Nanotehnologije, napredni materiali, biotehnologija ter sodobna proizvodnja in predelava (NMP+B)

Predstavitev razpisov 2014 – 2015

Doroteja Zlobec

Ministrstvo za izobraževanje, znanost in šport

OBZORJE 2020

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

Delovni program NMP+B

Delovni program NMP+B 2014/2015

- 16 razpisov v 2 letih
- SME instrument
- 75 tem
- 1 milijarda EUR

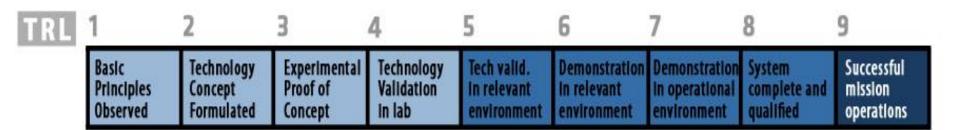
Projekti v H2020:

- usmerjeni v rezultate
- bližje aplikacijam
- prikazana pot za industrijsko in komercialno izvedbo

V vlogi projekta naj bo opisano:

- Izkoriščanje in/ali poslovni načrt
- Angažiranje partnerjev vzdolž celotne industrijske verige
- Standardizacija
- IPR/PIL
- Razširjanje znanja
- Podpora izobraževanju in usposabljanju
- Pričakovani učinki

Technology Readiness Level (TRL) Stopnja tehnološke pripravljenosti



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)

Public-Private Partnerships (PPP) Javno –zasebna partnerstva

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)

Novo v H2020:

Bio-based Industries (BBI)

Contractual PPPs

- Factory of the Future (FoF)
- Energy-efficient Buildings (EeB)
- Green Vehicles (EGVI)
- Future internet (5G)

Novo v H2020:

- Sustainable Process Industry (SPIRE)
- Robotics
- Photonics
- High Performance Computing

Participant Portal

https://ec.europa.eu/research/participants/portal/page/home

- Razpisna dokumentacija
- Dokumenti Obzorja 2020
- Podpora
- Evalvatorji
- Elektronska prijava



RESEARCH & INNOVATION

Participant Portal

European Commission > Research & Innovation > Participant Portal > Home

HOME

FUNDING OPPORTUNITIES

HOW TO PARTICIPATE

EXPERTS

SUPPORT *







Horizon 2020 Funding

Starting from 1/1/2014

On this site you can find and secure funding for research & innovation projects under the following EU programmes:

- . 2014-2020 Horizon 2020 research and innovation framework programme
- . 2007-2013 7th research framework programme (FP7) and Competitiveness & Innovation Programme (CIP)

Non-registered users

- · search for funding
- · read the funding guide & download the legal documents
- · check if an organisation is already registered
- · contact our support services or check our FAQs

Registered users

- · submit your proposal
- · sign the grant
- · manage your project throughout its lifecycle





FUNDING **OPPORTUNITIES**



HOW TO PARTICIPATE



WORK AS AN **EXPERT**



MY PERSONAL AREA



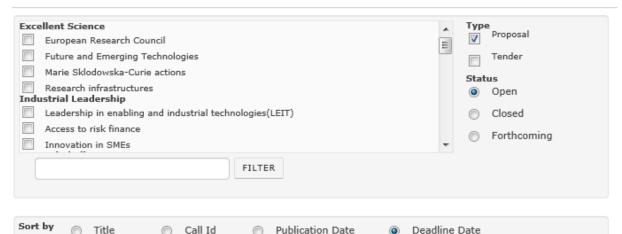
INFORMATION AND SUPPORT

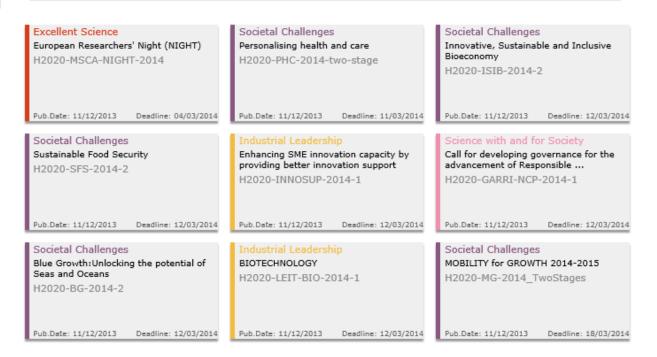


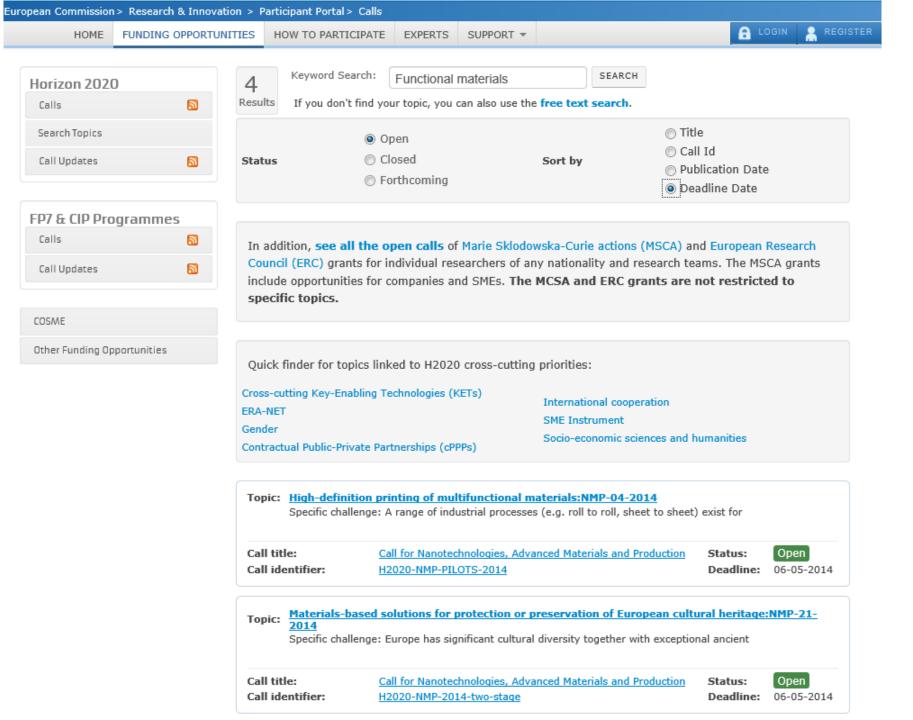


Call Updates

Horizon 2020







<u>Specific challenge:</u> Electricity will increasingly be produced from sources which are geographically decentralised and/or are intermittent in their nature. There is thus an urgent need to increase the storage of energy, in order to improve on the stability of weak grids, to be able to intentionally island the electricity distribution, and to ensure the continuity of energy supply.

Scope: Proposals should develop innovative materials solutions that will make storage technologies more available, better performing and more cost effective. The solutions should exploit synergies between technologies as much as possible, contributing to the development of hybrid systems. Support from integrated computational/experimental approaches is envisaged. Activities addressing enhanced performance of chemical storage of hydrogen will be covered by the Fuel Cell and Hydrogen Joint Undertaking, and hence outside the scope of this topic.

For this topic, proposals should include an outline of the initial exploitation and business plans. Wherever possible, proposers could actively seek synergies, including possibilities for cumulative funding, with relevant national / regional research and innovation programmes and/or European Structural and Investment Funds in connection with smart specialisation strategies. Exploitation plans, outline financial arrangements and any follow-up should be developed during the project.

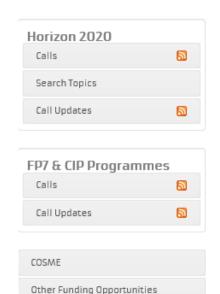
Activities expected to focus on Technology Readiness Level 5.

The Commission considers that proposals requesting a contribution from the EU between EUR 6 and 8 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

Expected impact:

- Alleviation of geographical constraints for low carbon energy production, with increased efficiencies at a reduced cost;
- Reduction of the barriers to increase the penetration rate of distributed and /or intermittent renewable energy sources;
- Realisation of a new generation of energy technologies that will support the competitiveness of European industries through the realisation of a new generation of storage technologies based on advanced materials;
- Implementation of relevant parts of the Materials Roadmap Enabling Low Carbon Energy Technologies (SEC (2011) 1609), and relevant objectives of the SET-Plan.

Type of action: Research & Innovation Actions





Further reference documents for preparing your proposal

Please read carefully all provisions below before the preparation of your application.

- List of countries and applicable rules for funding: described in part A of the General Annexes of the General Work
 Programme.
- Eligibility and admissibility conditions: described in part B and C of the General Annexes of the General Work
 Programme, with the following exceptions:

Proposals for Research & Innovation and for Innovation Actions should include an outline of the initial exploitation and business plans, which will be developed further in the proposed project.

3. Evaluation

3.1 Evaluation criteria and procedure, scoring and threshold: described in part H of the General Annexes of the General Work Programme, with the following exceptions:

For single-stage and second-stage evaluations, the threshold for the criteria Excellence and Impact will be 4. The overall threshold, applying to the sum of the three individual scores, will be 12.

In case of equal overall scores in the ranked list, the priority order of proposals will be established in accordance with part H of the General Annexes, except that proposals will be ranked on the basis of individual scores for the Impact criterion before the Excellence criterion.

NMP+B razpisi 2014

Oznaka razpisa	Predvidena sredstva [M EUR]	Št. tem	M EUR / 1 temo (izračun!)
H2020-NMP-PILOTS-2014	66,2	4	16,6
H2020-NMP-2014-two-stage	114,2	8	14,3
H2020-NMP-GV-2014	16,0	1	16,0
H2020-NMP-CSA-2014	12,5	9	1,4
H2020-EeB-2014	49,5	4	12,8
H2020-FoF-2014	116,0	7	16,6
H2020-SPIRE-2014	60,3	4	15,1
H2020-LEIT-BIO-2014-1	47,9	3	16,0
H2020-SMEINST-2014			
Skupaj 8 razpisov	482,6 M EUR	40	

Call for Nanotechnologies, Advanced Materials and Production

H2020-NMP-PILOTS-2014

Deadline: 6/5/2014

NMP-01-2014	Open access pilot lines for cost-effective nanocomposites	RIA
NMP-05-2014	Industrial-scale production of nanomaterials for printing applications	IA
NMP-08-2014	Scale-up of nanopharmaceuticals production	RIA
NMP-04-2014	High-definition printing of multifunctional materials	IA

Call for Nanotechnologies, Advanced Materials and Production

H2020-NMP-2014- two-stage

Deadline: 6/5/2014

Stage 2: 7/10/2014

NMP-10-2014	Biomaterials for the treatment of diabetes mellitus	RIA
NMP-13-2014	Storage of energy produced by decentralised sources	RIA
NMP-18-2014	Materials solutions for use in the creative industry sector	IA
NMP-20-2014	Widening materials models	RIA
NMP-21-2014	Materials-based solutions for protection or preservation of European cultural heritage	IA
NMP-26-2014	Joint EU & MS activity on the next phase of research in support of regulation 'NANOREG II'	RIA
NMP-28-2014	Assessment of environmental fate of nanomaterials	RIA
NMP-35-2014	Business models with new supply chains for sustainable customer-driven small series production	IA

Call for Nanotechnologies, Advanced Materials and Production

H2020-NMP-GV-2014

Deadline: 7/10/2014

NMP-17-2014 Post-lithium ion batteries for electric automotive applications

RIA

Call for Nanotechnologies, Advanced Materials and Production

H2020-NMP-CSA-2014

Deadline: 6/5/2014

NMP-09-2014	Networking of SMEs in the nano-biomedical sector	CSA
NMP-27-2014	Coordination of EU and international efforts in safety of	CSA
	nanotechnology	
NMP-31-2014	Novel visualization tools for enhanced nanotechnology awareness	CSA
NMP-33-2014	The materials 'common house'	CSA
NMP-36-2014	Facilitating knowledge management, networking and coordination in NMP	CSA
NMP-37-2014	Practical experience and facilitating combined funding for large- scale RDI initiatives	CSA
NMP-38-2014	Presidency events	CSA
NMP-39-2014	Support for NCPs	CSA
NMP-34-2014	Networking and sharing of best practises in management of new advanced materials through the eco-design of products, eco-innovation, and product life cycle management	CSA

BIOTECHNOLOGY

H2020-LEIT-BIO-2014-1

Deadline: 12/3/2014

Stage 2: 26/6/2014

BIOTEC-1-2014	Synthetic biology – construction of organisms for new products and processes	RIA
BIOTEC-3-2014	Widening industrial application of enzymatic processes	IA
BIOTEC-4-2014	Downstream processes unlocking biotechnological transformations	IA

Call for Energy-efficient Buildings

H2020-EeB-2014

Deadline: 20/3/2014

EeB-01-2014	Materials for building envelope	IA
EeB-02-2014	Adaptable envelopes integrated in building refurbishment projects	RIA
EeB-03-2014	Development of new self-inspection techniques and quality check methodologies for efficient construction processes	RIA
EeB-04-2014	Support for the enhancement of the impact of EeB PPP projects	CSA

Call for Factories for the Future

H2020-FoF-2014

Deadline: 20/3/2014

FoF-01-2014	Process optimisation of manufacturing assets (ICT)	RIA, SA
FoF-02-2014	Manufacturing processes for complex structures and geometries	RIA
	with efficient use of material	
FoF-03-2014	Global energy and other resources efficiency in manufacturing	RIA
	enterprises	
FoF-04-2014	Developing smart factories that are attractive to workers	IA
FoF-05-2014	Innovative Product-Service design using manufacturing intelligence	RIA
FoF-06-2014	Symbiotic human-robot collaboration for safe and dynamic multimodal manufacturing systems	IA
FoF-07-2014	Support for the enhancement of the impact of FoF PPP projects	CSA

Call for SPIRE – Sustainable Process Industres

H2020-SPIRE-2014

Deadline: 20/3/2014

SPIRE-01-2014	Integrated Process Control	RIA
SPIRE-02-2014	Adaptable industrial processes allowing the use of renewables as flexible feedstock for chemical and energy applications	IA
SPIRE-03-2014	Improved downstream processing of mixtures in process industries	IA
SPIRE-04-2014	Methodologies, tools and indicators for cross-sectorial sustainability assessment of energy and resource efficient solutions in the process industry	CSA

Horizon 2020 dedicated SME Instrument - Phase 1 2014

H2020-SMEINST-1-2014

Cut-off dates: 18/06/2014

24/09/2014

17/12/2014

NMP-25-2014-1 Accelerating the uptake of nanotechnologies, advanced SME materials or advanced manufacturing and processing technologies by SMEs

BIOTEC-5a-2014-1 SME boosting biotechnology-based industrial processes driving SME competitiveness and sustainability

Horizon 2020 dedicated SME Instrument – Phase 2 2014

H2020-SMEINST-2-2014

Cut-off dates: 09/10/2014

17/12/2014

NMP-25-2014	Accelerating the uptake of nanotechnologies, advanced	SME
	materials or advanced manufacturing and processing	
	to along logica by CNAFa	
	technologies by SMEs	
DIOTEC En 2014	CNAT be esting biotocky along those displayers by	CNAF
BIOTEC-5a-2014	SME boosting biotechnology-based industrial processes driving	SME
	competitiveness and sustainability	
	competitiveness and sustamability	

NMP+B razpisi 2015

Oznaka razpisa	Predvidena sredstva [M EUR]	Št. tem	M EUR / 1 temo (izračun!)
H2020-NMP-PILOTS-2015	66,0	4	16,5
H2020-NMP-2015-two-stage	152,0	10	15,2
H2020-NMP-ERA-NET-2015	10,0	1	10,0
H2020-NMP-CSA-2015	2,2	2	1,1
H2020-NMP-EeB-2015	64,0	4	16,0
H2020-NMP-FoF-2015	145,0	7	20,7
H2020-NMP-SPIRE-2015	77,0	4	19,3
H2020-LEIT-BIO-2015-1	29,6	2	14,8
H2020-SMEINST-2015			
Skupaj 8 razpisov	545,8 M EUR	34	

Call for Nanotechnologies, Advanced Materials and Production

H2020-NMP-PILOTS-2015

Deadline: 23/3/2015

NMP-02-2015	Integration of novel nano materials into existing production lines	IA
NMP-03-2015	Manufacturing and control of nanoporous materials	IA
NMP-06-2015	Novel nanomatrices and nanocapsules	RIA
NMP-07-2015	Additive manufacturing for tabletop nanofactories	RIA

Call for Nanotechnologies, Advanced Materials and Production

H2020-NMP-2015- two-stage

Deadline: 26/3/2015, Stage 2: 8/9/2015

NMP-11-2015	Nanomedicine therapy for cancer	RIA
NMP-12-2015	Biomaterials for treatment and prevention of Alzheimer's disease	RIA
NMP-15-2015	Materials innovations for optimisation of cooling in power plants	IA
NMP-16-2015	Extended in-service service of advanced functional materials in energy technologies	IA
NMP-19-2015	Materials for severe operating conditions, including added-value functionalities	RIA
NMP-22-2015	Fibre-based materials for non-clothing applications	IA
NMP-23-2015	Novel materials by design for substituting critical materials	RIA
NMP-24-2015	Low-energy solutions for drinking water production	IA
NMP-29-2015	Increasing the capacity to perform nano-safety assessment	RIA
NMP-30-2015	Next generation tools for risk governance of nanomaterials	RIA

Call for Nanotechnologies, Advanced Materials and Production

H2020-NMP-ERA-NET-2015

Deadline: 26/3/2015

NMP-14-2015 **ERA-NET on Materials (including Materials for Energy)**

CSA

Call for Nanotechnologies, Advanced Materials and Production

H2020-NMP-CSA-2015

Deadline: 26/3/2015

NMP-32-2015	Societal engagement on responsible nanotechnology	CSA
NMP-38-2015	Presidency events	CSA

BIOTECHNOLOGY

H2020-LEIT-BIO-2015-1

Deadline: 24/2/2015

Stage 2: 11/6/2015

BIOTEC-2-2015	New bioinformatics approaches in service of biotechnology	RIA
BIOTEC-6-2015	Metagenomics as innovation driver	RIA

Call for Energy-efficient Buildings

H2020-EeB-2015

Deadline: 9/12/2014

EeB-05-2015	Innovative design tools for refurbishing of buildings at district level	IA
EeB-06-2015	Integrated solutions of thermal energy storage for building applications	RIA
EeB-07-2015	New tools and methodologies to reduce the gap between predicted and actual energy performances at the level of buildings and blocks of buildings	IA
EeB-08-2015	Integrated approach to retrofitting of residential buildings	IA

Call for Factories for the Future

H2020-FoF-2015

Deadline: 9/12/2014

FoF-08-2015	ICT-enabled modelling, simulation, analytics and forecasting	RIA, SA
	technologies	
FoF-09-2015	ICT- Innovation for Manufacturing SMEs	CSA
FoF-10-2015	Manufacturing of custom made parts for personalised products	RIA
FoF-11-2015	Flexible production systems based on integrated tools for rapid reconfiguration of machinery and robots	IA
FoF-12-2015	Industrial technologies for advanced joining and assembly processes for multi-materials	IA
FoF-13-2015	Re-use and remanufacturing technologies and equipment for sustainable product lifecycle management	RIA
FoF-14-2015	Integrated design and management of production machinery and processes	RIA

Call for SPIRE – Sustainable Process Industres

H2020-SPIRE-2015

Deadline: 9/12/2014

SPIRE-05-2015	New adaptable catalytic reactor methodologies for Process	RIA
	Intensification	
SPIRE-06-2015	Energy and resource management systems for improved efficiency	RIA
	in the process industries	
SPIRE-07-2015	Recovery technologies for metals and other minerals	IA
SPIRE-08-2015	Solids handling for intensified process technology	IA

Horizon 2020 dedicated SME Instrument – Phase 1 2015

H2020-SMEINST-1-2015

Deadline: 18/3/2015

17/6/2015

17/9/2015

16/12/2015

NMP-25-2015 Accelerating the uptake of nanotechnologies, advanced SME materials or advanced manufacturing and processing technologies by SMEs

BIOTEC-5b-2015 SME boosting biotechnology-based industrial processes driving SME competitiveness and sustainability

Horizon 2020 dedicated SME Instrument – Phase 2 2014

H2020-SMEINST-2-2014

Deadline: 18/3/2015

17/6/2015

17/9/2015

16/12/2015

NMP-25-2014 Accelerating the uptake of nanotechnologies, advanced SME materials or advanced manufacturing and processing technologies by SMEs

BIOTEC-5a-2014 SME boosting biotechnology-based industrial processes driving SME competitiveness and sustainability

Pomembnejši dogodki

PPP Info dan:

Bruselj, 16.-17. december 2013

http://ec.europa.eu/research/industrial technologies/information-day-for-ppp-2013 en.html

Družbeni izzivi+
 Biotehnnolgija Info Dan :

Bruselj, 17. januar 2014

http://ec.europa.eu/research/bioeconomy/news-events/news/20140117 en.htm

Industrial Technologies 2014:

Atene, 9.-11. april 2014

http://www.industrialtechnologies2014.eu/conference/

PPP Info dan

Bruselj, 16.-17. december 2013

http://ec.europa.eu/research/industrial technologies/information-day-for-ppp-2013 en.html



Programme

↑ Home > Public Private Partnerships in research > H2020 Information Day on Research PPPs' 16-17 December 2013 > Programme

Information Days on the Research PPPs on Factories of the Future, Energy-efficient Buildings, Green Vehicles and Sustainable Process Industry Brussels, 16-17 December 2013

Programme

16 December 2013, Monday

Plenary session

http://scic.ec.europa.eu/streaming/index.php?

- 09.30 Welcome by the Chair Herbert von Bose, EC – Research and Innovation (DG RTD) - Director Industrial technologies
- 09.45 Address by Director-General for Research and Innovation Robert-Jan Smits
- 09.55 Address by Deputy Director-General, DG Communications Networks, Content and Technology (CNECT) Zoran Stančič
- 10.05 Factories of the Future cPPP

 Maurizio Gattiglio (PDF version, 1.07MB), PRIMA INDUSTRIE
- 10.15 Energy-efficient Buildings cPPP Emmanuel Forest (PDF version, 199KB), BOUYGUES
- 10.25 European Green Vehicles Initiative cPPP
 Wolfgang Steiger (PDF version, 791KB), VOLKSWAGEN



Hvala za pozornost

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