The TT-Medal Project

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INFORMATION TECHNOLOGY
FOR EUROPEAN ADVANCEMENT

Presentation Overview

- Introduction (What is TT-Medal?)
    - Project goals
    - Project partners

- Background (Why is TT-Medal Important?)
    - Future Testing challenges
    - TTCN-3

- Project Details (How is TT-Medal going to work?)
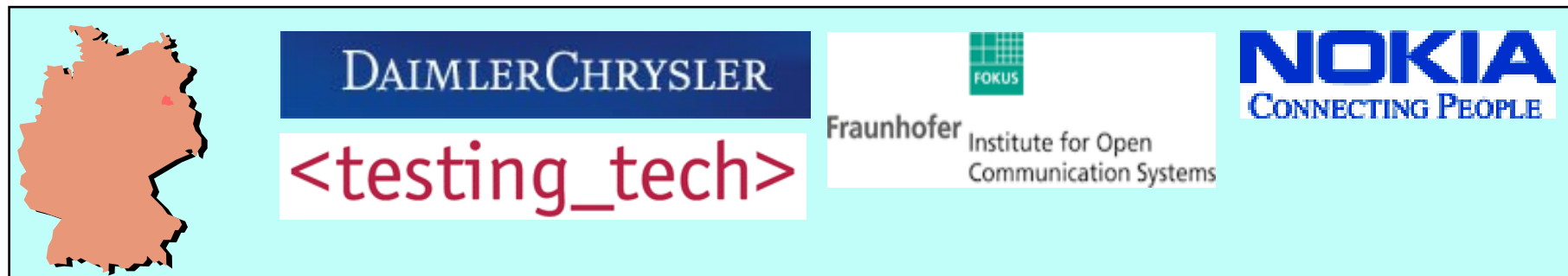   - Project structure
    - Application areas

Project Goals

- **To develop the methodologies, tools and industrial experience to enable European industry to test more effectively and more efficiently**

- **To drive the deployment of TTCN-3 testing technology into European industry**
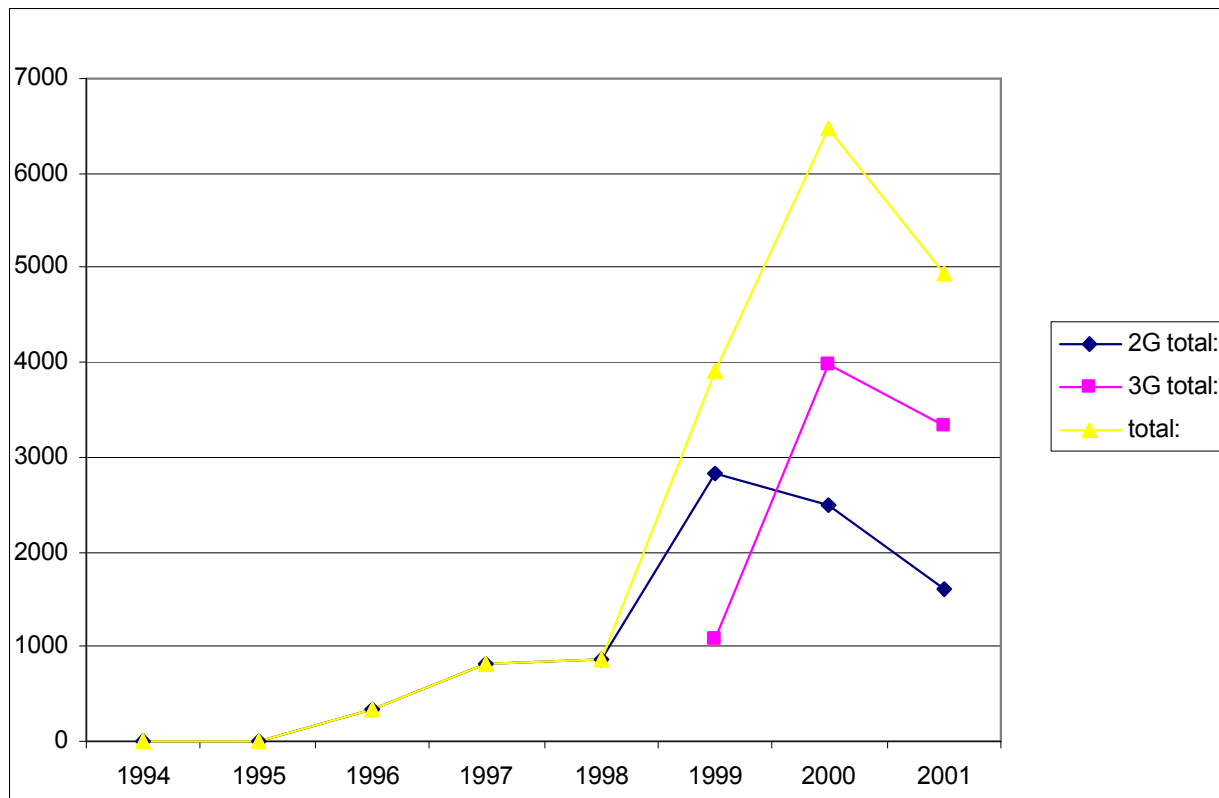
Project Partners

Background: Future Testing Challenges

- Increasing complexity of products
  - GSM Specifications   1306
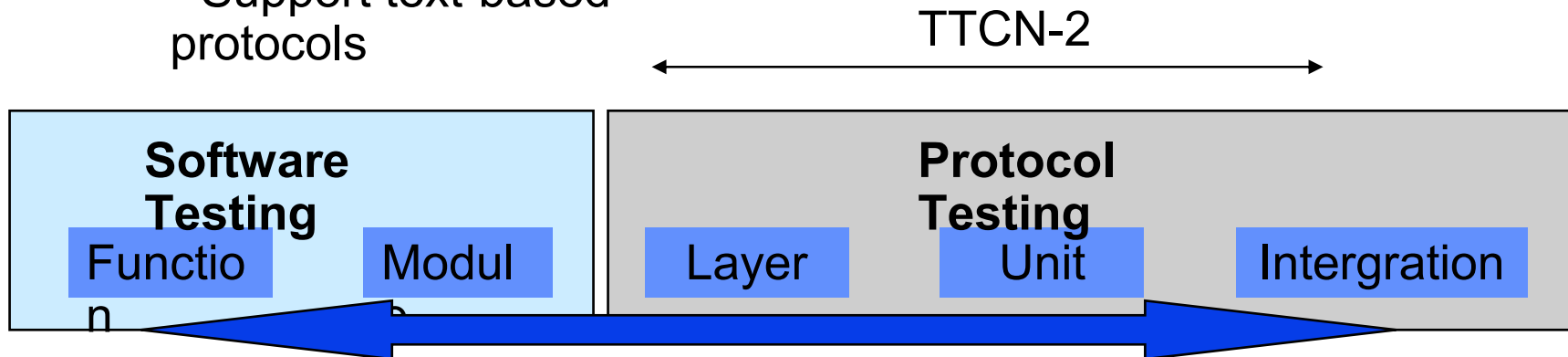 - 3G Specifications   2290

Background: Future Testing Challenges

- Pressure to shorten time to market
  - New systems and services must be available quicker
  - How can we reduce testing time?

- Pressure to improve quality
  - SW outage average time for Network elements measured in seconds per year
  - How can we improve testing quality (and quantify it)
- New types of testing
  - IP based protocols
  - Text based protocols
  - Unified testing approach for software and protocol testing
- Not unique to Telecomm industry
- Maybe proposed solutions are also general

Why is TTCN-3 Important

- More Productive
  - Easier to learn
  - Easier to use

- More Powerful
  - Extended functionality
  - Support for IP protocol
  - Support text-based protocols

- More Flexable
  - Not tied to OSI model
  - For many types of testing

- More Extendable
  - Extensibility built-in

TTCN-2

Software Testing		Protocol Testing		
Function	Modul	Layer	Unit	Intergration

TTCN-3

Project Results

- **TTCN-3 Asset Box** will provide all the tools for:

  - generic testing processes,
  - systematic test development and testing methodology,
  - reuse,
  - architecture,
  - new application domains,
  - tool prototypes,
  - UML 2.0 testing profile,
  - test validation, and
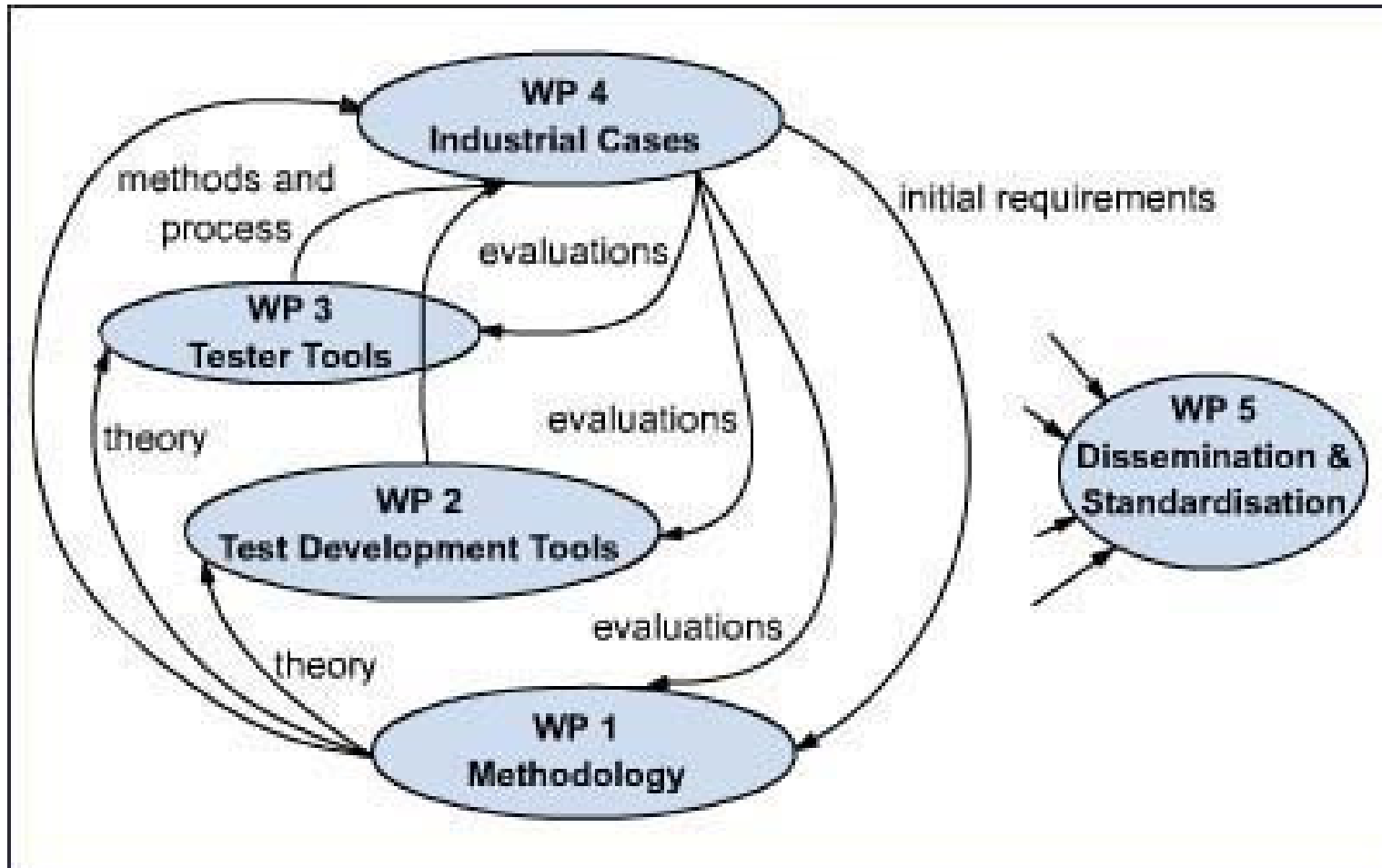 - lightweight testing process & tools

Project Results

- **Training package:** to show *how* the new technologies should be used, help project partners and others in European industry with effective testing in their business processes.

- **Experience package:** to show *where* these new technologies should be applied and *why*, will provide the means for sharing data on adequate tools, testing methods, applicability of processes, available test cases, and conformance specification, how to obtain sufficient testing resources (from management) and how to leverage these.
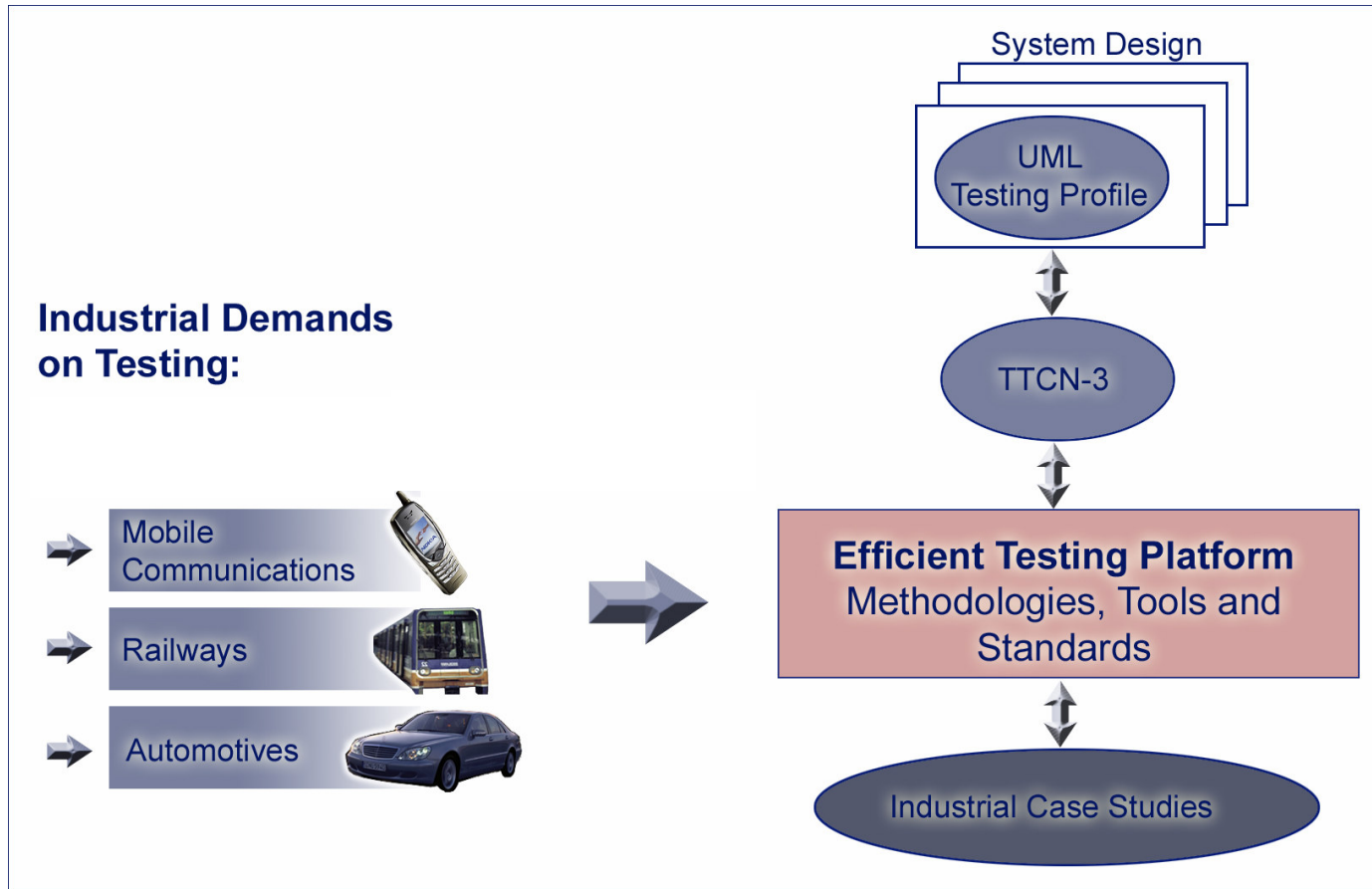
Project Structure

Application Areas