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Agenda

- > Introduction to Horizon 2020
- Transport in Horizon 2020
- ➤ Opportunities for USA partners: 2014 2015 Transport Calls (and other areas of H2020)
- Partner search and partnering opportunities
- Collaboration with Polish stakeholders





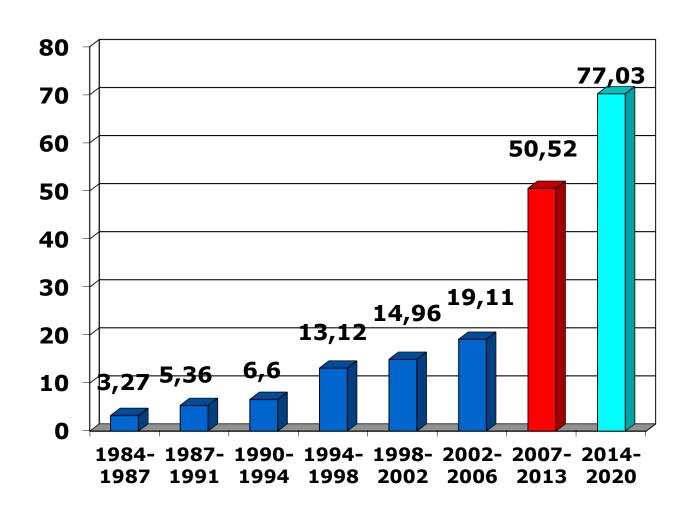
What is Horizon 2020?

- Framework funding programme for all EU research & innovation-related activities (2014-2020)
- Combines R&I funding programmes that were previously separated (FP7, EIT, CIP)
- More emphasis and focus on innovation: bridging the gap between knowledge and market, stronger participation of SMEs
- Oriented on societal challenges
- Challenge solution approach rather than focus on specific technologies development
- A core part of Europe 2020, Innovation Union & European Research Area:
 - Responding to the economic crisis to invest in future jobs and growth
 - Addressing people's concerns about their livelihoods, safety and environment
 - Strengthening EU's position in research, innovation and technology





History of EU Framework Programmes – Budgets in bln Euro





Horizon 2020 – Structure BILAT USA 2.0



I. Excellent science:	24 441,1
1. European Research Council (ERC)	13 094,8
2. Future and Emerging Technologies(FET)	2 696,3
3. "Maria <i>Skłodowska-Curie"</i> Actions for training and career development	6 162
4. Research infrastructures (including e-infrastructure)	2 488
II. Industrial Leadership:	17 015,5
1. Leadership in enabling and industrial technologies (LEITs) - ICT, nanotechnologies, materials,	13 557
biotechnology, manufacturing, space)	
2. Access to risk finance	2 842,3
3. Innovation in SMEs	616,2
III. Societal Challenges:	29 679
1. Health, demographic change and wellbeing	7 471,8
Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the Bioeconomy	3 851,4
3. Secure, clean and efficient energy	5 931,2
4. Smart, Green and Integrated Transport	6 339,4
5. Climate action, environment, resource efficiency and raw materials	3 081,1
6. Inclusive, innovative and reflective societies	1 309,5
7. Secure societies	1 694,6
IV. Spreading excellence and widening participation	816,5
V. Science with and for society	462,2
VI. European Institute of Innovation and Technology (EIT)	1 902,6
VII. Euratom	2 711,4
TOTAL	77 028,3





New strategy for international cooperation in research and innovation

- Need to engage more actively and strategically in international cooperation
- Three main objectives:
- Strengthen the Union's excellence and attractiveness in research and innovation
- Tackle global societal challenges
- Support the Union's external policies
- Combining openness with better targeted actions
- Strengthened partnership with Member States
- Stronger contribution of research and innovation to external policies of the Union





International Cooperation in Horizon 2020

- International cooperation is crucial to address many Horizon 2020 objectives
- Principle of general openness: the programme will remain to be the most open funding programme in the world
- Need to join forces globally to tackle global challenges









International Cooperation in Horizon 2020

Participation

Open for all legal entities established in third countries and for international organisations.

Restrictions only possible if introduced in the work programme.

- For reciprocity reasons;
- For security reasons.

Funding

- Third country identified in the Work Programme or
- participation deemed by the Commission essential in the action or
- when provided under a bilateral scientific and technological agreement



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SMART, GREEN and INTEGRATED TRANSPORT

Objective:

"To achieve a European transport system that is resourceefficient, climate-and-environmentally-friendly, safe and seamless for the benefit of all citizens, the economy and society."





Main activities

Resource efficient transport

- Cleaner & quieter vehicles
- Smart equipment, infrastructures and services
- Improved transport and mobility in urban areas

Better mobility, less congestion, more safety

- Substantial reduction of traffic congestion
- Improved mobility of people and freight
- Developing and applying new concepts of freight transport and logistics

Global leadership for the European transport industry

- Next generation of transport means
- On board, smart control systems
- Advanced production processes
- New transport concepts

Socio-economic and behavioral research





Implementation of activities

- Calls for proposals
 - Workprogrammes
 - 2014-2015, 2016-2017, 2018-2019 and 2020
 - Contractual Public Private Partnerships
 - European Green Vehicles Initiative
 - Vessels for the Future Initiative (decision pending)
- Joint Undertakings
 - Clean Sky 2
 - SESAR 2
 - Shift2Rail (decision pending)
 - Fuell cells and Hydrogen 2
- Contributions
 - Blue Growth (Challenge 2)
 - Smart Cities and Communities (Challenge 3)





Aviation



- Medium to long-term Research and Innovation actions with a bottom-up approach for innovative technologies, complementing those carried out under Clean Sky and SESAR
- Actions to improve the skills and knowledge base of European aviation, to support its R&I
 policy and to create durable links with targeted international cooperation partners





Rail



- Radical progress in service, costs, interoperability, capacity, noise reduction and competitiveness and further developments in terms of carbon footprint
- Novel business, organizational and logistics solutions, new partnerships with service and technology providers from more advanced sectors
- New technologies in all rail segments, services infrastructure





Road

EUROPE NEEDS:



- R&I for road transport in complement to the 'Green Vehicles' call
- Activities in the field of:

 Internal combustion engines; support to air quality policy; safety of road transport; production technology; new vehicle concepts for road and urban transport





Waterborne



- A modern, safe, secure and resource efficient waterborne transport system
- Sustainable development: optimal use of energy sources, minimization of environmental impacts
- Competitiveness: creation and deployment of R&I solutions; exploring new frontiers in terms of vessels, operational paradigms and industrial use of oceans





Urban Mobility



- -Innovation in resource-efficient and competitive urban mobility and transport ('CIVITAS 2020'):
- Transformation towards a cleaner and better urban mobility and transport
- Five complementary challenge-topics
- Framework for coordinated evaluation, dissemination and information exchange
- Build on legacy (CIVITAS, STEER market take-up, ...)





Logistics



- To increase efficiency and sustainability in the EU logistics supply chain
- To remove the communication bottlenecks between stakeholders
- To improve the potential for collaboration, the utilization of equipment and connectivity across the transport modes





Intelligent Transport Systems





- ITS and ICT technologies provide a set of strategies for addressing the challenges of:
 - •Assuring safety and reducing congestion; Delivering safe, efficient, sustainable and seamless transport options across Europe; Accommodating the growth in passenger and freight traffic; Safeguarding the competitiveness of the European industry
- Progress in the ITS area under H2020 shall contribute to decarbonizing the transport sector and materializing the "Zero" vision of road safety
- Topics adding value to mode-specific activities





Infrastructure

- EUROPE NEEDS:
- To make infrastructure more resilient.
- To keep pace with the growing mobility needs and aspirations of people and businesses
- To reduce the impact of infrastructure on the environment
- To maintain and upgrade deteriorating transport infrastructures
- To facilitate the uptake of innovation







Socio-economic and Behavioural Research and Forward-looking Activities for Policy-making

- EUROPE NEEDS:
- To help generate the innovative solutions necessary for smarter, greener and more integrated transport and mobility by embedding the social sciences and humanities throughout this challenge
- To address the specific needs in terms of socio-economic and behavioural research: data, models and scenarios; user needs and behaviour; transport economics and policy support





Call 'Green Vehicles'



- -The call on Green Vehicles is an essential component of road transport R&I, it supports:
- Improvement of energy efficiency of road transport vehicles
- Use of new types of non-conventional energies in road transport, such as electricity, CNG and LNG, bio-based fuels
- -Demonstration is essential to ensure timely deployment of the new technologies





Contribution to other calls

- BLUE GROWTH: actions in this area aim at supporting the EU Blue Growth Strategy and relevant EU policies and at providing opportunity for transatlantic cooperation
- SMART CITIES: financial contribution to Smart Cities and Communities Light House Projects (Energy Challenge)







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Transport Workprogramme 2014-2015

- Calls in the field of Transport:
 - Mobility for Growth
 - Green Vehicles
- Publication: 11th December 2013
- 1 or 2 stage submission procedure
- Deadlines: ~ March August (2014 / 2015)





2014 – 2015 Transport Call financing

Calls (publication 11 December 2014)	Budget (€ Mio) 2014	Budget (€ Mio) 2015
Call 'Mobility for Growth'	374,5 (+2)	184 (+10)
1. Aviation	70 (+2)	36
2. Rail	52	-
3. Road	66	23 (+5)
4. Waterborne	56	18
5. Urban	40	66,5
6. Logistics	32	18
7. ITS	31	-
8. Infrastructure	19	17,5
9. Socio-economic and behavioural research	8,5	5 (+5)
Call 'Green Vehicles'	129	30
Call Small business and Fast Track	35,87	38,69
Contribution to Smart Cities, Blue Growth	33.5	25.5





2014-2015 Workprograme International Cooperation Specific topics

Topic	Deadline	INCO WP comemnt
MG.3.4-2014. Traffic safety analysis and integrated approach towards the safety of Vulnerable Road Users	CLOSED	"Encouraged"
MG.3.5-2014. Cooperative ITS for safe, congestion-free and sustainable mobility	CSA only – 28.08.2014	"Encouraged"
MG.3.6-2015. Safe and connected automation in road transport	RIA 1st stage 31.03.15 / 2nd stage 27.08.15; CSA 27.08.2015	"Encouraged"
MG.4.2-2014. Safer and more efficient waterborne operations through new technologies and smarter traffic management	CLOSED	"Encouraged"
MG.4.4-2014. Advancing innovation in the Inland Waterways Transport (IWT) sector	CLOSED	"Encouraged"
MG.5.2-2014. Reducing impacts and costs of freight and service trips in urban areas	CLOSED	"Encouraged" with particular attention to USA
MG.5.5-2015. Demonstrating and testing innovative solutions for cleaner and better urban transport and mobility	RIA 1st stage 31.03.15 / 2nd stage 27.08.15	"Encouraged"
MG.7.1-2014. Connectivity and information sharing for intelligent mobility	CLOSED	"Encouraged"
MG.8.1-2014. Smarter design, construction and maintenance	CSA only – 28.08.2014	"Encouraged"
MG.8.2-2014. Next generation transport infrastructure: resource efficient, smarter and safer	CSA only – 28.08.2014	"Encouraged"
GV.1-2014. Next generation of competitive lithium ion batteries to meet customer expectations	28.08.2014	"Encouraged"



MG.3.5-2014. Cooperative ITS for safe, congestion-free and sustainable mobility

SPECIFIC CHALLENGE:

- How to use Big Data for better traffic & transport management in view of environmental challenges, congestion and safety
- How to distribute mobility services in a connected mobile world

SCOPE:

- •Support of European Wide Service Platforms with seamless connectivity, improved positioning, accurate dynamic maps
- Innovative solutions for cooperative network management
- Tailor-made solutions for heavy duty vehicles

EXPECTED IMPACT:

Improvements in:

• Safety level, efficiency, flexibility

Coordination and Support Action (deadline 28/08/2014) (1 mln € / project)





MG.3.6-2015. Safe and connected automation in road transport

SPECIFIC CHALLENGE:

- Automated and progressively autonomous driving applications in road transport
- Reconciling growing mobility needs with more efficient transport operations, lower environmental impacts and increased road safety

SCOPE:

For RIA:

- Dedicated supporting technologies for individual pre-emption or compensation of human errors (Advanced Driver Assistance Systems; Human Machine Interfaces)
- Novel transport, service and mobility concepts in real-life situations enabled by automated driving and connectivity
- Assessment of the effectiveness based on a multi-stakeholder engagement process (involving drivers)
- Ethical and gender issues in compensating for human should be considered

For CSA:

- Dissemination and take-up of results, including the development and consensus building on business models to progress towards full automation in road transport.
- Liability and standardisation policy and regulatory framework recommendations could be formulated as appropriate.

EXPECTED IMPACT:

Reduction of the systems' development costs, enhanced robustness and performance, improved efficiency and safety.

Research and Innovation Action (5-10 mln €/project) deadline 31.03.15 and 27/08/2015) Coordination and Support Action (deadline 27/08/2015) (budget of 1 mln €)





MG.5.5-2015. Demonstrating and testing innovative solutions for cleaner and better urban transport and mobility

SPECIFIC CHALLENGE:

- •Europe's urban areas are struggling to address the transport-related challenges
- •Cities are hesitating to implement innovative solutions because little information is available on their effectiveness and on how to overcome the barriers to successful implementation

SCOPE:

For IA:

- Carried out by city-led consortia (at least 2 advanced cities, 2-3 participating cities)
- Each city should follow an integrated approach by demonstrating and testing under real life-conditions a set of complementary and reinforcing mobility solutions. The solutions should combine newly-emerging technologies, policy-based, and soft measures with a strong replication potential
- A thorough impact and process evaluation, on the basis of a common framework using a clear baseline in each city, will provide
 qualitative and quantitative information on the results of the local solutions implemented

For CSA:

- Facilitate cooperation between stakeholders involved in the projects under this topic, and from across CIVITAS 2020
- Should further elaborate the common 'CIVITAS Process and Impact Evaluation Framework', support its implementation and contribute to local capacity building in deploying innovative mobility solutions

EXPECTED IMPACT:

IA - added-value inputs to the development of European knowledge base on the effectiveness and impacts of innovative mobility solutions and approaches to their successful implementation

CSA - promote take up of innovation by strengthening the mechanisms for urban transport policy making and planning as well as the technical capacity building in the participating cities

Innovation Action (12-18 mln €/project) deadline 31.03.15 and 27/08/2015) Coordination and Support Action (deadline 27/08/2015) (budget of 3 mln €)





MG.8.1. Smarter design, construction and maintenance

SPECIFIC CHALLENGE:

• Fewer, faster, more sustainable and better planned interventions with maximum safety for the workers and other traffic participants

SCOPE:

• Advanced, quick, cost-effective and flexible interventions, self-monitoring, self-reporting, non-intrusive inspection and testing methods, low energy construction and maintenance

EXPECTED IMPACT:

• Transition towards zero traffic disruption from inspection, construction and maintenance by 2030; increase infrastructure capacity, reliability, sustainability and life span through new construction and maintenance techniques; reduction of the energy intensity and CO2 and noise pollution from construction and maintenance

Coordination and Support Action (3 mln € budget)

One stage: 28/08/2014





MG.8.2-2014. Next generation transport infrastructure: resource efficient, smarter and safer

SPECIFIC CHALLENGE:

• Resource efficient, smarter and safer 21st century transport infrastructure; better integration of infrastructure in its natural habitat

SCOPE:

• Enhanced cross-modal inter-connectivity and active traffic management; innovative alternative fuels infrastructure; energy harvesting infrastructure; pro-active safety systems; preventing malicious acts and disruption

EXPECTED IMPACT:

• Improvement of infrastructure capacity and incident management; deployment of alternative fuels infrastructure in Europe; reduction of the energy intensity and CO2 and noise pollution from construction and Maintenance

Coordination and Support Action (0,5-1 mln euro/project)

One stage: 28/08/2014





GV.1-2014. Next generation of competitive lithium ion batteries to meet customer expectations

SPECIFIC CHALLENGE:

Made in Europe Li ion batteries that are competitive and deliver better performance electrified vehicles (complementary to topic pursuing longer terms solutions in the Advanced Materials 2014 Work Programme).

SCOPE (1 or more issues):

- Optimisation of cost, safety, resistance to high-power charging, durability, recyclability, hybridisation with other types of storage, scale-up
- Better knowledge on the ageing mechanism and its modelling to support test procedures and the development of standards (open for international cooperation)

EXPECTED IMPACT:

Facilitate the launch of production in Europe by demonstrating industrial scale prototypes showing cell-level energy densities at least 20%, and costs by 20% better than the best cell chemistries on the market

Research and Innovation Action (5-8 mln euro/project)

1 stage deadline 28/08/2014





> Secure Societies – Protecting freedom and security of Europe and its citizens





DRS-13-2015: Critical Infrastructure Protection topic 2: Demonstration activity on tools for adapting building and infrastructure standards and design methodologies in vulnerable locations in case of natural or man-originated catastrophes

CHALLENGE:

The expected increase of frequency and severity of climate-related natural catastrophes and the current risks of disasters of geological origin pose a serious threat to buildings and physical assets located in vulnerable locations, including critical infrastructures (i.e. [...], **transport stations**, **terminals** [..]) along their life cycle.

SCOPE:

- approach to take into account the security issue from the conceptual design of any building to its operation (in the case of a critical infrastructure)
- develop methods and tools for adapting building and infrastructure standards and design methodologies in vulnerable locations to climate-related impacts and/or other natural hazards

IMPACT:

More effective building standards and design methodologies for infrastructures Enhanced security of citizens and assets TRL7 is expected

Call: : H2020-DRS-2014-2015

Type of action: Research and Innovation actions (3-5 mln €/project)

Deadline: 27/08/2015 (provisional)





DRS-16-2014: Critical Infrastructure Protection topic 6: Improving the aviation security chain

CHALLENGE:

Explore new ways and ideas that are conceptually very different to those already in development or deployed;

Design systems and processes that are faster, more accurate and reliable, less invasive, and overall more efficient

SCOPE:

- investigate systems and explore novel opportunities for security interventions.
- investigate how to merge other security activities or (passenger) controls with aviation security
- test opportunities to integrate different processes into a better overall system, including at local, national, European and global level

IMPACT:

Higher level of threat and risk-based security and a reduced operational impact on passengers and industry. Faster, more accurate and reliable, less invasive, and overall more efficient to operate systems and processes than existing ones throughout their lifetime.

Call: H2020-DRS-2014

Type of action: **Research and Innovation actions** (3-5 mln €/project)

Deadline: 28/08/2014





Nanotechnologies, Advanced Materials, Biotechnology and Advanced Manufacturing and Processing





NMP 19 – 2015: Materials for severe operating conditions, including added-value functionalities

CHALLENGE:

The need to develop materials which can perform well in severe operating environments (ie. transport)

The general aim is to develop new products or components with a step change in efficiency or performance compared to existing ones, for operation in e.g. high radiation environments, highly corrosive environments, low temperature environments, deep sea or space environments, or other extreme climate conditions.

SCOPE:

- develop bulk materials that can function within an aggressive environment without property degradation
- Projects should include appropriate numerical tools (e.g. molecular dynamics) to capture the multi-scale evolution of damage; and predictive modelling tools for materials operating in extreme environments.
- Proof of concept in terms of product and/or process must be delivered within the project, excluding commercially usable prototypes, but convincingly demonstrating scalability towards industrial needs.

IMPACT:

Increase in competitiveness and sustainability of European industry through high value products and manufacturing processes in the application sector.

Employment and training through engagement in cutting-edge technologies

Call: **H2020-NMP 2014/2015**

Type of action: **Research and Innovation actions** (6-8 mln €/project)

2 stages: 1st stage 26/03/2015, 2nd stage 08/09/2015





Other possibilities in H2020 calls

- ➤ Generic research on materials and manufacturing techniques is encompassed in the Leadership in Enabling and Industrial Technologies part of Horizon 2020 under NMP and Factories of the Future
- Recycling of materials and replacement of critical raw materials are addressed by the 'Climate action, resource efficiency and raw material' societal challenge.
- ➤ Novel high-risk research of a more interdisciplinary nature is addressed in the <u>Future and Emerging Technologies</u> (FET) under the Excellent Science part of Horizon 2020.





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ETNA Plus project



Who are we?

- National Contact Points (NCPs) for Smart Green and Integrated Transport
- Other transport R&I stakeholders (other transport networks, previous EU funded initiatives, etc.)

Whom do we address our actions to?

Transport R&I community (policy makers, programme owners, NCPs, stakeholders etc.)

- Analysis of weaknesses/strengths
 of realized trans-national
 cooperation measures identified in
 the innovation strategies of a
 selected number of EU and non-EU
 industrialized countries.
- Guidebook on recommendations for trans-national cooperation within EU transport research

- Single entry point web-based tool to EU transport R&I initiatives and sources of public and private sector funding
- Brokerage events and partner search activities to find suitable partners to H2020
- E-trainings / webinars



More information available at: www.transport-ncps.net







Maritime and Innovation Brokerage Event (MIBE 2013)

42 presentations in brokerage sessions Over 110 profiles of entities registered for the B2B meetings (include project ideas)



Downloads:

Brokerage presentations:

http://www.maritimebrokerageevent2013.org/?page_id=1611

MIBE2013 participants profiles:

http://www.maritimebrokerageevent2013.org/wpcontent/uploads/2013/12/INTERIOR-CATA%CC%81LOGO-FICHAS-DEFI.pdf





ETNA Plus brokerage meetings

73 presentations in brokerage sessions Over 200 profiles of entities registered for the B2B meetings (include project ideas)



Downloads available at ETNA Plus website http://www.b2match.eu/h2020transportcall2014-2015
B2B profiles available at http://www.b2match.eu/h2020transportcall2014-2015





ETNA Plus partner search facility

Institution's profiles and project ideas

http://www.transportncps.net/services/partnersearch.html

Tool open for new submissions!



Partner Search tool for 2014 & 2015 Smart, Green and Integrated Transport calls is now open.

Submission procedure is similar to previous years. A set of documents is provided at the bottom of this page, including the workprogramme, project idea and partner profile forms. Please returned filled-in forms to Mr Mikolaj Pyczak (mikolaj pyczak@kpk.gov.pl). All submission will be pre-checked for completeness of data and uploaded to any of the below section, depending on the call topics of interest provided in profile and/or project idea forms.

Click to follow to any of below areas.

Call "Mobility for Growth"

AVIATION

RAIL

ROAD

WATERBORNE

URBAN MOBILITY

LOGISTICS

INTELLIGENT TRANSPORT SYSTEMS

SOCIO-ECONOMIC AND BEHAVIOURAL RESEARCH AND FORWARD LOOKING ACTIVITIES FOR POLICY MAKING

Call "Green Vehicles"

Call "Small Business and Fast Track Innovation for Transport"

Please remember about Important Notice on the First Horizon 2020 Work Programme provided in the official WP, stating that:
"This Work Programme covers 2014 and 2015. Due to the launching phase of Horizon 2020, parts of the Work Programme that relate to 2015 (topics, dates, budget) are provided at this stage on an indicative basis only. Such Work Programme parts will be decided during 2014."





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How USA – PL collaboration can be established?

Strategic undertakings running for different transport modes:

- Aviation
- Rail
- Road
- Waterborne
- Intelligent Transport Systems

This includes:

- Technology Platforms
- Industrial Clusters
- Associations
- Others





How USA – PL collaboration can be established?

- Strategic branch development programmes (running & in preparation)
- INNOLOT (2012-2020) strategic aviation programme with ~170 mln \$
 budget
- INNORAIL (in preparation) strategic rail programme
- INNOMOTO (in preparation) strategic eco-transport programme
- General & Business Aviation (in preparation)
- Offshore programme (prepared, under evaluation)
- Strategic agendas of those programmes do not exclude international cooperation.
- New R&T undertakings (based on identified demands) are also possible.
- Our team at NCP Poland is your focal point to connect to Polish stakeholders.





Marie Skłodowska-Curie actions

Objective:

To support the career development and training of researchers – with a focus on innovation skills – in all scientific disciplines through worldwide and cross-sector mobility

Types of actions:

- Research networks (ITN): support for Innovative Training Networks
- Individual fellowships (IF): support for experienced researchers undertaking mobility between countries, optionally to the non-academic sector
- International and inter-sectoral cooperation through the Research and Innovation Staff Exchanges (RISE)
- Co-funding of regional, national and international programmes that finance fellowships involving mobility to or from another country

<u>EURAXESS</u> is the place to go. For opportunities to pursue scientific career and undertake R&D&I activities in Poland – visit <u>EURAXESS</u> Poland





SKILLS – PRAXIS Programme of Foundation for Polish Science

<u>What</u> – raising qualification of Polish scientists in: research & team management, interdisciplinary collaboration, commedialization of results and enterpreneurship.

Who - Polish researchers (focus on PhD's) representing any scientifical area

How long: 1-6 months

Where: EU and non-EU (USA included)

More information: http://www.fnp.org.pl/en/kategoria_szkolenia/the-skills-

project/





Useful links

European Commission's portal on Horizon 2020:

http://ec.europa.eu/programmes/horizon2020/

Participant Portal

http://ec.europa.eu/research/participants/portal/desktop/en/home.html

Work Programmes

http://ec.europa.eu/research/participants/portal/desktop/en/funding/reference_docs.html#h202 0-work-programmes-2014-15

Marie Skłodowska-Curie actions

http://ec.europa.eu/programmes/horizon2020/en/h2020-section/marie-sklodowska-curie-actions

http://ec.europa.eu/euraxess/

NCP Poland:

http://kpk.gov.pl/index.html

Bilat 2.0 USA Project

http://www.euussciencetechnology.eu/

Transport NCP network's ETNA Plus project http://www.transport-ncps.net/





Thank you for your attention

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