Ralph Cordey Vienna, June 2014



UK Industrial Capabilities & Interests

Interplanetary spacecraft & propulsion module manufacture

Mission prime & Airbus Defence & Space SSTL

First-tier & specialist suppliers:

QinetiQ Electric propulsion; communications

e2v; Neptec Detectors & sensors

SEA Electronics

Moog; ESP Chemical propulsion equipment

Magna Parva Mechanisms
ABSL Batteries

Software & simulation

Scisys; CGI; Tessella; Fluid Gravity; Star Dundee

Trajectory optimisation

Airbus Defence & Space

Nuclear power sources

National Nuclear Laboratories







Implementation of ESA interplanetary missions

Contributing to / leading European consortia:

- Giotto
- Rosetta
- Mars Express & Venus Express
- BepiColombo
- Exomars
- Solar Orbiter

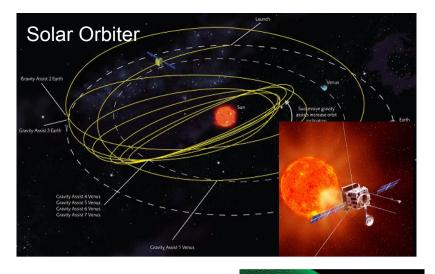
ESA Scientific mission studies & technologies

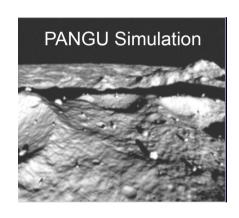
- Phobos Sample Return (Phootprint)
- Asteroid Sample Return (MarcoPolo)
- Penetrators technologies

European Commission research (Framework 7)

- NEOShield Mitigation studies & tradeoffs
- Megahit Nuclear Electric Power roadmapping







Penetrators

