

OBJECTIVE :

- A platform for estimating and optimizing the power and energy consumption of complex electronic systems
- Open : internet access, partners club
- Extensible : online measurements and model development

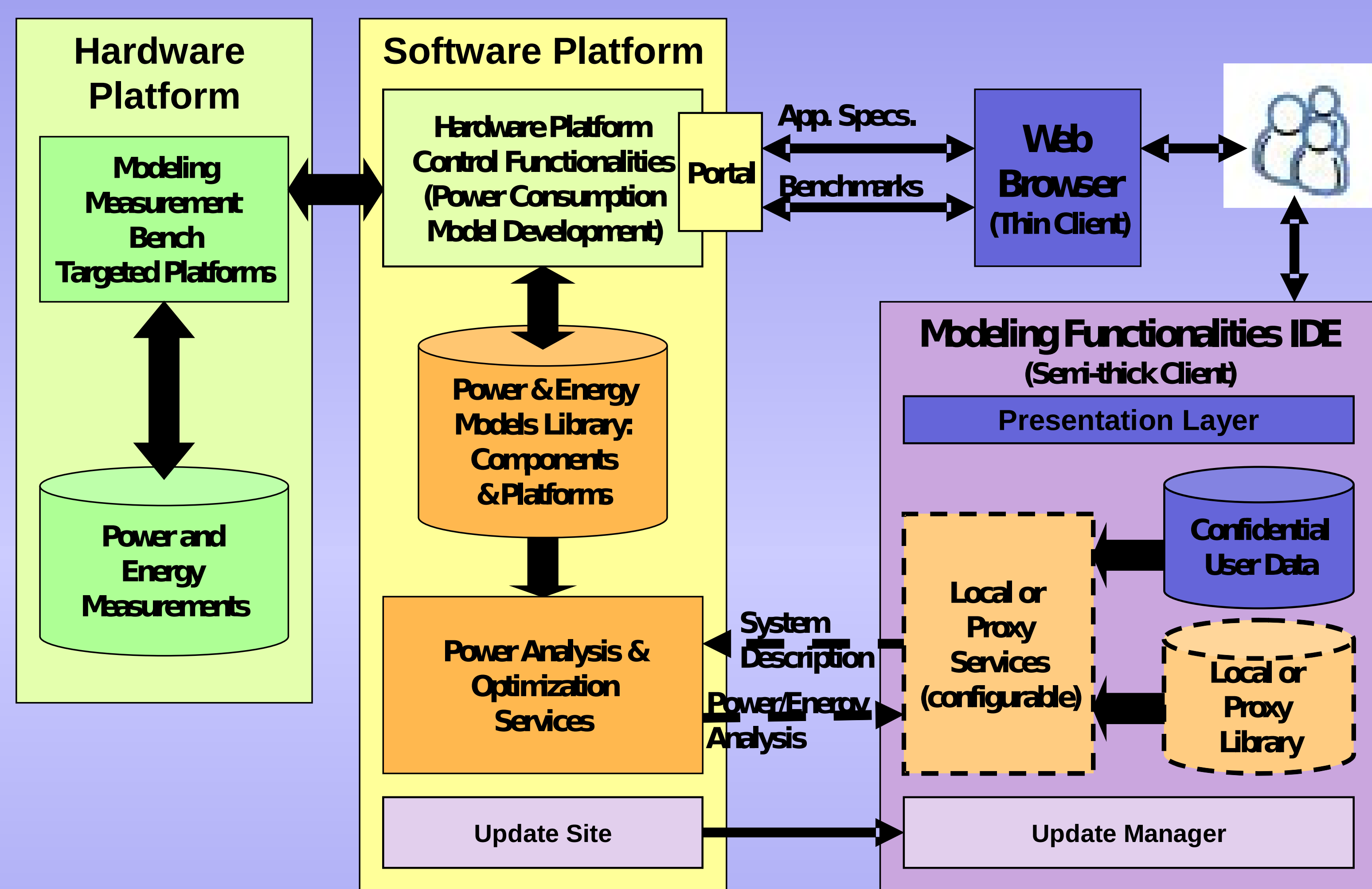
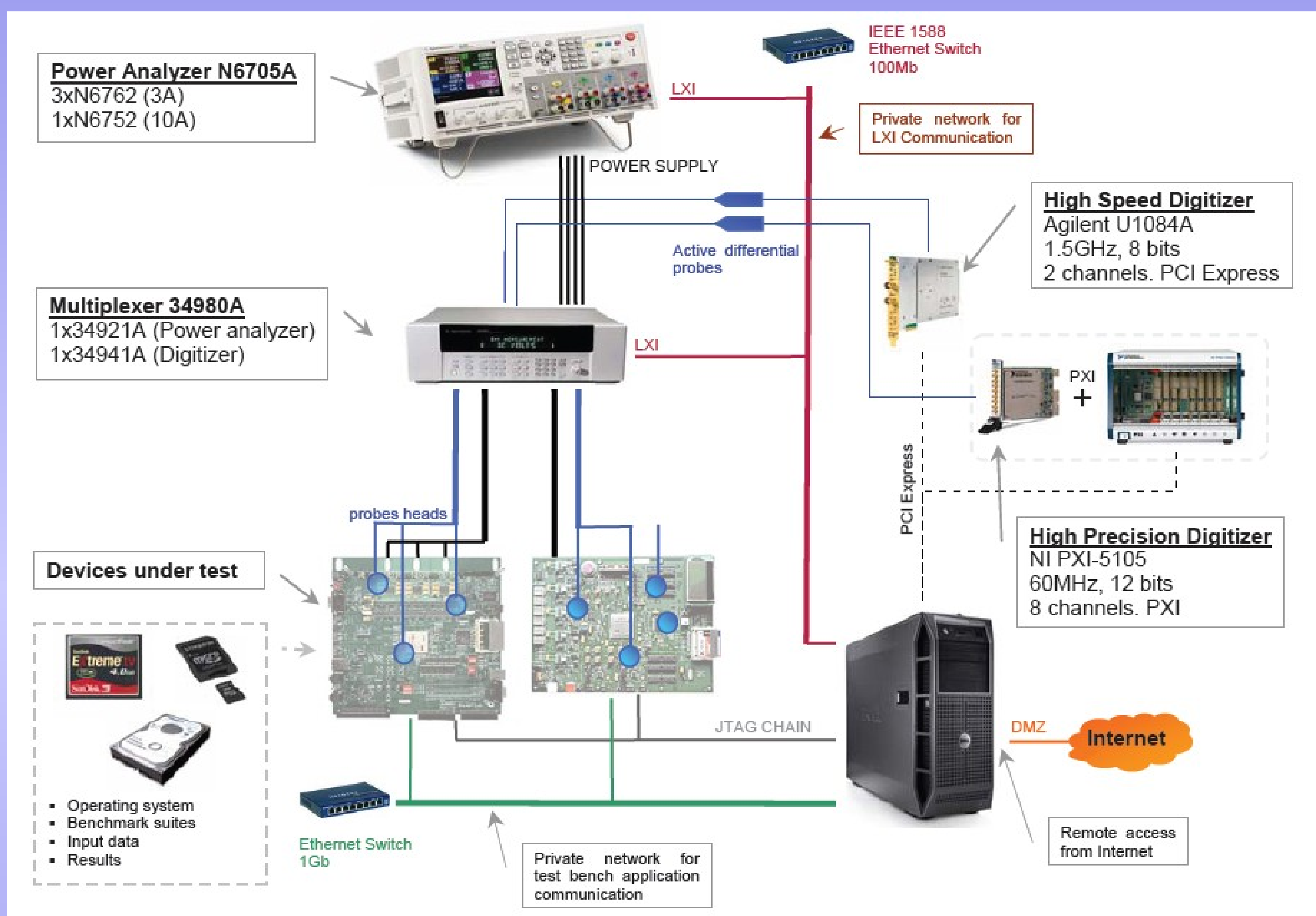
PARTNERS :

- Université de Bretagne Sud / Lab-STICC
- THALES Communication
- INRIA - Lille Nord Europe / DART
- INRIA - Nancy Grand Est / LORIA
- Université de Nice Sophia Antipolis / LEAT
- Université de Rennes 1 / IRISA - CAIRN
- InPixal (sub-contractor)

RESULTS :

- Software platform via internet portal or local client
- Hardware platform with automatic measurements to develop new models
- Methods and tools for consumption estimation and optimization
- A library of standardized software and hardware components models
 - ✓ Models for complete platforms
 - ✓ Models for operating systems services
- Demonstrators
 - ✓ Video (analytic + compression)
 - ✓ Telecommunication (SDR)

<http://www.open-people.fr>



INNOVATIONS :

- Integration of high-level power models in the MDA design flow
- Consumption analysis for:
 - ✓ Reconfigurable components
 - ✓ Operating systems and power management services
 - ✓ Heterogeneous multi-processor platforms
 - ✓ Memory transfer optimization
- Compiler optimization for peak power reduction
- Power and energy models standardization
- Generic models for generic components
- MDE techniques : a DSL for power analysis

