

MultiPARTES FP7 Project

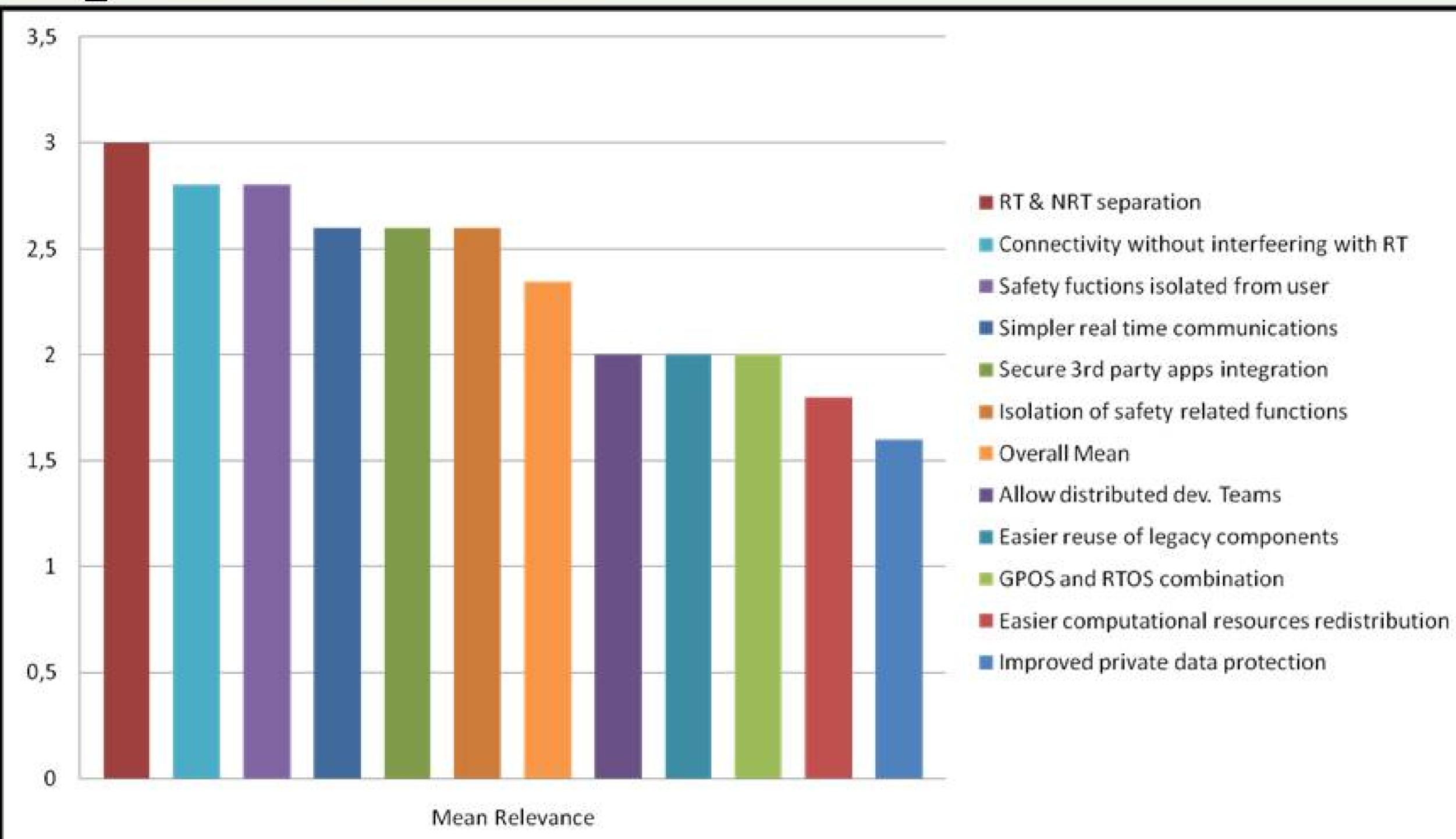
Multi-cores Partitioning for Trusted Embedded System



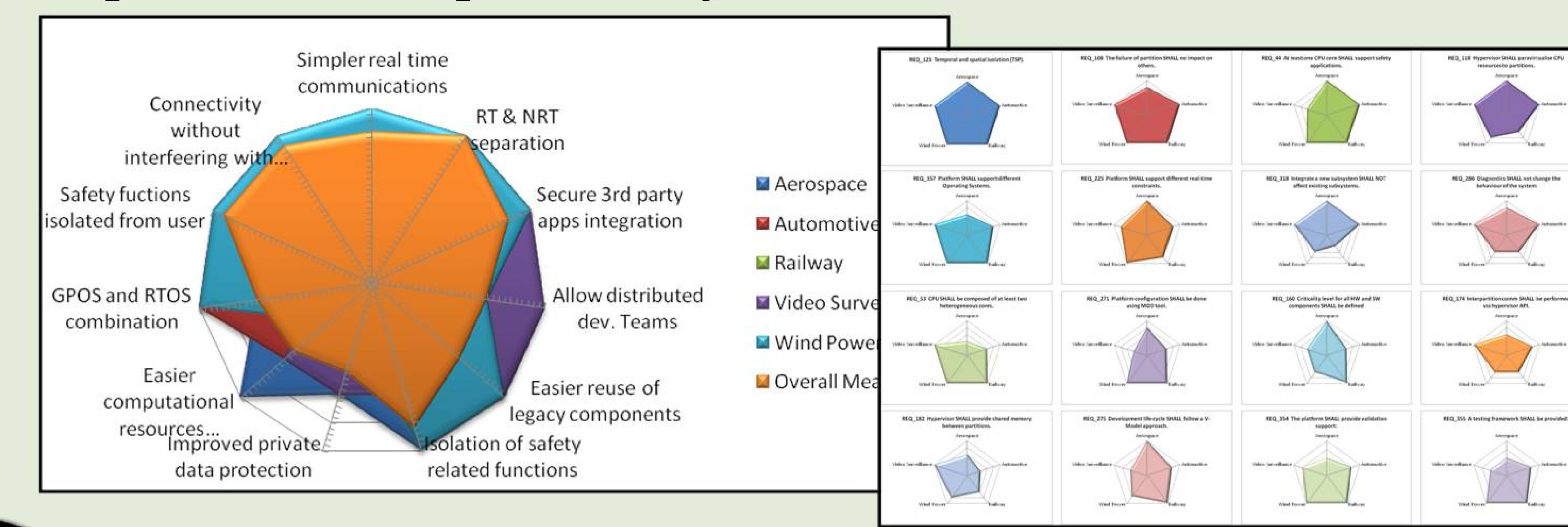
<http://www.multipartes.eu> <http://twitter.com/#!/FP7MultiPARTES> <http://www.youtube.com/user/FP7MultiPARTES>

HiPEAC 2013 – Berlin, Jan 2013

Expected benefits

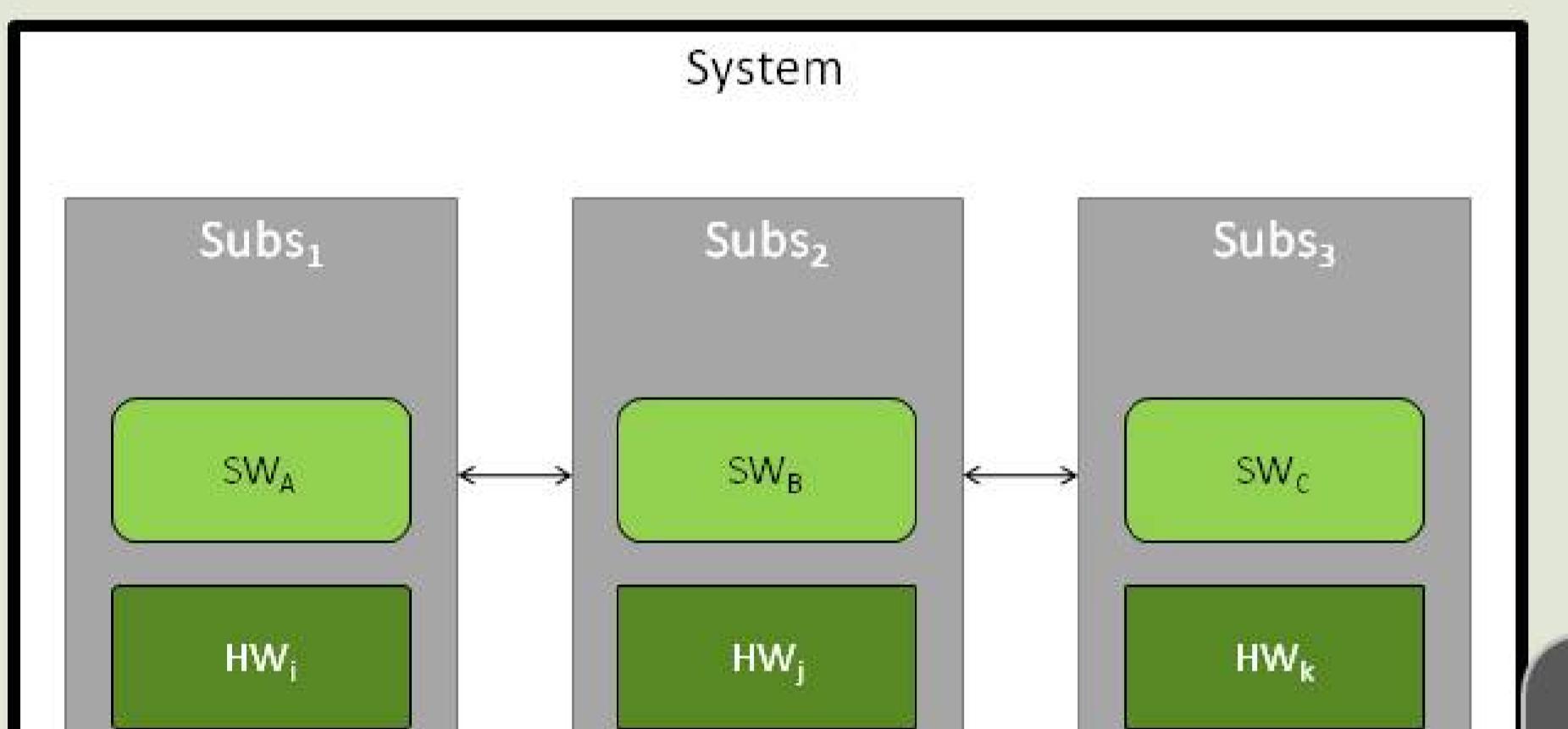


Expected benefits per industry



- ## Highlights
- ✓ Mixed Criticality
 - ✓ Open-source Hypervisor
 - ✓ Multicore virtualization
 - ✓ Industrial Validation
 - ✓ Model-Driven Methodology

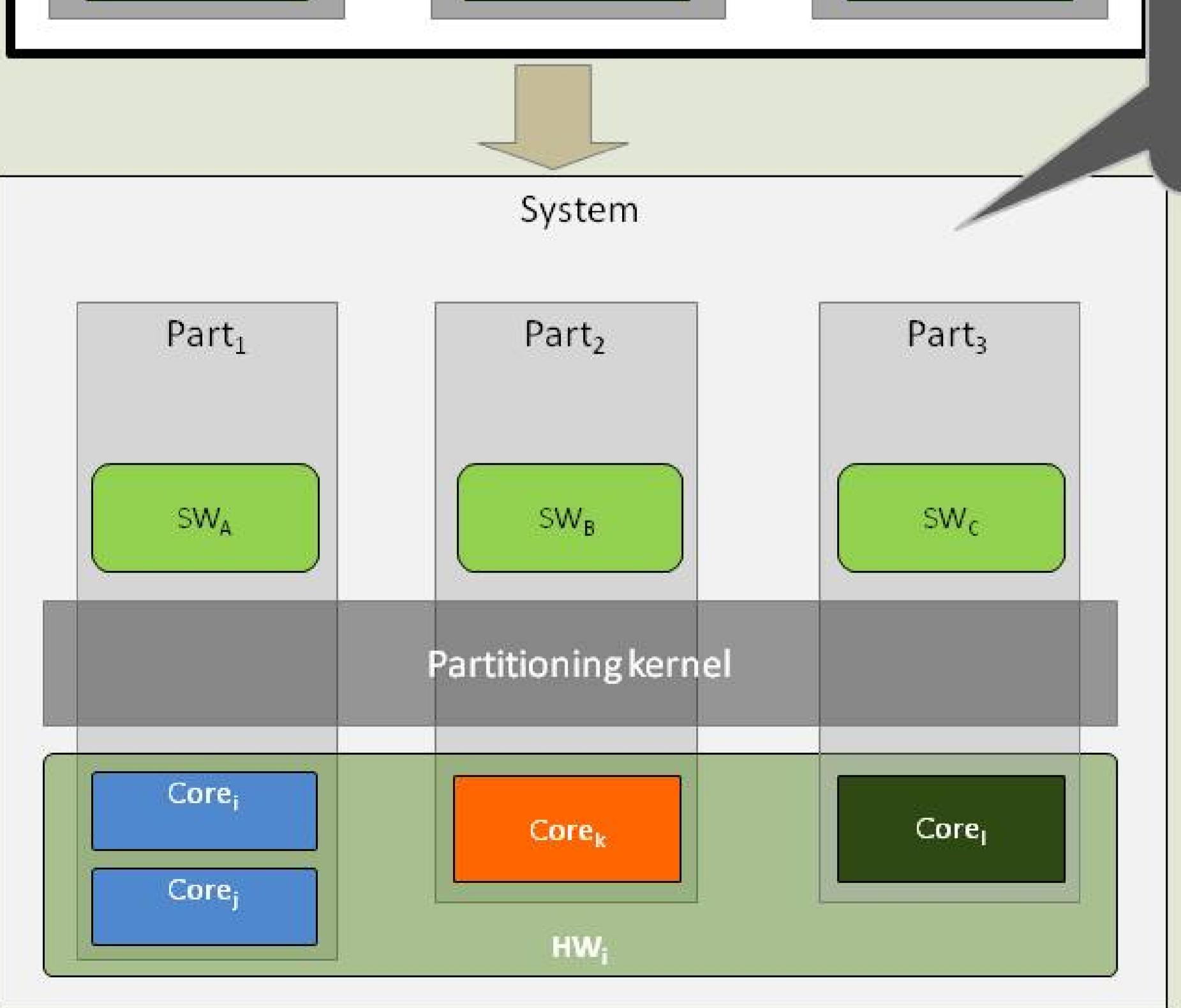
From single cores to Multi/Many-core



Pre MultiPARTES

N subsystems, each with its own specific hardware platform

Ability to integrate several systems into a single hardware platform



With MultiPARTES

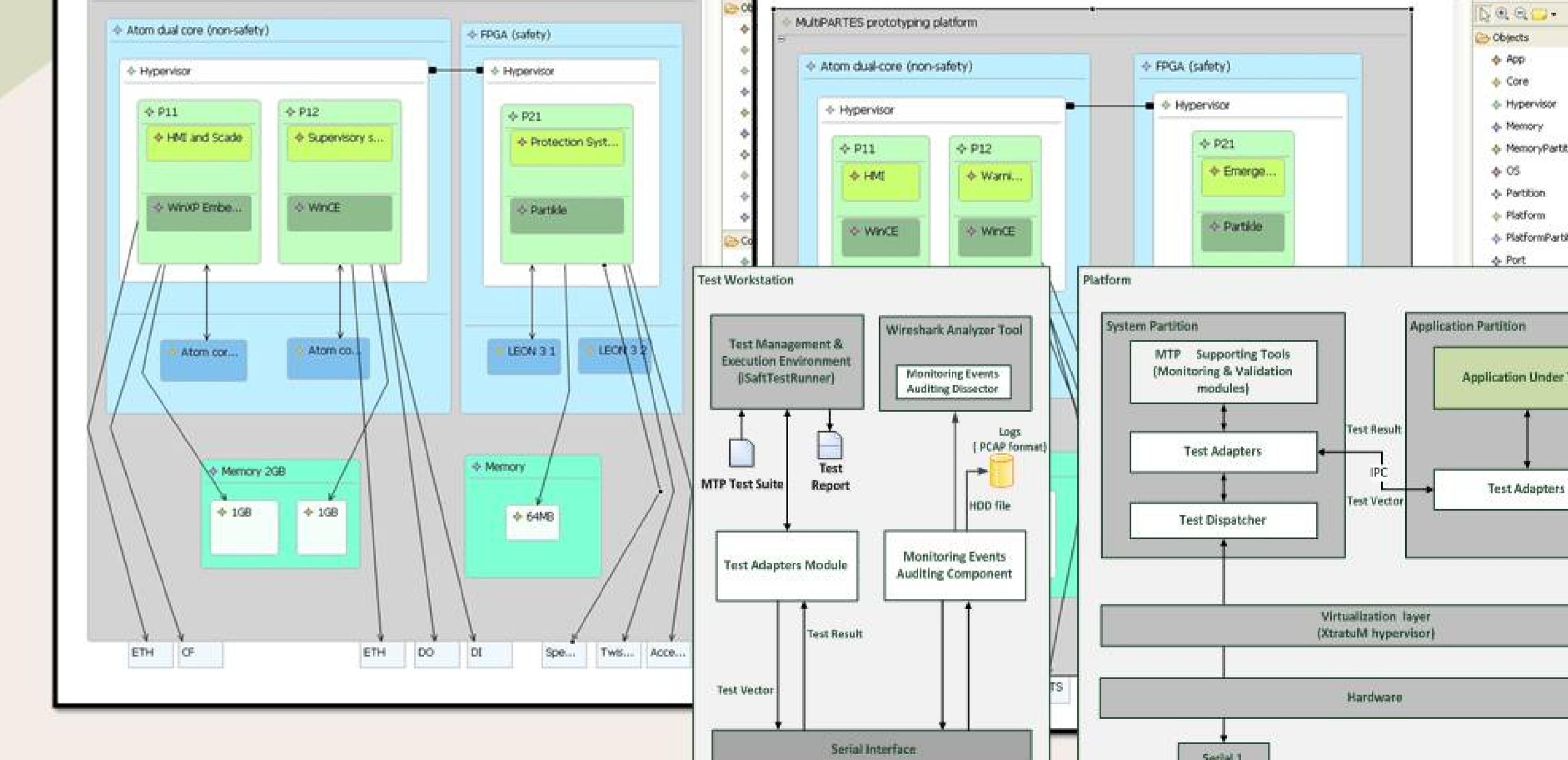
Single hardware platform shared by the subsystems by means of partitioning over multiple cores



MPT

Open Issues

- Points under discussion within the consortium
- Temporal & Spatial isolation in multicores
 - Certification of the approach
 - Reduce scope/number of use cases
 - Security implications
 - Generalize modeling approach
 - Multicore heterogeneity



Industry-driven Project

market orientation is central and critical for the success

