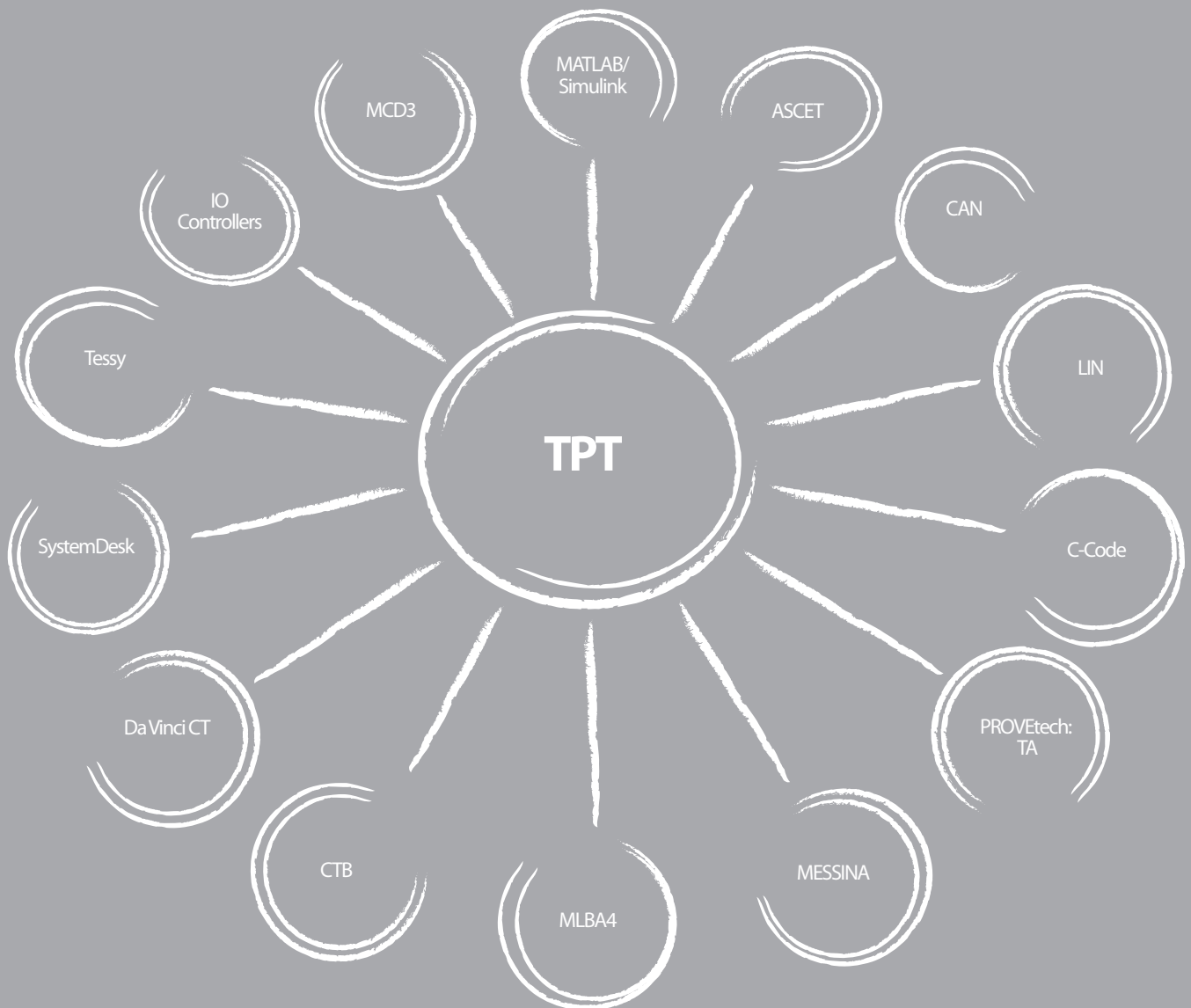




TEST EXECUTION

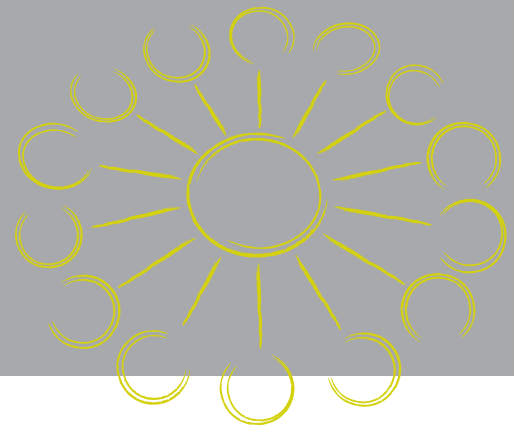
from Models to Hardware





TEST EXECUTION

from Models to Hardware



Test Execution from Models to Hardware

One of the outstanding features of TPT is its flexibility. TPT can test embedded control systems in a huge range of environments. TPT can easily perform tests for system models (e.g. MATLAB/Simulink, ASCET), for software (e.g. C-Code, AUTOSAR SW-components), as well as control units (e.g. Hardware-in-the-Loop tests). While the test execution environment can look very different, the test modeling technique and the test tool are always the same regardless of the environment.

Co-Simulation using TPT

For PC-based test environments with TPT, there is a co-simulation environment called FUSION. With FUSION it is simple to create and configure a heterogeneous simulation environment that consists of different components such as software modules, CAN controller, MCD3 interfaces or plant models.

Flexible test execution

MATLAB/Simulink/TargetLink: TPT can test MATLAB/Simulink/Stateflow models, TargetLink models or fixed point models (RTW or TargetLink)

ASCET: TPT can test ASCET models (physical experiments as well as implementation models)

CAN: TPT can test control units connected via CAN bus

LIN: TPT can test control units connected via LIN bus

C-Code: TPT can test the C-Code of control units directly on a PC

PROVEtech:TA: TPT can test control units connected and configured using PROVEtech:TA

MESSINA: TPT can test control units or AUTOSAR SW-components connected and configured using MESSINA

MLBA4: TPT can test control units connected and configured using MLBA4 Component Test Bench: TPT can test control units connected using CTB

DaVinci CT: TPT can test AUTOSAR SW-components in conjunction with DaVinci CT

SystemDesk: TPT can test AUTOSAR SW-components in conjunction with SystemDesk

Tessy: TPT can test the C-Code of control units configured using Tessy

I/O Controllers: TPT can test control units connected via PC based digital or analog I/O

MCD3: TPT can measure signal and calibrate parameters by means of MCD3 tools, such as INCA or CANape

