

Informativni dan Obzorje 2020

GZS, Ljubljana
9. oktober 2015

NMBP: Nanotehnologije, napredni materiali, biotehnologija, sodobne proizvodnje in predelave

NMBP: Nanotechnologies, Advanced Materials, Biotechnology, Advanced Manufacturing and Processing



Doroteja Zlobec, NMP NCP

Ministrstvo za izobraževanje, znanost in šport
Direktorat za znanost



I. ODLIČNA ZNANOST

1. *Evropski raziskovalni svet (ERC)*
2. *Prihodnje in nastajajoče tehnologije (FET)*
3. *Ukrepi Marie Curie za razvoj spretnosti, usposabljanje in poklicni razvoj*
4. *Evropske raziskovalne infrastrukture*

II. VODILNI POLOŽAJ V INDUSTRIJI

1. *Vodilni položaj na področju ključnih podpornih in industrijskih tehnologij*

Leadership in enabling and industrial technologies (LEIT)

(i) IKT (vključno z mikro in nano elektroniko in fotoniko)

(ii) Nanotehnologije

(iii) Napredni materiali

(iv) Biotehnologija

(v) Sodobna proizvodnja & predelava

(vi) Vesolje

2. *Dostop do tveganega kapitala*
3. *Inovacije v MSP*

III. DRUŽBENI IZZIVI

1. *Zdravje, demografske spremembe in dobro počutje*
2. *Zanesljiva preskrba s hrano, trajnostno kmetijstvo, morsko in pomorsko raziskovanje ter biogospodarstvo*
3. *Zanesljiva, čista in učinkovita energija*
4. *Pametni, zeleni in integrirani prevoz*
5. *Podnebni ukrepi, učinkovita raba virov in surovine*
6. *Vključujoče, inovativne in varne družbe*

**INDUSTRIJSKI
STEBER!**

- EVROPSKI INŠTITUT ZA INOVACIJE IN TEHNOLOGIJO (EIT)
- NEJEDRSKE NEPOSREDNE DEJAVNOSTI SKUPNEGA RAZISKOVALNEGA SREDIŠČ

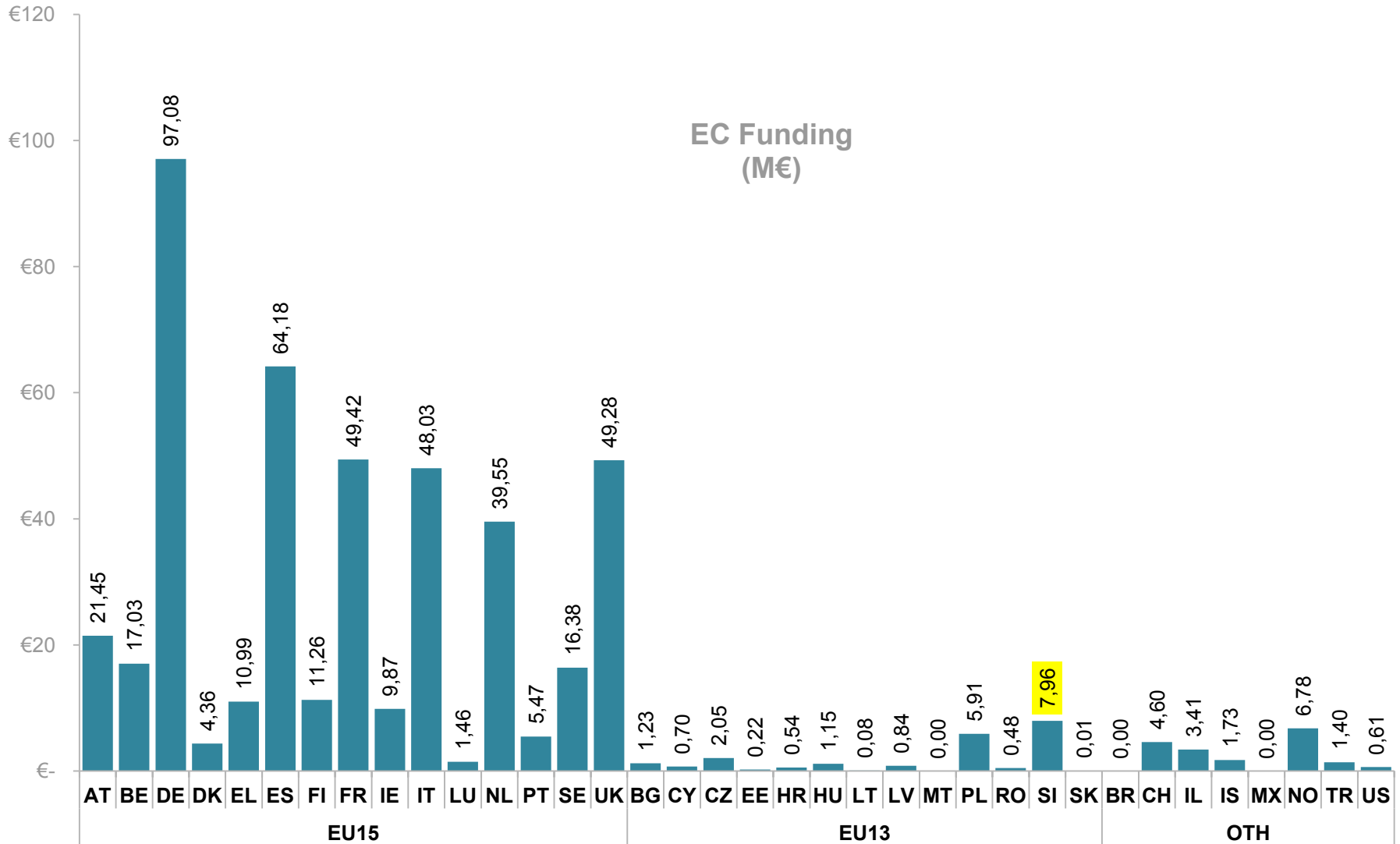


Rezultati razpisov 2014

RAZPIS	SI REZULTATI
H2020-NMP-SPIRE-2014	1 projekt, 1 partner
H2020-NMP-FOF-2014	4 projekti, 8 partnerjev
H2020-NMP-EEB-2014	/
H2020-NMP-NMP-PILOTS-2014	1 projekt, 1 partner
H2020-NMP-NMP-CSA-2014	1 projekt, 1 partner
H2020-NMP-LEIT-BIO-2014	1 projekt, 2 partnerja 1 koordinator
H2020-SILC-II-2014	/
H2020-NMP-2014-two-stage	4 projekti, 4 partnerji
H2020-NMP-GV-2014	1 projekt, 1 partner 1 koordinator



Skupni rezultati za NMBP v 2014





Rezultati razpisov 2015

RAZPIS	SI REZULTATI
H2020-NMP-SPIRE-2015	2 projekta, 2 partnerja
H2020-NMP-FOF-2015	/ (brez ICT)
H2020-NMP-EEB-2015	1 projekt, 2 partnerja (+ 2 RL?)
H2020-NMP-NMP-PILOTS-2015	1 projekt, 3 partnerji
H2020-NMP-NMP-CSA-2015	ni bilo prijav s strani SI
H2020-NMP-LEIT-BIO-2015	končana samo 1. faza razpisa
H2020-NMP-2015-two-stage	končana samo 1. faza razpisa
H2020-NMP- ERA-NET-2015*	1 partner

*Upravičenci so financerske organizacije: M-ERA.NET 2, MIZŠ



NMBP teme v delovnem programu 2016-2017

Statistični podatki:

- 80 tem (40 v 2016 in 40 v 2017) + SME + FTI
- 516,17 mio € 2016
- 561,80 mio € 2017
- del delovnega programa:

05ii. LEIT NMBP 2016-2017

Draft Horizon 2020 Work Programme 2016-2017 in the area of Nanotechnologies, Advanced Materials, Biotechnology and Manufacturing an Processes

17. CROSS CUTTING 2016-2017

Draft Horizon 2020 Work Programme 2016 – 2017
in the area of Cross-cutting activities (Focus Areas)



Roki za oddajo predlogov

2016

Odprtje razpisov: 15.10.2015

Rok oddaje:

- dvostopenjski postopki: **8.12.2015!** (druga faza: 24.5.2016)
- enostopenjski postopki: **21.1.2016**

2017

Odprtje razpisov: 10.5.2016 (dvostopenjski)

20.9.2016 (enostopenjski)

Rok oddaje:

- dvostopenjski postopki: 27.10.2016 (druga faza: 4.5.2017)
- enostopenjski postopki: 19.1.2017



05ii. LEIT NMBP 2016-2017

- CALL FOR NANOTECHNOLOGIES, ADVANCED MATERIALS, BIOTECHNOLOGY AND PRODUCTION (NMP)
 - ADVANCED MATERIALS AND NANOTECHNOLOGIES FOR HIGH ADDED VALUE PRODUCTS AND PROCESS INDUSTRIES
 - GREEN VEHICLES (PPP-GV)
 - ADVANCED MATERIALS AND NANOTECHNOLOGIES FOR HEALTHCARE
 - ECO-DESIGN AND NEW SUSTAINABLE BUSINESS MODELS
 - SCIENCE-BASED RISK ASSESSMENT AND MANAGEMENT OF NANOTECHNOLOGIES, ADVANCED MATERIALS AND BIOTECHNOLOGIES
 - INNOVATIVE AND RESPONSIBLE GOVERNANCE OF NEW AND CONVERGING ENABLING TECHNOLOGIES
- CALL FOR BIOTECHNOLOGY (LEIT-BIO)
- CALL FOR ENERGY-EFFICIENT BUILDINGS (EEB)



17. CROSS CUTTING 2016-2017

- PILOTS
- FACTORIES OF THE FUTURE (FOF)
- SUSTAINABLE PROCESS INDUSTRIES (SPIRE)



Javno-zasebna partnerstva

Private-Public Partnerships (PPPs)

Skupne tehnološke pobude

Joint Technology Initiatives (JTI)

- Innovative Medicines (IMI)
- Clean Sky
- Single European Sky ATM Research (SESAR)
- Fuel Cells and Hydrogen(FCH)
- Electronic Components and Systems (ECSEL – prej ARTEMIS + ENIAC)
- Bio-based Industries (BBI)

Pogodbena javno-zasebna partnerstva

Contractual PPPs

- **Factory of the Future (FoF)**
- **Energy-efficient Buildings (EeB)**
- **Green Vehicles (EGVI)**
- **Sustainable Process Industry (SPIRE)**
- Future internet (5G)
- Robotics
- Photonics
- High Performance Computing



Povezave do strateških dokumentov (PPP)



Sustainable Process Industry through
Resource and Energy Efficiency

SPIRE - Trajnostna predelovalna industrija

<http://www.spire2030.eu>



EUROPEAN FACTORIES OF THE FUTURE
RESEARCH ASSOCIATION

a MANUFUTURE initiative

FoF – Tovarne prihodnosti

<http://www.efra.eu>



Energy Efficient Buildings

EeB – Energijsko učinkovite zgradbe

<http://www.e2b-ei.eu>



EGVI
European Green
Vehicles Initiative

EGVI – Zelena vozila

<http://www.egvi.eu>



Fast Track to Innovation Pilot

THE ULTIMATE BOOST FOR OUTSTANDING BUSINESS INNOVATORS WITH A NEED FOR SPEED...

PREPARE YOUR PROPOSAL

Build your industry-intensive consortium*
 minimum 3 partners - maximum 5 partners
 (all based in the EU and / or in Horizon 2020
 associated countries)

Proposal



Outstanding Business Innovation Concept
 (high-readiness level / TRL 6, meaning
 demonstrated in a relevant environment)

Continuous open call
 until end 2016

6 months time-to-grant

DEVELOP YOUR INNOVATION

Receive an EU grant of EUR 1 million to 3 million
 (70% of funding, 100% of funding for non-profit entities)

From Mature R&D
 Demonstration
 Market-Oriented
 R&D
 to Market-Mature Innovation

12-24 months for implementation

HIT THE MARKET!

Start your commercial activities



The Market
 Market-Maturity to Market
 Launch



Market-ready result
 (finished product, service,
 process/ TRL 9)

At most 36 months from grant to market

... AND EAGER TO COMPETE ON GLOBAL MARKETS...!

ACTIVITIES SUPPORTED

Systems validation in real working conditions – Testing – Piloting – Business model validation – Standard setting – Pre-normative research – EU quality label

*In a consortium with 3 or 4 partners, at least 2 should be industry, and in a consortium with 5 partners, at least 3; alternatively at least 60% of the project budget should be allocated to industry (i.e. private for profit entities)



Ocenjevanje

Splošno (če ni drugače določeno v razpisu!!!):

- Excellence / znanstvena odličnost (3t/5t)
- Impact / učinek (3t/5t)
- Implementation/ izvedba (3t/5t)

- Skupno najmanj 10t/15t



Stopnja tehnološke pripravljenosti Technology Readiness Level (TRL)

TRL	1	2	3	4	5	6	7	8	9
	Basic Principles Observed	Technology Concept Formulated	Experimental Proof of Concept	Technology Validation In lab	Tech valid. In relevant environment	Demonstration In relevant environment	Demonstration In operational environment	System complete and qualified	Successful mission operations

GENERAL ANNEXES:

- TRL 1 – basic principles observed
- TRL 2 – technology concept formulated
- TRL 3 – experimental proof of concept
- TRL 4 – technology validated in lab
- TRL 5 – technology validated in relevant environment (industrially relevant environment in the case of key enabling technologies)
- TRL 6 – technology demonstrated in relevant environment (industrially relevant environment in the case of key enabling technologies)
- TRL 7 – system prototype demonstration in operational environment
- TRL 8 – system complete and qualified
- TRL 9 – actual system proven in operational environment (competitive manufacturing in the case of key enabling technologies; or in space)



Poslovni primer in strategija izkoriščanja rezultatov projekta

- Poslovni primer naj prikaže pričakovane učinke projekta:
 - Izboljšane tržne priložnosti (opis ciljnega trg, zadovoljitev potreb trga, cena, konkurenčnost,...)
 - Večje kapacitete proizvodnje
 - Povečanje delovnih mest

- **Strategije izkoriščanja**

Izboljšanje produkta, materiala, robustnost, realizacija, upoštevanje vrednostne verige, možnost pilotne linije, scale up, standardizacija in regulacija, sposobnost financiranja po končanem projektu

- [Clarification for NMP+B project proposers and evaluators on “ Business Plan” and “Synergies with ESIF”](#)



Načelo enakosti spolov v razpisih H2020

Spolna uravnoteženost v raziskovalnih skupinah

- Ocenjevalci
- Rangiranje projektov z enakim številom točk

Upoštevanje spolne dimenzije v raziskovalnem kontekstu

- „Topics with a Gender Dimension“
- Znanstvena kvaliteta
- Učinek (na trgu)

PRIMERI:

- Projekt [Gendered Innovations](#)
- [Gender and Nanosciences, nanotechnologies, materials and new production technologies](#)



H2020 Information Day on Research PPPs 21 October 2014

Home > Public Private Partnerships in research > **H2020 Information Day for PPPs 21 October 2014**

Information Days on the Research PPPs on Factories of the Future, Energy-efficient Buildings, Green Vehicles and Sustainable Process Industry Brussels, 21 October 2014



An Information Day on the Research PPPs took place on 21 October 2014 in Brussels.

The aim of the event was to give the research community an overview of ongoing activities, and to support the preparation of proposals for the 2015 calls.

The info day offered plenty of opportunities for networking.

Listen to the recordings of the different sessions :

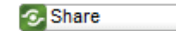
- [Plenary session \(9:30 to 12:00\)](#)
- Parallel sessions (13:30 – 15:00 and 15:30 - 18:00)
 - [Factories of the Future](#)
 - [Energy-efficient Buildings](#)
 - [Sustainable Process Industry](#)
 - [European Green Vehicles Initiative](#)

[Privacy Statement](#) (PDF version, 137KB)
[Participants list](#) (PDF version, 250KB)



**Predstavitev
 razpisnih tem**

**Projektne ideje,
 predstavitev
 partnerjev**



- Energy-efficient Buildings (EeB)
- Factories of the Future (FoF)
- Sustainable Process Industry (SPIRE)
- Other PPPs
- Meetings and workshops
- H2020 Information Day for PPPs
 21 October 2014**
 - Programme
 - Practical information ←
 - Brokerage activities
 - Participants
- H2020 Information Day for PPPs' 16-17 December 2013
- e-Library

http://ec.europa.eu/research/industrial_technologies/information-day-for-ppp-2014_en.html



Koristne povezave

- MIZŠ in Obzorje 2020: <http://www.mizs.gov.si/si/obzorje2020>
- Participant portal:
<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>
- IPR HELPDESK: <https://www.iprhelpdesk.eu>
- NMP TeAM: <http://kpk.migomedia.com/welcome>

Nacionalna kontaktna oseba
Doroteja Zlobec

NCP mrežo tvorijo predstavniki



REPUBLIKA SLOVENIJA
MINISTRSTVO ZA GOSPODARSKI
RAZVOJ IN TEHNOLOGIJO



REPUBLIKA SLOVENIJA
MINISTRSTVO ZA INFRASTRUKTURO



REPUBLIKA SLOVENIJA
MINISTRSTVO ZA IZOBRAŽEVANJE,
ZNANOST IN ŠPORT

SPIRIT SLOVENIJA
JAVNA AGENCIJA

I FEEL SLOVENIA



REPUBLIKA SLOVENIJA
MINISTRSTVO ZA OKOLJE IN PROSTOR