











Key strategic benefits

FINNISH Meteorological Institute

 Reduced dependence on non-European resources for forecasting, warning, reporting and analysis of space weather effects and hazards

astrium

QinetiQ

- Improved competitive advantages for pan-European organisations and businesses
- Improved effectiveness and independence of European defence forces
- Improved competitiveness of European industry through bringing together of expertise from a wide range of disciplines
- Opportunities for growth of European industries in high-technology fields such as information systems, space platforms, sensors, launch services and ground segment equipment

ONERA

- Strengthening of relations with non-European nations through co-operation agreements, industrial partnerships and scientific exchange
- Strengthening of ESA's role in co-ordinating European space co-operation













Programme size impacts
Economic and educational Extent of benefit likely to increase in proportion to programme size; some benefit will be seen even with a small programme*
Technological & scientificSome benefits (about 1 in 3) are dependent on use of hitchhiker spacecraft and/or procurement of dedicated space weather spacecraft; these would not be realised with a small programme
Some benefits (approximately 1 in 4) would not be realised with a small programme; others would increase in proportion to programme size
*A small programme is defined as one in which only existing space resources are utilised

