

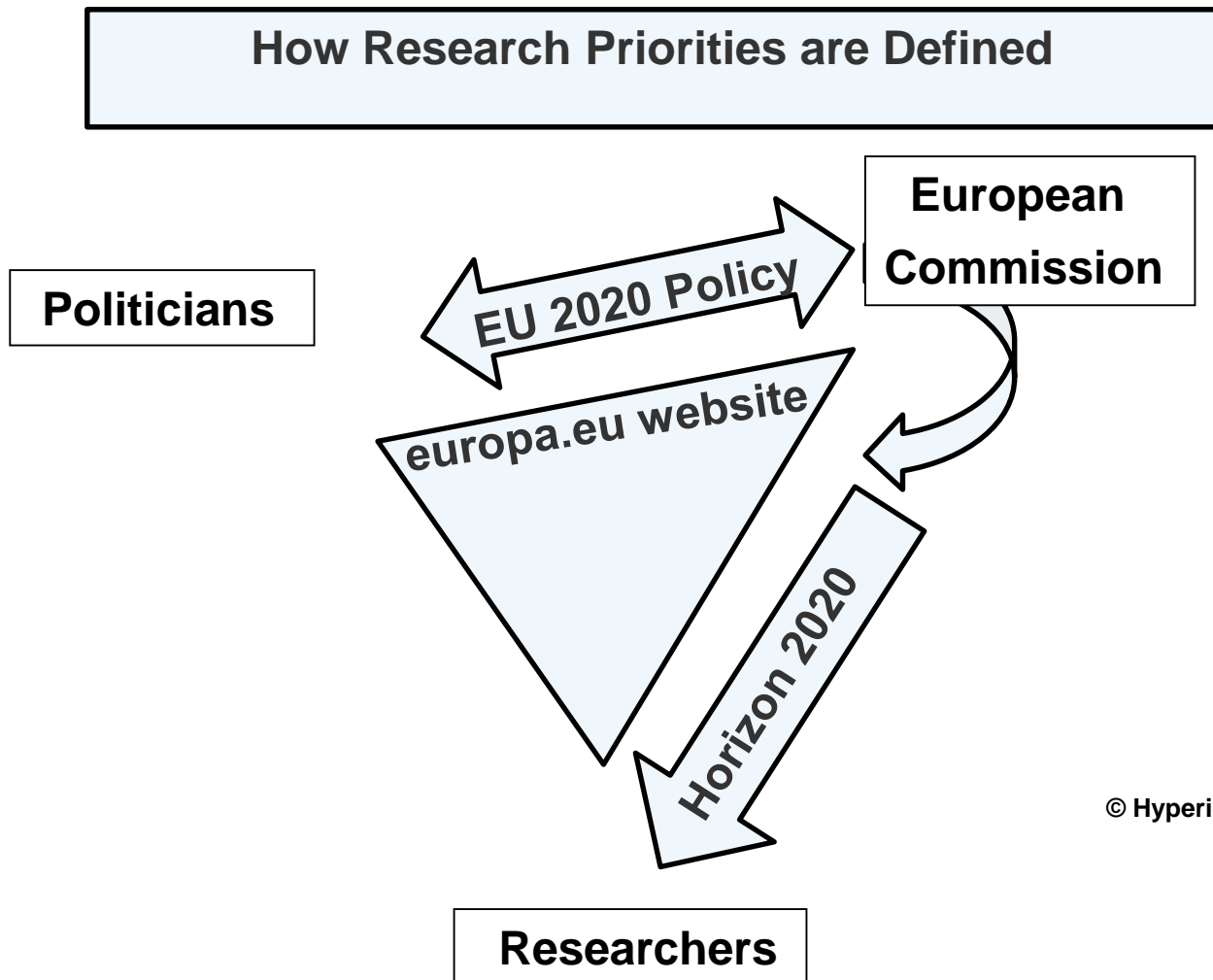


University
of Glasgow | Department of
Physics & Astronomy

A UK Network of Detector Specialists in support of ERDIT

Val O'Shea

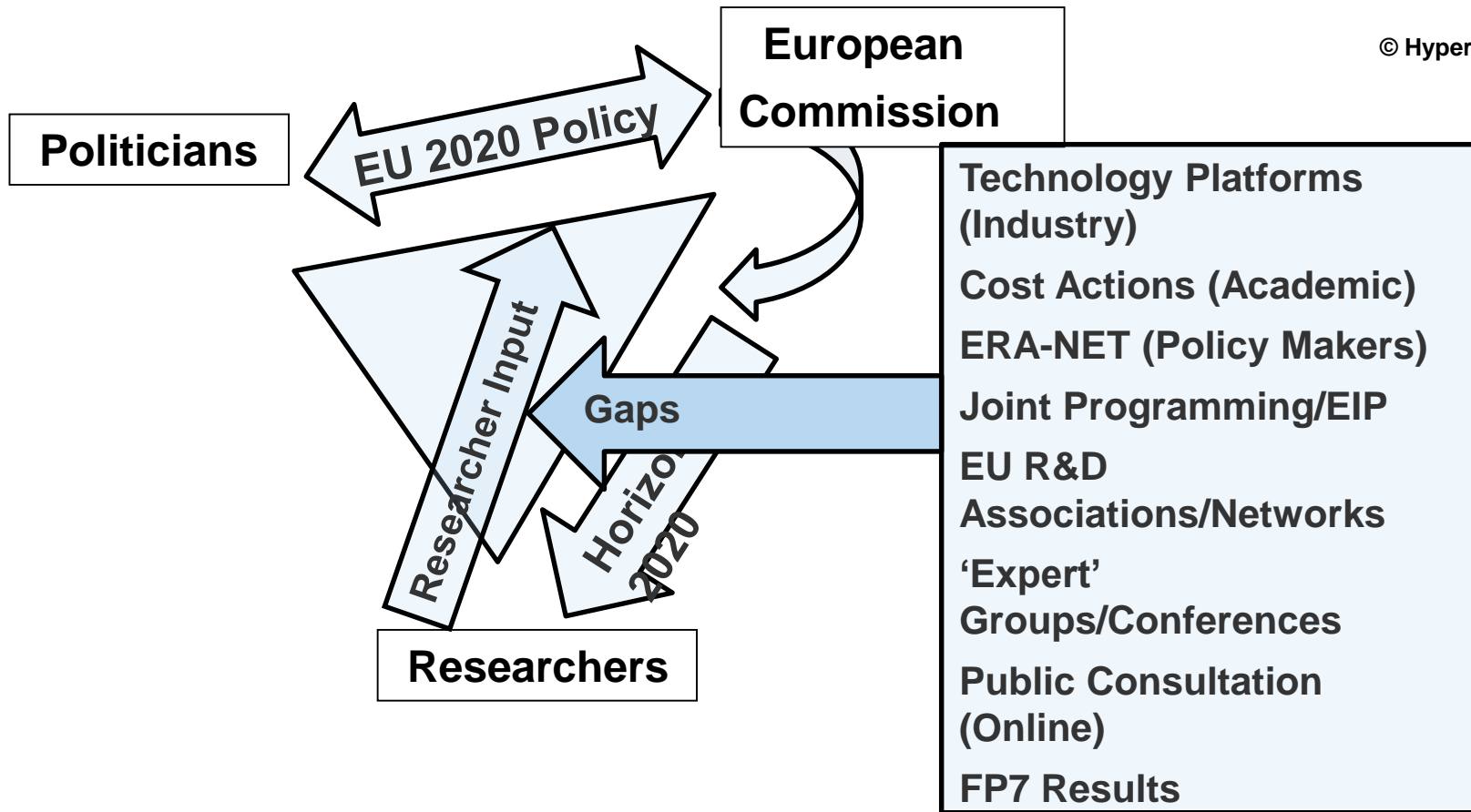




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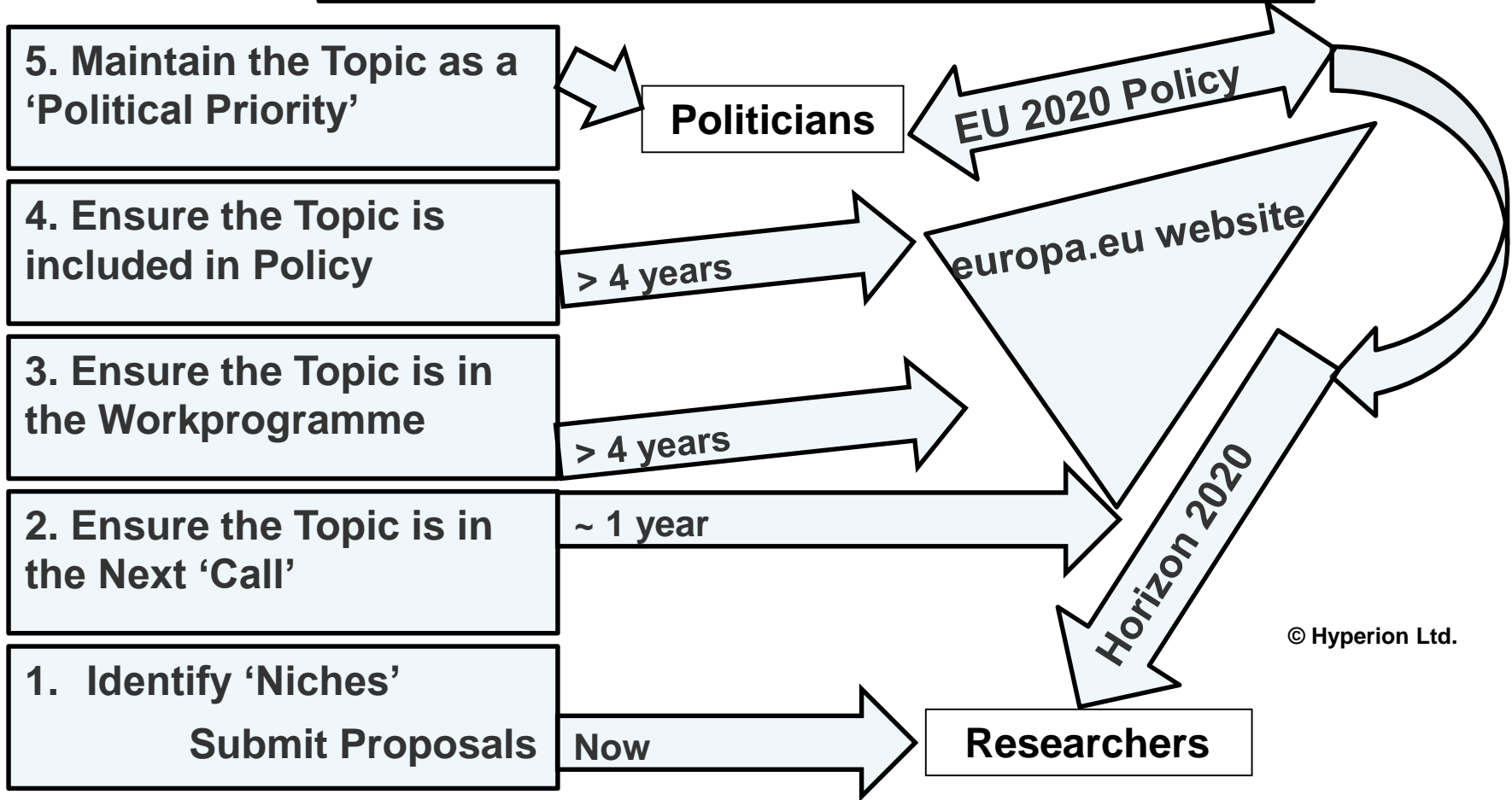
How Research Priorities are Defined



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The Lobbying Process



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STFC Communities

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STFC Detector Network

Welcome to the **STFC detector network**

The STFC detector network exists to promote communication between all the STFC staff who work with detector systems. The primary means of achieving this is by holding regular meetings with a stimulating talk as the focal point. There is opportunity for all attendees to interact and discuss after the talk.

This web community backs up the work of the network, acting as a communications hub through which events can be publicised, emails sent to all members, documents from previous meetings are archived and discussions can be held on the discussion board.

If you have any views or comments of a technical nature, please let the [web team](#) know. Any issues with content should be reported to the [community owner](#).



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AWE

Andor

e2v

Qinetiq

Smith Detectors

Kromek

Micron

Scintacor

SensL

Hilger Crystals



- Prof. Chris Damerell, STFC Rutherford Appleton Laboratory
- Prof. Cinzia Da Vià, The University of Manchester
- Dr Dimitra Darambara, The ICR & Royal Marsden NHS Foundation Trust, London
- Dr A R Faruqi, MRC Laboratory of Molecular Biology, Cambridge
- Prof. Geoff Hall, Imperial College London
- Prof. Andrew Holland, The Open University
- Prof. Malcolm Joyce, Lancaster University
- Prof. Paul Marsden, King's College London
- Prof. Richard Nickerson, University of Oxford
- Prof. Paul Nolan, University of Liverpool
- Prof. Val O'Shea, University of Glasgow
- Prof. Paul Sellin, University of Surrey
- Prof. John Simpson, STFC Daresbury Laboratory
- Dr Chris Steer, AWE, Aldermaston, Reading

What about all of the sensor work that is not directly sponsored by STFC?

Photonics -- largely EPSRC - large but very fragmented community

E-beam microscopy – largely industry

Security – DSTL – MoD – not very amenable to open networking

STFC provides funding to create new multidisciplinary research communities at the STFC-Global Challenge interface which are focused on addressing user needs, including those of Government departments, Government agencies, industry and other academic communities. Three types of Networks are funded, depending on the stage of development of the community: Standard Network, Network+ and Extended Network+.

The aims of Standard Networks are to:

Support interactions between STFC-funded researchers and appropriate science, technology, industry and end-user groups to build interdisciplinary communities at the interface between STFC science and Global Challenge areas

Facilitate knowledge sharing and identify priority user-needs that STFC science could have a role in addressing

Create new multidisciplinary project teams to develop proposals to seek funding for projects addressing the Global Challenges

Network+

Demonstrate STFC-funded capability to address Global Challenges and de-risking of concepts to facilitate applications for next-stage funding

Extended Network+

Maximise the impact of earlier Standard Network or Network+ activities

Further demonstrate STFC-funded capability to address Global Challenges and de-risking of concepts to facilitate applications for next-stage funding.

Introducing the Nuclear Security Sciences Network, 'NuSec'

NuSec is a new STFC-funded network, supported through the STFC Global Challenge Networks programme, and led by the University of Surrey.

The aims of the Network are to develop collaboration between the academic, industrial and defence sectors in the area of nuclear security

1. To encourage translational research and technology development, and to address end-user challenges related to nuclear security
2. To undertake challenge-led proof of concept and pilot studies, eg. as supported by £60k of AWE Pilot Study funding to the network.
3. To coordinate and support applications for third party funding, eg. RCUK, H2020, CDE, InnovateUK, AWE Enhanced Detection programme, US DND0/DTRA.



Funded Value: £223,260 – additional support from AWE £60,000

Funded Period: Jan 16 - Dec 18

Funder: STFC

Project Status: Active

Project Category: Research Grant

Project Reference: ST/N002431/1

Principal Investigator: [Paul Jonathan Sellin](#)

Research Subject:

Pol. sci. & internat. studies (80%)

Science and Technology Studies (20%)

Research Topic:

Science and Technology Studies (20%)

Security Studies (80%)



The network aims to promote collaboration and research, principally through technical meetings and information dissemination.

Network Meetings are our main route to deliver the network objectives to all members:

Technology Workshops – encouraging translational R&D, focussed on specific technical themes, bringing together new research collaborations

Challenge Meetings – to develop cross-disciplinary solutions to address end-user challenges

Staff/Student secondments – to encourage networking and collaboration. This is still being developed, watch this space...



"Nuclear Security Science" Network Event Schedule

	2016												2017												2018											
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Launch Event*			Blue																																	
Technical Workshops*						Yellow												Yellow												Yellow						
Challenge Meetings*											Red										Red														Red	
Conferences																					Purple															Purple
Proof of concepts			Green	Green		Green	Green					Green	Green	Green				Green	Green					Green	Green	Green			Green	Green					Green	Green

*these meetings will incorporate general Network items on the agenda

Conferences: C1: Network Mid-term Conference
C2: Network Final Conference

Technical Workshops: TW1: Instrumentation and Data Analysis
TW2: Distributed Sensors and Data Fusion
TW3: Portable and Airborne Sensor Platforms

Challenge Meetings: CM1: Challenge Meeting Year 1
CM2: Challenge Meeting Year 2
CM3: Challenge Meeting Year 3