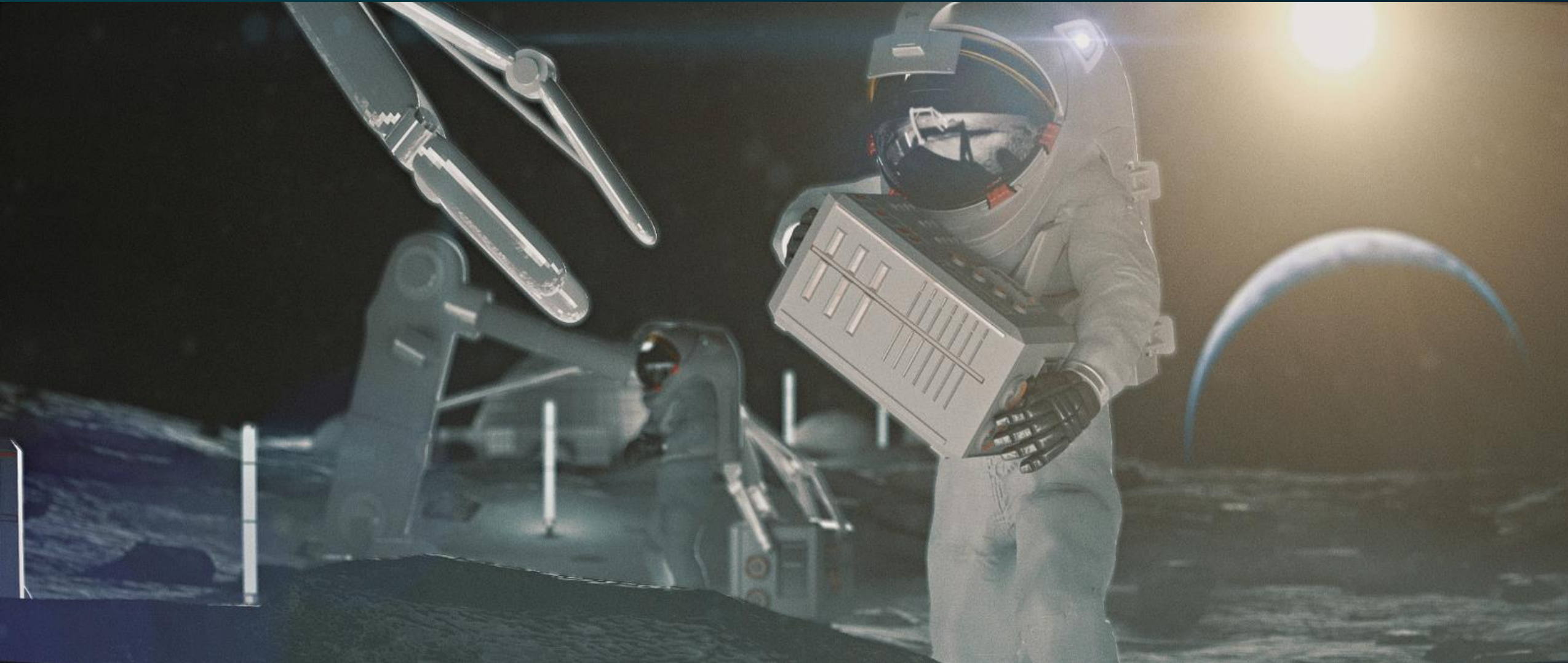


Industry <-> University cooperation model



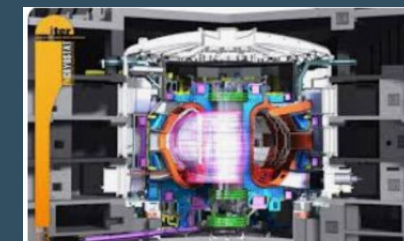
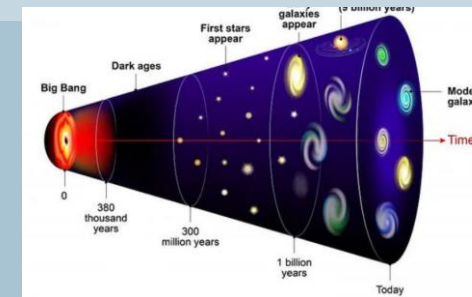
Carl-Orff-Schule



Technische
Universität
München



Technische
Universität
München





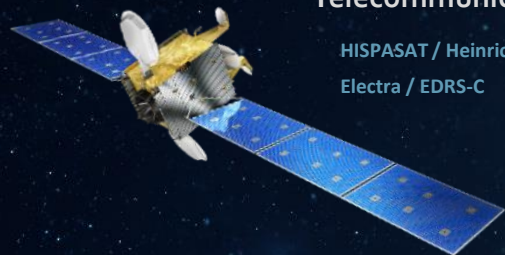
- OH B = „Orbitale Hochtechnologie Bremen“
- Listed on the stock exchange, family-run
- Approx. 4,000 employees worldwide, approx. 1,000 at the headquarters in Bremen and 500 in Oberpfaffenhofen

With two strong sites in Bremen and Munich and four decades of experience, OH B System specializes in high-tech solutions for space



Telecommunications

HISPASAT / Heinrich Hertz
Electra / EDRS-C



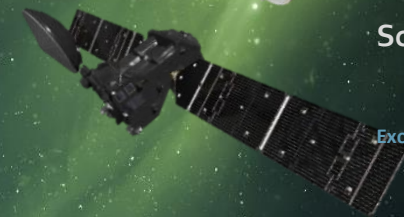
Navigation

Galileo



Science & exploration

ExoMars / PLATO



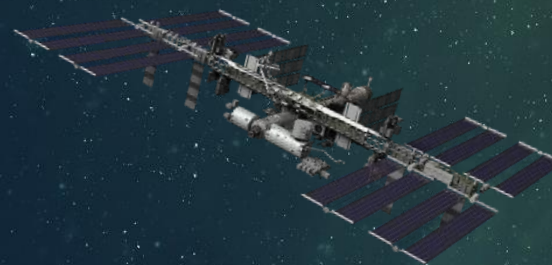
Earth observation

MTG / EnMAP



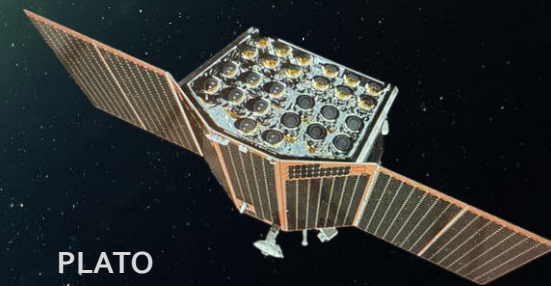
Technology development

Robotics / IOD / additive manufacturing / quantum technologies / free-form optics / ..



Human spaceflight

ISS Infrastructure / Facilities / Experiments



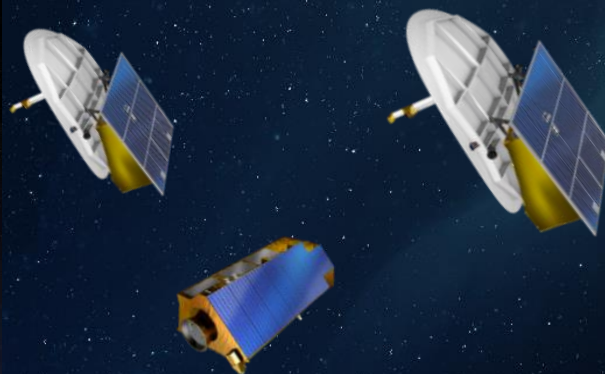
Access to space

Ariane 5 & 6



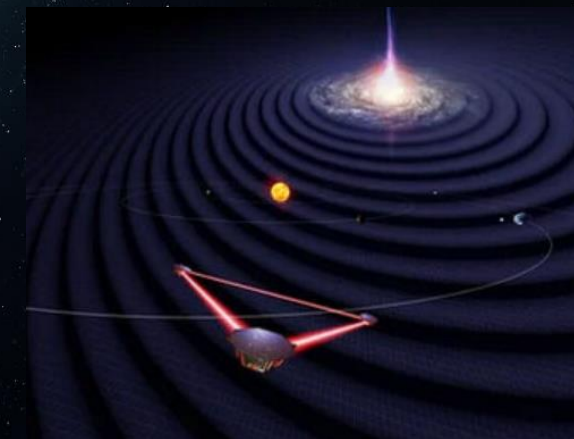
Security

SAR-Lupe / SARah



PLATO

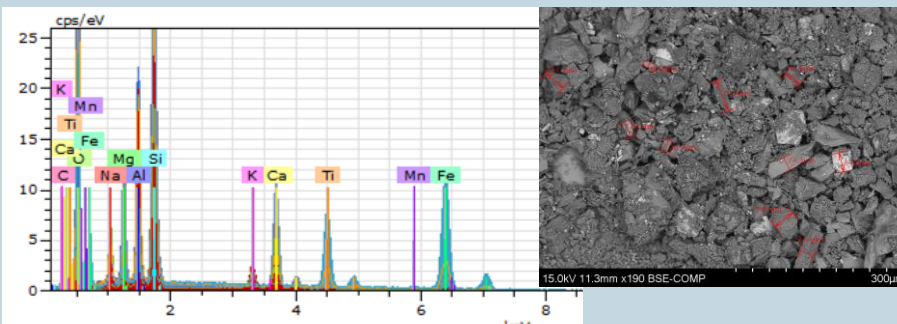
Lisa



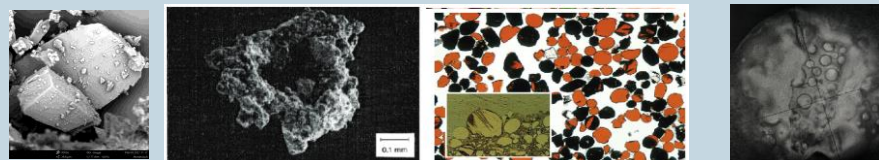
CHALLENGES TO GO BACK TO THE MOON



Regolith → Regolith Simulants



Multi chemical composition Dust size distribution



Sharp edges, clusters glass and encapsulated volatiles

System integrator Quality

Requirements justification

Requirements verification

- Basic tests
- Parameter studie
- Test setup and procedures
- Risk to benefit interpretation

Industry & University & Reseae

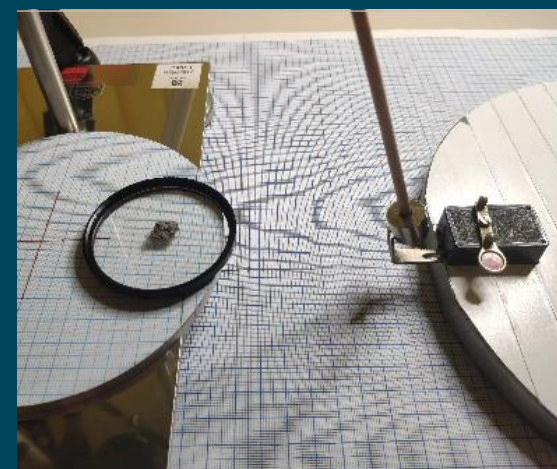
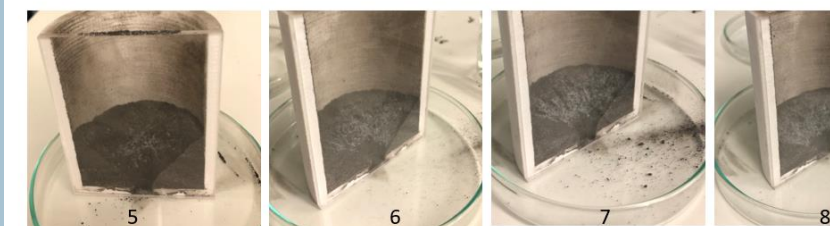
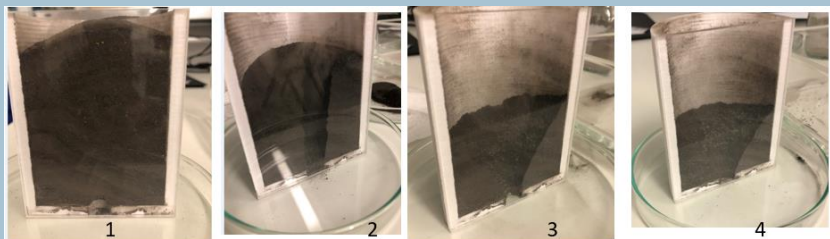
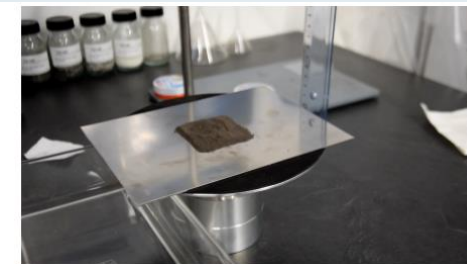
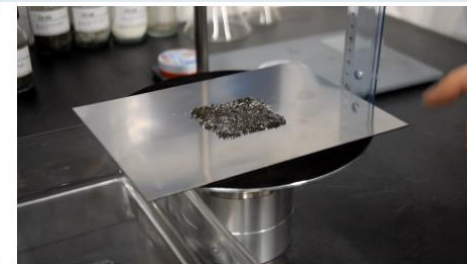
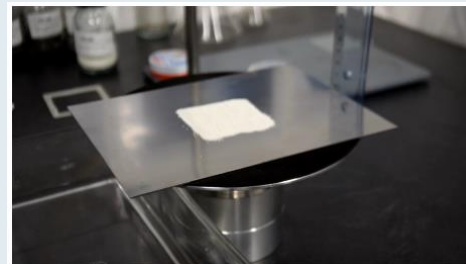


REGOLITH TO SURFACE DEPENDING LANDING SITE

- Pupils and
- student level
- Rumania



Isosurface
pVolFrac
0.62
-0.558
-0.496
-0.434
-0.374
-0.31
-0.248
-0.186
-0.124
-0.062
0

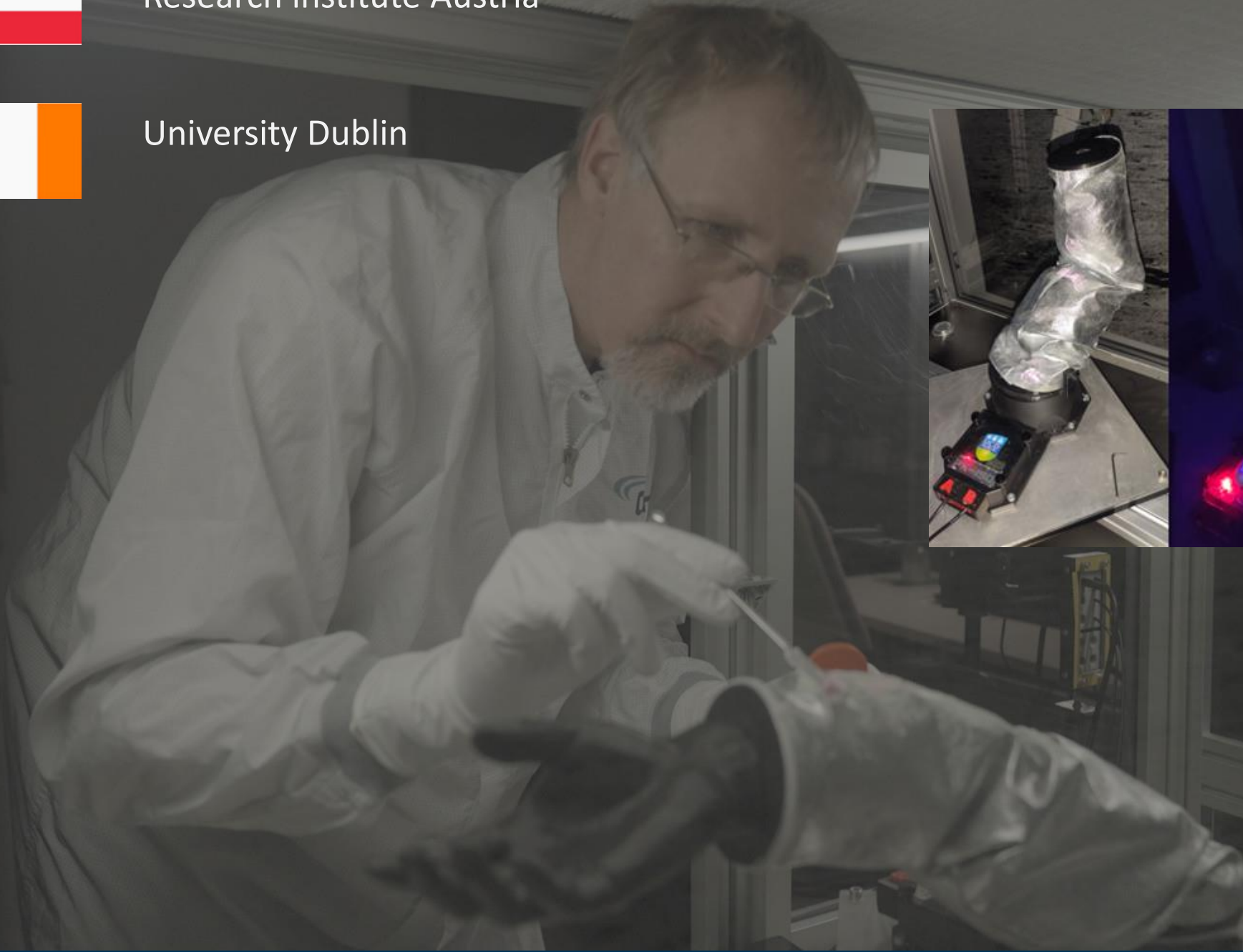




Research institute Austria



University Dublin





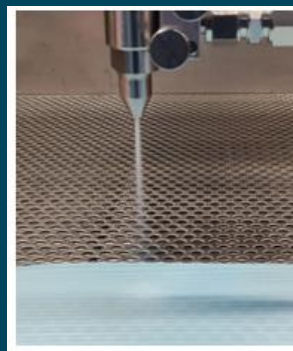
University Norway
University Glasgow



University Dublin



University Stuttgart
TU University Munich
TU Wien



CONCEPT AND ACHIEVMENTS WITHIN 3 YEARS

- Open honest cooperation with the best fitting partners
- Break down topic to 6 month
- let them think as guided play

12 Practial semester and master thesis



Listed by ESA
as one of three
expert center for Moon dust





Danke