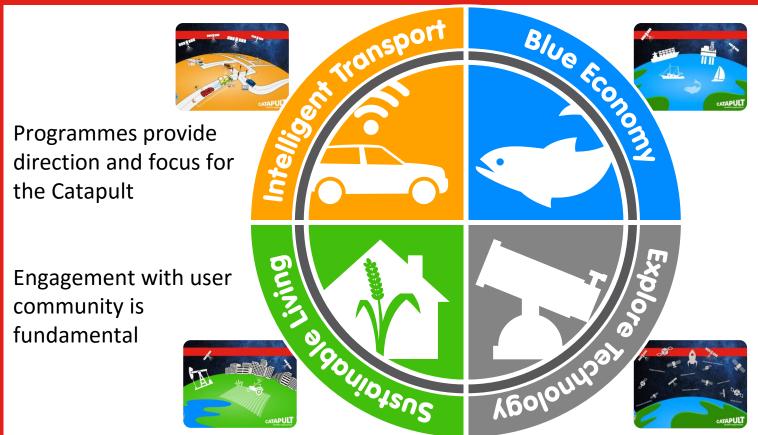
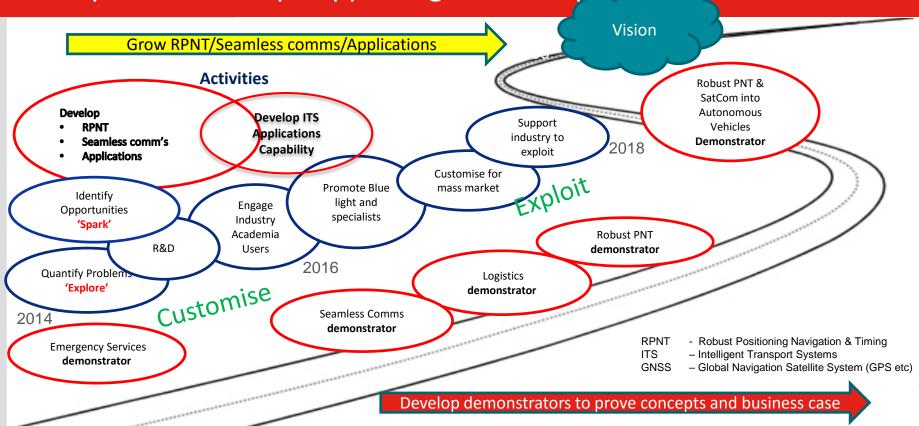
# Our Programmes





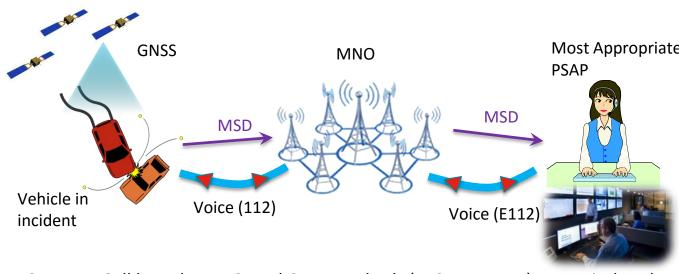


Catapult Route Map Supporting The Transport Sector



## Intelligent Transport Systems: Example EU-wide E-call





- Current eCall based on ETSI and CEN standards (>12 years ago) uses in-band modem for eCall data in a CS 112 call
- Regulation (EU) 2015/758 mandatory fitting of 112 based eCall in-vehicle system from 31<sup>st</sup> Mar 2018 onwards

# Working across industries

Active collaboration with the other Catapults leverages impact across sectors



LUTZ, an autonomous pod for two passengers trialled in Milton Keynes







Large scale Geospatial Data Visualisation for Bristol City Council



## Combining Satellite Communications and GPS



#### Removing Market Blockers

- Workshops, ideas, collaborations
- Demonstrating satellite technology in markets
- Connecting applications developers and customers



#### Harnessing Disruptive Technology

- Technology advice
- Platforms to unlock Markets
- Creation & dissemination of IP
- Stimulation of new applications
- Links to universities and R&D

#### **Business Advice**

- Idea validation
- Legal and regulatory environment
- Support and signposting for SMEs
- Unbiased with specialist knowledge
- Creation of new businesses & services

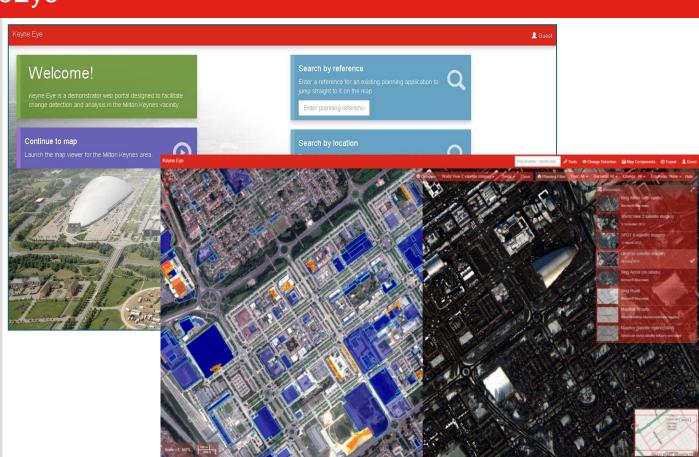


### Case Study - KeyneEye

### **KeyneEye Web Demo**

Change Detection from layered satellite imagery and existing planning system

Developed by the Satellite Applications Catapult, Sterling Geo, and Milton Keynes Council



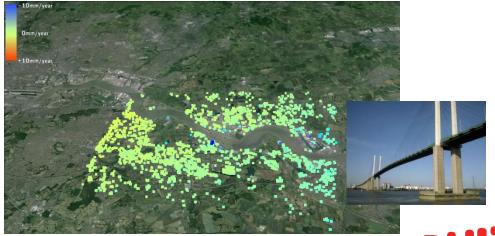
## Case Study - Transport Infrastructure Management Service (TIMS)

- Demonstrating satellite technologies for transport infrastructure management
- An adaptive platform for seamless, cost-effective data communication based on integrated ground and satellite data sources.



### Integration of:

- Satellite communication
- Earth Observation; I-SAR for ground deformation monitoring
- GNSS (GPS)
- Ground sensors Tilt, crack, vibration, temperature













### International Road Infrastructure Case Study - Nigeria



TranMon helped Nigerian DoT to monitor condition of roads in remote locations

- Combined satellite and ground data
- Provided rapid decision support
- Analysis over very large areas
- Focused limited resources
- Fusing data from
  - FC
  - GIS
  - UAV's
  - Ground Sensors
    - Maritime



Image collecting survey vehicle

### The Catapult Advises Leading Industry Organisations ....

The Catapult is independent and uses specialist 'Space' knowledge to support industrial projects



















## The Catapult Partners Businesses of all Sizes

 The success of the Catapult is measured by the support given to partners

The Catapult
 wants to work
 with industry to
 create strong
 markets



























# Research Funding for Transport Projects

- Supporting industry and academia to access sources of R&D funding
- Actively exploring new national and global funding routes
- As an RTO,
  Catapult often
  100% funded

## Project topics include:

- Integrated & Multimodal Transport
- Connected Vessel
- Communications for buses
- e-Call (emergency services)
- GNSS Positioning Autonomous vehicles

















Technology Strategy Board



