Horizon 2020 – an overview and opportunities for CARPE

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Research and Knowledge Exchange
Part 1

AN INTRODUCTION TO HORIZON 2020
What is Horizon 2020?

- The European Union’s new programme for research and innovation
- Follow on programme from FP7, but bigger!
- ~€70 billion
What does it look like?

**Excellent Science**
- European Research Council (ERC)
- Future and Emerging Technologies (FET)
- Marie Skłodowska-Curie Actions (MSCA)
- Research Infrastructures

**Industrial Leadership**
- Leadership in Enabling and Industrial Technologies (LEIT) - ICT, KETs, Space
- Access to Risk Finance
- Innovation in SMEs

**Societal Challenges**
- Health and Wellbeing
- Food security
- Transport
- Energy
- Climate action
- Societies
- Security

**Widening Participation; Science with and for Society**
- European Institute of Innovation and Technology (EIT)
- EURATOM
- Joint Research Centre (JRC)
Who can take part?

- 28 EU Member States
- Associated States – under negotiation
- Third countries – funding depends on GDP
Types of project and funding

• Two types of activity – Research and Innovation

• Range of projects: Collaborative Project; Coordination and Support Action; Prizes

• For non-profit organisations all projects funded the same:
  – Research and Innovation – 100% direct costs, 25% indirect costs
  – MSCA – fixed rates
Part 2

POSSIBLE FOCUS AREAS FOR CARPE
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Societal Challenges – solving problems

• Tackle “big issues” for Europe

• Bring different perspectives together to get to the solution

• Top-down
Societal Challenge 1 - Health

- We understand key areas may include:
  
  - Health, ageing and disease
  - Health promotion and disease prevention
  - Improving diagnosis
  - Innovative treatments and technologies
  - Advanced active and healthy ageing
  - Integrated, sustainable citizen-centred care
  - Improving health information – evidence based policy
Societal Challenge 3 - Energy

- We understand key areas may include:
  
  - Energy efficiency
  
  - Competitive Low Carbon Energy
  
  - Smart Cities and Communities
Societal Challenge 4 - Transport

- We understand key areas may include:

  - Mobility for Growth
  - Green Vehicles
  - Blue Growth
  - Small Business and Fast Track to Innovation
Societal Challenge 5 – Climate Action

• We understand key areas may include:
  
  – Fighting and adapting to climate change
  – Sustainably managing natural resources
  – Sustainable supply of raw materials
  – Waste
  – Water Innovation
Societal Challenge 6 - Societies

• We understand key areas may include:

  – Overcoming the crisis
  – Young generation
  – Reflective societies
  – Europe as a global actor
  – New forms of innovation
Part 2b

MARIE SKŁODOWSKA-CURIE ACTIONS
MSCA – learning from new environments

- Funding at all stages of careers
- Expected to move country
- Bottom – up
- Programmes of research
## MSCA - What activities does it support?

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<tr>
<th>Innovative Training Networks</th>
<th>Individual Fellowships</th>
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| • Early stage researchers (pre-PhD)  
• European Training Networks, European Doctorates (Industrial or Joint) | • Experienced researchers (post-PhD)  
• European, Reintegration and Global Fellowships |

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<tr>
<th>COFUND</th>
<th>RISE</th>
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| • Regional, national or international programmes  
• Doctoral or fellowship programmes | • Staff exchanges between sectors  
• Early stage and experienced researchers plus administrative, managerial and technical staff |

### European Researchers’ Night
- Public engagement events; 24 hour period in September
Part 3

NEXT STEPS
Likely Timeline

• Expect first calls to be launched in December (there will be InfoDays before this – keep your eyes open!)

• Deadlines likely to be spring 2014 onwards

• First grants awarded by end of 2014
Planning your bid

• Talk to your research support office – they may have information they can share!

• Think about networks – who does your working group know?

• Have an idea of what you can offer and where you might fit
Where to go for information

• Horizon 2020 Info Days –
  (Pick “Thematic Events” for events covering different aspects of H2020)

• National Contact Points -
  http://ec.europa.eu/research/participants/portal/page/nationalcontactpoint#top

• Participant Portal -
  https://ec.europa.eu/research/participants/portal/page/home
AND FINALLY ...
What MMU colleagues have to say!

- It has provided me with a **challenge** and helped me to see my research in a different way.
- Our involvement on a European scale has **increased our profile**.
- It has helped me to **develop and support** a substantial research group.
- It has given me the opportunity to meet **some incredibly interesting people** and broaden my cultural understanding.
- Scientifically speaking, I find working at a European level is **more interesting**.
- As a result of being involved we have been **invited to speak at several national and European events**.
- It’s been very satisfying being part of something big!
THANK YOU – ANY QUESTIONS?