Tallinn University of Technology

Department of Computer Engineering

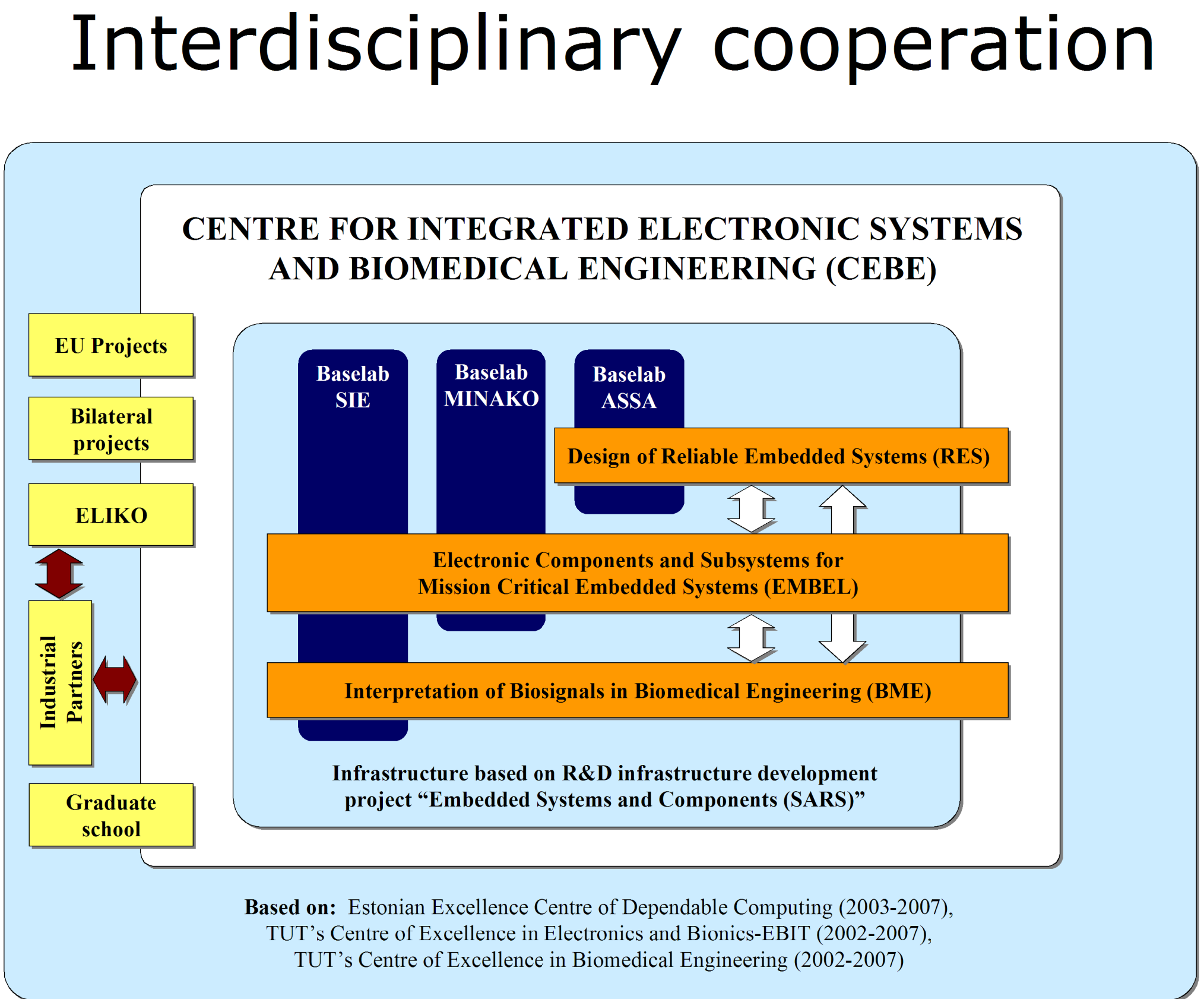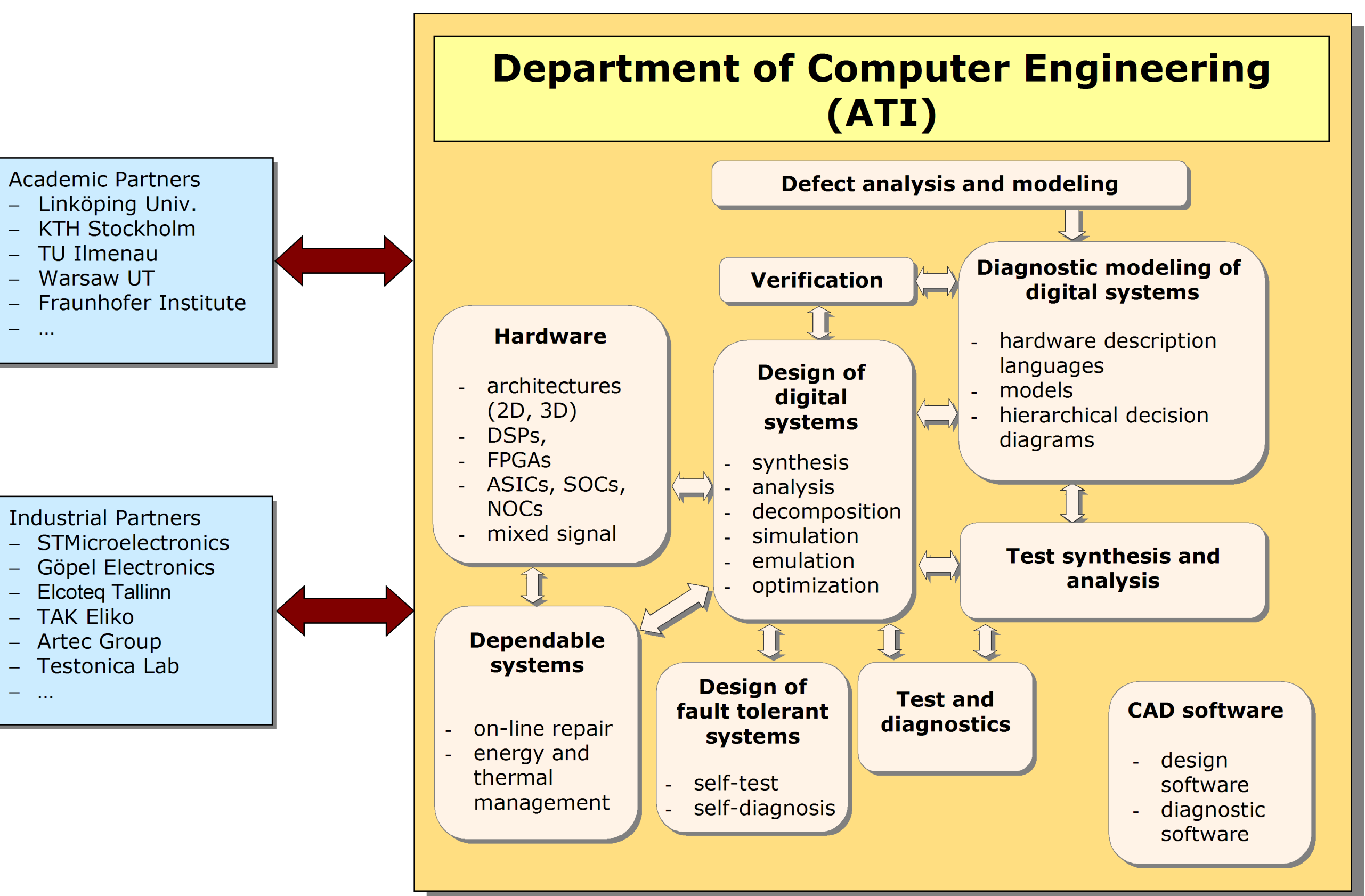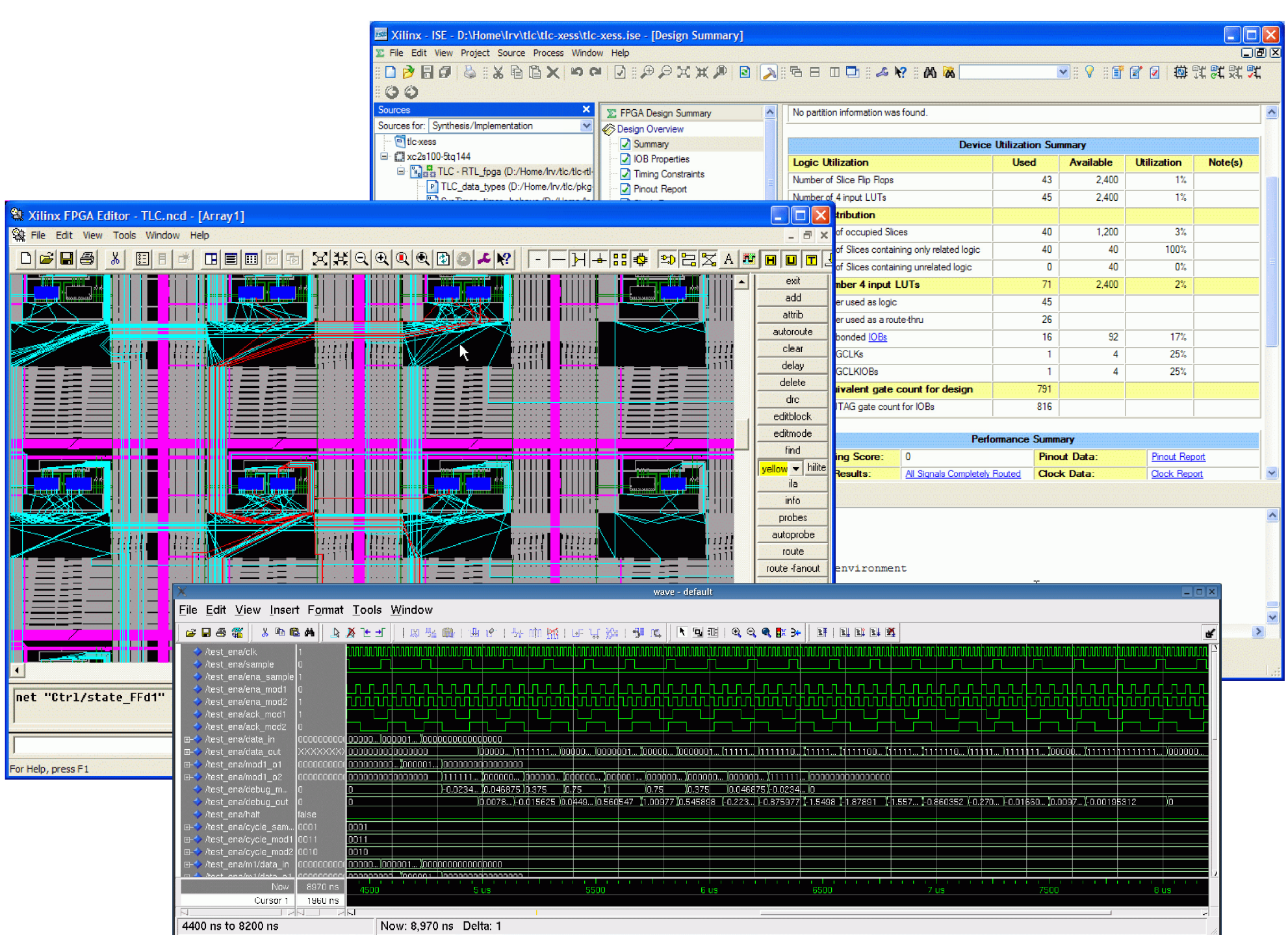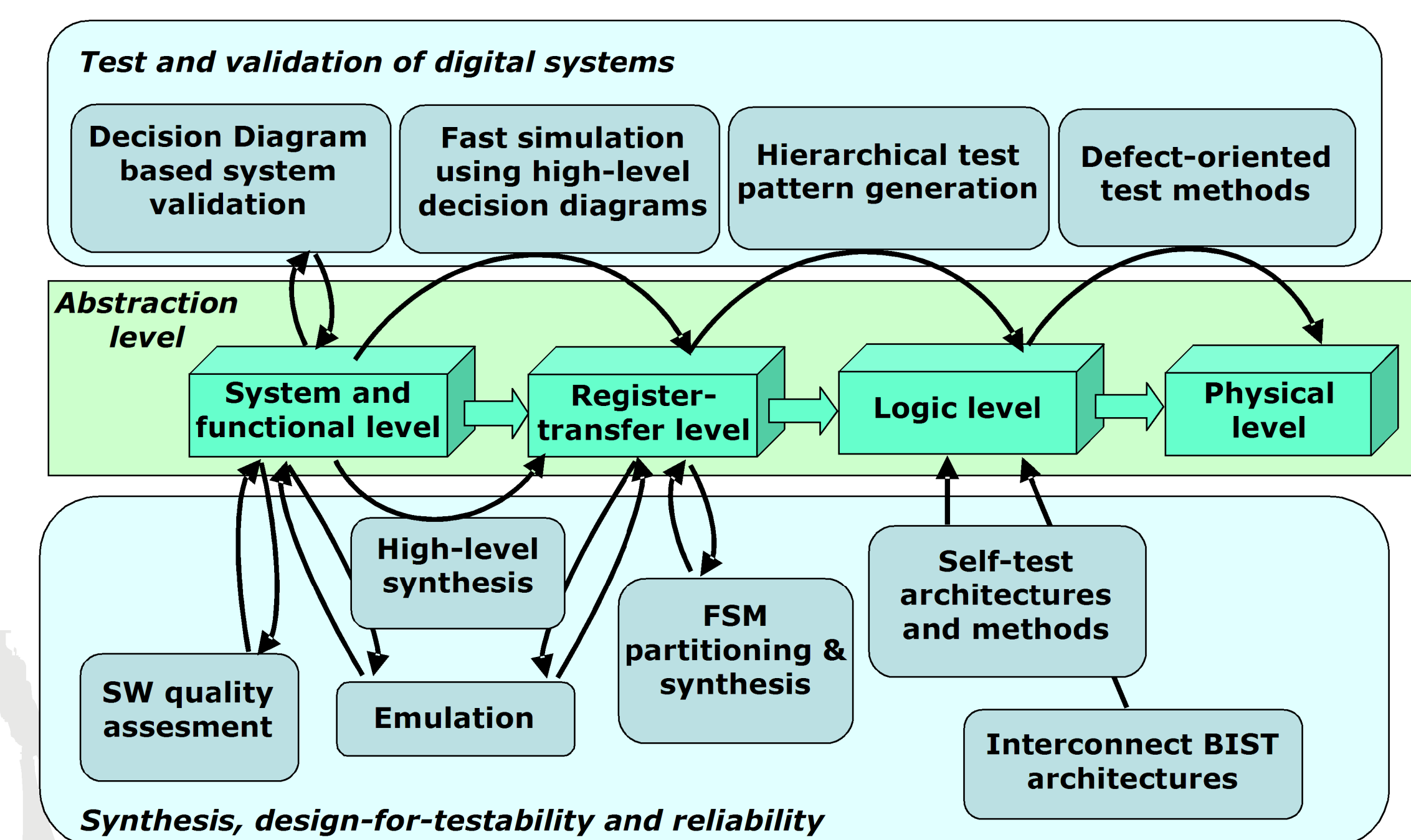**http://ati.ttu.ee • Raja 15 • 12618 Tallinn • Estonia**

Overview

- Department of Computer Engineering (ATI) is **Estonia's leading research institution** in design and test of digital systems including modelling and synthesis, verification and debug, test generation and simulation, self-test, diagnosis, fault tolerance and reliability.

- **ATI** was one of the founding members of a **National Competence Centre of Dependable Computing**, is a coordinating institution for a joint **Laboratory for Synthesis and Analysis of Embedded Systems (ASSA)** and is a coordinating research group in a new **Centre of Research Excellence in Integrated Electronic Systems and Biomedical Engineering (CEBE).**

- **Extensive participation in R&D projects:**
  - ✓ 9 EU projects since 1993 and counting. 2006-2008: FP6 STREP Vertigo (http://www.vertigo-project.eu/).
  - ✓ 15+ national grants, several state-financed projects.
  - ✓ Bilateral research projects with European leading research centers from Sweden, Poland, Germany, Italy.
  - ✓ Cooperation with industry: STMicroelectronics, Göpel Electronic, Elcoteq Tallinn, Artec Group, TAK Eliko, Testonica Lab and others.

- ATI is the only institution in Estonia **educating** students in the area of **computer engineering** at undergraduate and graduate levels. Undergraduate study program „Computer and Systems Engineering", PhD program „Information and Telecommunication Technology."
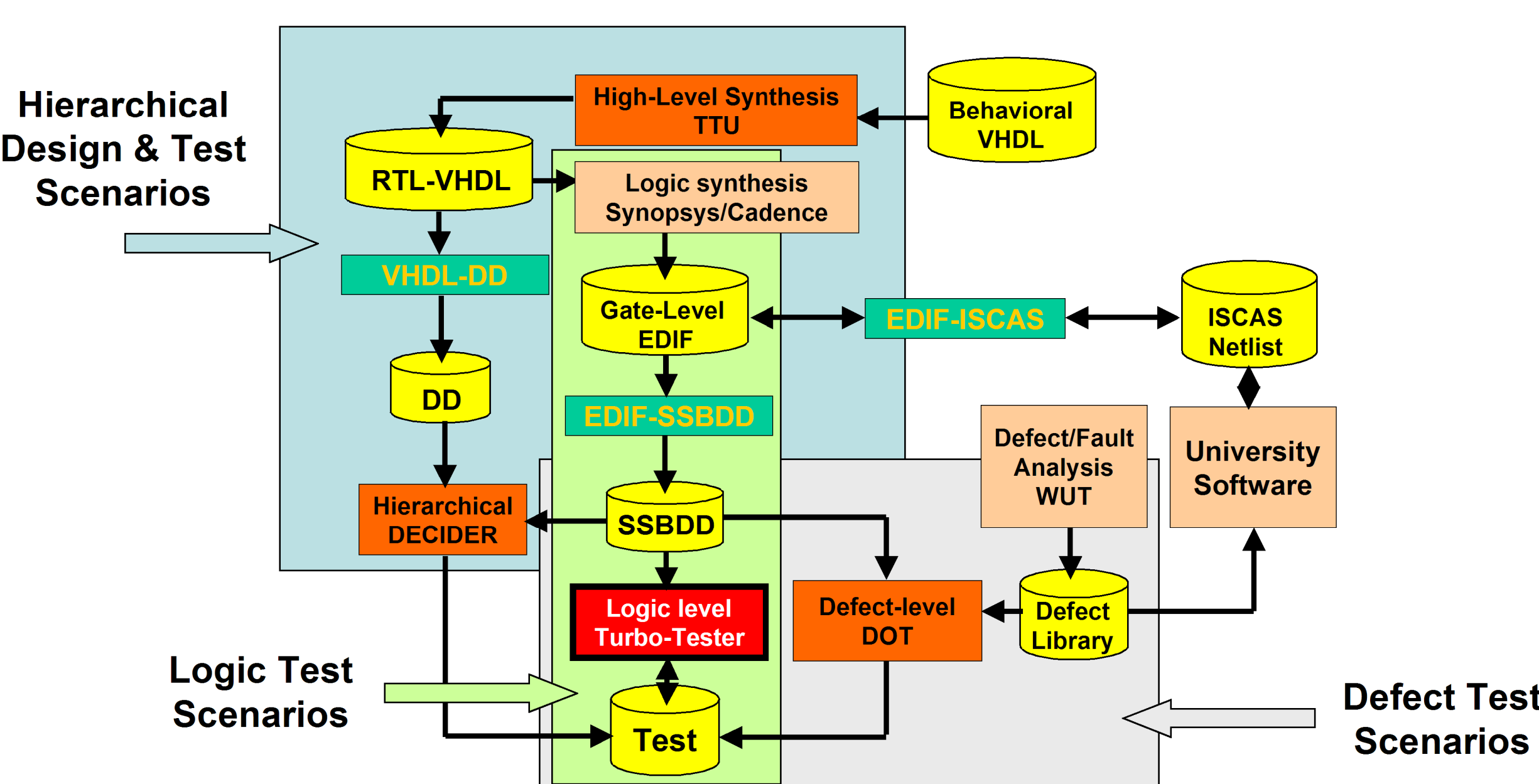

Interdisciplinary cooperation

Research Potential

- Siia peaks panema mingi teksti, mis avaks meie research potensiaali ning oleks nagu omamoodi sissejuhatus järgnevale. Any suggestions?
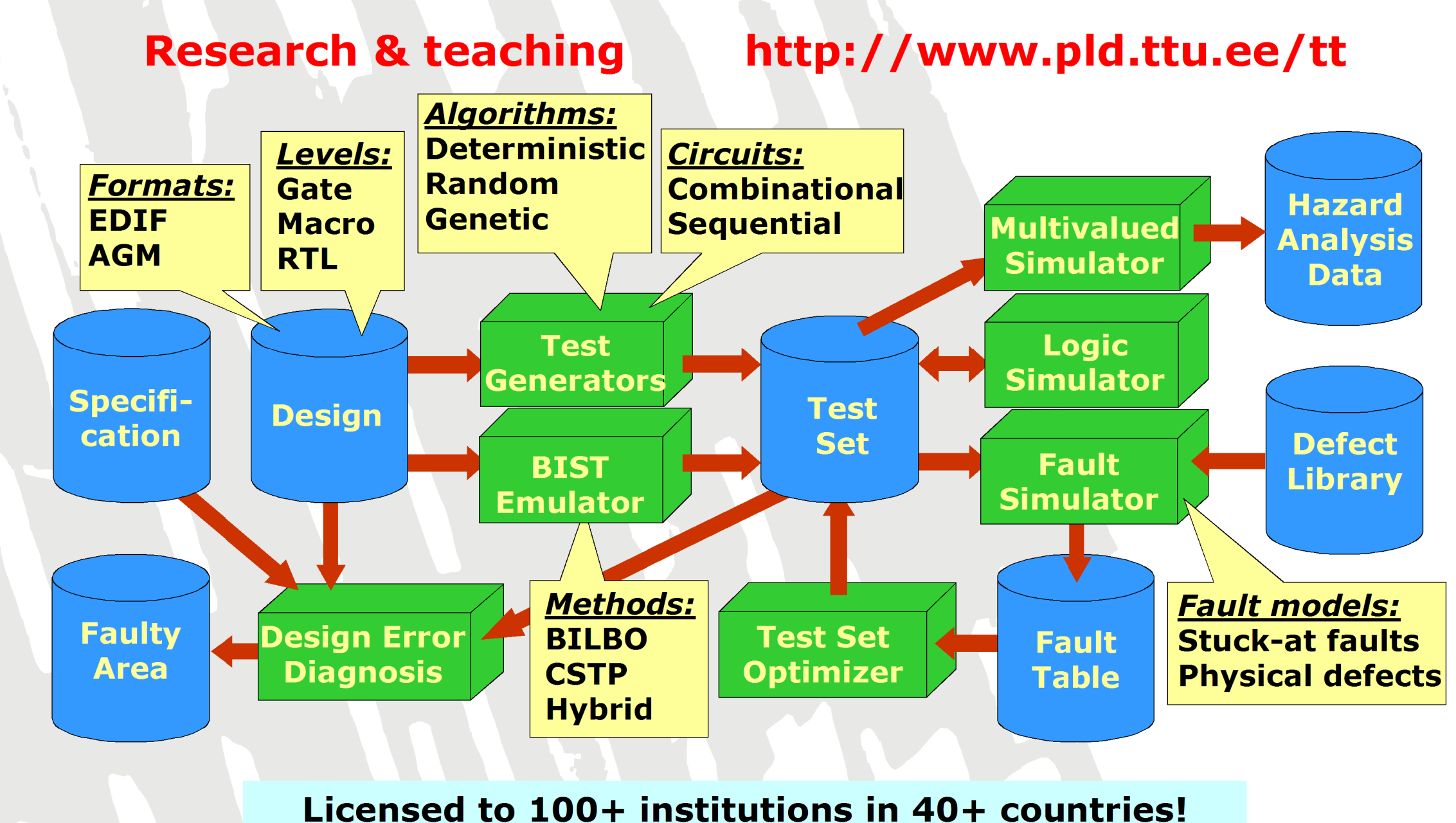- tekst
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The Map of Research Topics

Multi-Functional CAD Research Environment

CAD Environment: Turbo Tester

Research & teaching   http://www.pld.ttu.ee/tt

Licensed to 100+ institutions in 40+ countries!

Defect Investigation Environment

http://www.defsim.com

The Tool Portfolio

- **DefSim** - an integrated measurement environment for physical defect study in CMOS circuits.
- **TurboTester** – a research environment with a large set of digital test tools
- **Web-based environment** for remote access to our tools
- **Training software** on several topics of digital testing and DFT

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TALLINNA TEHNIKAÜLIKOOL
TALLINN UNIVERSITY OF TECHNOLOGY