



# Vision, realities and challenges for Earth Observation

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# Earth Observation: the good, the bad and the ugly

# Earth Observation: vision

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## UK EO investments support:

- World leading science
  - Development of innovative technologies and services
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- Changing our understanding
  - Changing lives
  - Changing our economy



# **UKSA EO funding realities**

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**The UKSA spending review settlement covered existing ESA commitments.**

**We must make the case for additional funding for future EO commitments**

**Glass half full or empty?**



# Challenge: secure funding

- **We are developing a business case to secure funding for Earth Observation.**
- **An advanced draft to be completed by Autumn 2011.**

## Questions:

- **What is the UK's ambition for Earth Observation?**
- **What investment is needed to fulfil that ambition?**



# Timing and scope

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- ESA Ministerial (C-MIN 2012) drives timing.
- Scope. What should we invest in:
  - ESA EO programmes (e.g. EOEP4, METOP SG, GMES Space component, CCI)
  - National and bilateral programmes for technology and mission development
  - Ground infrastructure, market development
  - International coordination (CEOS, GEO, Charter etc)



# Context


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- Context and other considerations include: e.g.
  - EUMETSAT
  - EU (including FP7/8, GMES Initial Operations, Space Policy and Programme, Next Financial Perspective)
  - Other ESA programmes (eg General budget, Integrated Applications Programme etc) and ESA facilities at Harwell
  - Related UK Space activities e.g.: ISIC, Space TIC, NSTP



# What we are doing:

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- Meeting with stakeholders
  - Develop cost-benefits analysis supported by BIS economists  
(how does EO contribute to UK growth? Employment? Disruptive technology? Value of contracts? Social and environmental benefits?)
  - Develop and Evaluate options
  - Finalise investment proposal
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# Stakeholder engagement

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- Consulting with stakeholders to consider value and uptake of programmes
  - Public sector (e.g. NERC, Met Office, TSB, Defra, DECC, DfID, MoD, CO, FCO, HO, Treasury)
  - Private sector (e.g. Space and downstream trade bodies)
  - Others (e.g. ISIC, RSPSoc, RAL, NPL)

NCEO is providing strategic support



# Working together

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