



**UK SPACE**  
AGENCY

# Telecommunications Strategy

Mike Rudd

Telecommunications Strategy Manager

June 27, 2017

<http://www.gov.uk/ukspaceagency>

# Me!

---

- Joined UKSA in Aug 16
- Career Civil Servant
- Remit
  - Telecommunications Strategy
  - Advanced Research in Telecommunications Systems (ARTES)
  - EU Telecomms programme (Govsatcom)
  - MOD & Skynet 6 liaison
  - 5G & Better Broadband

# Telecommunications Strategy

---

- Focus on exploiting a mature market for the benefits of UK, increasing growth in the sector and helping make people's lives a little better
- Doesn't sit in isolation and is intended to link across to other UKSA strategies and initiatives
- Feeds into higher level Space Growth Strategy
- Currently in draft...

# 5 Themes

---

- Telecommunications for Economic Benefit
- Telecommunications for UK Growth
- Build the National Capacity
- Government as an Intelligent Customer
- Create Environment for Growth

# Final Thought

---

‘Roads? Where we're going, we don't need roads.’  
- Doc Emmett Brown, Back to the Future, 1985



# Back up slides

---



# Telecommunications for Economic Benefit

---

- Work across all segments of Government, industry and academia to support and assist in the delivery of the UN's Sustainable Development Goals, the benefit of UK and global citizens;
- Work across Government to ensure that Space becomes an integral part of the connectivity tool set to deliver infrastructure, both at home and abroad;
- Assist industry and Government to develop solutions to support initiatives such as:
  - E-Health;
  - Critical Infrastructure (CNI);
  - Vehicle Technology and Aviation Bill;
  - Broadband Universal Service Obligation (USO);
  - 5G;
  - IoT.

# Telecommunications for UK Growth

---



- Horizon-scanning activities with industry and researchers to identify emerging opportunities;
- Further focus on enabling innovative technologies & services through the ESA ARTES programmes and with Innovate UK, through national programmes;
- Encourage Foreign Direct Investment to create diversity in the UK and to support highly skilled UK personnel;
- Work closely with Innovate UK to foster ideas and support and develop SME, including those new to the space sector;
- Create environment to enable industry to build new markets;
- Invest in programmes that demonstrate new services;
- Work with industry, Innovate UK, the European Commission and ESA to translate investment in Telecommunications into applications that support the UK and global eco system;
- Support the development and expansion of a UK-based test environment;
- Ensure access to finance to foster and support innovation;
- Ensure access to support to enable export markets.

# Build the National Capacity

---

- Identify, and invest in, strategic opportunities to grow the UK's industrial capabilities and economic impact;
- Work with industry, Innovate UK, and other Government Departments to identify the best route to support industry and initiatives;
- Develop the UK's R&D capability;
- Promote and sell UK's strengths such as security capabilities;
- Work with other areas of UKSA, industry, educators and academia to develop and retain knowledge and expertise within the UK;
- Ensure access to finance to develop and support UK capability.

# Government as an Intelligent Customer

---

- Ensure that Space is given equal weighting as other connectivity methods so that end to end solutions are considered to provide the same user experience regardless of location or technology;
- Promote the use of space outside traditional user groups to increase access to and take-up of Government services;
- Work with industry, UKSA, Govt and international bodies to create services that meet public sector requirements;
- Work closely with UK MOD and UKSA to ensure the alignment of Civil & Military Space capabilities.

# Create Environment for Growth

---

- Work with other areas of the UKSA, Government and International bodies to ensure that:
  - appropriate radio frequencies and orbit slots are available for future space services and new ways of accessing space;
  - UK regulation is appropriate to the level of risk while facilitating the growth of UK markets;
  - Work with other areas of Government to facilitate the protection of Critical Infrastructure and to help unlock the unserved and under-served economy.