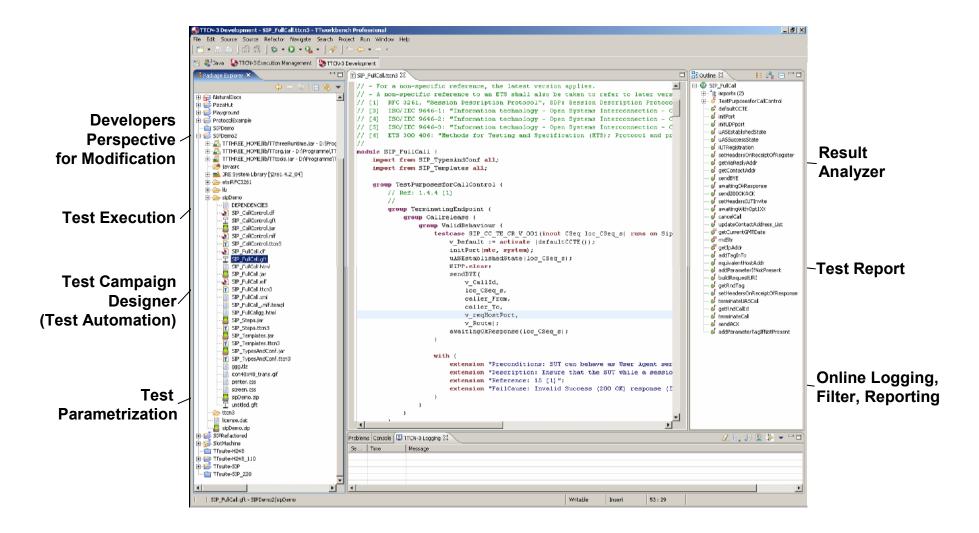
## Why Testing Technologies?



- We live test automation with TTCN-3
  - We have been the first mover
  - We are continuously expanding our expertise in TTCN-3
- We make test automation work
  - Profit from our expertise
  - Find it captured in
    - The most productive test automation platform
    - Our powerful test solutions
- We are TTCN-3
  - Driving standards in the past and the future



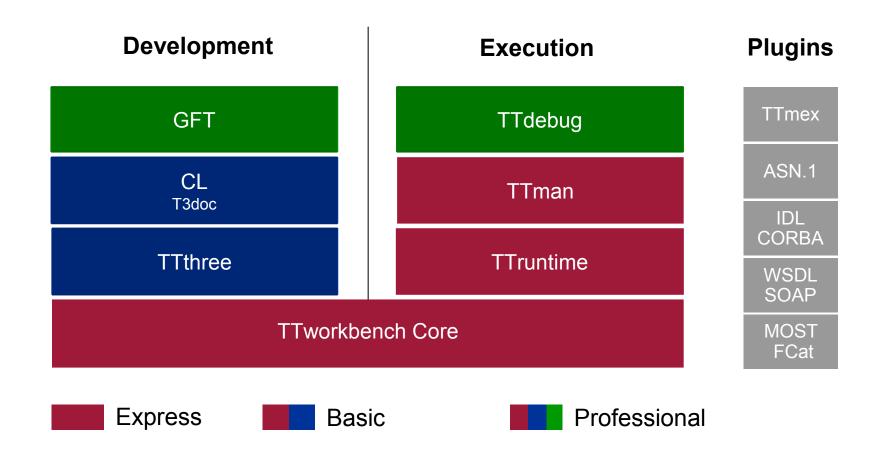




#### Scaling with the Needs

TTworkbench Releases

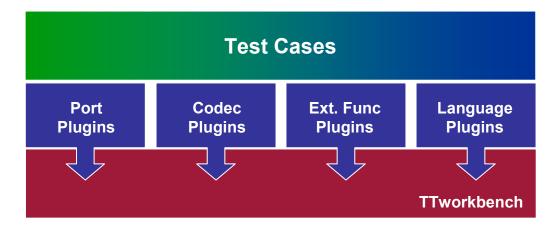




## The TTplugin Concept



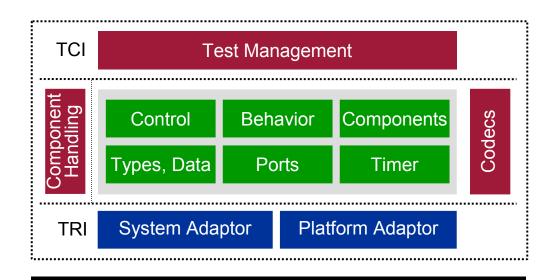
- TTworkbench plugins
  - For a particular access technology (port)
  - For a particular protocol (codec)
  - To perfom partial external tasks (Ext Funct)
  - To import additional languages
- Test suites can use these plugins



#### TTCN-3 Reference Implementation Architecture



#### **Future-Proof Investments**



System Under Test (SUT)

- Standardized
- Adaptable
- ✓ Portable
- Flexible
- Scalable

Adaptation to:

- ✓ Test Management and Execution (local/distributed) ⇒ TCI
- ✓ System Under Test ⇒ TRI
- ✓ External Data Representation ⇒ TCI

#### What's Next?



- Testing Technologies profits from Open Source projects like
  - Eclipse
  - Apache
  - Etc.
- We are recognizing the relevance of open source projects and have decided to support such OS projects by helping to meet their claim of quality assurance.

## The Community Program



- Projects that develop software that is put under an open source license model (e.g. OSI certified licenses)
- Testing Technologies offers TTworkbench
  - Express
  - Basic and/or
  - Professional
- To give OS projects a head-start in the area of test automation
- Apply for partnership at
  - community@testingtech.com

#### Your Path to Partnership



Do you qualify?

Are you an open source project?

Do you want to use test automation?

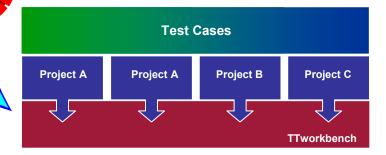
Are you willing to release your test code?

**Application Phase** 

Send an informal application to Testing Tech

- Name and scope of the projectWebsite
- Contact person
  - etc.

**Community Partner** 



#### The Community



- Codecs and System Adapters are the nuts-and-bolds of every TTCN-3 environment
  - Full support of TRI for System Adapters
  - Full support of TCI for Codecs
- GUI and Command-Line test execution
- Open-Source Plugins for Open-Source Projects!



#### THANK YOU!

Questions?