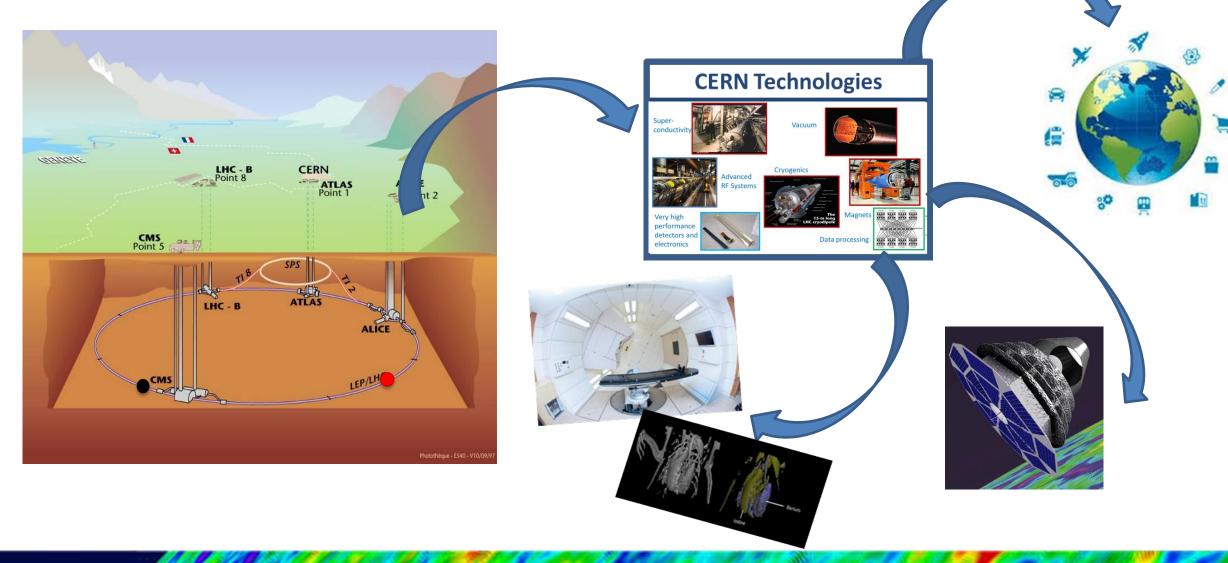
CERN aerospace applications: examples and opportunities

TOWARDS A NEXT SPACE PROBE FOR CMB OBSERVATIONS AND COSMIC ORIGINS EXPLORATION

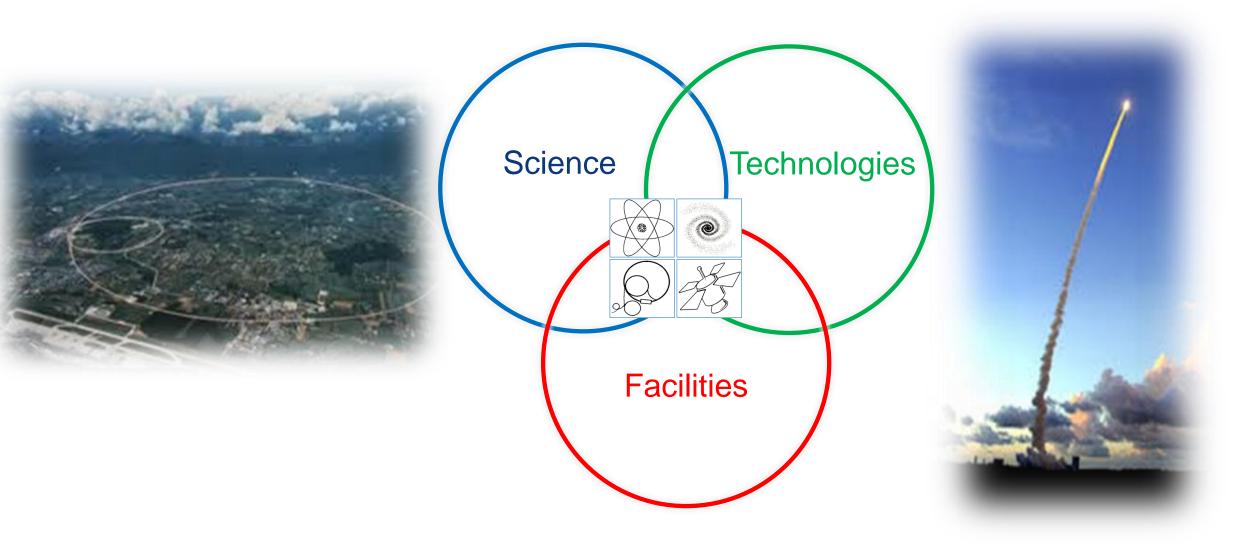
Enrico Chesta CERN - Knowledge Transfer



Knowledge Transfer

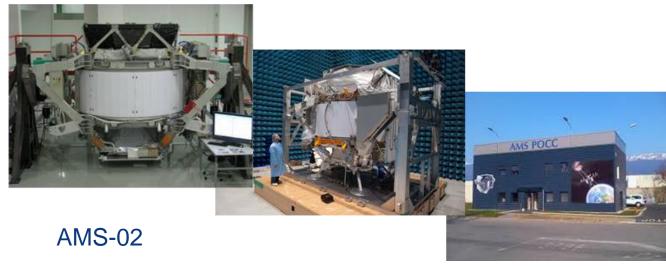


Particle physics and space: synergies

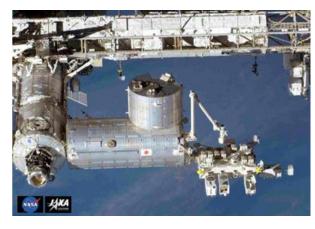


Science

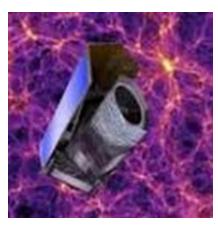










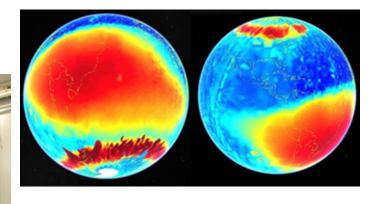


NUCLEON CALET

DAMPE

EUCLID

Technologies



















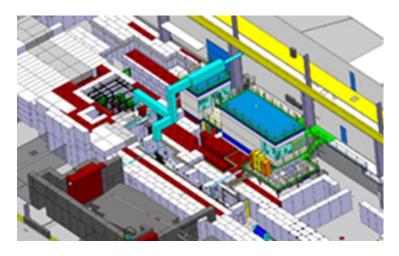






Facilities

CHARM, IRRAD, VESPER, CERF, CCTF, CRYOLAB...







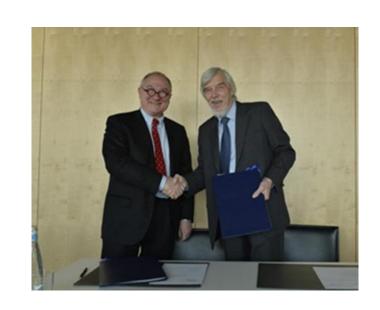




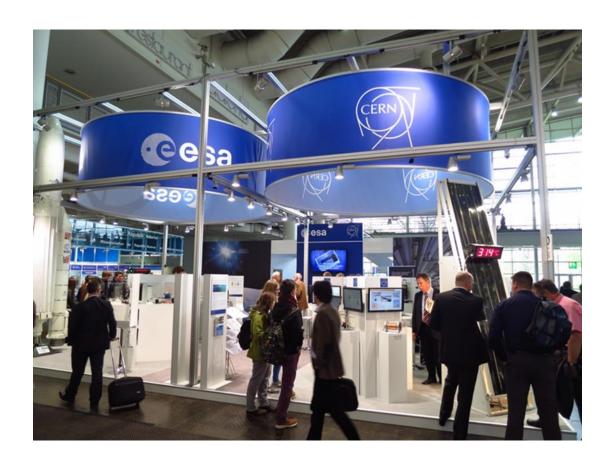
Institutional relations







CERN-ESA Framework Cooperation Agreement
12 macro areas of potential technical collaboration
identified – implementation on-going



Possible ways to support next CMB space experiment (beyond pure science)

- Friendly and open environment for knowledge exchange inititatives (e.g.: this Workshop!)
- Possible access to unique infrastracture for calibration/qualification: irradiation facilities, cryogenics/thermal-vacuum chambers, assembly/integration rooms, computing grid...
- Technologies/know-how: radiation monitoring/shielding, thermal mangement, data handling, simulation tools...

to be further assessed/discussed

Annex: info on Splinter Rooms - map

