

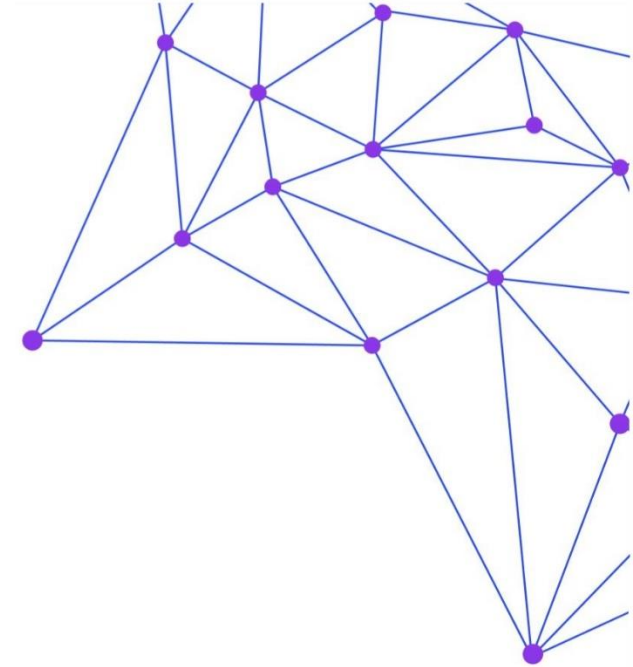
KICK-OFF MEETING

14th February 2020

ESRF - EPN Campus

Grenoble - France

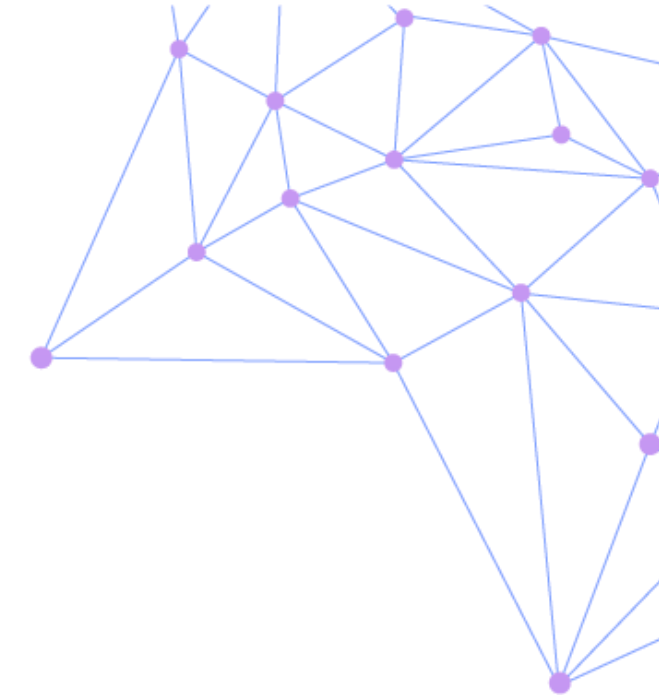
Innova



This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 847439.



10:10 - 10:30	Welcome coffee - ESRF Auditorium	
10:30 - 10:50	Welcome and Programme presentation	Jean Susini, ESRF Director of Research Mark Johnson, ILL Head of Science Division
10:50 - 12:10	Presentations of a selection of projects	
	Presented by	Projects' partners
10:50 - 11:00	Kirill Lomachenko, ESRF	Umicore Denmark ApS University of Turin ESRF
11:00 - 11:10	Samuli Räsänen, Umicore Finland Oy	Umicore Finland Oy Aalto University ESRF
11:10 - 11:20	Jorge Lacayo-Pineda, Continental Reifen Deutschland GmbH	Continental Reifen Deutschland GmbH Leibniz Universität Hannover ESRF ILL
11:20 - 11:30	Julie Villanova, ESRF	Constellium Technology Center UGA ESRF ILL
11:30 - 11:40	Arnaud Morin, CEA Grenoble	Toyota Motor Europe NV/SA UGA ILL ESRF
11:40 - 11:50	Alessandro Tengattini, ILL	LafargeHolcim Innovation Center UGA ILL ESRF
11:50 - 12:00	Monica Jimenez Ruiz, ILL	Cepsa Research Center Instituto de Tecnologia Quimica (UPV-CSIC) ILL
12:00 - 12:10	Ingo Hoffmann, ILL	Evonik Nutrition & Care GmbH Technische Universität Berlin ILL
12:10 - 12:40	Speech and conclusion by the partner institutions	Francesco Sette, ESRF Director General Helmut Schober, ILL Director General Yassine Lakhnech, President of UGA
12:40 - 14:00	Buffet lunch - ESRF Visitor's Center	
14:00 - 15:00	Guided visit of the ESRF for the industrial partners	
15:00 - 16:00	Guided visit of the ILL for the industrial partners	



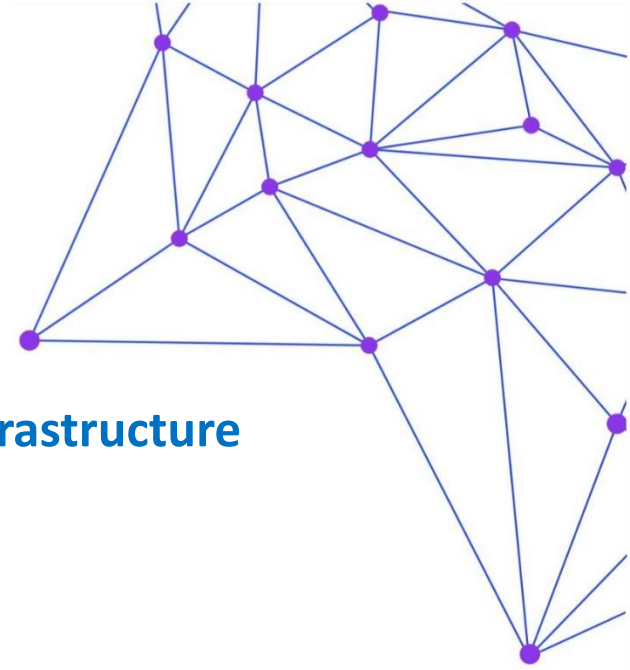
Kick-off meeting InnovaXN MSCA Cofund Programme Friday 14th February 2020



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- **InnovaXN is a Horizon 2020 MSCA COFUND doctoral programme (2018 call)**
 - **Providing outstanding training for 40 PhD students**
 - **Fostering synergy between X-ray and neutron based techniques and using advanced analytical capabilities of 2 European Research Infrastructure**



- **Increasing cooperation and visibility towards industries through a training programme**
 - **Supported by ESRF, ILL and UGA**



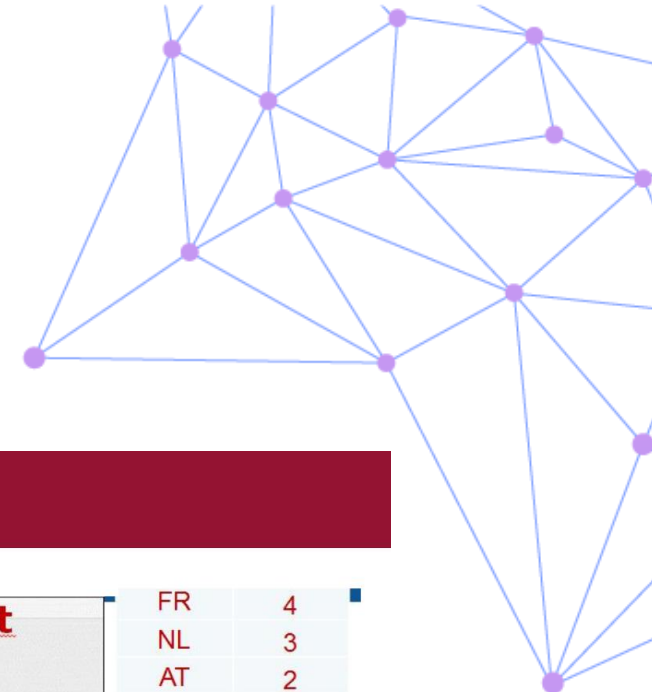
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Innova **XN** (Oct 2019-Sept 2024):

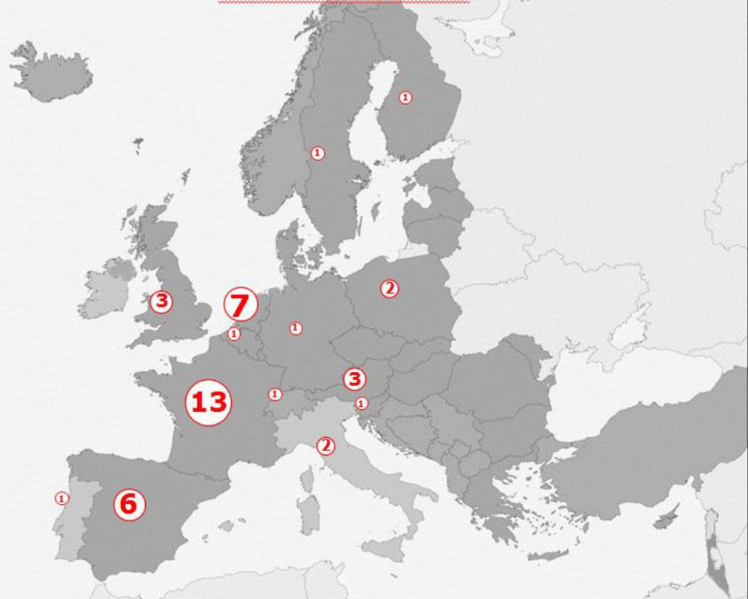
- Total programme: 7.564 M€
- Grant: 3.254 M€
- 40 PhDs / 20 (ESRF)+20 (ILL)



COFUND 2018



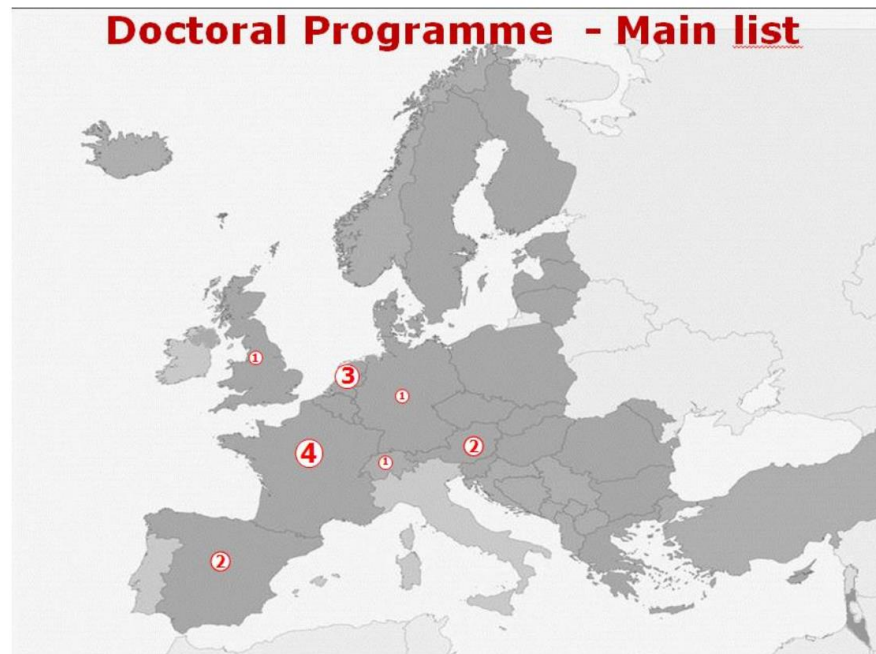
Doctoral Programme - Eligible Submissions



COFUND 2018



Doctoral Programme - Main list



- ESRF: beneficiary
- ILL : partner and co-beneficiary
- UGA: partner



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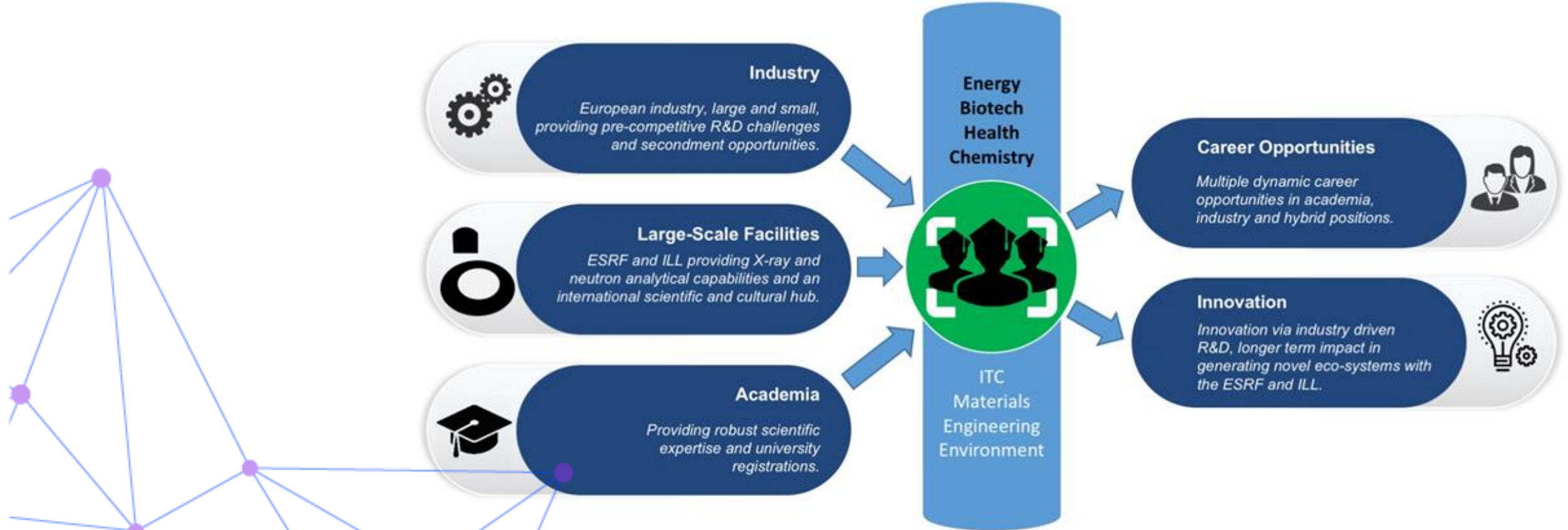
Core research and transferable skills gap
between low TRL research and higher TRL
projects with industry collaborators to be
bridged by the InnovaXN ESRs

*Opening career paths in:
Academia – Industry/Academia Interface – Industry
Business Creation and Management*

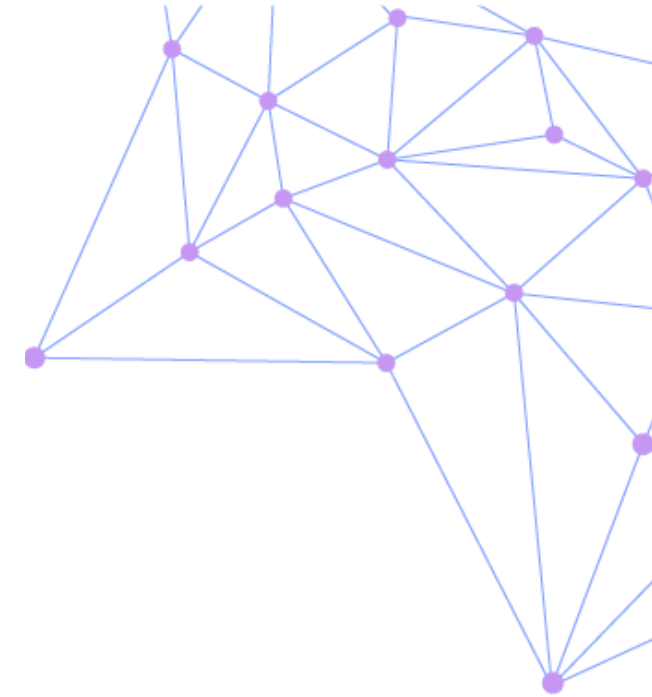
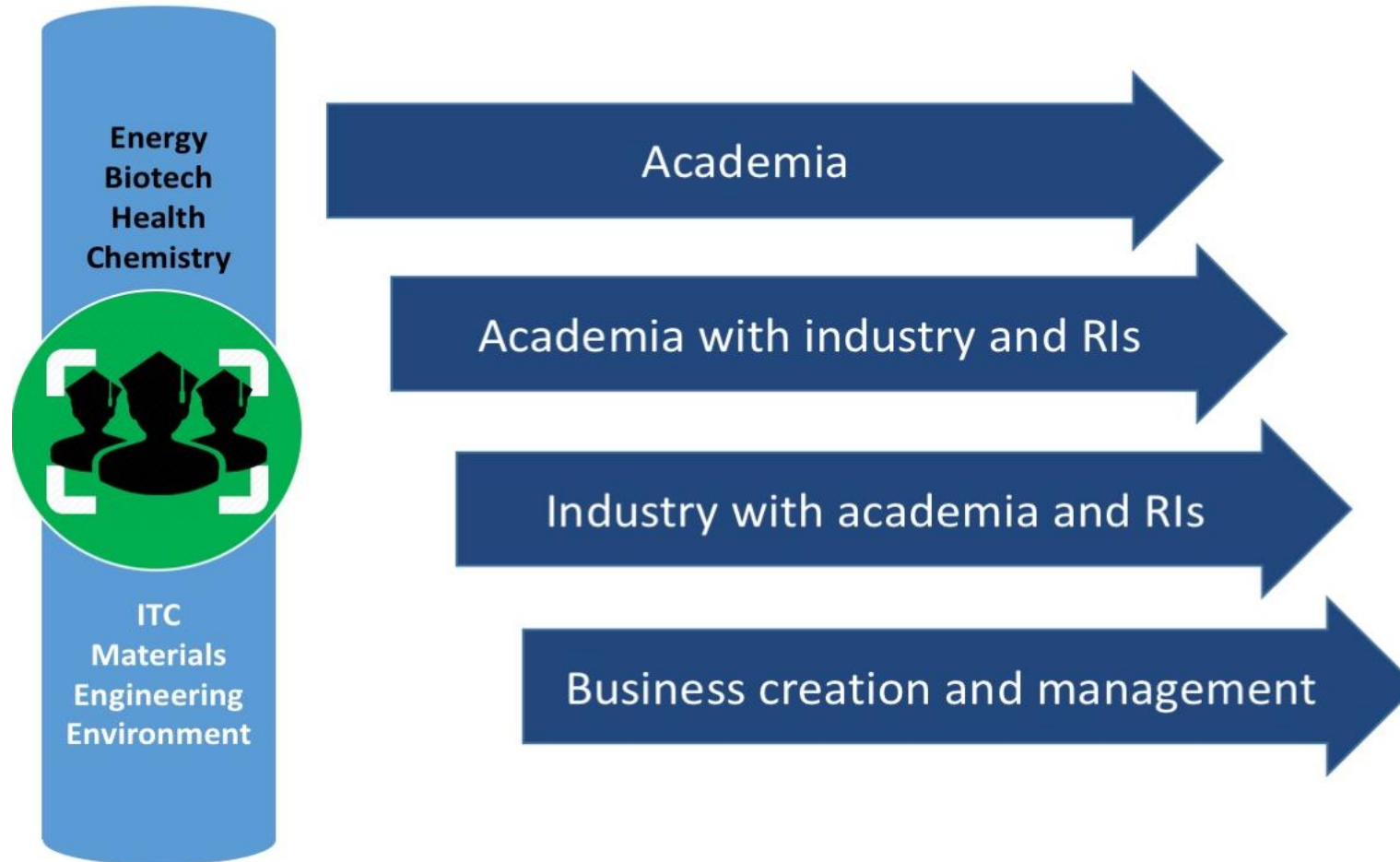


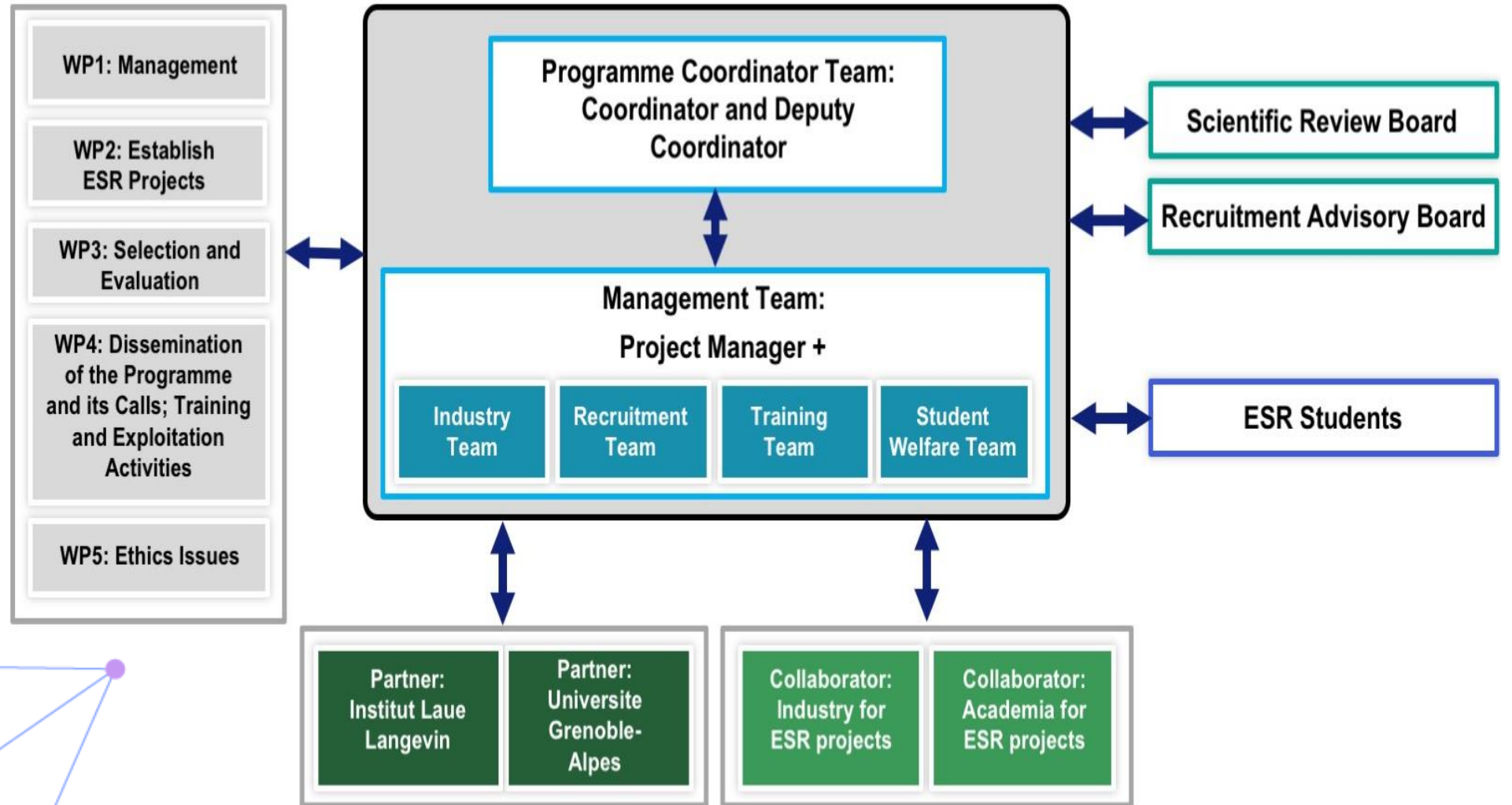
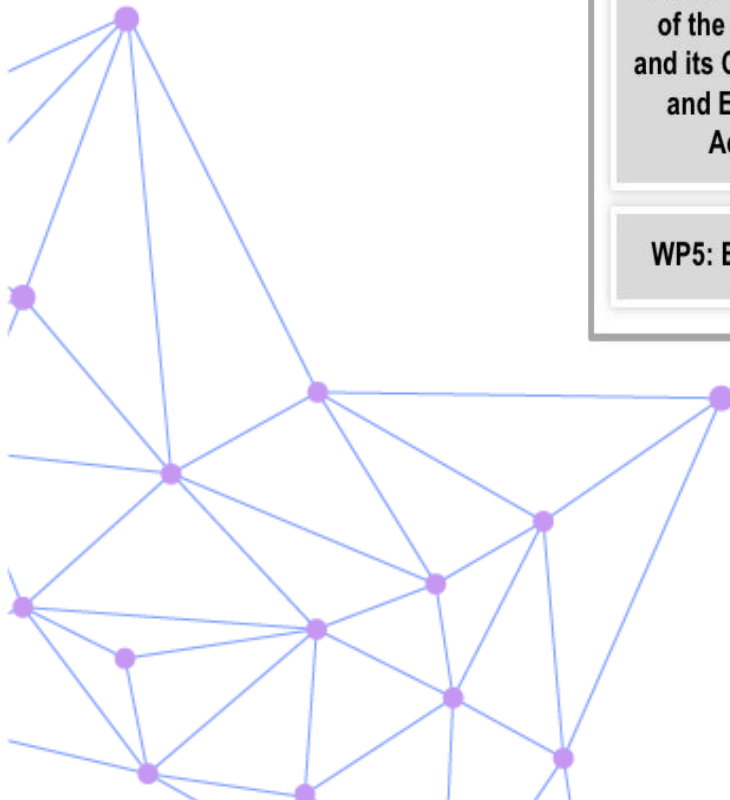
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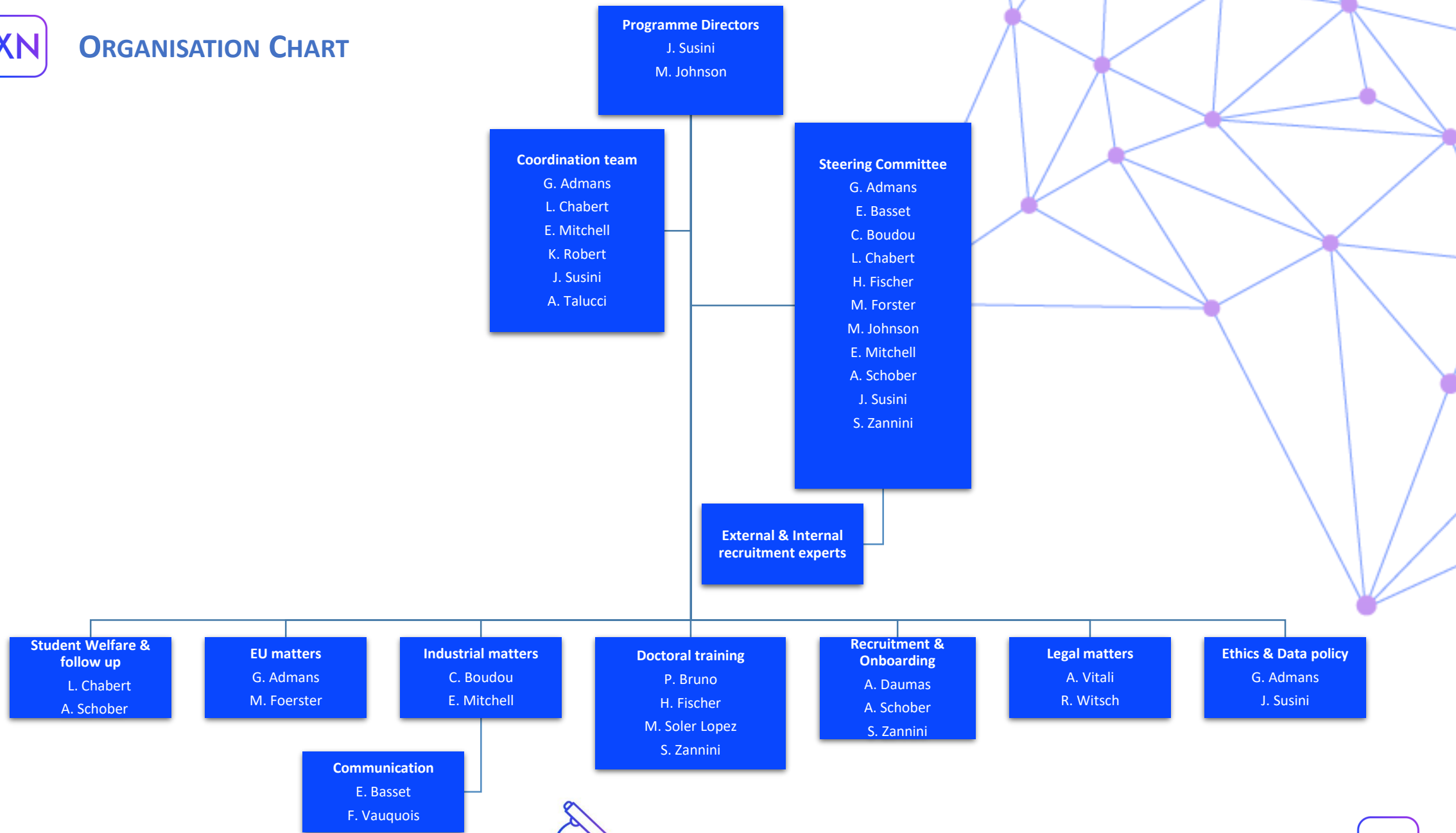


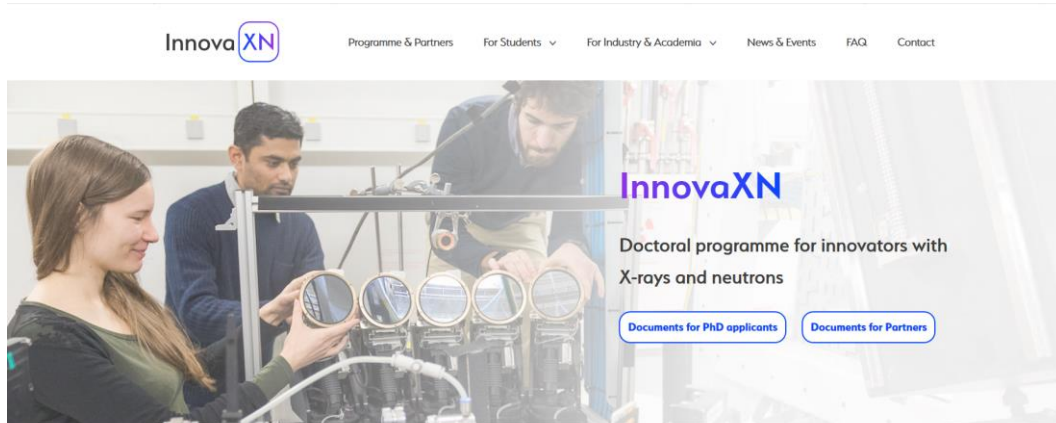


EXPECTED CAREER PERSPECTIVES









Project

InnovaXN is a doctoral training programme bringing together the expertise of large-scale research infrastructures with the R&D needs of European industry.

Supported by an H2020 MSCA COFUND Programme, 40 PhD students will study a wide variety of subjects driven by industrial challenges, focussed on exploiting the advanced characterisation techniques of the large-scale European facilities in Grenoble, the ESRF and ILL.

Follow Us



InnovaXN 3h

20 PhD projects covering 11 countries. A kick-off event will bring together the project partners for the first time on 14/02/2020. @esrfsynchrotron @ILLgrenoble @UGrenobleAlpes @MSCActions #COFUND. <https://t.co/a8rxWT2egM>



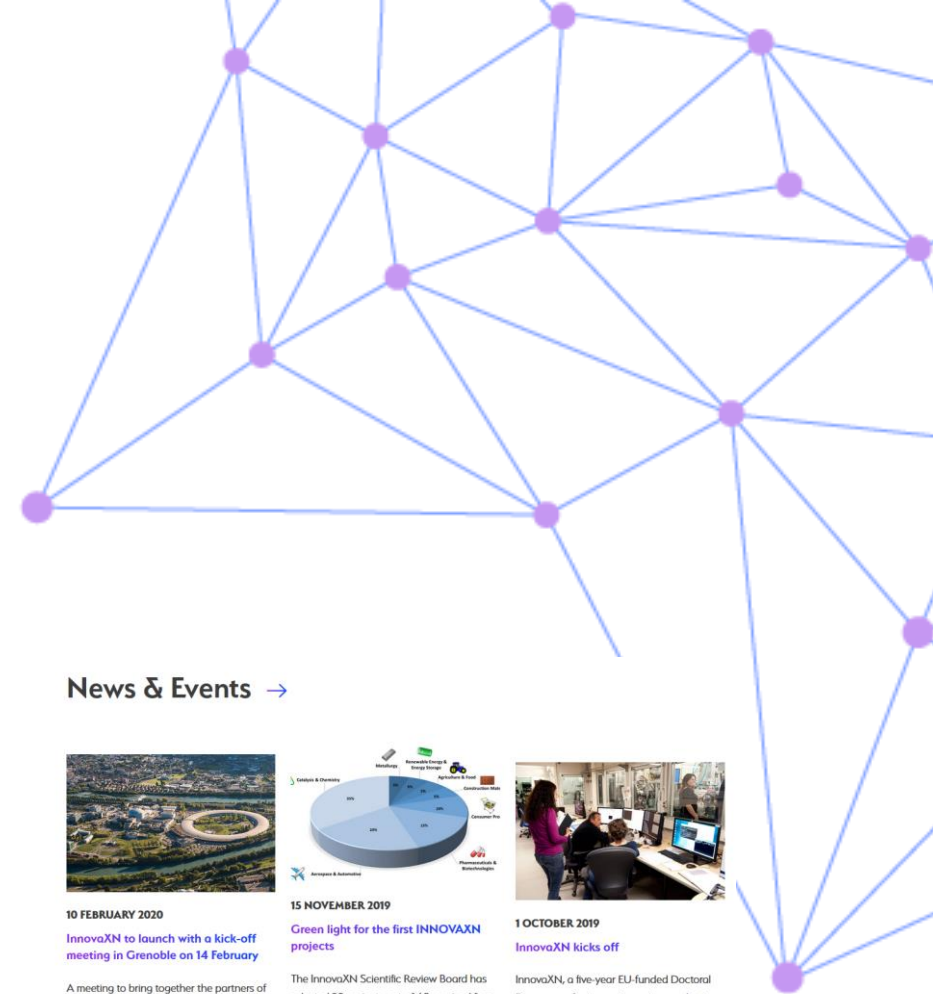
InnovaXN 6 Feb

New #phd opportunity is open, featuring Chemo-hydro-mechanical response of cement, in collaboration with @LafargeHolcim and @UGrenobleAlpes <https://t.co/4kTPcrbuVZ> #synchrotrons #neutrons #Industry #innovation #MSCA #COFUND supported by @esrfsynchrotron @ILLgrenoble @MSCActions



InnovaXN 6 Feb

#phd opportunity is open, featuring Alkane/alkene separation, in collaboration with @ContiUK and @UniHannover <https://t.co/0yvCwj3Rz5> #synchrotrons #neutrons #Industry #innovation #MSCA #COFUND supported by @esrfsynchrotron @ILLgrenoble @MSCActions



News & Events →

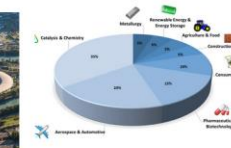


10 FEBRUARY 2020

InnovaXN to launch with a kick-off meeting in Grenoble on 14 February

A meeting to bring together the partners of the InnovaxN Doctoral Training Programme has been organised for 14 February 2020. The meeting will feature presentations introducing a selection of the InnovaxN PhD projects and signature of a collaboration agreement between the three Grenoble-based partners, ESRF, ILL and UGA. The PhD project partners from industry and [...]

[Read More >](#)



15 NOVEMBER 2019

Green light for the first INNOVAXN projects

The InnovaxN Scientific Review Board has selected 20 projects out of 60 received from European industry and their partners. These projects will become PhD thesis topics in the InnovaxN doctoral programme. The approved projects cover a wide range of research fields such as chemistry, catalysis, aerospace, automotive and consumer products. They focus on industrial research. [...]

[Read More >](#)



1 OCTOBER 2019

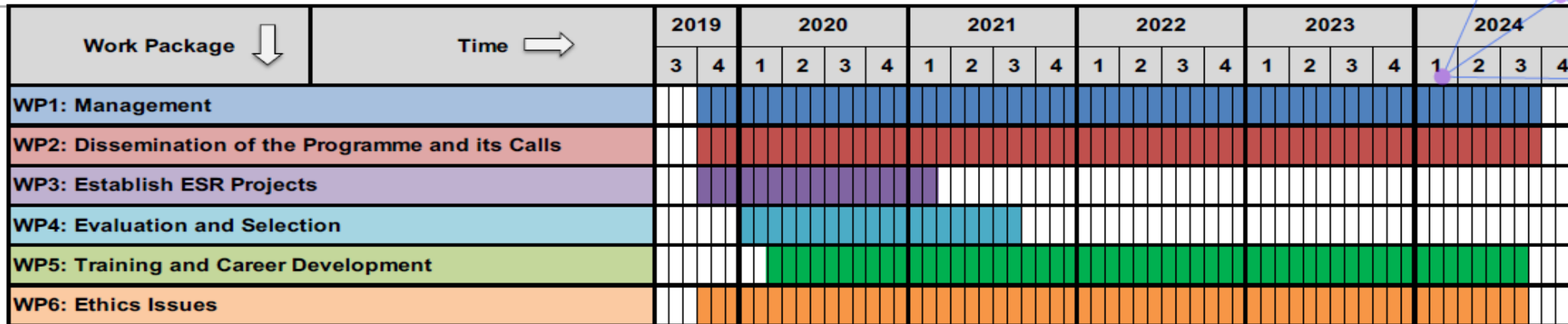
InnovaXN kicks off

InnovaXN, a five-year EU-funded Doctoral Programme for innovators using synchrotron X-rays and neutrons, has started. InnovaxN is a doctoral training programme bringing together the expertise of large-scale research infrastructures with the R&D needs of European industry. The programme starts today, 1 October 2019, and will run for five years. In preparation for the first round [...]

[Read More >](#)

01/10/19 M1: InnovaXN programme start

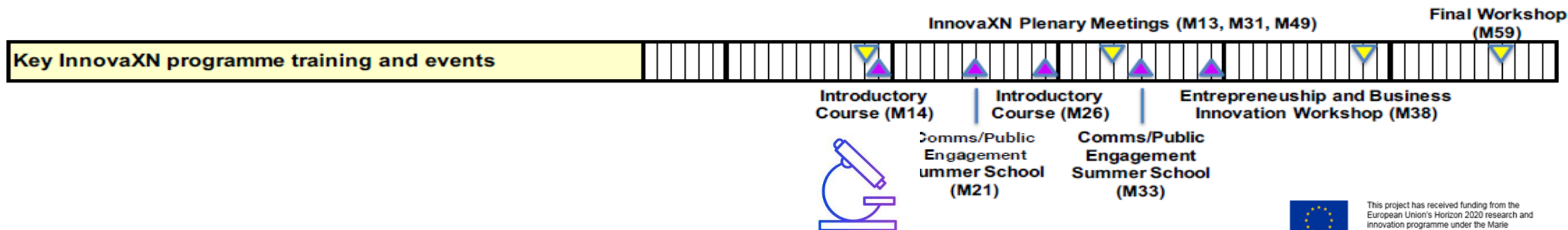
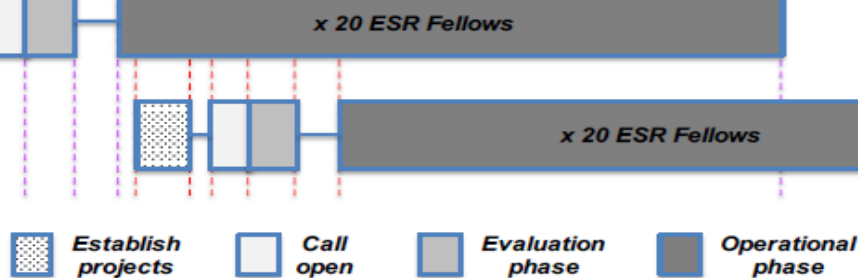
31/09/24 M60: InnovaXN programme end



InnovaXN will run two calls, each open for applications for eight weeks and each offering twenty ESR fellowships. The evaluation phase will last 12 weeks. The first three months of the project will allow a careful preparation to establish all materials and ESR projects for call one with industrial and academic partners

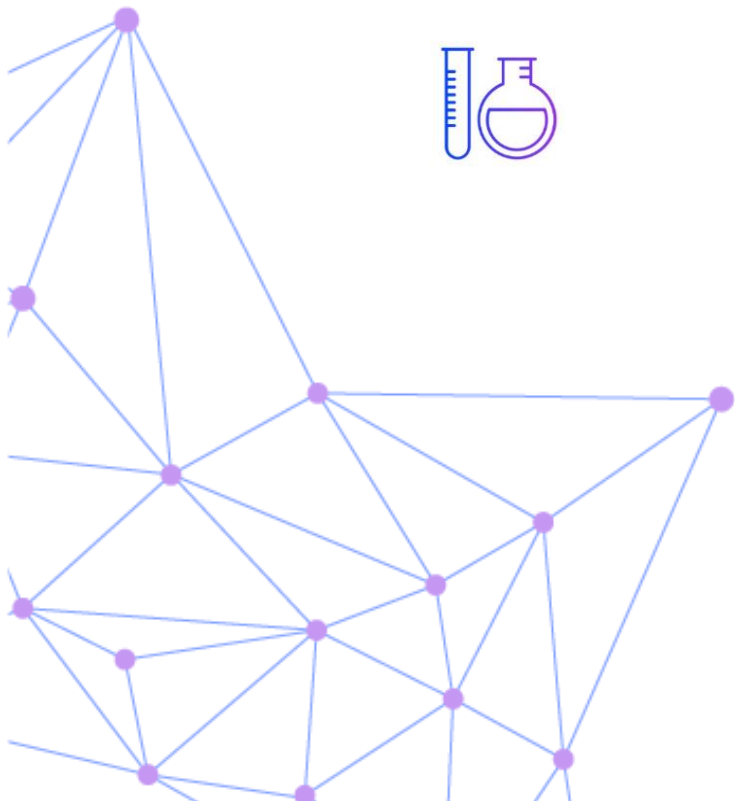
Call 1: 01/02/2020-31/03/2020

Call 2: 01/02/2021-31/03/2021



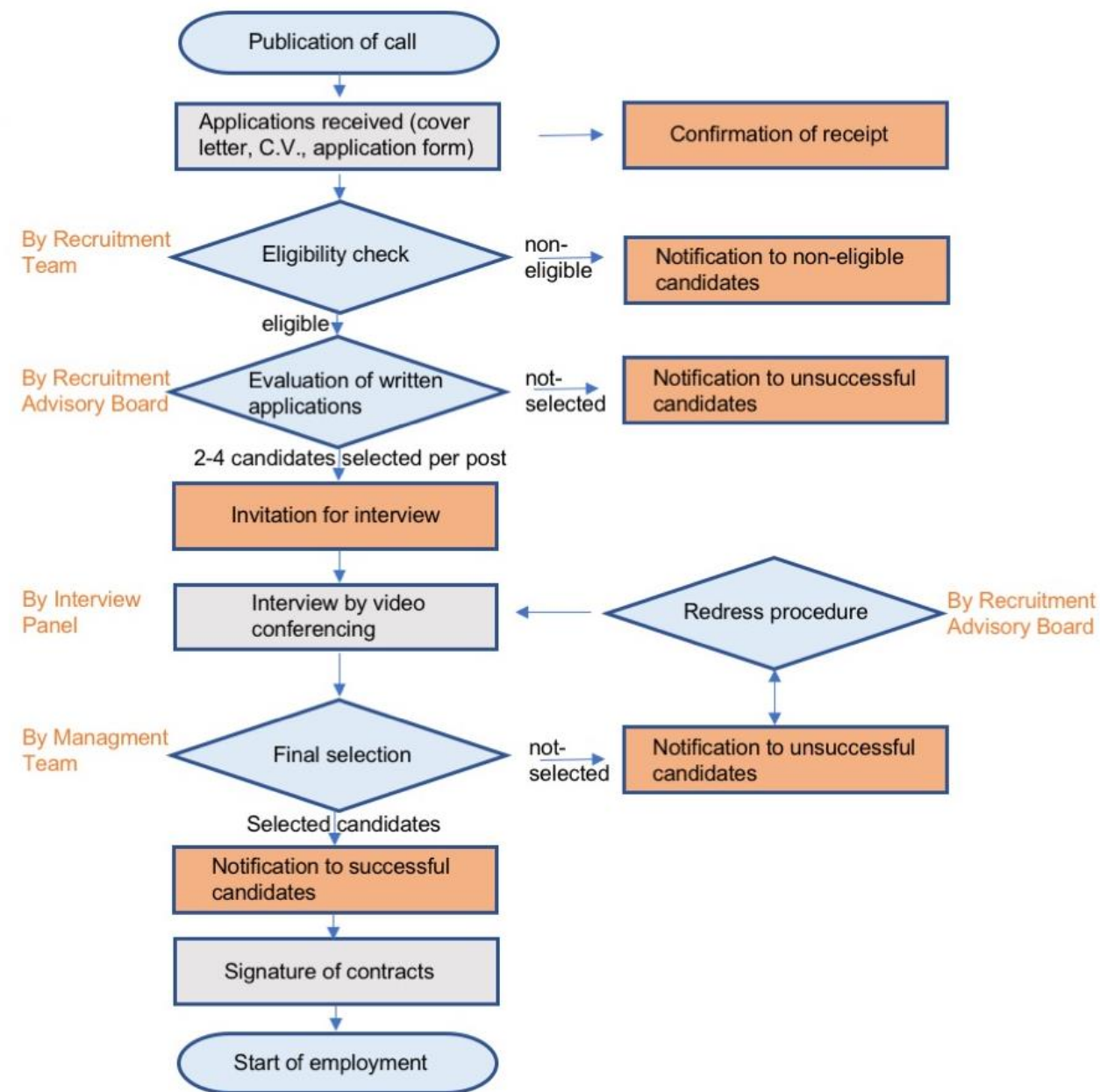
First round (2019)

- 60+ expressions of interest
- 30 projects short-listed
- 20 projects selected



Timeline

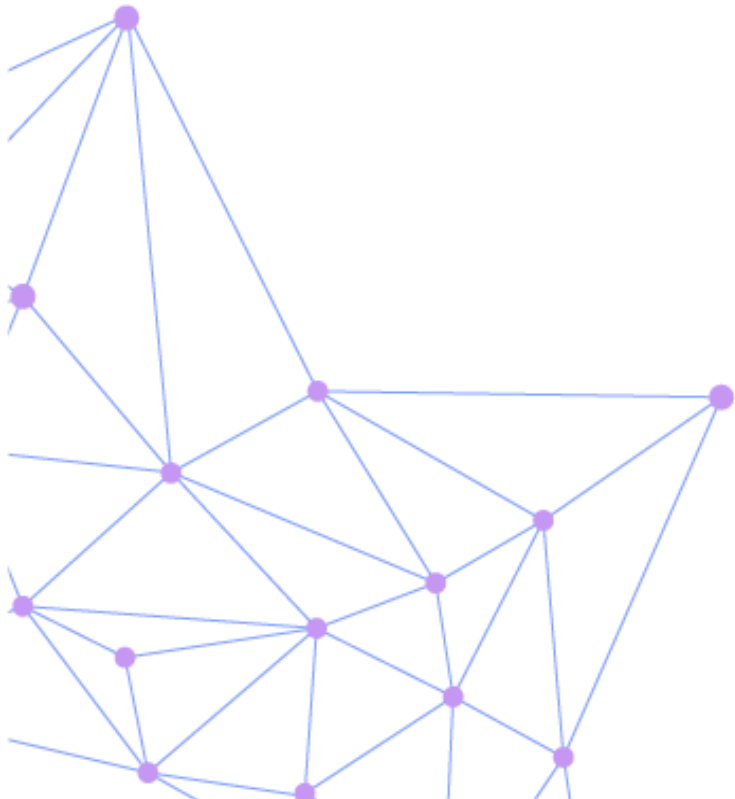
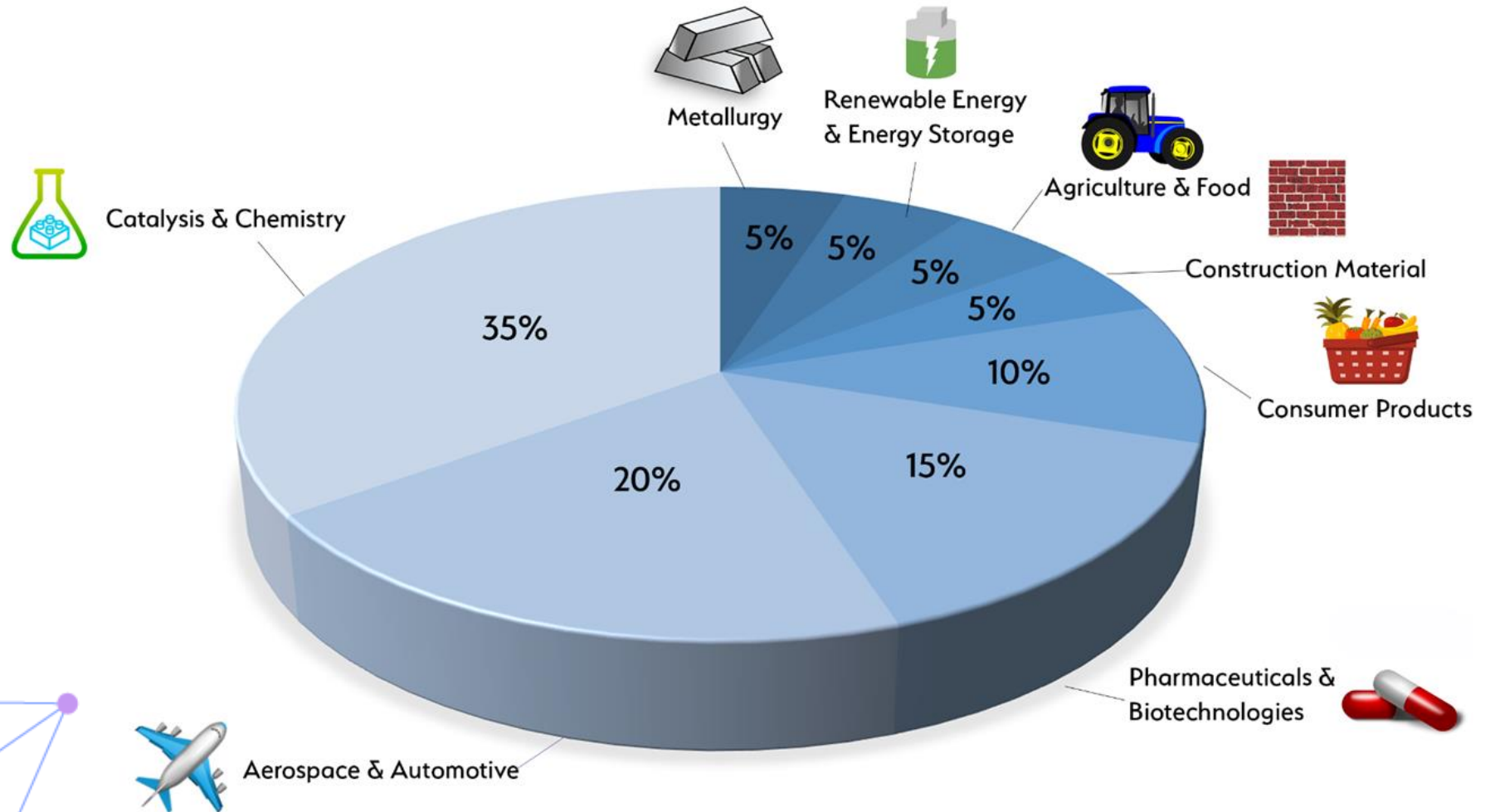
T = 0 weeks
 T + 8 weeks: deadline For applications
 T + 10 weeks
 T + 13 weeks
 T + 14 weeks
 T + 17/18 weeks
 T + 19 weeks
 T + 20 weeks
 T + 23 weeks
 T + 26 weeks

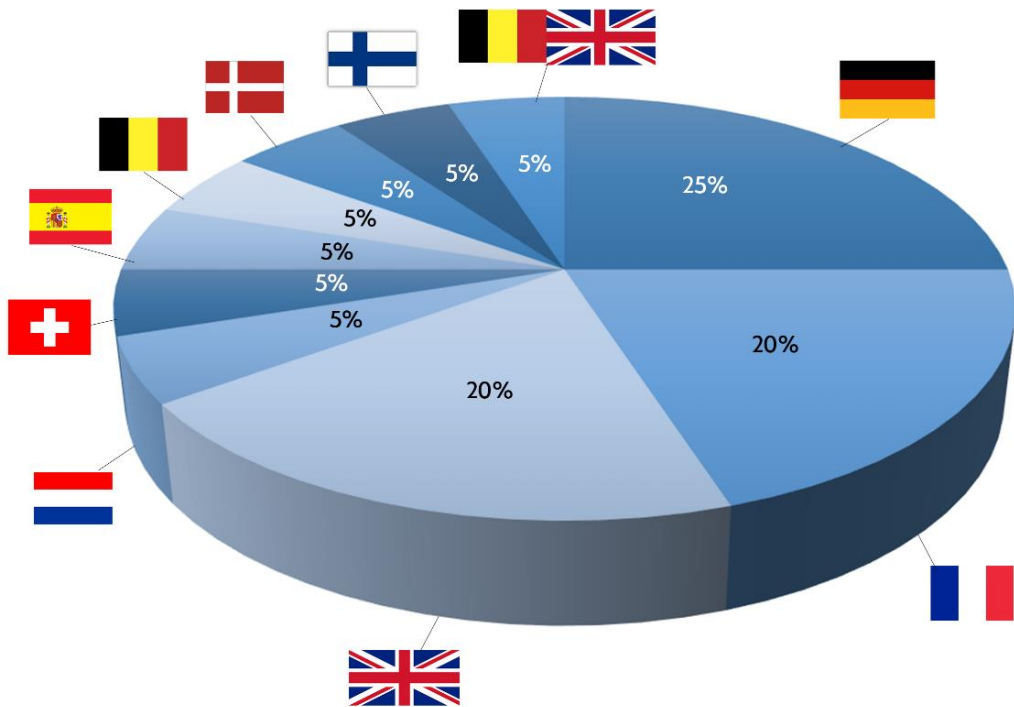


PROJECTS	RESEARCH AREAS	PARTNERS & INSTITUTES
Formation of Liposomes – Shining Light (and Neutrons and X-Rays) on an Industrially Relevant Process	Soft Matter	Evonik Nutrition & Care GmbH, Technische Universität Berlin, ILL
Revealing additive manufacturing's laser-matter interactions	Materials Science	Rolls-Royce plc, University College London, ESRF/ ILL
Elucidating the deactivation pathways of Cu-zeolite-based industrial DeNOx catalysts by means of X-ray absorption spectroscopy complemented by optical spectroscopies and catalytic tests	Chemistry	Umicore Denmark ApS, University of Turin, ESRF
Imaging inorganic in organic: The synchrotron-based microscopic in-depth chemical monitoring of short term and long term interactions of inorganic and organic in historical and industrial paintings and coatings	Materials Science	AkzoNobel, The Rijksmuseum, University of Amsterdam, ESRF
Advanced Diffraction Me		
Operando stability invest		SRF
Structural basis and mole		
Catalytic removal of nitro		ology, ESRF
The relationship between		
Effect of heteroatom dop		
Molecular Level Underst		iversität
Investigation of manufac		
scattering and imaging		
Sustainable molecular de		
Investigation of the Solut		ESRF
Investigation on the influ		RF
academic baseline to opt		
Interaction of intelligent		
Understanding the microscopic mechanism for the industrially relevant ethene/ethane and propene/propane separations by silver-containing molecular sieves	Materials Science	Cepsa Research Center, Instituto de Tecnología Química, ILL
Microscopic dynamic properties of antibody solutions: Connecting to macroscopic phase behaviour and pharmaceutical applicability	Life Sciences and Health	Lonza AG, University of Tübingen, ILL
Adhesion and interactions with hair biomolecules - a cosmetic perspective	Soft Matter	L'Oréal Research and Innovation, KTH Royal Institute of Technology, ILL
Chemo-hydro-mechanical response of carbonatable binders through coupled X-ray and neutron high resolution imaging and modeling	Materials Science Chemistry Engineering	LafargeHolcim Innovation Center, UGA, ILL/ ESRF

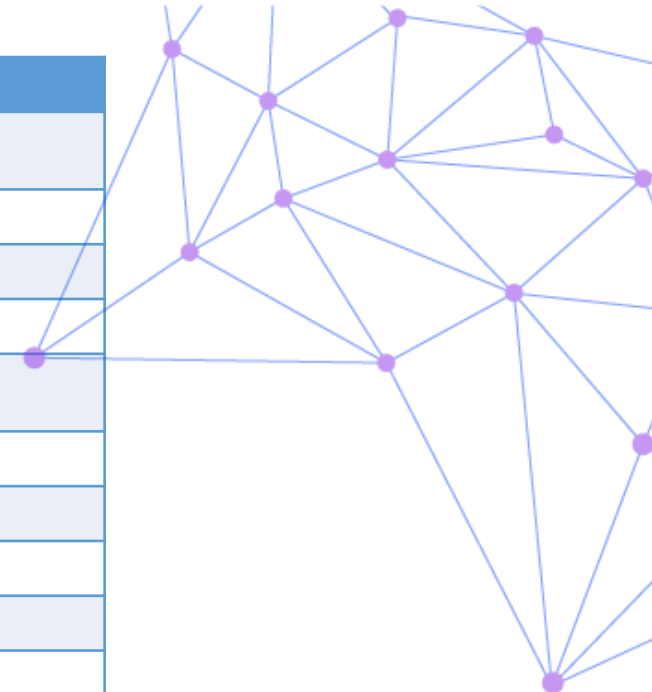
- *“Capturing additive manufacturing’s laser-matter interactions”*
- *“Synchrotron microscopic study of historical and industrial” paintings*
- *“Structural basis of melanogenesis enzymes”*
- *“Lunar application regolith study”*
- *And many more...*





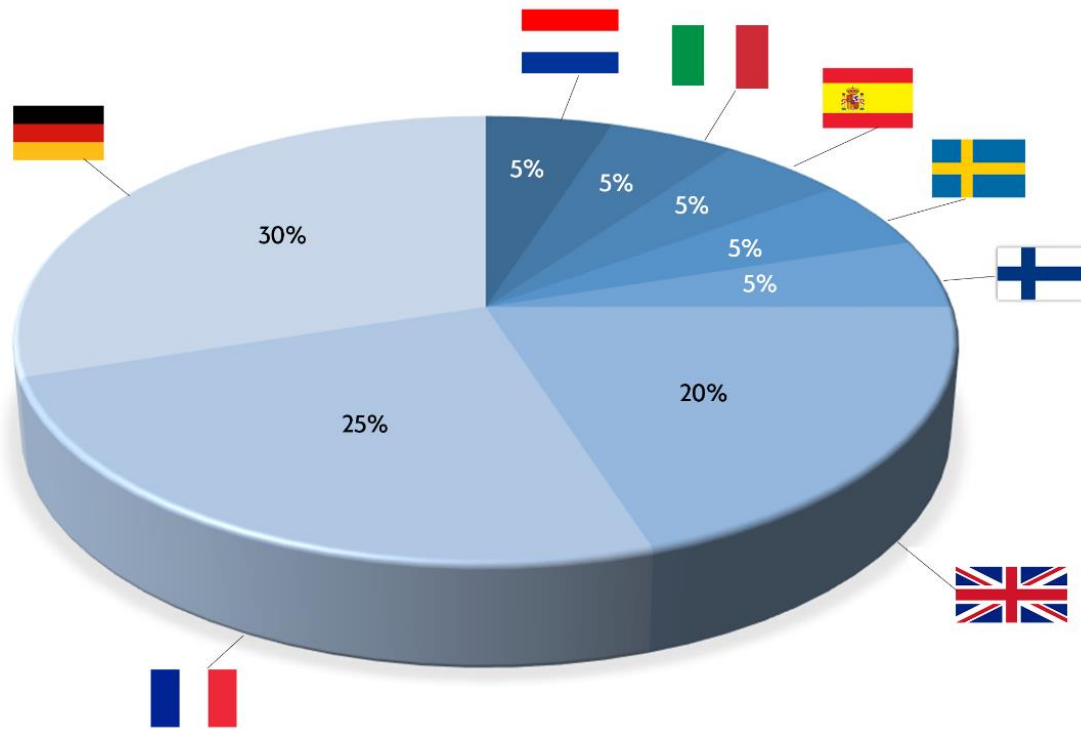


Industry
AkzoNobel
Astra Zeneca
Cepsa Research Center
Constellium Technology Center
Continental Reifen Deutschland GmbH
Evonik Nutrition & Care GmbH
ImmuSmol SAS
Johnson Matthey
Kao Germany GmbH
LafargeHolcim Innovation Center
Lonza AG
L'Oréal Research and Innovation
OHB Technische Universität Braunschweig
Procter & Gamble
Rolls-Royce plc
The Rijksmuseum
Toyota Motor Europe NV/SA
Umicore AG & Co. KG
Umicore Denmark ApS
Umicore Finland Oy

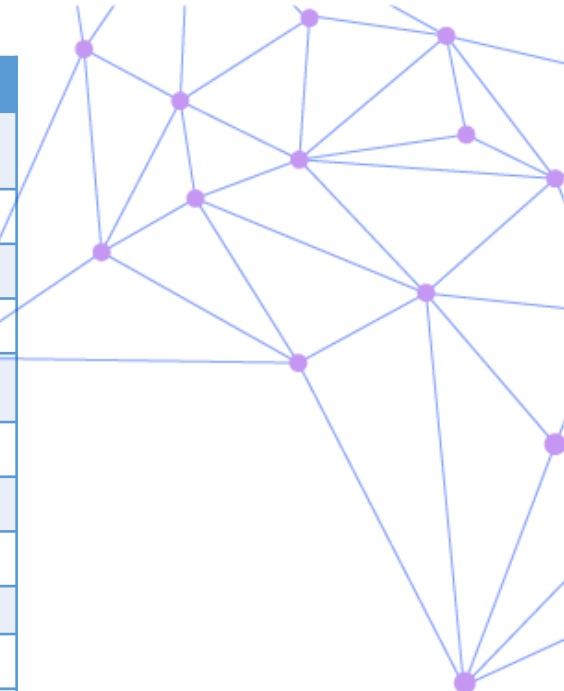


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Academia
Aalto University
CEA
Imperial College London
Instituto de Tecnología Química (UPV-CSIC)
Karlsruhe Institute of Technology
KTH Royal Institute of Technology
Leibniz Universität Hannover
Technische Universität Berlin
Technische Universität Braunschweig
UGA
University College London
University of Amsterdam
University of Manchester
University of Paderborn
University of Tübingen
University of Turin
Aalto University
Imperial College London
Instituto de Tecnología Química (UPV-CSIC)
Karlsruhe Institute of Technology
KTH Royal Institute of Technology



Innova **XN** CALL FOR APPLICATIONS (1ST ROUND)



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Academic
Positions

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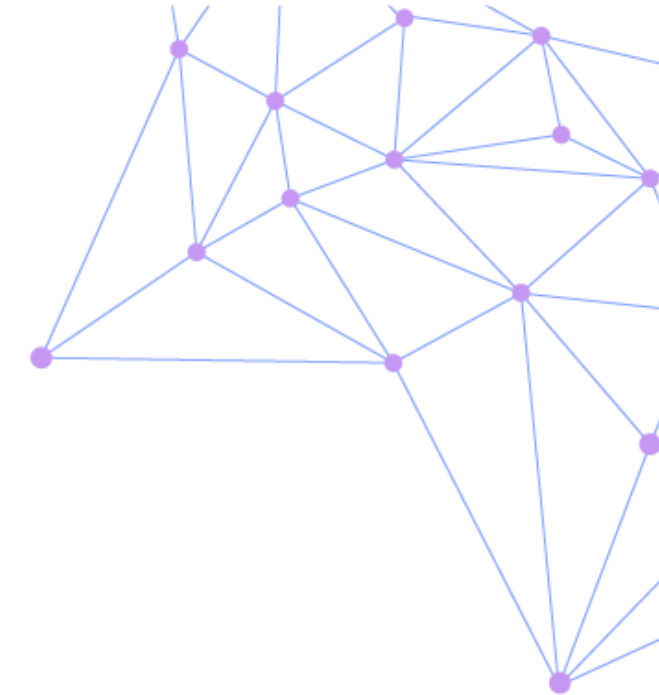
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Group photo !



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