

HARDWARE/SOFTWARE co-engineering

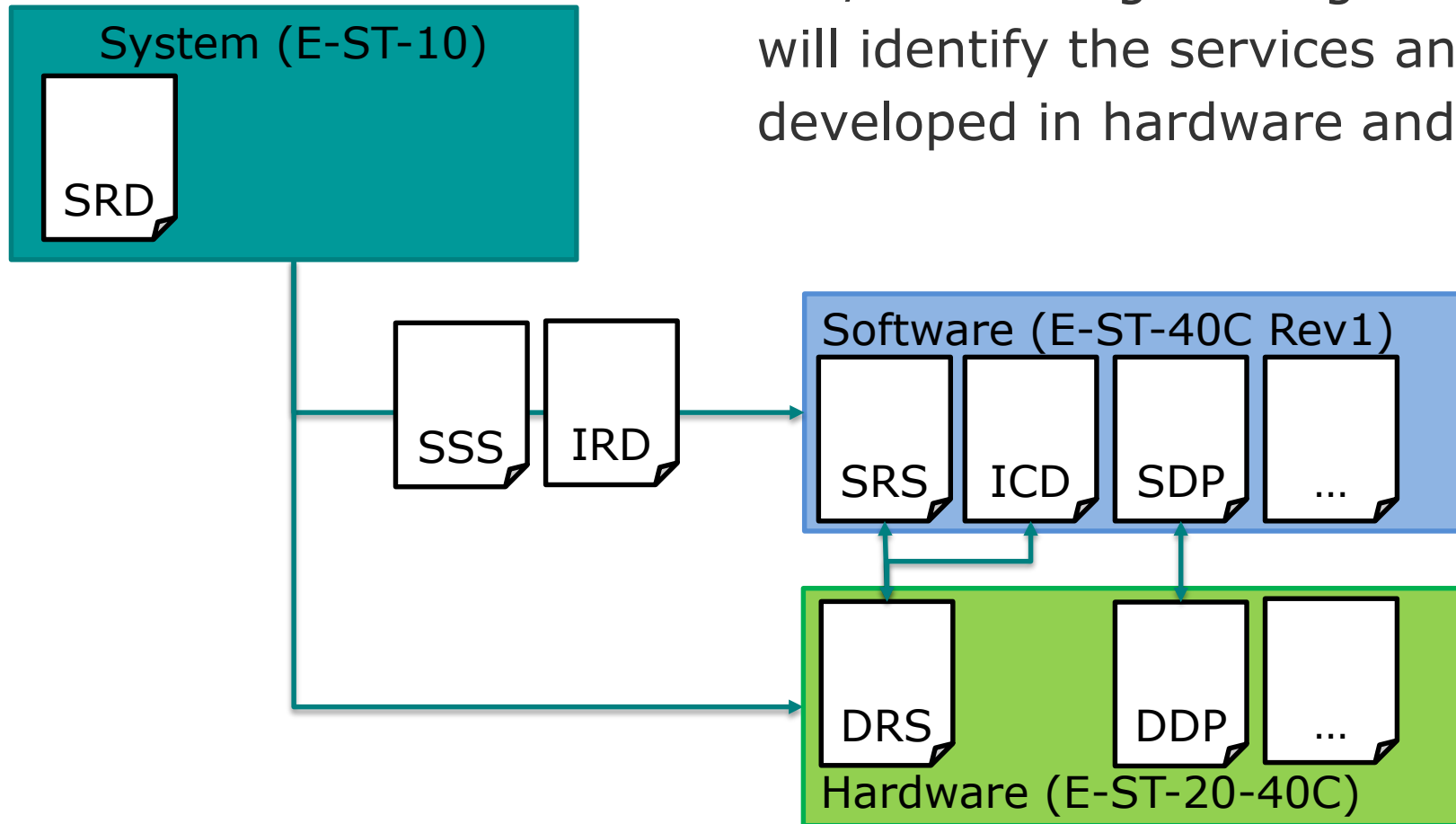
... and its introduction into a Model-Based approach



HW/SW co-engineering as per ECSS (new)



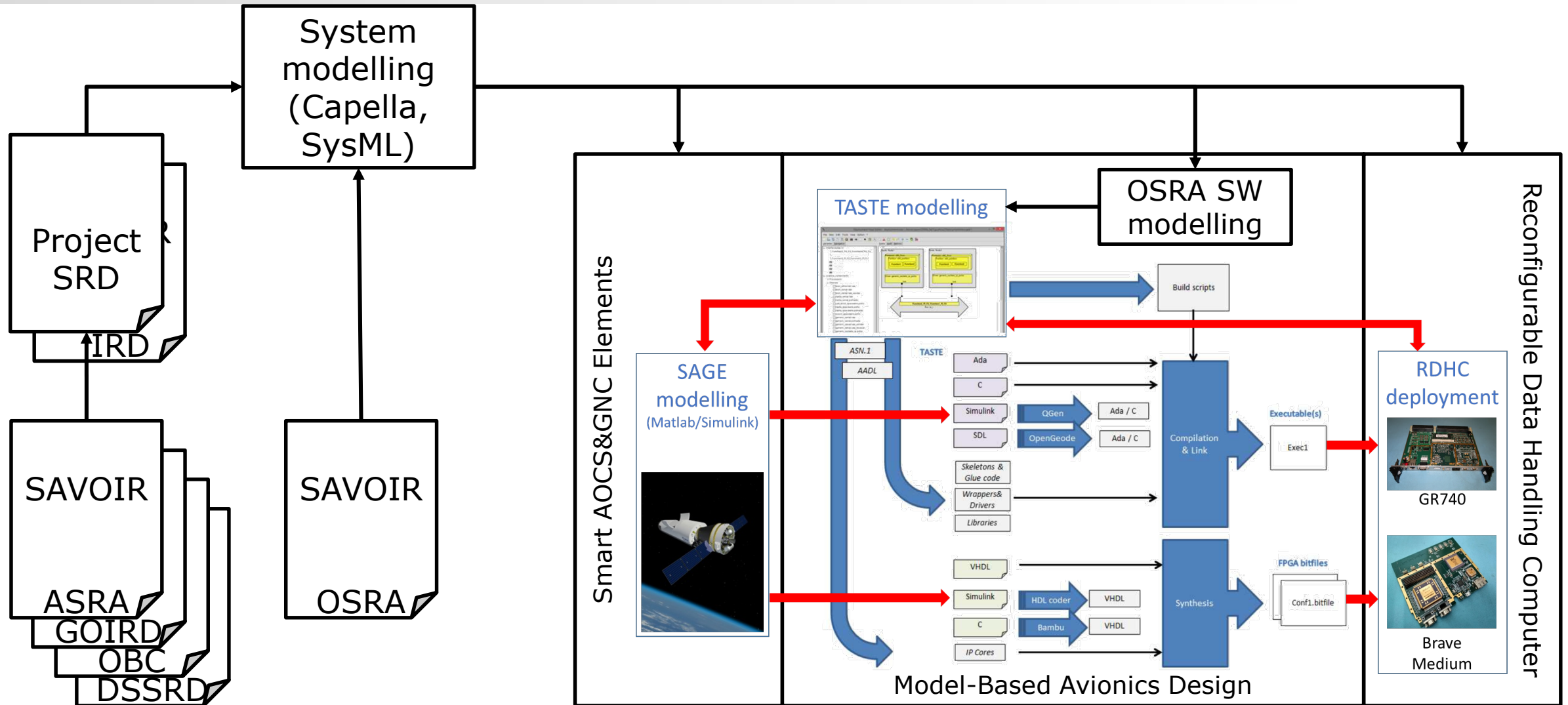
- HW/SW co-engineering is a System activity that will identify the services and interfaces to be developed in hardware and in software.



- SDP and DDP shall identify all the interactions between software and hardware teams: models, simulators, code, ...



Overview of the development flow



Execution platform software

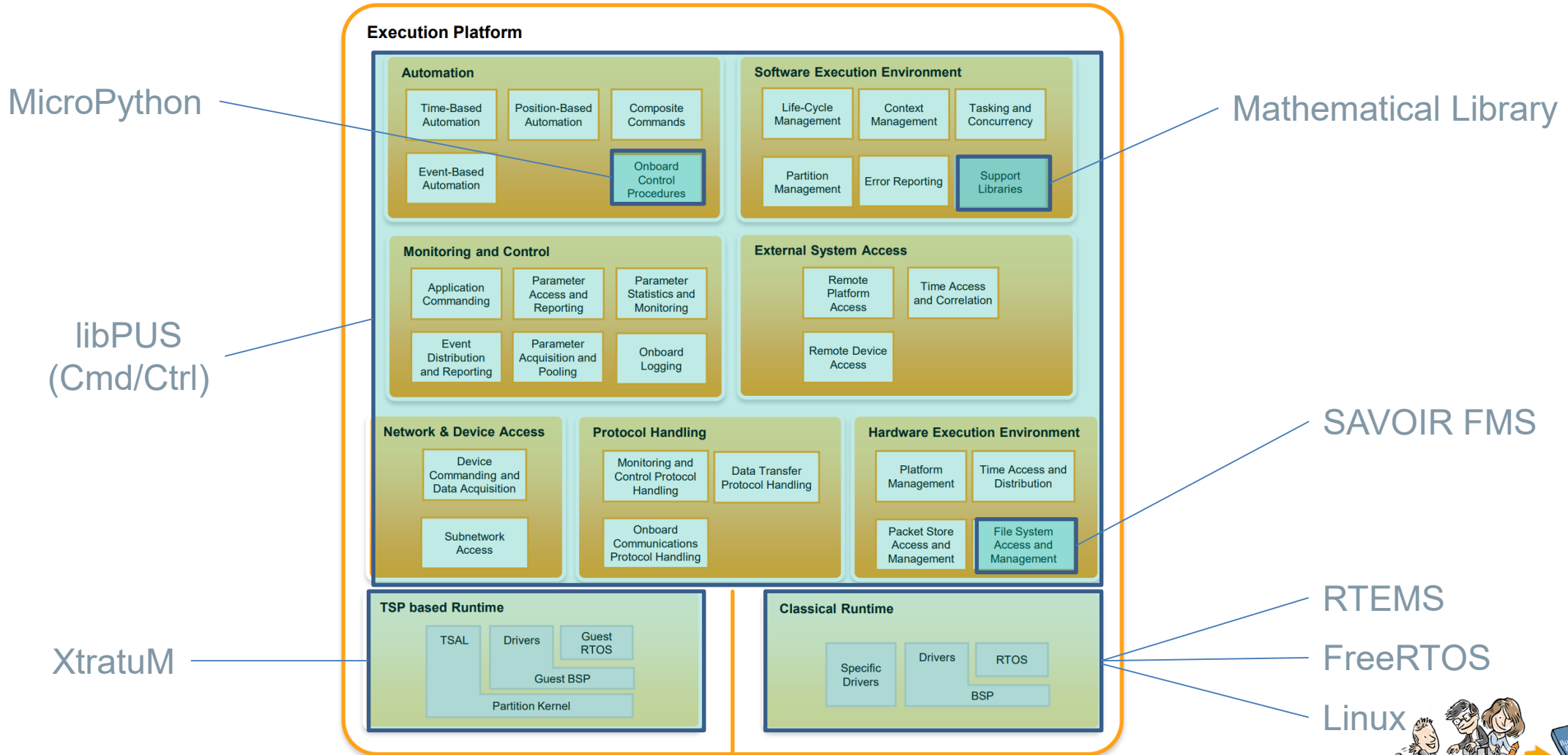


- On-Board Software Reference Architecture (OSRA)
- On-Board Software Reference Architecture for Payloads (OSRA-P)
- Payload Execution Platform Software (PEPS)

- And maybe soon (GSTP Compendium 2022):
 - Model-based execution platform for space applications:
The activity is aiming at developing a modelling environment targeting the automatic generation of the execution platform of payloads and platforms.



Execution Platform



CoRA MBAD family

