

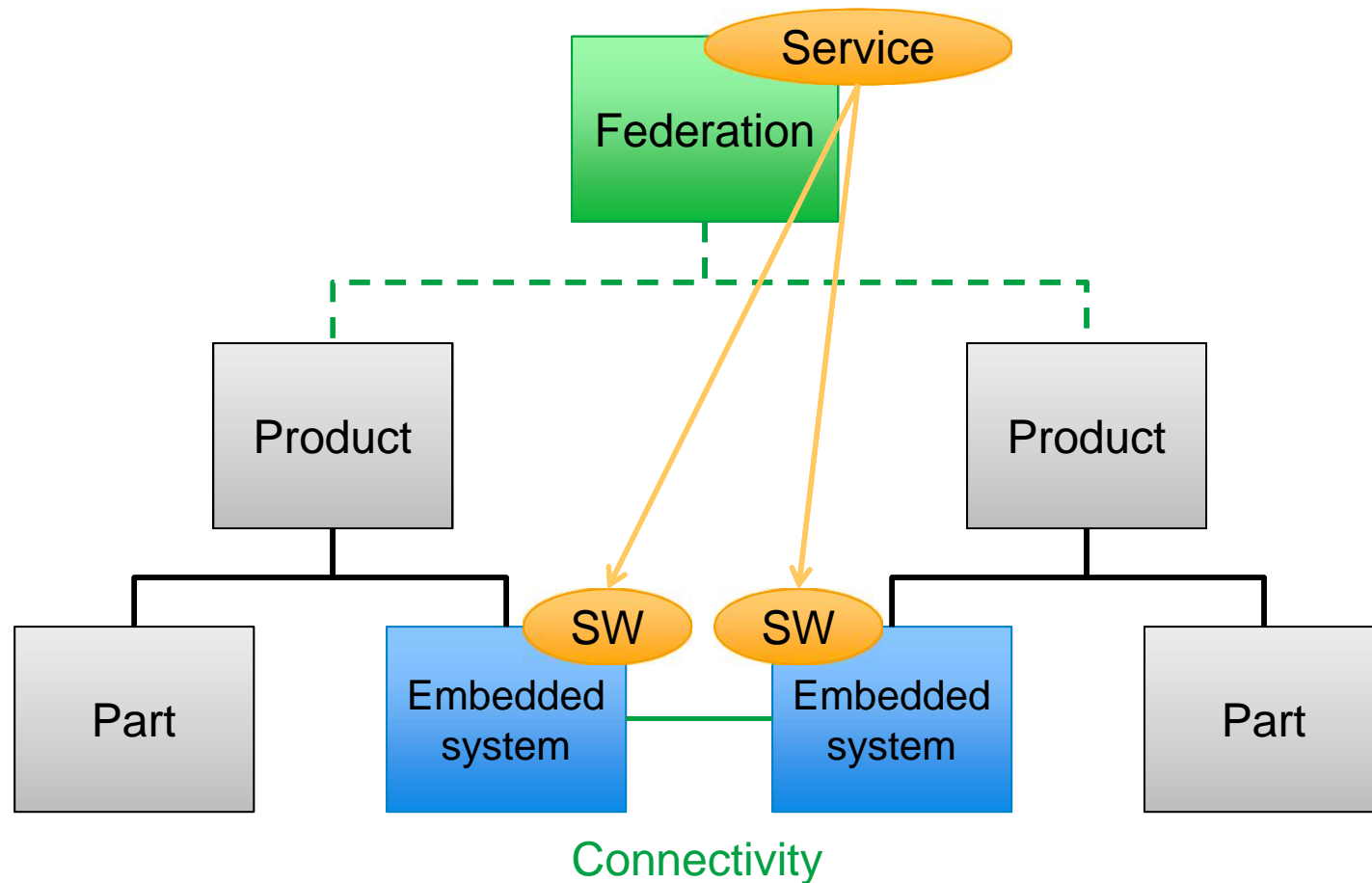
ARCHITECTURAL CONCEPTS FOR FEDERATED EMBEDDED SYSTEMS

Jakob Axelsson & Avenir Kobetski

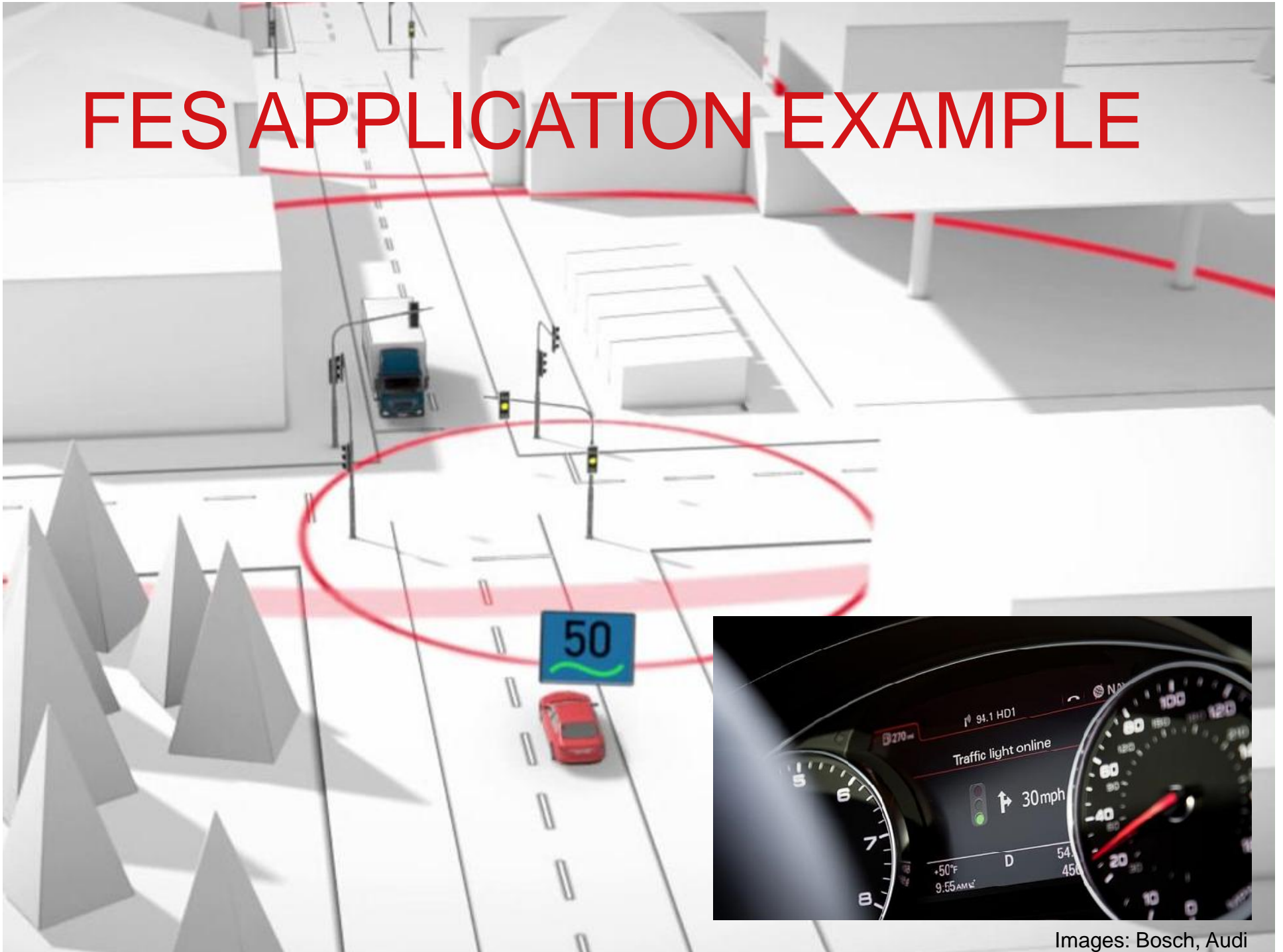
(with contributions from Eilert Johansson, Ze Ni, Shuzhou Zhang,
Efi Papatheocharous, Emmanuel Frécon, and >10 industrial partners)

Swedish Institute of Computer Science (SICS)

FEDERATED EMBEDDED SYSTEMS (FES)

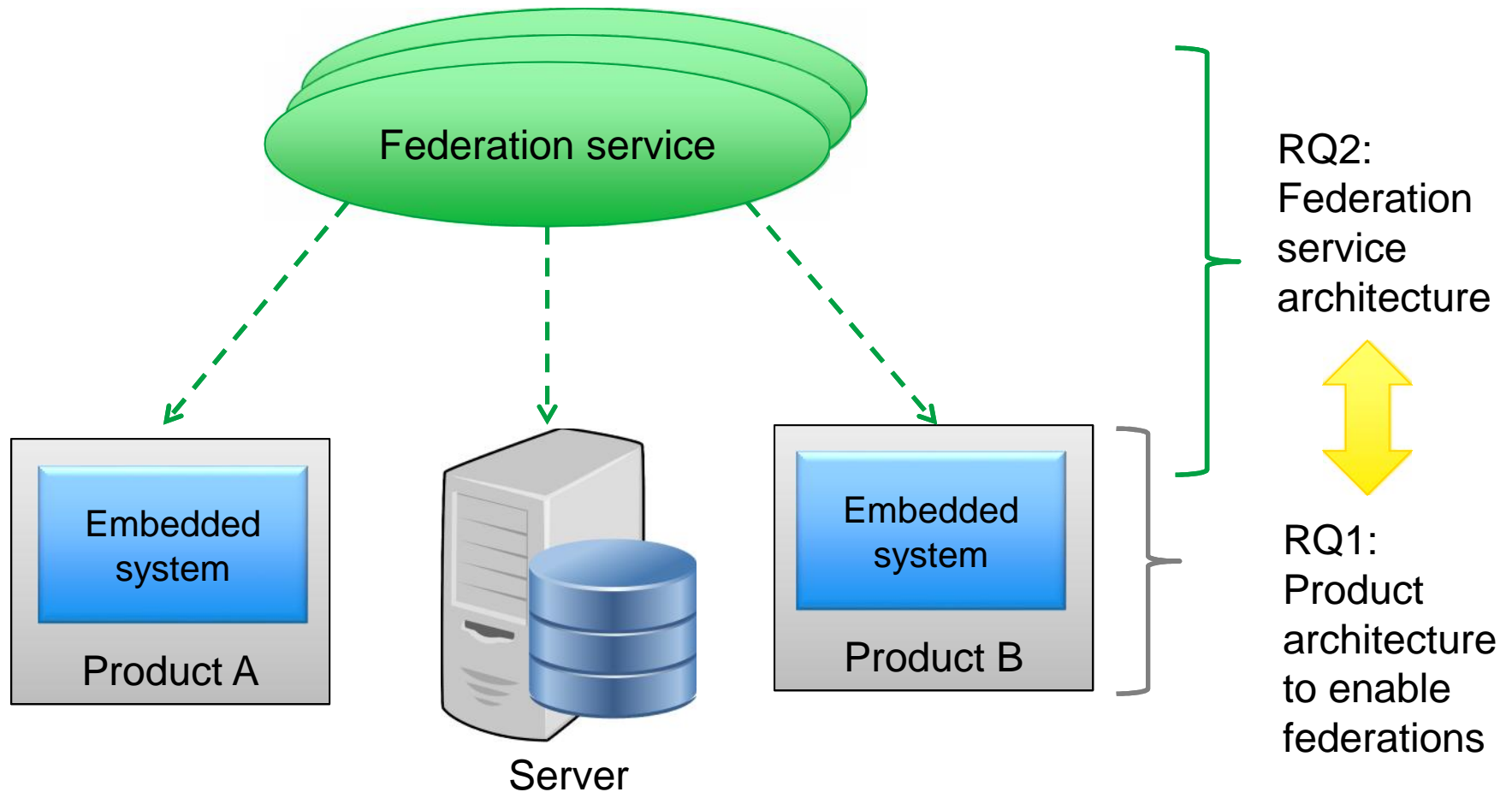


FES APPLICATION EXAMPLE

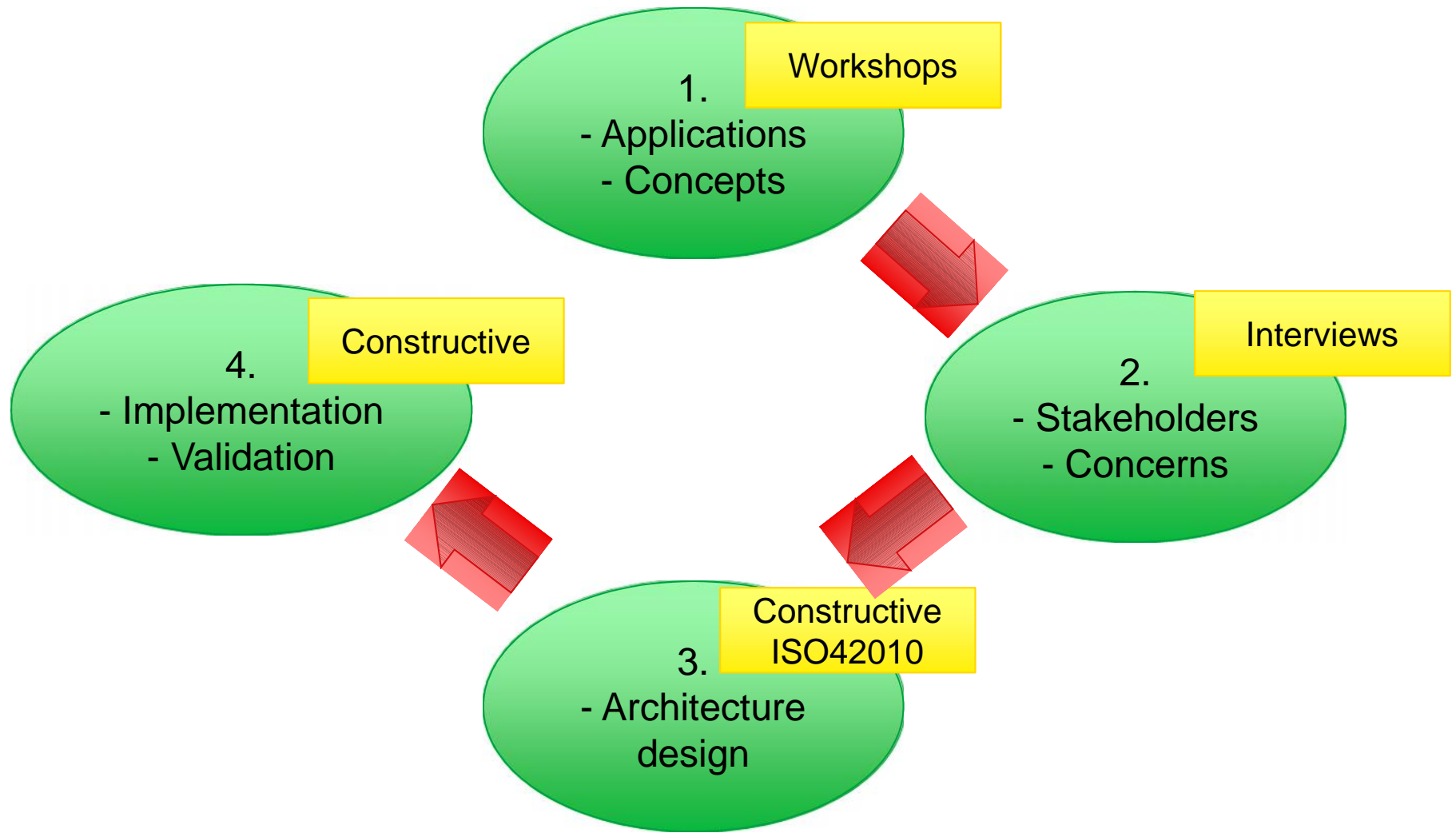


Images: Bosch, Audi

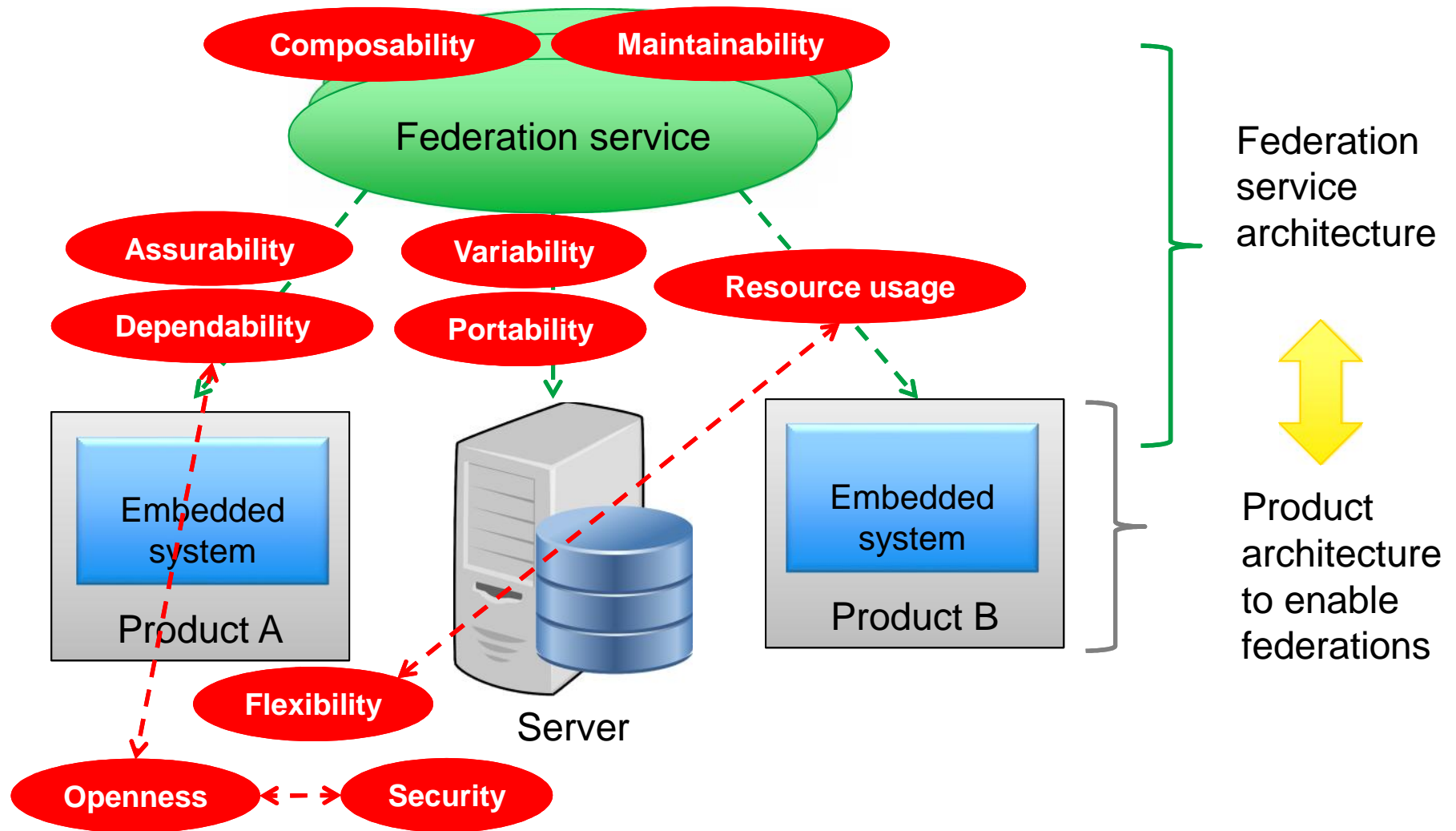
TWO ARCHITECTURES



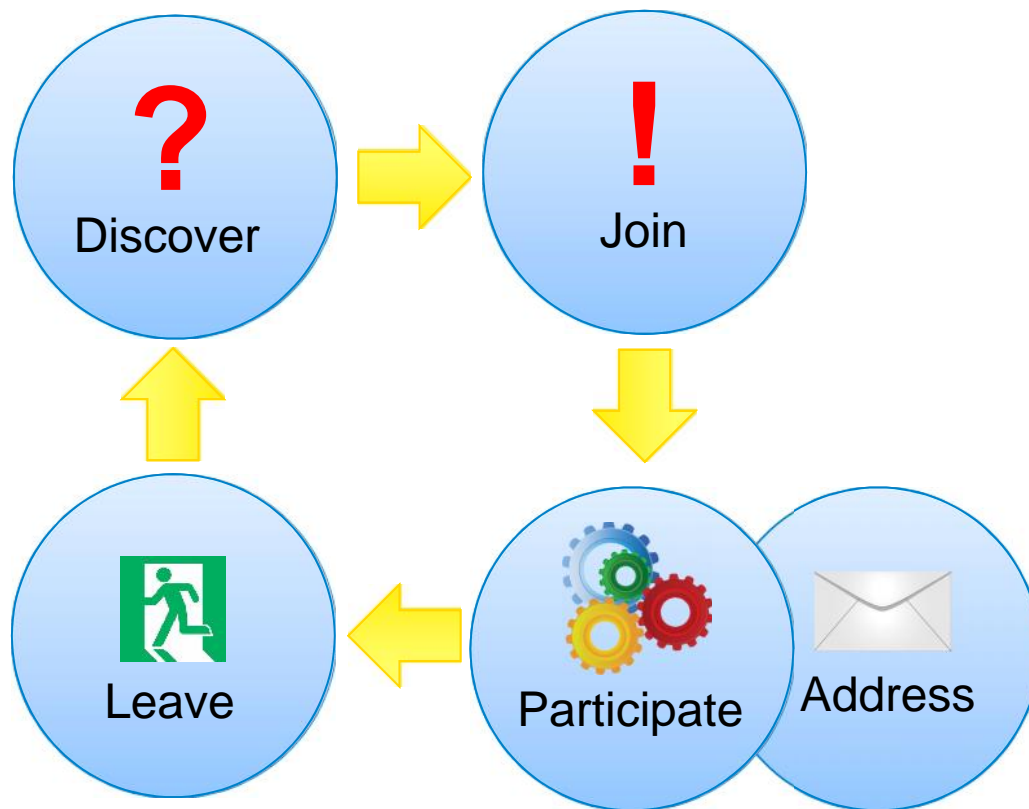
APPROACH AND METHODS



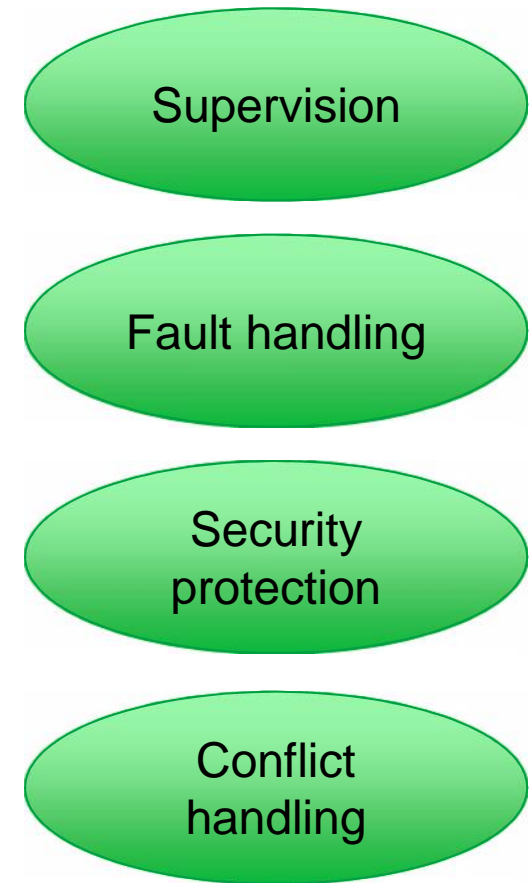
CONCERNS



FEDERATION FUNCTIONS

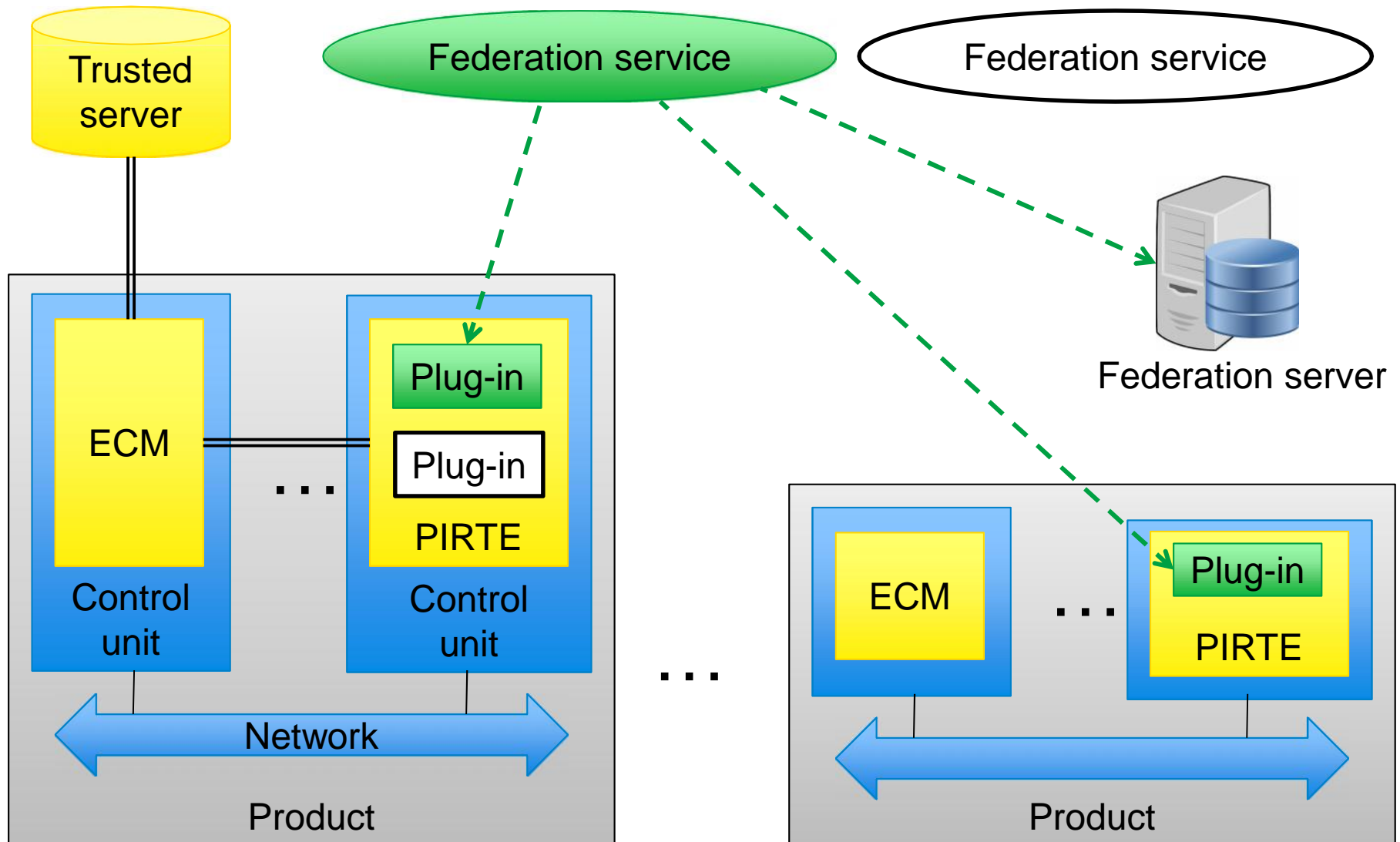


Formation and dissolution

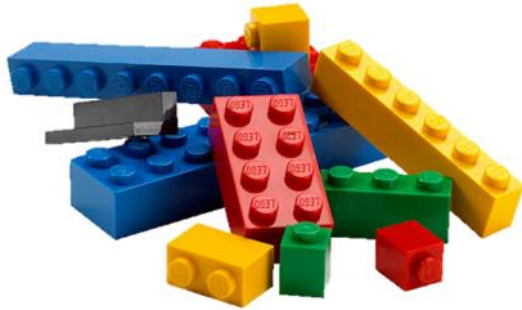


Management

TECHNICAL ARCHITECTURE



DEVELOPMENT



Component-based software

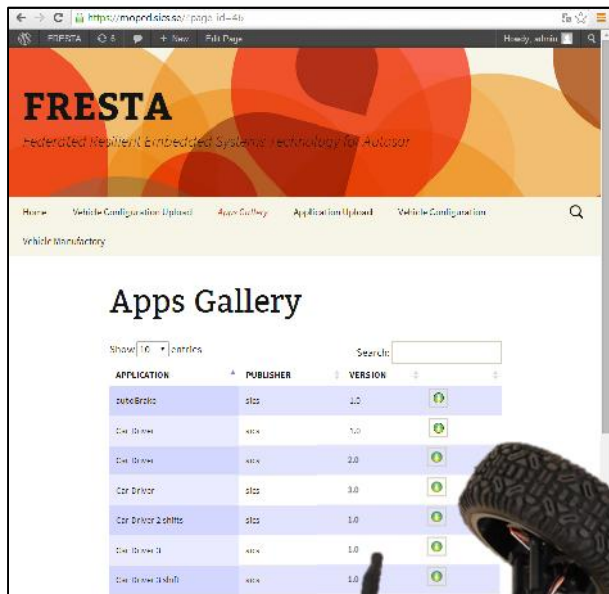


Configuration support

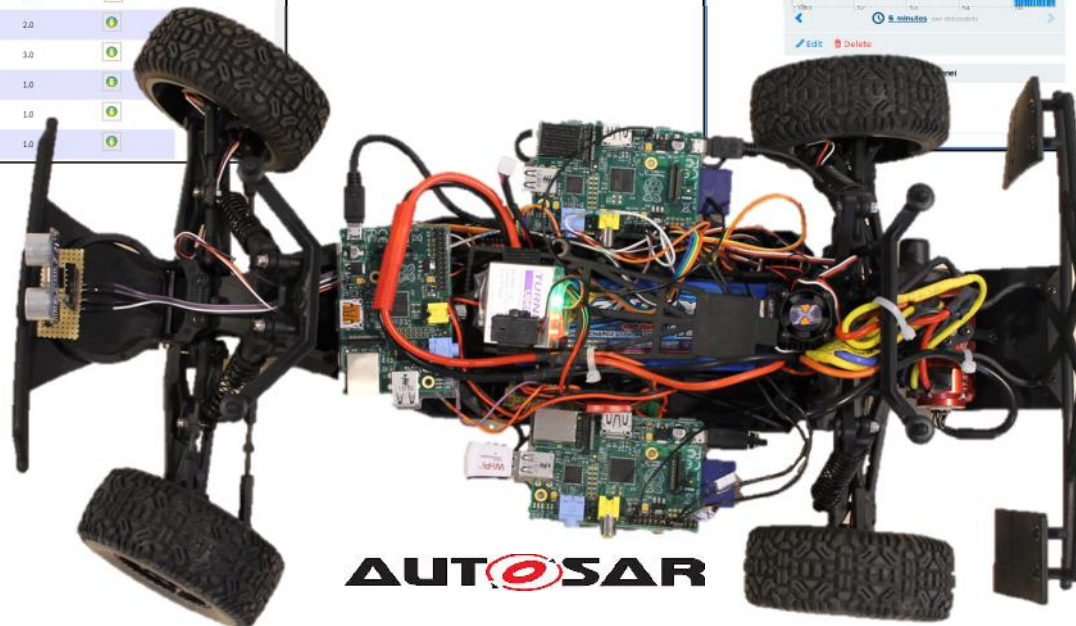


Simulation

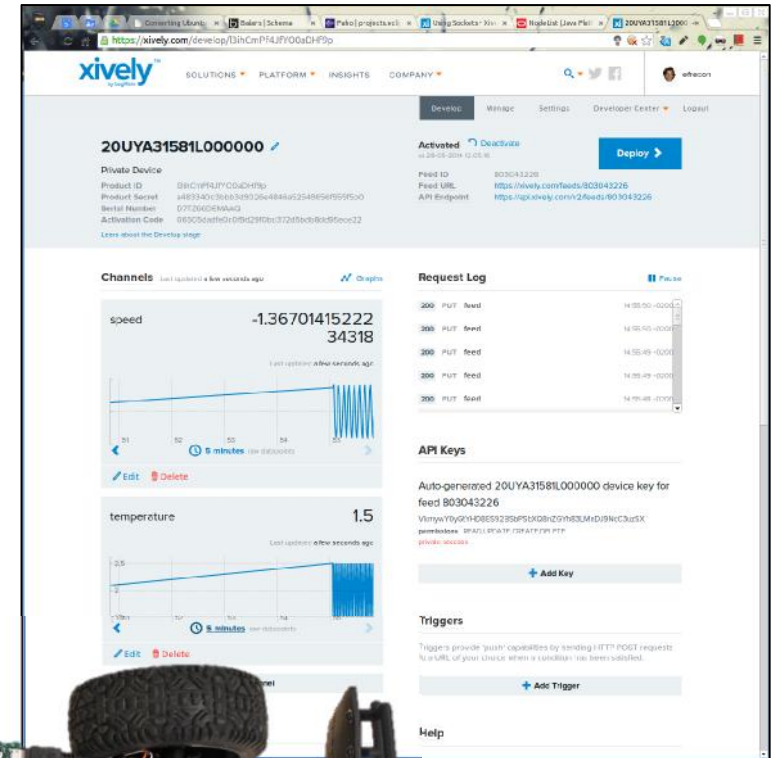
INSTANTIATION



Trusted
server



Product



Federation
server

CONCLUSIONS

