

making the UK the Place for Space

**Opportunities and activities** 

A UK space agency perspective

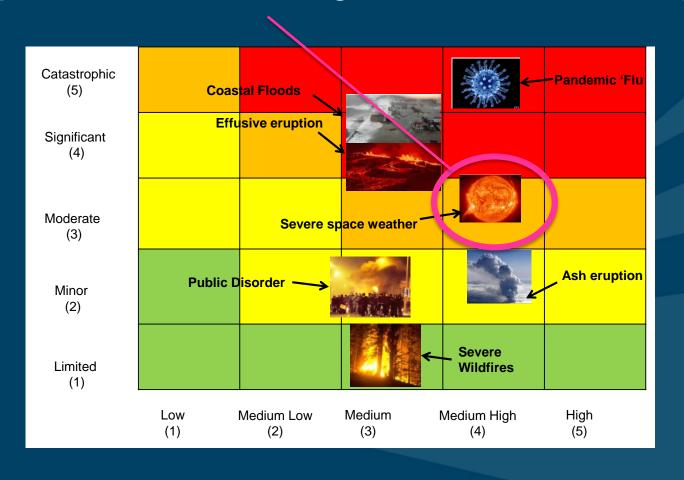
**May 2015** 



## Background



Space weather risk high on national risk register



BIS are the lead government department and the risk owner

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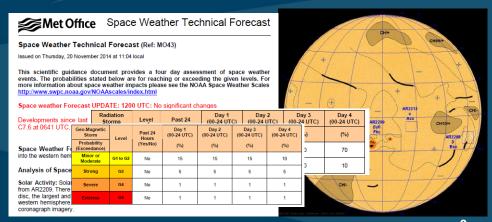


UK have subscribed to the ESA SW programme– €7M

National Programme?



Met office have created their space weather operations centre, MOSWOC



# National Space Security Policy



#### Objective 1:

"To make the United Kingdom more resilient to risks to space services and capabilities, including from space weather."

- Increase resilience through reducing vulnerability of essential infrastructure
  - A proportionate approach combining protective measures, forecasting and fall-back capabilities
  - Cross government work to improve national resilience
  - International cooperation (US, ESA, EU etc.)
- Noting responsibility will rest largely with owners and operators of space services and infrastructure, with oversight provided by lead Government departments.



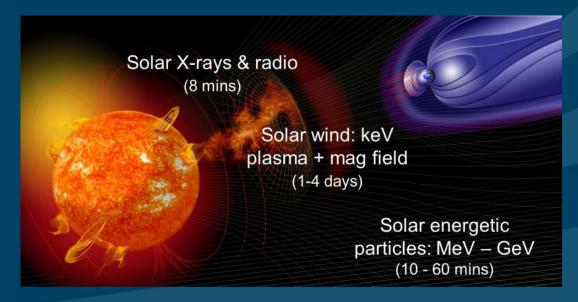
# Moving forwards



> Time line to work with

Reasonably well placed for solar disk observations (SDO)

etc)

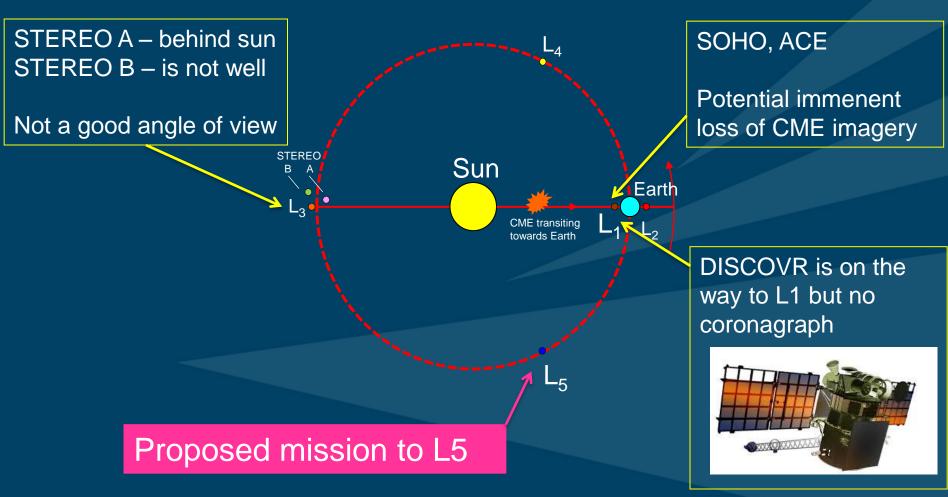


- Not so well placed for observing solar wind, CMEs etc
- Concern over reliance on end of life science missions

#### What we have

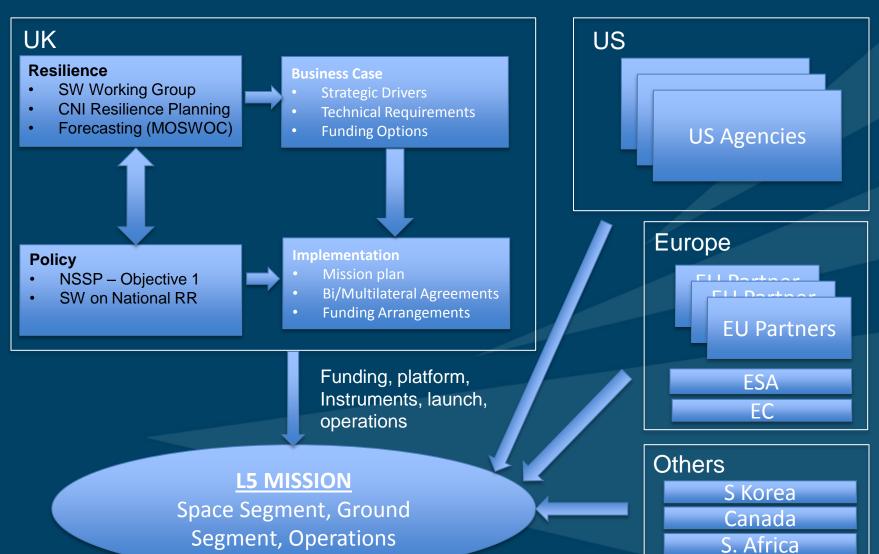


#### Key measurement capabilities are at risk



#### National Drivers & Future Partners





### Current Actions



#### Business case – IPSP

 Space weather social/economic cost, economic benefit of forecast, US & South Africa engagement, knowledge exchange science, instrumentation and forecasting, service level definition, mission feasibility

#### Cost & funding routes – CSR / SDSR

Comprehensive spending review / Strategic defence and security review

### Implementation routes – Building partnerships

Nationally and with international community

#### Next steps

- Ministerial mandate / White paper (working with Met Office)
- Refine technical requirements This Meeting
- Refine proposals



# Questions?

# Come & Talk to us