Secure Societies

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FUTURE
RAILWAY

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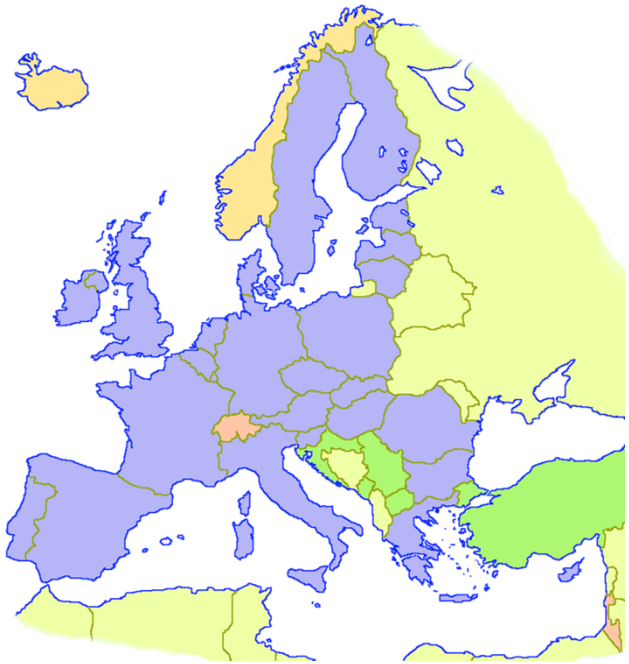
Role of Science in Resilience
Horizon 2020 Secure Societies



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Horizon 2020

- Is the financial instrument (€79 Bn) implementing the Innovation Union, a Europe 2020 flagship initiative aimed at securing Europe's global competitiveness.

- The goal is to ensure Europe
  - produces world-class science
  - removes barriers to innovation
  - makes it easier for the public and private sectors to work together in delivering innovation.

  OVERALL AIM IS WEALTH CREATION, JOBS, AND MAKING EUROPE STRONGER

- Doing this by tacking societal challenges

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Secure Societies

- Protecting freedom & security of Europe & its citizens (€1.7Bn over 7 years)

  – to enhance the resilience of our society against natural and man-made disasters, ranging from the development of new crisis management tools to communication interoperability, and to develop novel solutions for the protection of critical infrastructure;

  – to fight crime and terrorism ranging from new forensic tools to protection against explosives;

  – to improve border security, ranging from improved maritime border protection to supply chain security and to support the Union's external security policies including through conflict prevention and peace building;

  – and to provide enhanced cyber-security, ranging from secure information sharing to new assurance models.

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Secure Societies

- Programme put together by the commission & member states with inputs from industry, users, academia
- Published in 2 year “blocks”
- 2016-2017 published
- Key is the European Dimension of Research with majority of Programmes requiring
  - at least 3 member states, academia, industry &, critically, “users”

RESEARCH MUST HAVE IMPACT AND ENGAGE THE USER COMMUNITY

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Research Topics

- Majority are Significant programmes (several million € in value)
- Social sciences, policy & ethics are included
- 4 main types of Programme
  - Co-ordination & Support Studies (review a topic, identify gaps, inform & disseminate information)
  - Research actions (TRL 3-6)
  - Research & Innovation actions (TRL 6- 8)
  - Pre – commercial procurement
- Also programmes aimed at SME's
  - Focusing accelerating commercialization

- Tension between Long term, innovation, capability delivery, wealth creation

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Challenge

- How to approach these complex programmes to maximise benefits

  – Be ambitious take risk….push the boundaries
  – Design your consortia carefully – look for experts, innovators, the right industry, the correct user
  – Make sure that users are engaged at the right time to maximise benefits
  – Design in “quick wins”/achievable goals – aim to deliver in the short time & develop for the long term

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Identified of Interest to Industry

- **CIP-01-2016-2017: Prevention, detection, response and mitigation of the combination of physical and cyber threats to the critical infrastructure of Europe.**
- **SEC-01-DRS-2016: Integrated tools for response planning and scenario building**
- **SEC-07-FCT-2016-2017: Human Factor for the Prevention, Investigation, and Mitigation of criminal and terrorist acts**
- **DS-02-2016: Cyber Security for SMEs, local public administration and Individuals**
- **DS-08-2017: Privacy, Data Protection, Digital Identities**

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SME Instrument

- The SME Instrument is an accelerator for COMMERCIALISATION of promising innovations
- The funding is dedicated to the support & development of a convincing commercial proposition enabling the SME's business to expand in Europe & Globally
- It is NOT simply funding for R&D - it is all about bringing to market

- One Secure Societies Topic:

- **ANY ASPECT OF THE SPECIFIC PROGRAMME FOR "SECURE SOCIETIES"**

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How to be successful or….
Teaching grandmother to suck eggs

- Read the call document!
- Note what they want – not what you want it to say..
- Look & see the “musts’ & “shoulds”
- Make sure you proposal delivers what is required
- Don’t have a good idea & then try & find somewhere to fit it in –work top down
- Pay attention to the TRL level
- Make sure all your consortium members are the right people, have a reason to be there, know what’s expected & you have a good relationship with them.

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Horizon 2020 – Key links

- Horizon 2020 EU Programmes
- www.ec.europa.eu/programmes/horizon2020/en/h2020-section-secure-societies

Work programme, details on events etc.

- Participants Portal
- www.ec.europa.eu/research/participants/portal

Everything you want to know (– and probably a lot you don't!)

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Secure Societies Briefing & Workshop Days

In partnership with the Knowledge Transfer Network (KTN)

–www.ktn-uk.co.uk

Tuesday 3 November (Crime & Terrorism& Disaster Resilience) – London

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Help and Advice for Secure Societies

National Contact Point : Helen Almey

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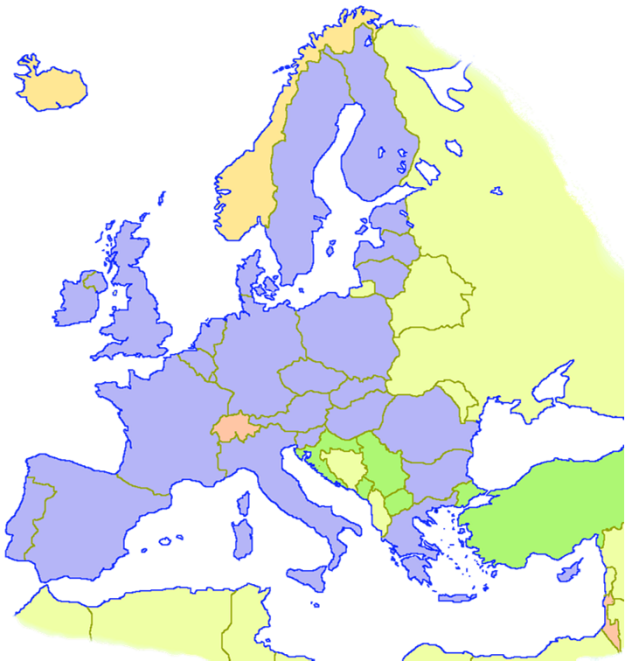

Thank you