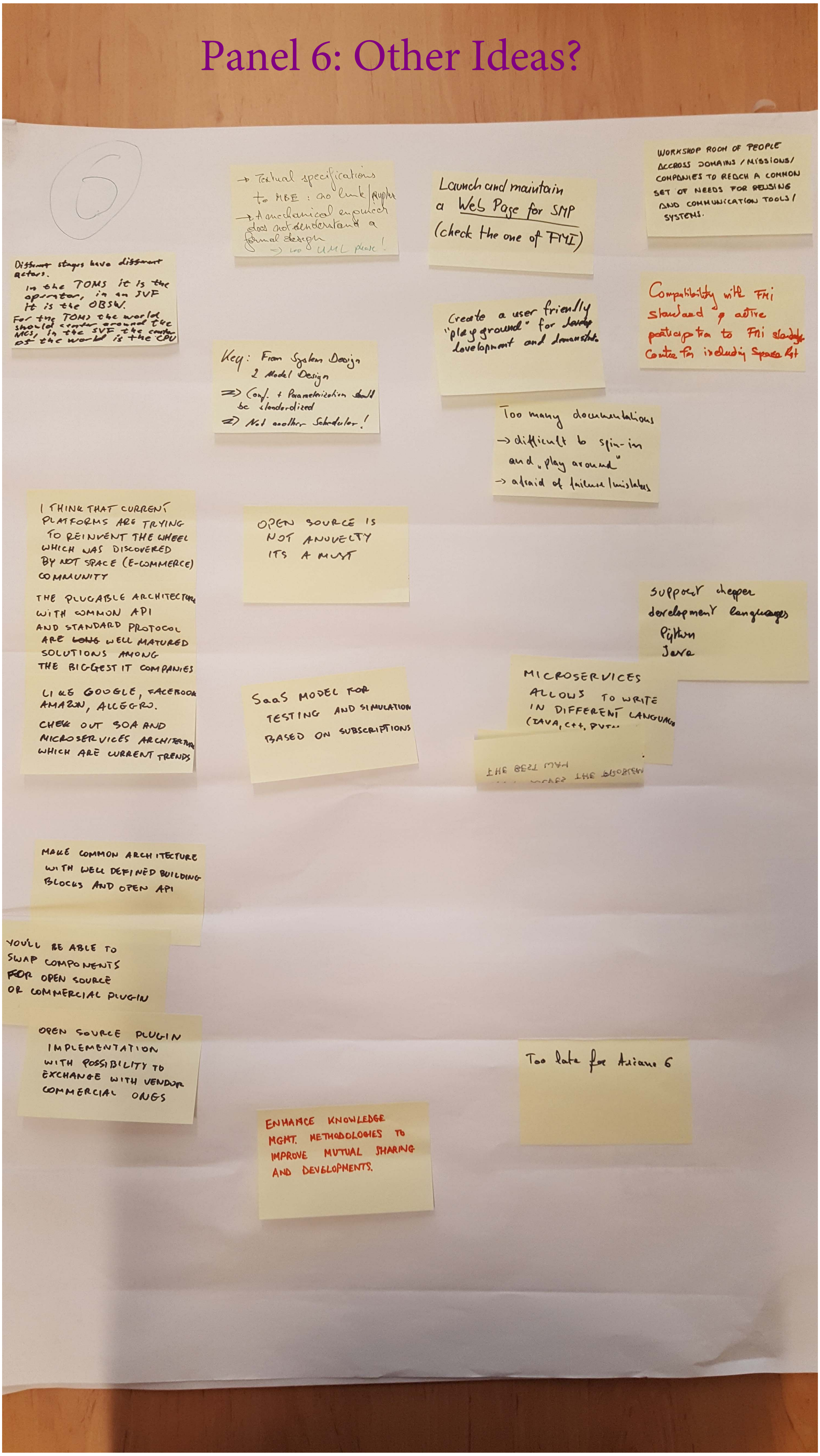
Panel 6: Other Ideas?



knowledge Management thanks Open source, Wiki, social network...

A sort of BIG BANG is foreseen at short term with AI. Shall we take it into account in RATIO_SIM ?

EXPECTATIONS:
CAN SCOS BE SEEN AS A TEST CASE FOR THE CHANCES OF SUCCESSFUL RATIONALIZATION ?

Flight Experience re-injected (Project does not stop @ LEOP)

LESSONS LEARNED FROM OTHER INDUSTRIES
AUTOMOTIVE
AEROSPACE

EGS-CC lessons learnt
start small
make it works
enhance it

Integrate Universities in Working Group

Failure injection (a topic per se)

World wide Open source (ask Eclipse Fundation)

Multi-Physics Modelling ?

Open to other stakeholders (Defense, Nuclear industry Banks...)

Collaboration with NASA

Lessons learned and involvement of participants:

- Ask other industries outside space domain (automotive, aeronautic, nuclear, banks)
- Collaboration with NASA
- Include universities to the working groups
- EGS-CC: start small - make it working - enhance it!
- Lessons learned from SCOS: "can SCOS be seen as a test case for the chances of successful rationalization?"
- Lessons learned from MBSE: "no UML please", "a mechanical engineer does not understand a formal design"
- Bring people of several domains/missions/companies together and collect a common set of needs for reusing and communication tools/systems
- Open Source is a MUST
- Different simulations have different "users"/"actors" : In the TOMS it is the operator, in an SVF it is the OBSW. "For the TOMS the world should center around the MCS, in the SVF the center is the CPU"
- Support cheaper development languages (Python, Java)
- Enhance knowledge management methodologies to improve mutual sharing and developments
- Service Oriented Architecture (SOA)
- Microservice architecture

Potential topics:

- Failure injection
- Artificial Intelligence (AI)
- Flight experience shall be re-injected to the simulation models to improve simulation (mission does not stop at LEOP)
- Multi-Physics modelling
- Simple modelling and simulation application as "playground" for development, demonstration and training

Standardisation:

- Compatibility with FMI
- Configuration and Parameterization should be standardized (from system design to model design)
- Better documentation of standards:
- Current documentation too complex (too difficult to "spin-in" and "play around")
- Knowledge management (see open source, Wiki, Social networks)
- Webpage for SMP similar to existing FMI pages