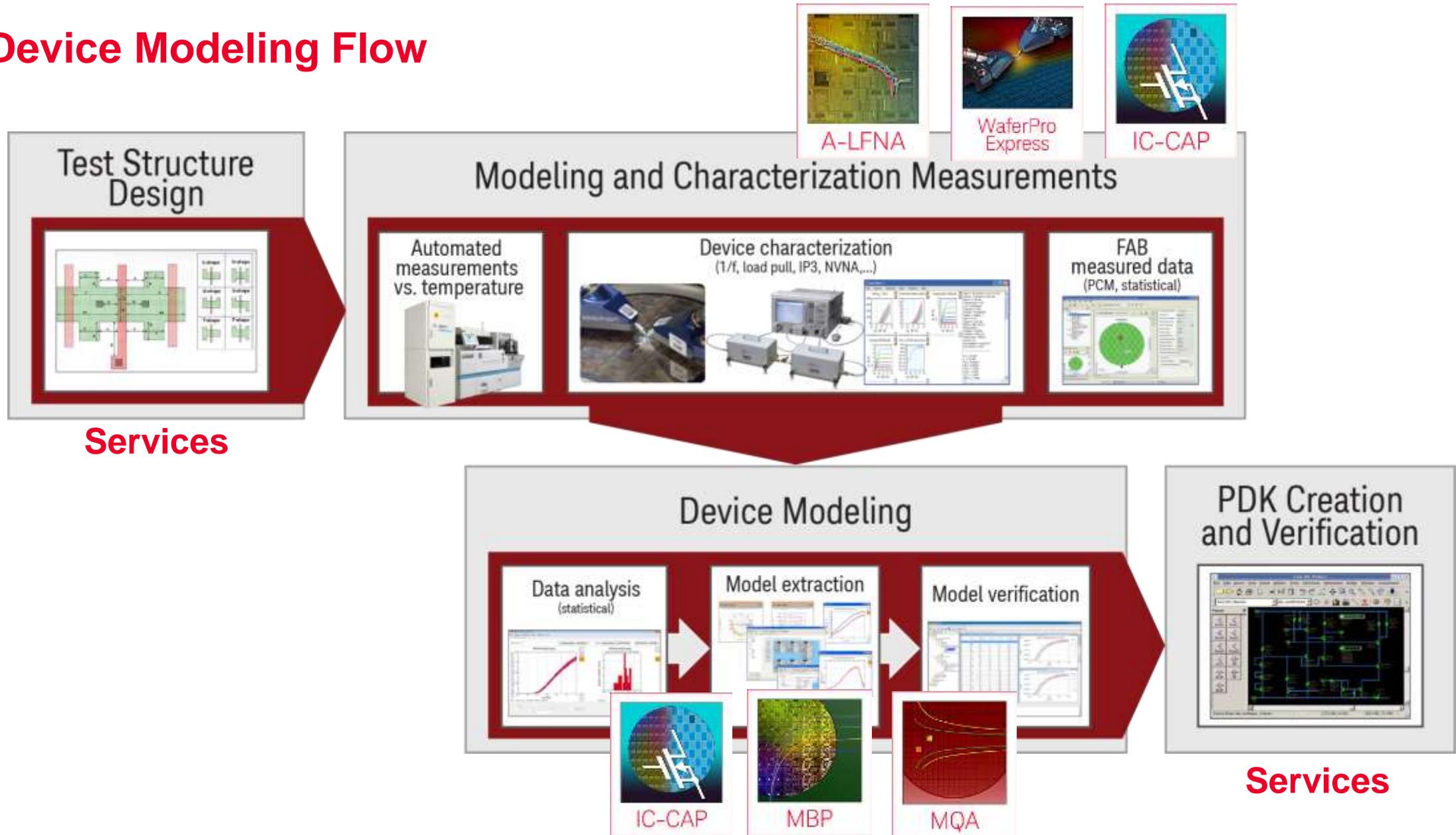


Overview of Keysight Device Modeling Solutions

Sherry Lyu, Solution Engineer

Device Modeling Flow



PathWave Device Modeling (IC-CAP)

Turn Key Modeling Solutions

- RF Extraction Modules (HBT, FET, HEMT)
- CMOS Modeling Packages

Open and flexible environment

- Wide choice of simulations
- Programming (PEL & Python)
- Powerful Optimization
- Advanced Graphic Capabilities

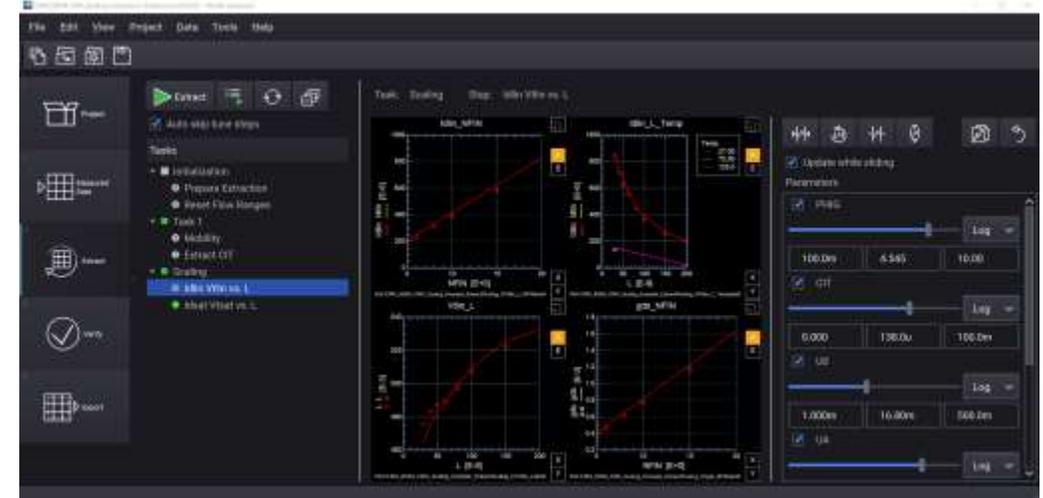
Measurement Solutions

- Extensive Library of Instrument Drivers
- Automated Measurements
- Efficient Data flow and storage

- **Be productive** from day one

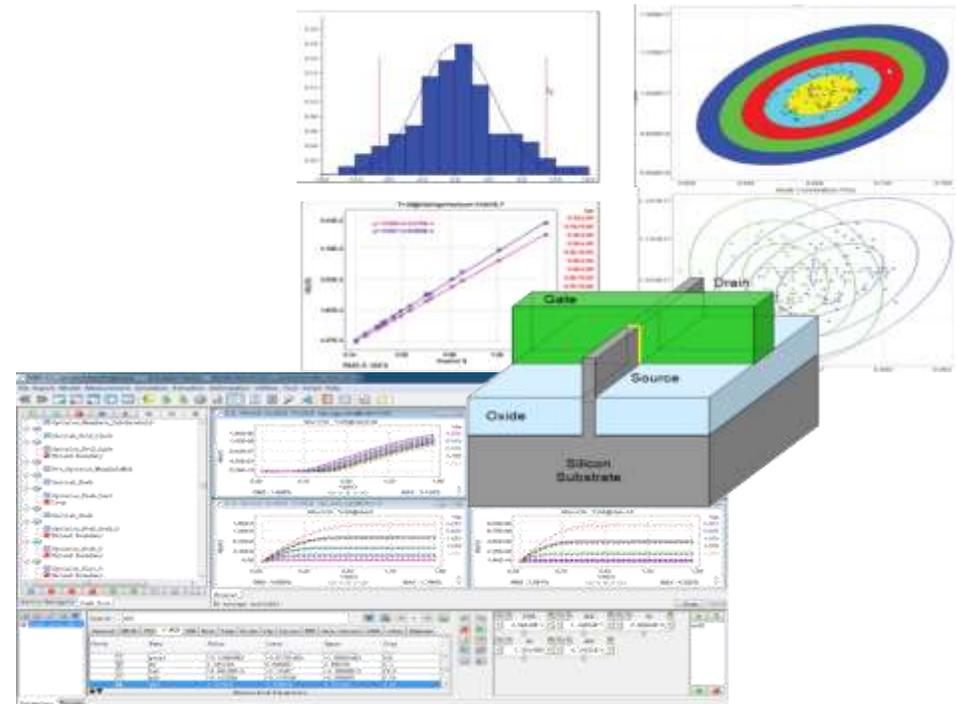
- **Customize** and add your IP

- **One platform** for both measurement and modeling, DC and RF



PathWave Model Builder (MBP)

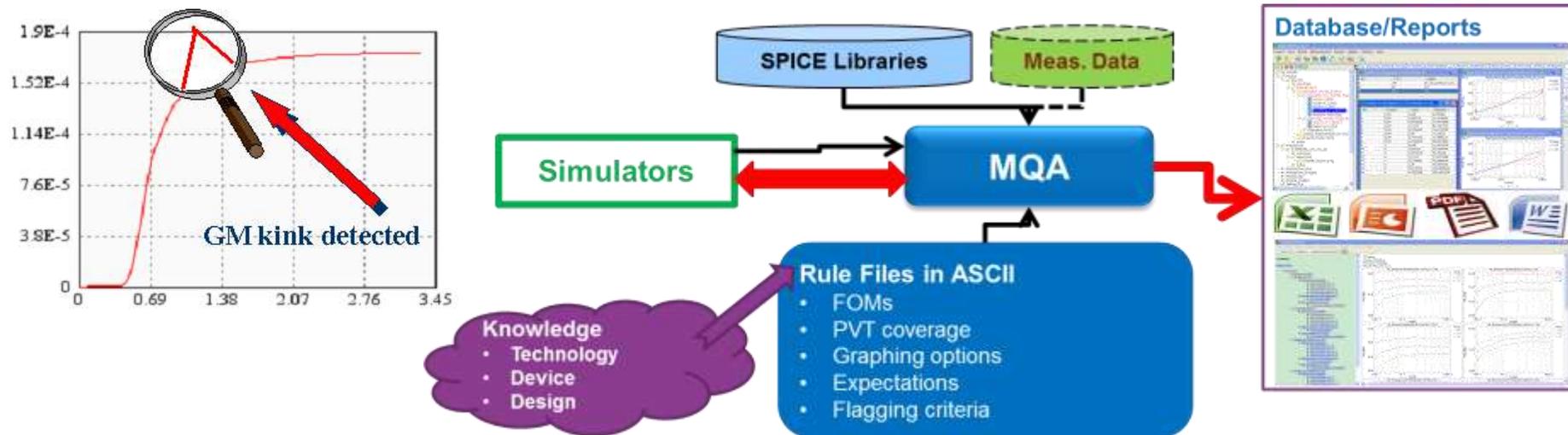
- Automated extraction packages for industry standard models
 - MOS: BSIM-CMG, BSIM-IMG, BSIM-SOI, BSIM-BULK, BSIM3/4, PSP, HiSIM2, HiSIM_HV, etc.
 - BJT: Gummel–Poon, VBIC, HICUM, Mextram
- Turnkey solutions for specialty modeling
 - Statistical & mismatch model extraction
 - Layout proximity effects (LPE) modeling
 - HVMOS/LDMOS modeling
 - Scalable Inductor modeling
 - Corner library generation



PathWave Model QA (MQA)

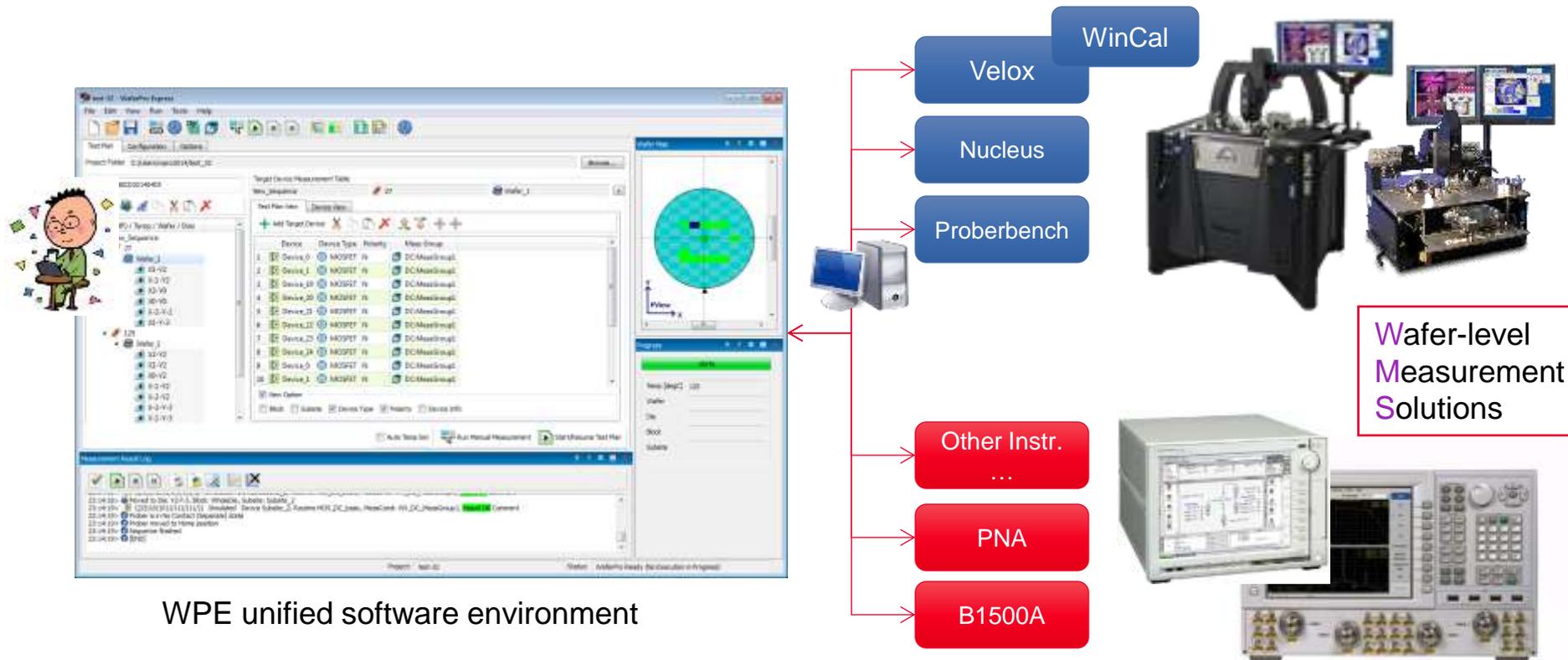
A SPICE model quality assurance tool that

- Assists modeling experts to perform comprehensive model QA with innovative knowledge-based, rule-driven approach
- Helps designers understand and qualify SPICE models/libraries of ever growing complexity

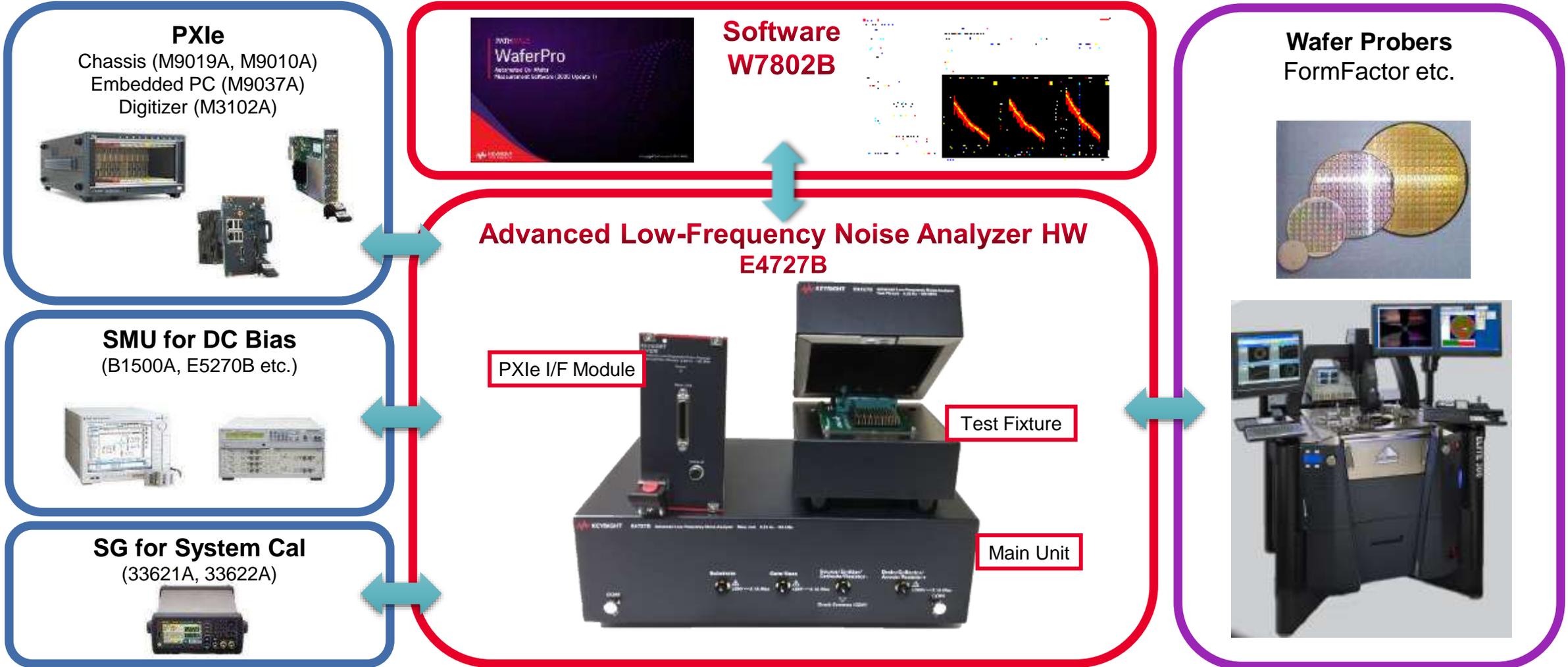


PathWave WaferPro (WaferPro Express)

A new easy to use, yet flexible and powerful software platform to control **automated wafer-level measurements** of devices and circuit components.

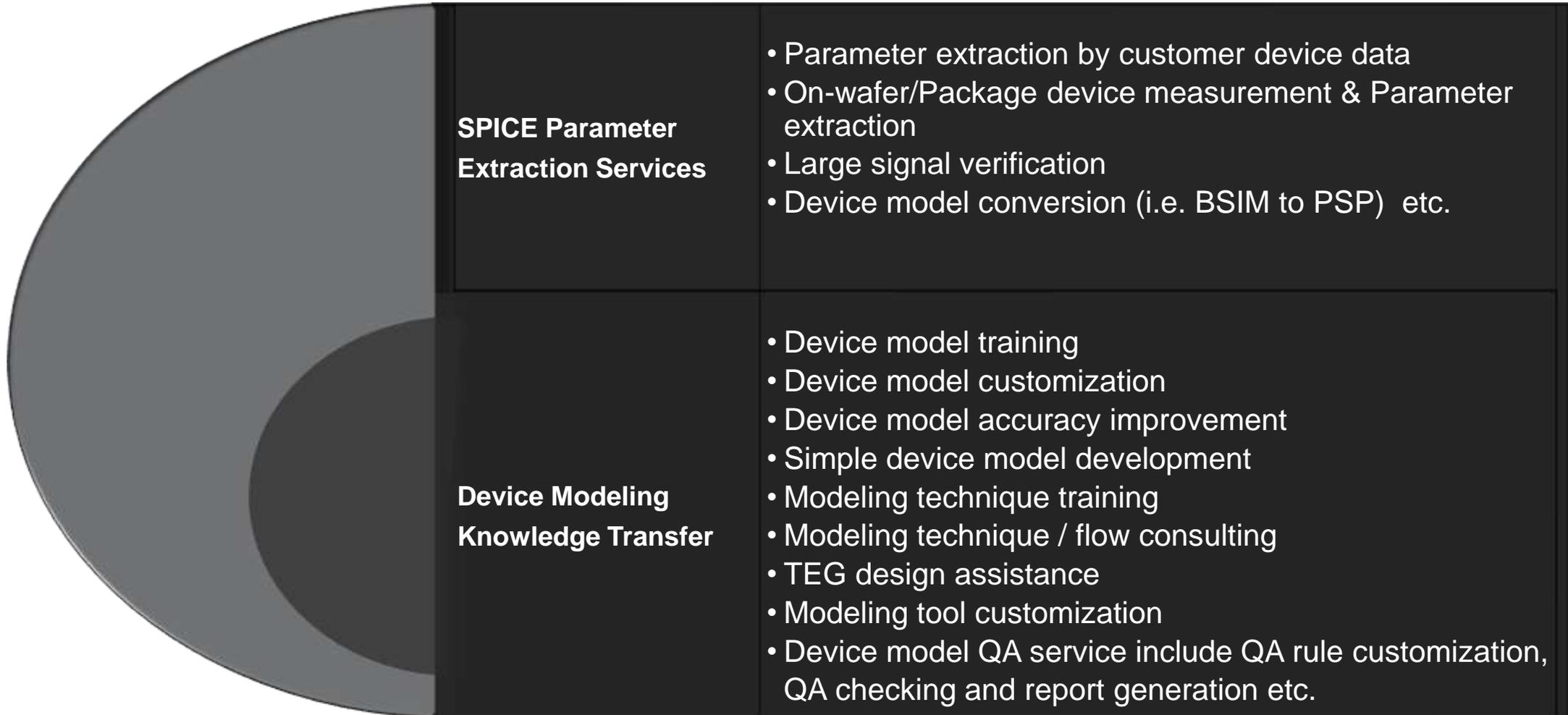


E4727B Advanced Low-Frequency Noise Analyzer (A-LFNA)



* DC Analyzer and the Wafer Prober are not included in the system

Device Modeling and Consulting Services



Thank you