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ENHANCING THE BILATERAL S&T PARTNERSHIP WITH UKRAINE * ADVANCED INNOVATIVE APPROACH

Overview of the Horizon 2020 Work Programme Call Nanotechnologies, Advanced Materials and Production (NMP)

ZENTRUM FÜR SOZIALE INNOVATION
CENTRE FOR SOCIAL INNOVATION

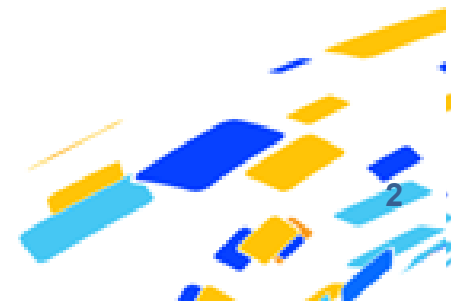


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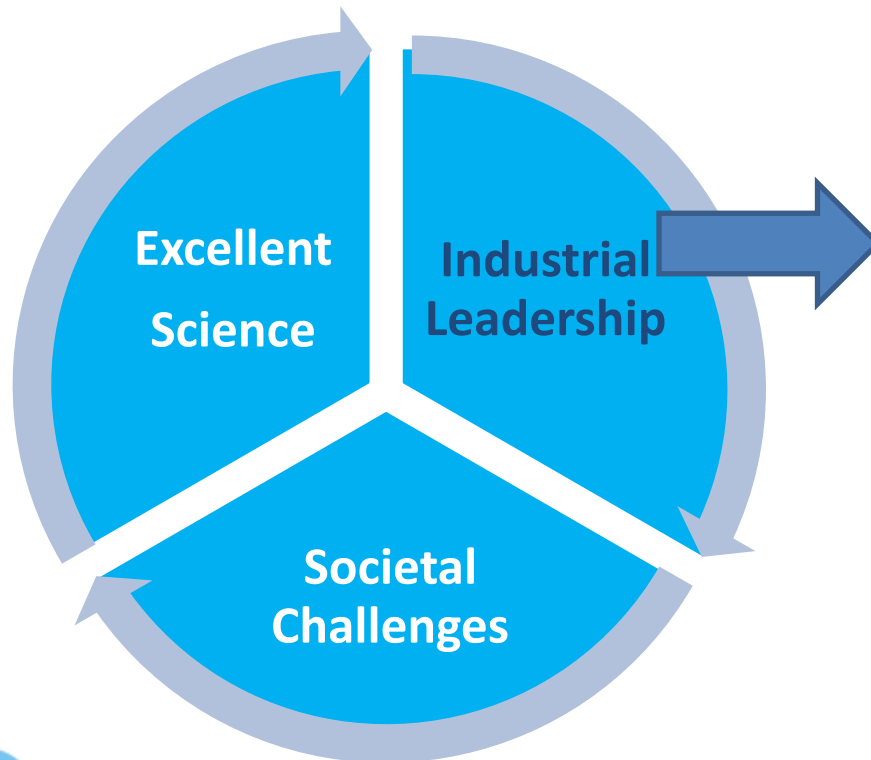
Outline



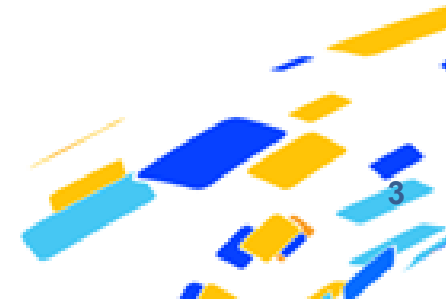
1. General Overview of NPM topic in the H2020 Work programme
2. Experiences in successful projects (EU-UA)
3. Q&A
4. Decision about the specific open call for the exercise /Forming of 2 groups



Horizon 2020 refers to the EU Framework Programme for Research and Innovation (2014-2020). It is the successor of the Seventh Framework Programme for Research and Technical Development (FP7), the Competitiveness and Innovation Framework Programme (CIP) and the European Institute of Innovation and Technology (EIT)

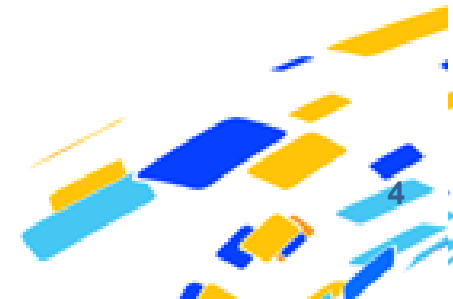


Nanotechnologies, Advanced Materials and Production (NMP) - covers all aspects of the nanotech and advanced materials research.



Priority II: Industrial Leadership

Leadership in enabling and industrial technologies (LEITs) (ICT, nanotechnologies, materials, biotechnology, manufacturing, space)	17,6 %
Access to risk finance <i>Leveraging private finance and venture capital for research and innovation</i>	3,69 %
Innovation in SMEs <i>Fostering all forms of innovation in all types of SMEs</i>	0,8 %
22,09 %	



Open calls for proposals with NMP topics – H2020



=> Call for Nanotechnologies, Advanced Materials and Production



HORIZON 2020 WORK PROGRAMME* 2014 – 2015

*5. Leadership in enabling and industrial technologies
Nanotechnologies, Advanced Materials, Biotechnology and Advanced
Manufacturing and Processing*

***Work programme** means, in the context of Horizon 2020, the document adopted by the European Commission for the implementation of a specific programme.



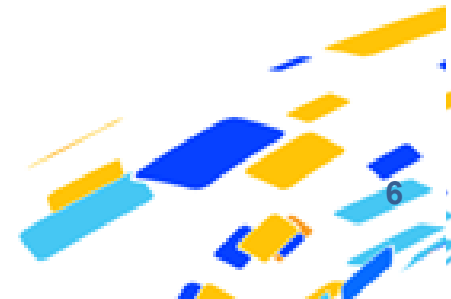
Call for Nanotechnologies, Advanced Materials and Production



- ✓ Mix of Research & Innovation, Innovation and CSA topics
- ✓ Involving partners from Multiple Countries
- ✓ Some of 'NMP' topics = 1 or 2 stage = always check details/deadlines

✓ DIRECT LINK:

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2014_2015/main/h2020-wp1415-leit-nmp_en.pdf



Structure of the H2020 call:

Structure reflects the challenge-based approach: 3 key features

- **Specific Challenge**

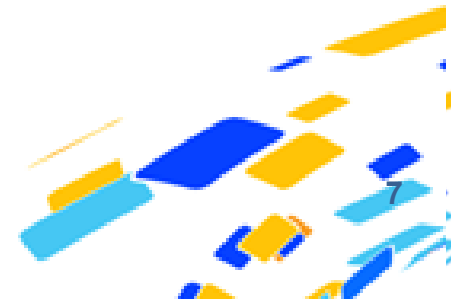
sets context, problem to be addressed, why intervention is needed

- **Scope**

outlines the “problem” to be addressed, specifies the focus and the boundaries of the potential action

- **Expected Impact**

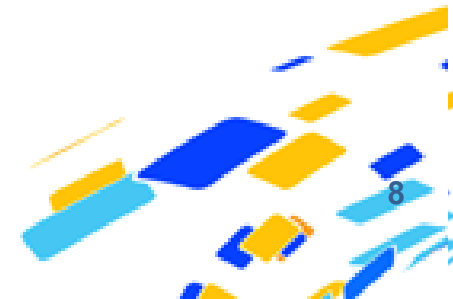
describes the key elements of what is expected to be achieved in relation to the specific challenge



=> Topic area: Bridging the gap between nanotechnology research and markets

Topics:

- **NMP 1 – 2014: Open access pilot lines for cost-effective nanocomposites**
- **NMP 2 – 2015: Integration of novel nanomaterials into existing production lines**
- **NMP 3 – 2015: Manufacturing and control of nanoporous materials**
- **NMP 4 – 2014: High definition printing of multifunctional materials**
- **NMP 5 – 2014: Industrial-scale production of nanomaterials for printing applications**
- **NMP 6 – 2015: Novel nanomaterials and nanocapsules**
- **NMP 7 – 2015: Additive manufacturing for table-top nanofactories**



=> Topic area: Nanotechnology and Advanced Materials for more effective Healthcare

Topics:

- **NMP 8 – 2014: Scale-up of nanopharmaceuticals production**
- **NMP 9 – 2014: Networking of SMEs in the nano-biomedical sector**
- **NMP 10 – 2014: Biomaterials for the treatment of diabetes mellitus**
- **NMP 11 – 2015: Nanomedicine therapy for cancer**
- **NMP 12 – 2015: Biomaterials for treatment and prevention of Alzheimer's disease**

=> Topic area: Nanotechnology and Advanced Materials for low-carbon energy technologies and Energy Efficiency

Topics:

- **NMP 13 – 2014: Storage of energy produced by decentralised sources**
- **NMP 14 – 2015: ERA-NET on Materials (including Materials for Energy)**
- **NMP 15 – 2015: Materials innovations for the optimisation of cooling in power plants**
- **NMP 16 – 2015: Extended in-service life of advanced functional materials in energy technologies (capture, conversion, storage and/or transmission of energy)**
- **NMP 17 – 2014: Post-lithium ion batteries for electric automotive applications**

=> Topic area: Exploiting the cross-sector potential of Nanotechnology and Advanced materials to drive competitiveness and sustainability

- Boosting European industry competitiveness and contributing to a sustainable economy
- Enabling multi-sectorial potential, by developing and advancing technological readiness of solutions with break-through potential.
- International cooperation particularly appropriate.

Topics:

- **NMP 18 – 2014: Materials solutions for use in the creative industry sector**
- **NMP 19 – 2015: Materials for severe operating conditions, including added-value functionalities**
- **NMP 20 – 2014: Widening materials models**
- **NMP 21 – 2014: Materials-based solutions for the protection or preservation of European cultural heritage**
- **NMP 22 – 2015: Fibre-based materials for non-clothing applications**
- **NMP 23 – 2015: Novel materials by design for substituting critical materials**
- **NMP 24 – 2015: Low-energy solutions for drinking water production**
- **NMP 25 – 2014/2015: Accelerating the uptake of nanotechnologies, advanced materials or advanced manufacturing and processing technologies by SMEs**

=> Topic area: Safety of nanotechnology-based applications and support for the development of regulation

Topics:

- **NMP 26 – 2014: Joint EU & MS activity on the next phase of research in support of regulation “NANOREG II”**
- **NMP 27 – 2014: Coordination of EU and international efforts in safety of nanotechnology**
- **NMP 28 – 2014: Assessment of environmental fate of nanomaterials**
- **NMP 29 – 2015: Increasing the capacity to perform nano-safety assessment**
- **NMP 30 – 2015: Next generation tools for risk governance of nanomaterials**

=> Topic area: Addressing generic needs in support of governance, standards, models and structuring in nanotechnology, advanced materials and advanced manufacturing and processing

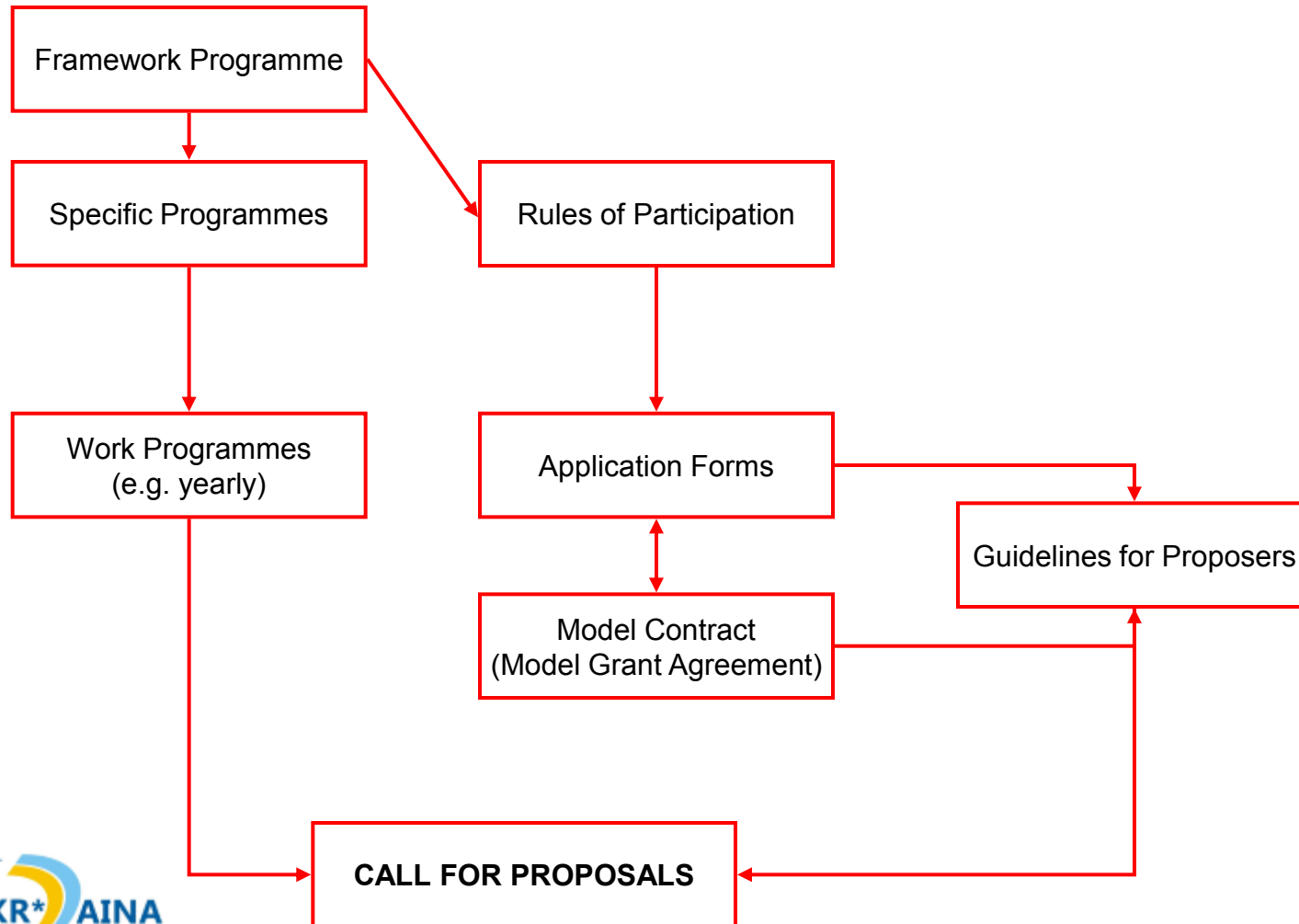
Topics:

- **NMP 31 – 2014: Novel visualisation tools for enhanced nanotechnology awareness**
- **NMP 32 – 2015: Societal engagement on responsible nanotechnology**
- **NMP 33 – 2014: The Materials "Common House"**
- **NMP 34 – 2014: Networking and sharing of best practices in management of new advanced materials through the eco-design of products, eco-innovation, and product life cycle management**
- **NMP 35 – 2014: Business models with new supply chains for sustainable customer-driven small series production**
- **NMP 36 – 2014: Facilitating knowledge management, networking and coordination in NMP**
- **NMP 37 – 2014: Practical experience and facilitating combined funding for large-scale RDI initiatives**
- **NMP 38 – 2014/2015: Presidency events**
- **NMP 39 – 2014: Support for NCPs**
- **NMP 40 – 2015: Support for clustering and networking in the micro- & nanofluidics community**

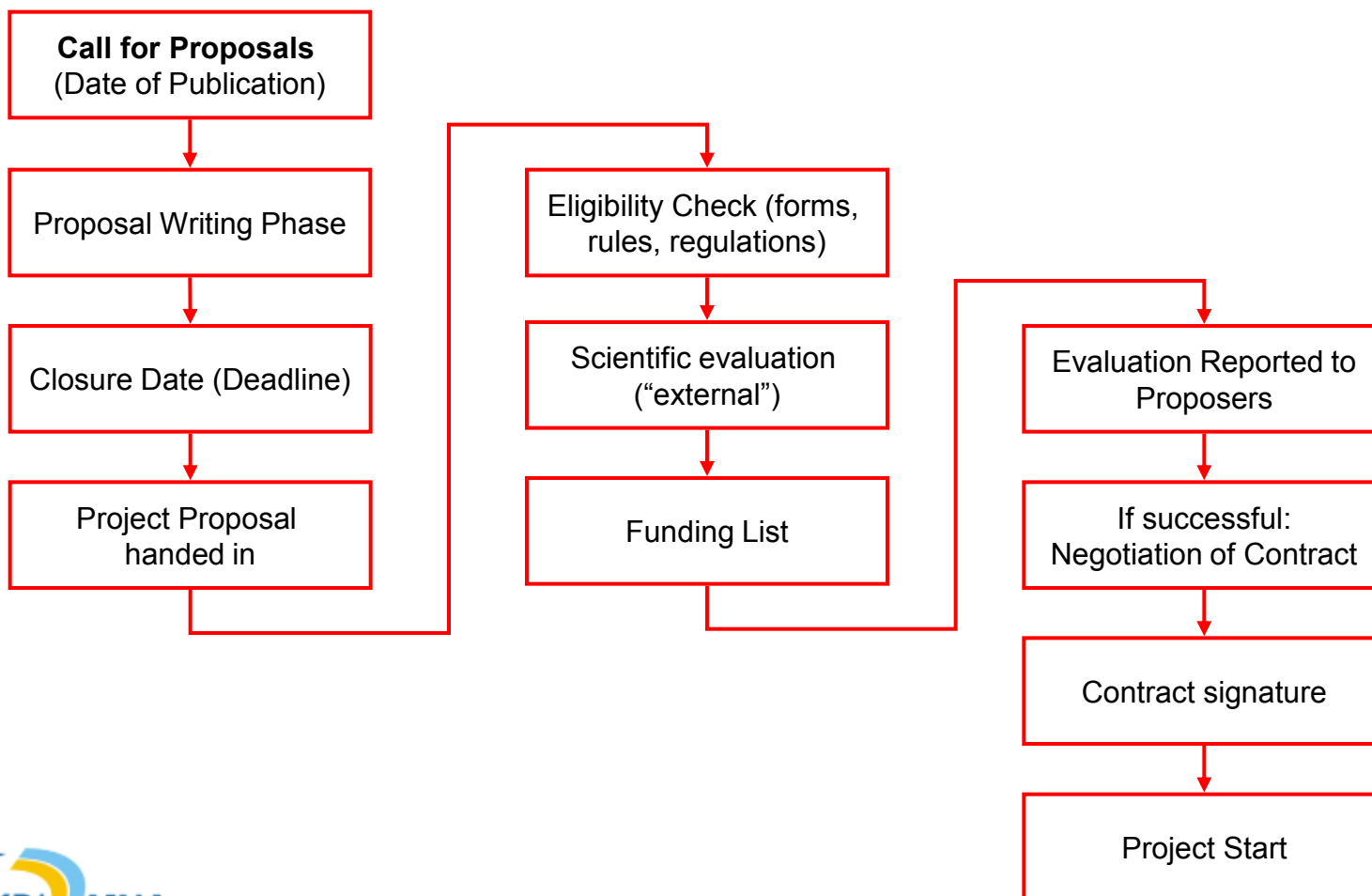
“drafting a project proposal”

- How often do you need to do it to be successful?
- How many pages to you have to write?
- How much time is needed?
- How many people are involved?

Before the call for proposals

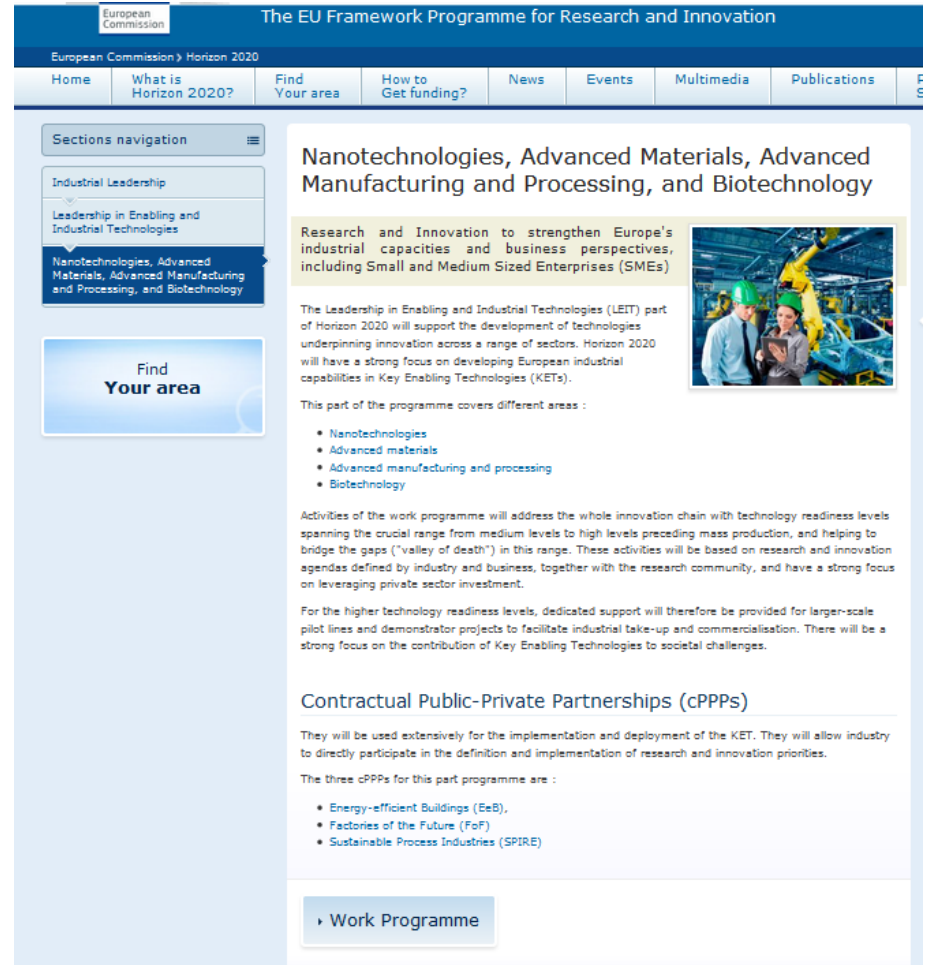


Answering a call for proposals



Fining a call

H2020 NMP webiste:



The screenshot shows the European Commission website for Horizon 2020. The main navigation bar includes 'Home', 'What is Horizon 2020?', 'Find Your area', 'How to Get funding?', 'News', 'Events', 'Multimedia', and 'Publications'. The 'Find Your area' button is highlighted in the left sidebar. The main content area is titled 'Nanotechnologies, Advanced Materials, Advanced Manufacturing and Processing, and Biotechnology'. It features a sub-header 'Research and Innovation to strengthen Europe's industrial capacities and business perspectives, including Small and Medium Sized Enterprises (SMEs)'. Below this, there is a paragraph about the LEIT part of Horizon 2020, a list of four areas (Nanotechnologies, Advanced materials, Advanced manufacturing and processing, and Biotechnology), and a section on Contractual Public-Private Partnerships (cPPPs) with a list of three types (Energy-efficient Buildings (EeB), Factories of the Future (FoF), and Sustainable Process Industries (SPIRE)). A 'Work Programme' button is visible at the bottom of the page.

<http://ec.europa.eu/programmes/horizon2020/en/h2020-section/nanotechnologies-advanced-materials-advanced-manufacturing-and-processing-and>

Searching tool:

European Commission > Research & Innovation > Participant Portal > Calls

HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE EXPERTS SUPPORT Search PP LOGIN REGISTER

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Consumer Programme

FP7 & CIP Programmes 2007-2013
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Call Updates
Other Funding Opportunities

3 Results
Keyword Search: SEARCH
If you don't find your topic, you can also use the [free text search](#).

Status
 Open
 Closed
 Forthcoming

Sort by
 Title
 Call Id
 Publication Date
 Deadline Date

Topic: [Accelerating the uptake of nanotechnologies, advanced materials or advanced manufacturing and processing technologies by SMEs:NMP-25-2014](#)
Specific challenge: Research results should be taken up by industry, harvesting the hitherto

Call title: [Horizon 2020 dedicated SME Instrument - Phase 2 2014](#) **Status:** Open
Call identifier: [H2020-SMEINST-2-2014](#) **Deadline:** 17-12-2014

Topic: [Accelerating the uptake of nanotechnologies, advanced materials or advanced manufacturing and processing technologies by SMEs:NMP-25-2014-1](#)
Specific challenge: Research results should be taken up by industry, harvesting the hitherto

Call title: [Horizon 2020 dedicated SME Instrument - Phase 1 2014](#) **Status:** Open
Call identifier: [H2020-SMEINST-1-2014](#) **Deadline:** 17-12-2014

Topic: [Post-lithium ion batteries for electric automotive applications:NMP-17-2014](#)
Specific challenge: The electrification of road transport is a key towards sustainable and

Call title: [Call for Nanotechnologies, Advanced Materials and Production](#) **Status:** Open
Call identifier: [H2020-NMP-GV-2014](#) **Deadline:** 07-10-2014

http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/search/search_topics.html

Group Work

- Decision about the specific open call for the exercise /Forming of 2 groups

THANK YOU FOR YOUR ATTENTION!

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