TECHNISCHE UNIVERSITÄT DRESDEN

Fakultätsname XYZ, Fachrichtung XYZ, Institutsname XYZ, Professur XYZ

Model-driven testing of dynamically variable systems

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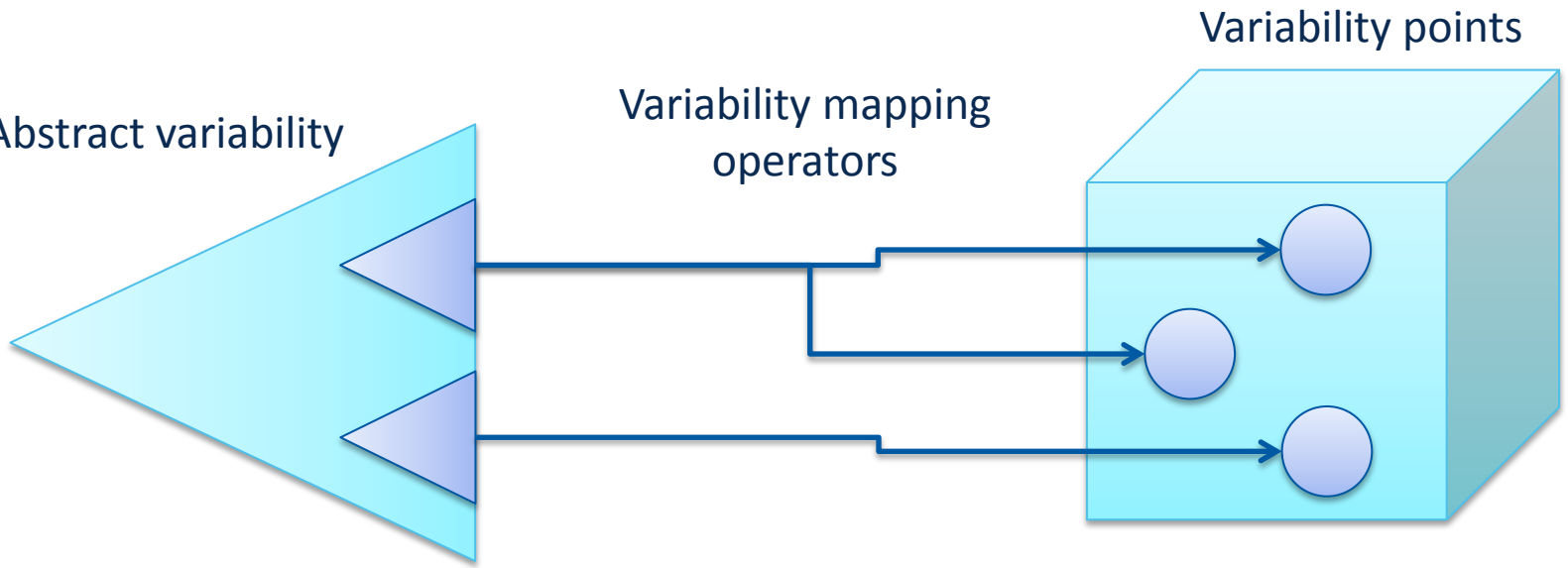
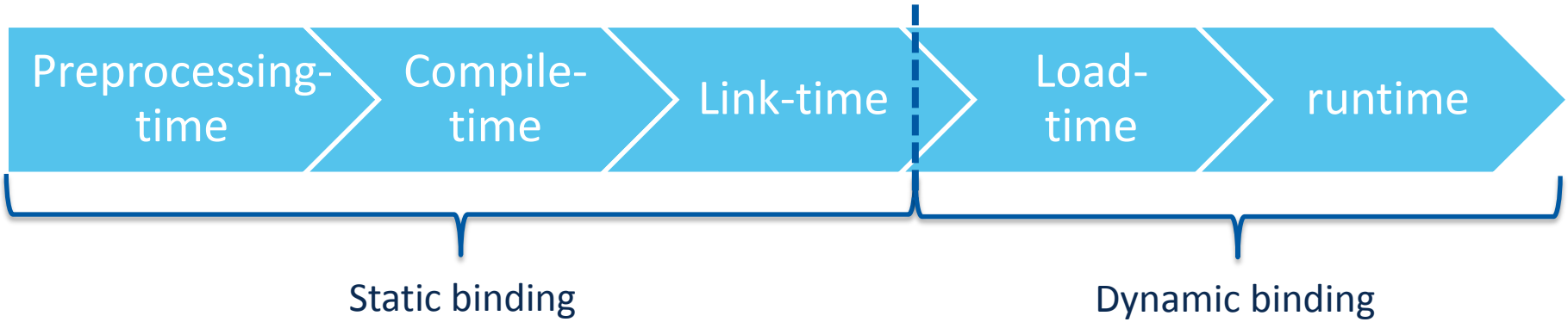
Dresden, 23.09.2011

DRESDEN concept
Exzellenz aus Wissenschaft und Kultur

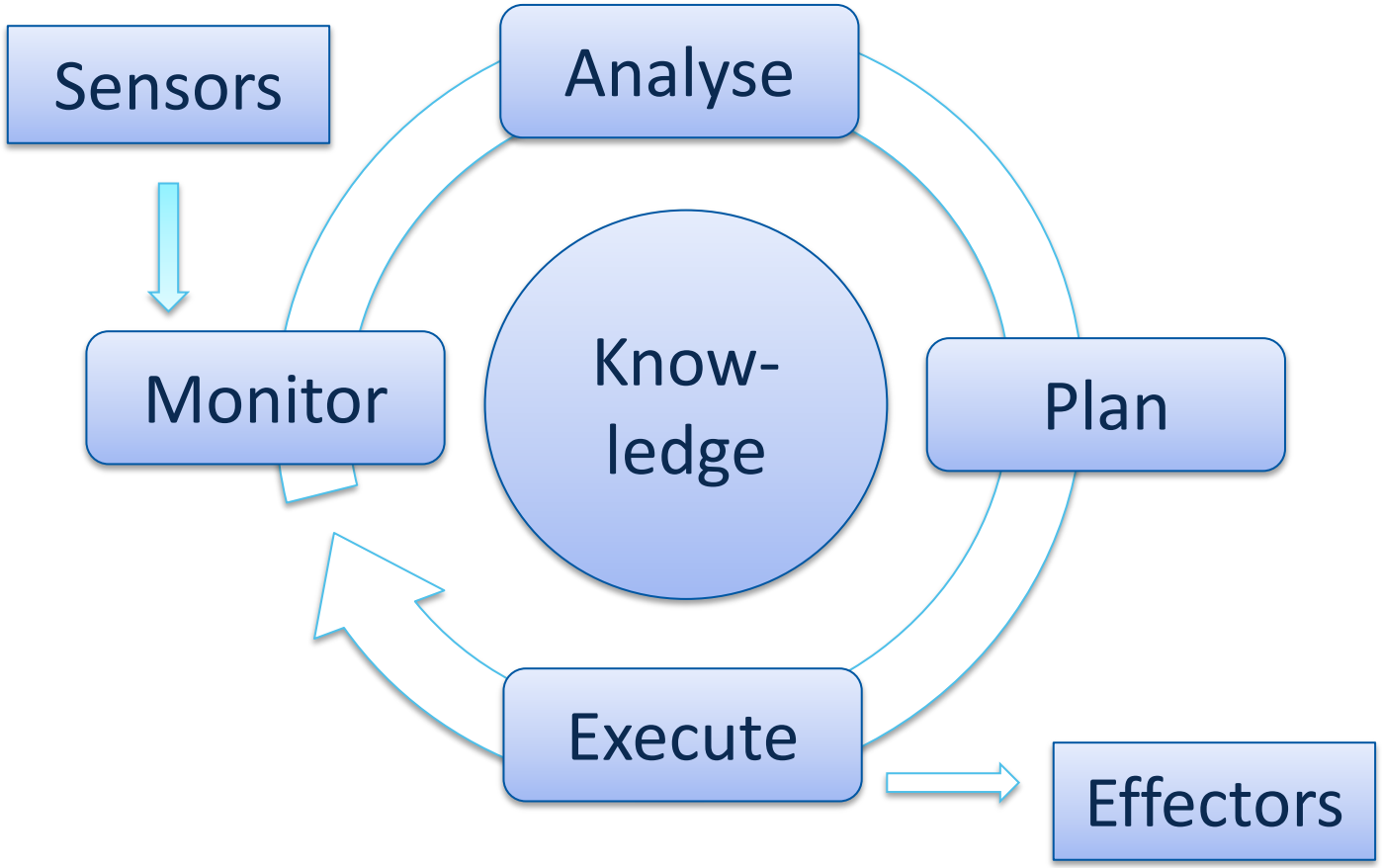
From static to dynamic variability



Program start

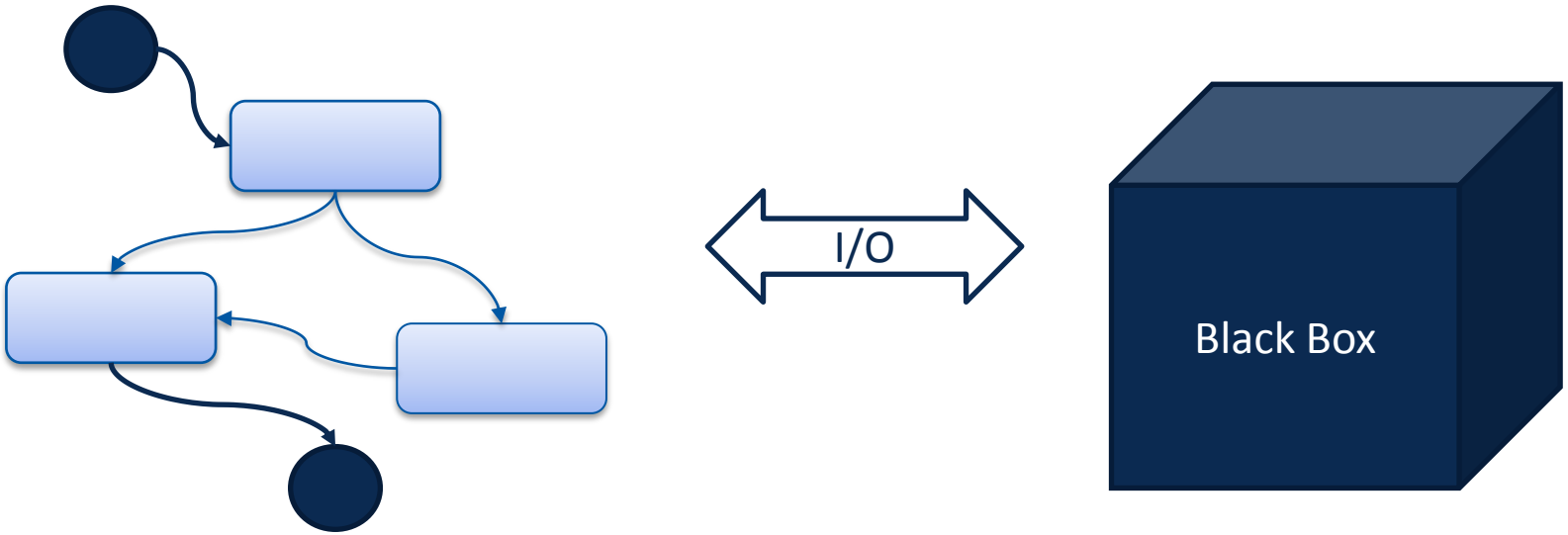


Self-adaptive Systems



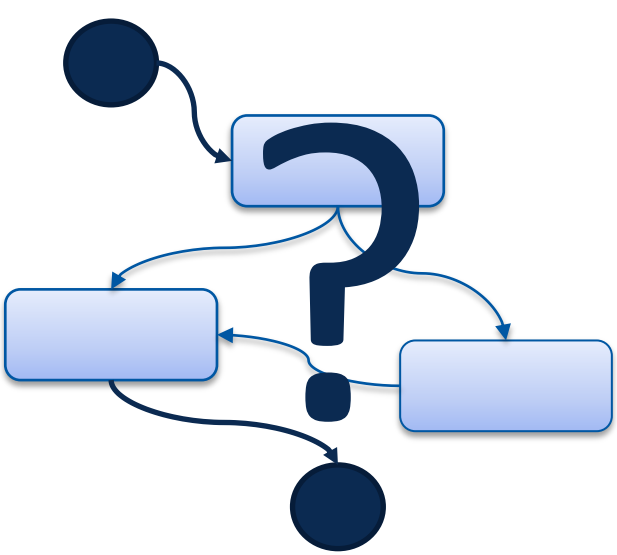
Model-based Testing

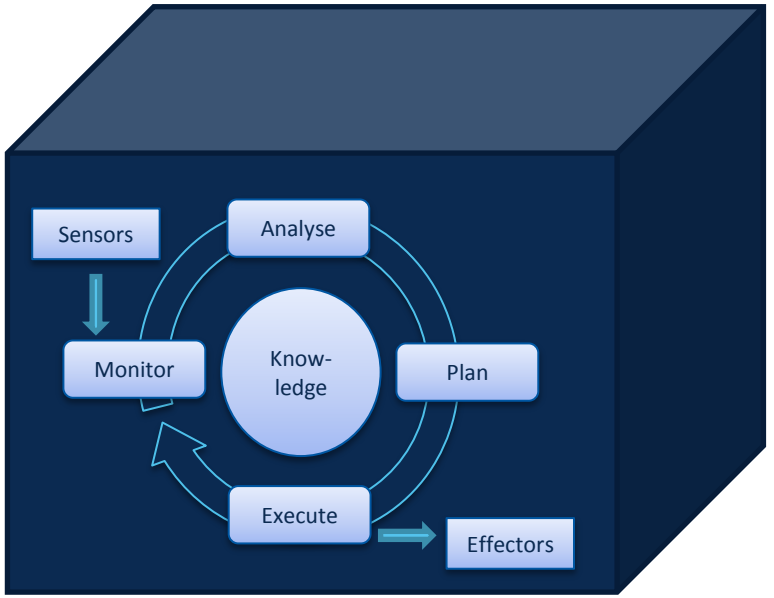
"Model-based Testing is the automation of the design of black box tests." (Utting, 2007)



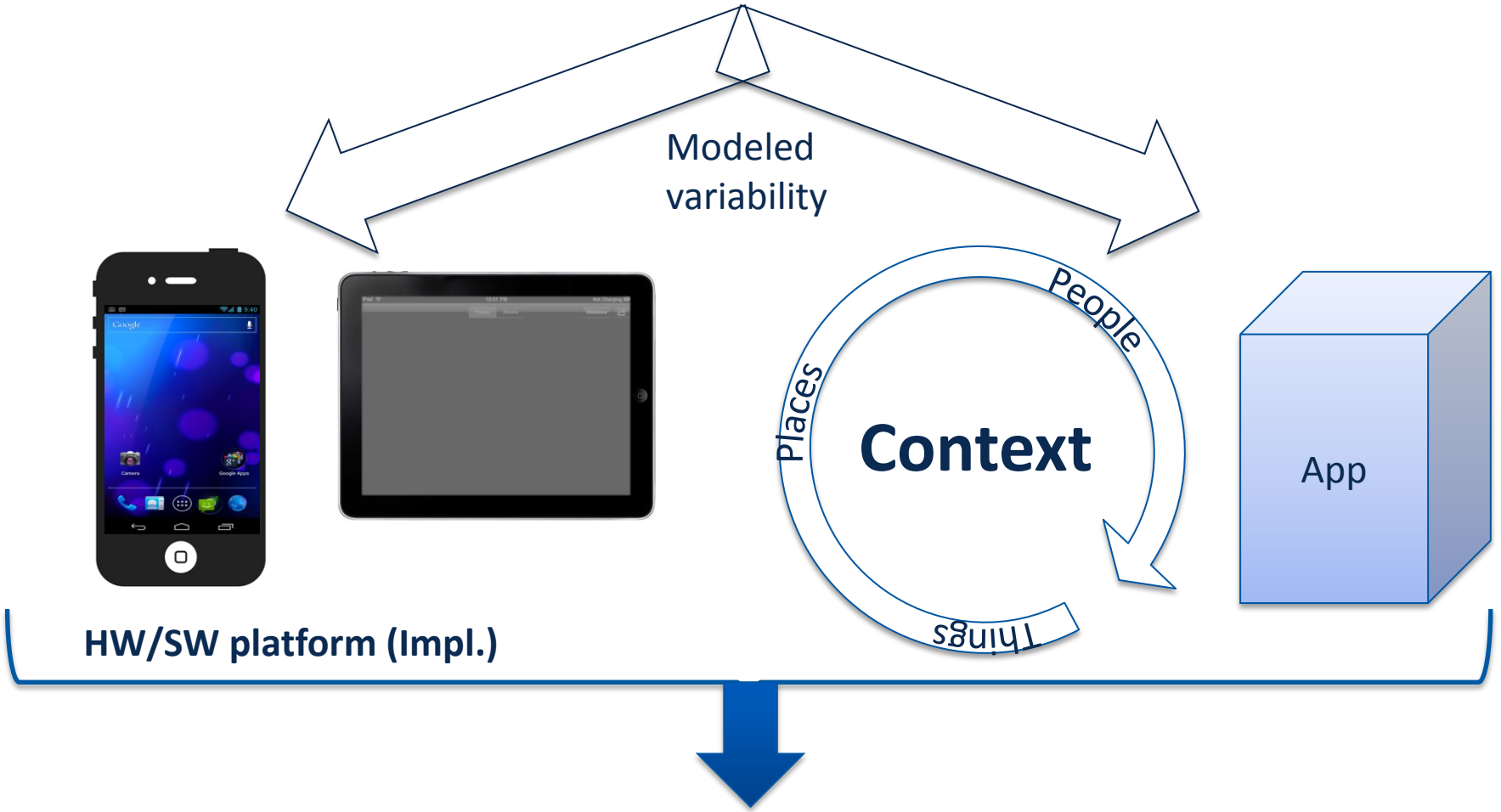
In „offline testing" a test case *generator* is required, in „online testing" the model ist *simulated*.

General view: Testing self-adaptive systems

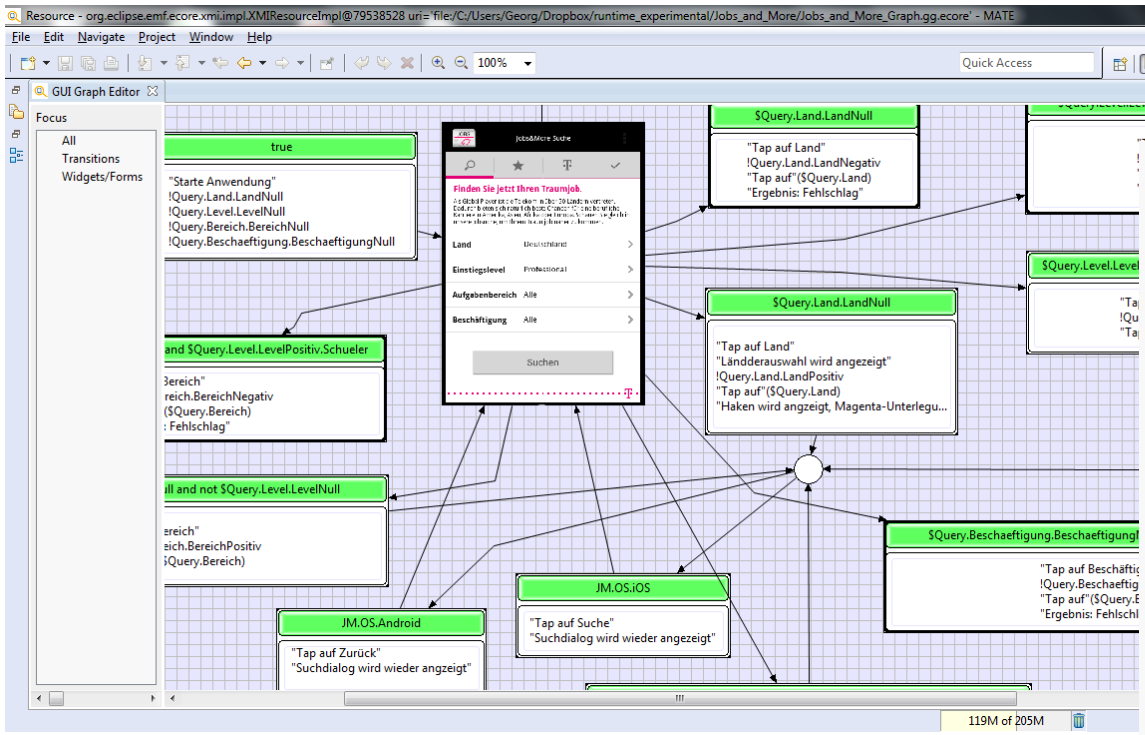


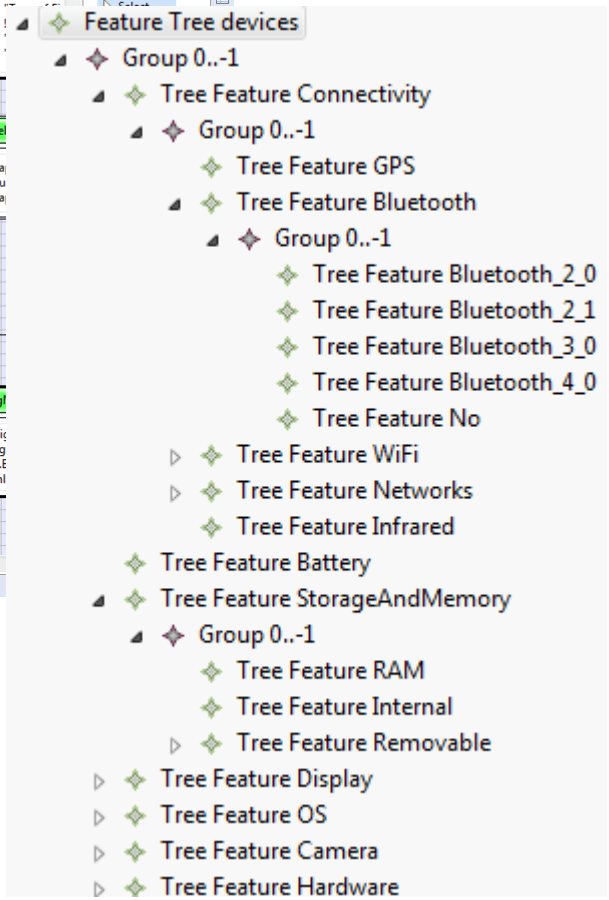


Mobile „Apps“ testing with DSPLS & MBT



Mobile Application Test Environment (MATE)





Requirements for theses

Technology experience:

- Eclipse, Java, SWT
- EMF Modeling & Programming

Research extent:

- Quality assurance/Model-based Software testing
- Adaptive systems
- Software Product Lines/Variability

Cooperation with *T-Systems Multimedia Solutions*