NAVISP Element 3
Support to Member States

UK Presentation

18 January 2019
Why NAVISP? What benefits does it bring?

• More space/non-space partnerships (Grow sector)
• More SME involvement and supporting the £100m / year growth in UK PNT sector
• Develop innovative new PNT technologies, products and services
• Grow the major downstream sectors, secure more business to UK companies and capture more of the market share
• Reduce technical risk (for industry and for the customer)
• Deliver confidence and establish trust in PNT systems for the UK
• Continue ESA reform and support ECSAT
• Access to ESA technical skills and international collaborative developments
What has NAVISP done for us?

- Low ESA overhead (15%)
- Short time to contract (target 4 months) – agile and responsive
- Improved IPR and product ownership contractual terms
- 60% SME prime overall
- Strong commercial focus in line with UK approach
- Very flexible programme – support, blue skies work, product and service development
- 15 new UK organisations into the programme
- New space/non-Space partnerships created, new research orgs funded
Importance of NAVISP is the wider PNT area

Position Navigation and Timing (PNT) technologies underpin our society

- 13% of UK GDP directly underpinned by GNSS (>£264bn) (£1.8bn/year direct income CAGR 3% on 1.7bn)
- Loss of GNSS would cause ~£1bn day economic impact (Road, maritime, Emergency/Justice biggest losers)
- The GNSS global landscape is changing, technology moving rapidly
- Extent of UK dependency highlighted by Blackett review into GNSS dependency
- Non-GNSS PNT technologies evolving – PNT is not all about GNSS
What is Element 3 (for us)?

- Has enabled us to address the most difficult challenges, a catalyst
- MARINAV the first funded work
- Two or three other activities in early forming stage
- Key areas are flexibility and agility
- Although sometimes ESA is ahead of industry in this area!
Blackett Review Implementation Group

- Policy focused cross-government formal group
- Chaired by the Cabinet Office
- Reporting to the National Security Framework
Other work - PNT Technical Group

- Fully formed
- Academia, Industry & Government Partnership
- Currently addressing awareness, guidance standards and evidence
  - Will be via Element 3

- Co-Chaired by Royal Institute of Navigation
The UK continues to support all elements of NAVISP

Element 3 is a catalyst to getting things done

Need to address coherently new PNT technology development to ensure continued UK leadership and economic success.

Programme is PNT (not GNSS), and combines space and non-space technologies (unique in ESA).

Complimentary with UK GNSS ambitions, and exploitation of space systems.

It’s working!