TRUST-E
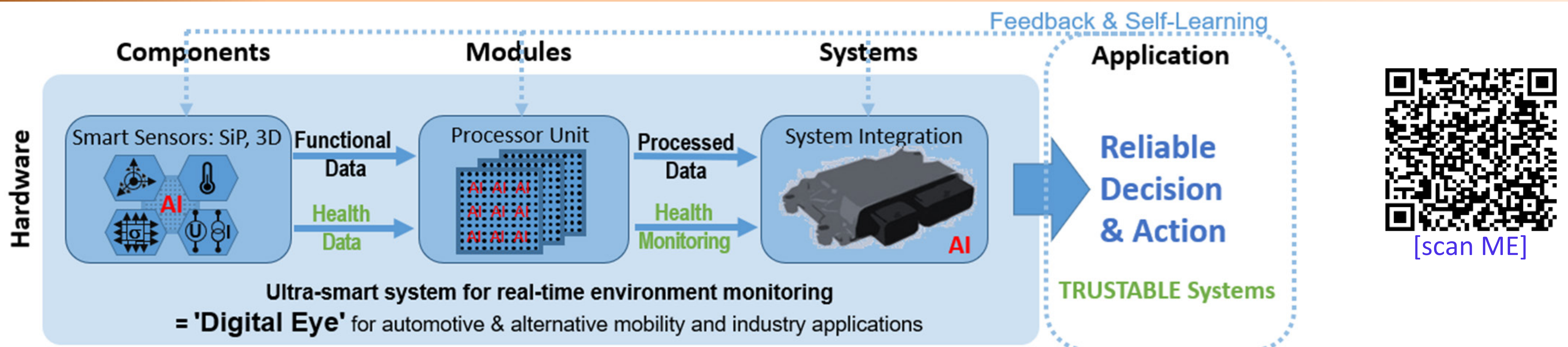## GENERAL CONCEPT

Trustable (sensor-driven) electronics – for Automotive, Aviation and Industrial Applications

Trustworthiness at every level from components to system integration. TRUST-E is targeting a significantly increased trustworthiness of complex systems, focusing on advanced sensor systems across the whole chain from single components, via modules, to system integration. It will deliver innovations in hardware reliability, safety, health / lifetime monitoring, and the use of embedded AI techniques for highly demanding applications in sensing and Edge computing for mobility.

PROJECT PARTNERS

GOALS/OBJECTIVES

To significantly enhance the trustworthiness of complex electronic systems in demanding use case scenarios, with:

- Advanced sensor systems for smart control units in safety relevant use.

- Create and include system-smartness with artificial intelligence (AI).

- Innovations on all integration levels: component, modules, & system.

- Research on trustable hardware based on multi-level Prognostics and Health Management (Physics of failure & Data driven).

- Increase hardware/system reliability, security, & safety.

A CONCEPTUAL FRAMEWORK ARCHITECTURE
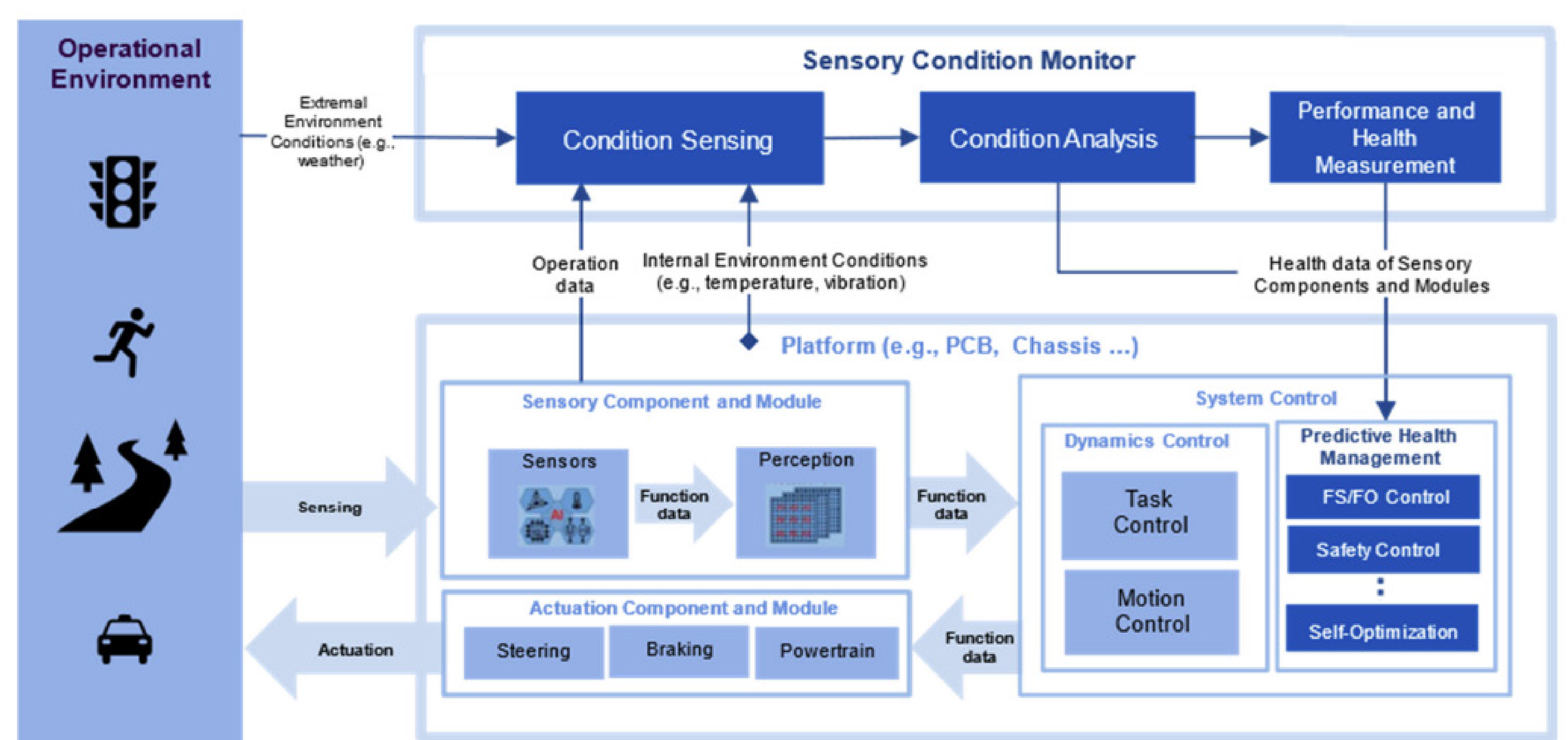
For further reading about the condition monitoring framework for intelligent cyber-physical systems:

RESULTS / SOCIETAL & ECONOMIC IMPACT

TRUST-E will strengthen the strategic alliance among semiconductor companies, equipment manufacturers, packaging service companies, module/system-integrators, and leading European research institutes. It will enable many of the partners to reduce time-to-market and to offer better products or services. This will increase their competitiveness and market share, and reinforce Europe's leading positions in automotive, transport, and industrial applications from semiconductor to system-level.

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