



Informacijske in komunikacijske tehnologije

Vodilna vloga industrije – Obzorje 2020

GZS

Ljubljana, 13. januar 2014

Shared objectives and principles

Tackling Societal Challenges

- Health, demographic change and wellbeing
- Food security, sustainable agriculture and the bio-based economy
- Secure, clean and efficient energy
- Smart, green and integrated transport
- Climate action, resource efficiency and raw materials
- Inclusive, innovative and reflective societies
- Secure Societies

ICT

Creating Industrial Leadership and Competitive Frameworks

- Leadership in enabling and industrial technologies
- **ICT**
 - Nanotech., Materials, Manuf. and Processing
 - Biotechnology
 - Space
- Access to risk finance
- Innovation in SMEs

ICT

EIT JRC

Excellence in the Science Base

- Frontier research (ERC)
- Future and Emerging Technologies (FET)
- Skills and career development (Marie Curie)
- Research infrastructures

ICT

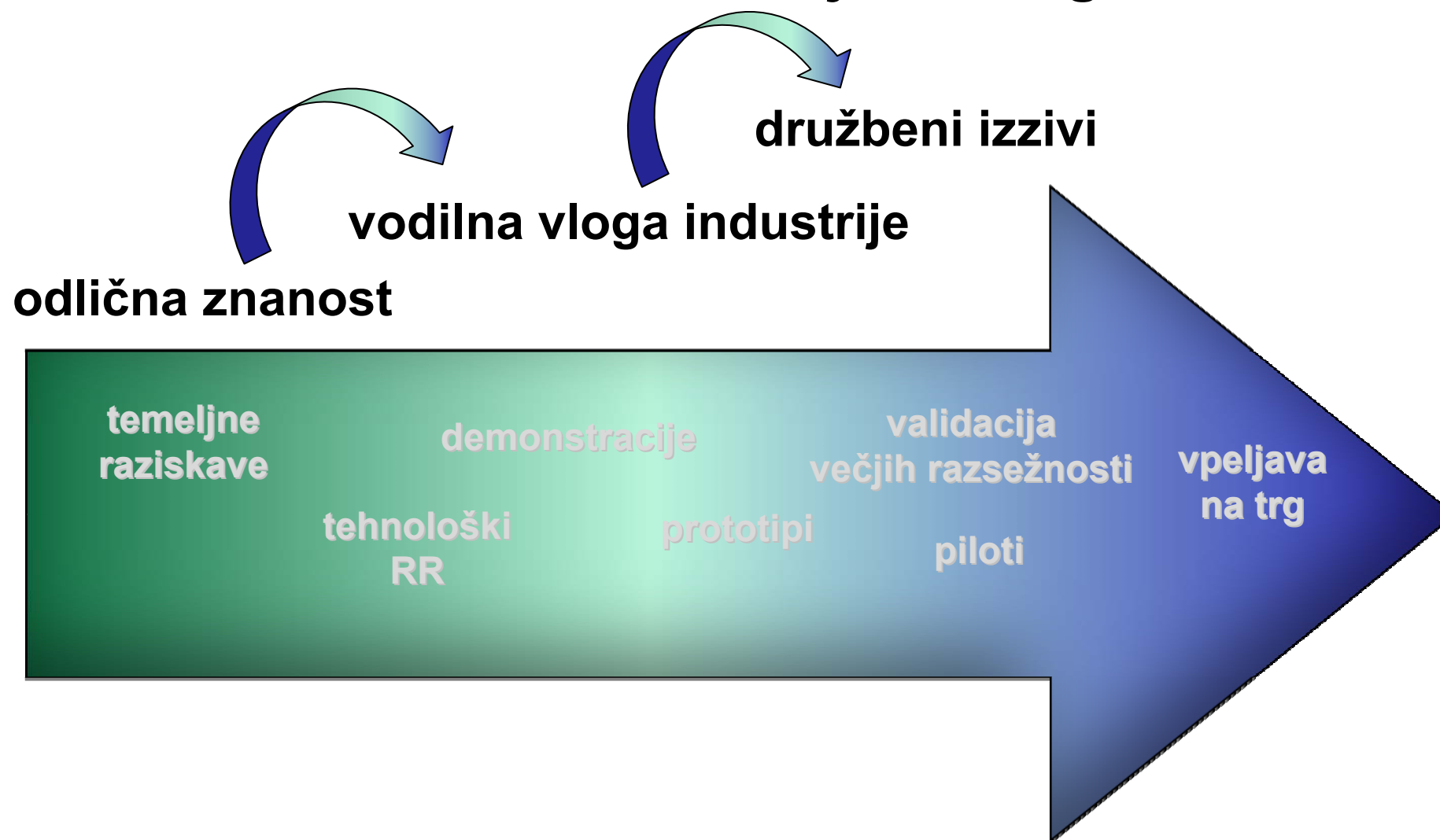
ICT

Simplified access

Dissemination & knowledge transfer

Common rules, toolkit of funding schemes

celotna inovacijska veriga



Delovni program IKT 2014-2015

1. nova generacija **komponent in sistemov**: načrtovanje naprednih vgrajenih in učinkovitih komponent in sistemov
2. naslednja generacija **računalništva**: napredni in varni računalniški sistemi in tehnologije, vključno z računalništvom v oblaku
3. **internet prihodnosti**: programska in strojna oprema, infrastruktura, tehnologije in storitve
4. **tehnologije za vsebine in upravljanje z informacijami**: IKT za digitalne vsebine, kulturne in kreativne industrije
5. napredni vmesniki in roboti: **robotika** in **pametni prostori**
6. **micro- in nano-elektronika** in **fotonika**: ključne spodbujevalne tehnologije
7. presečne teme in horizontalne inovacijske aktivnosti
8. mednarodno sodelovanje

Delovni program IKT 2014-2015: razpisi

- **H2020-ICT-2014-1**, 11.12.2013 – 23.4.2014 razen za inovacijsko shemo za majhna in srednja podjetja (odprta shema od 1.3.2014), 658,5 mio €
- **H2020-ICT-2014-2**, 11.12.2013 – 25.11.2014, 125 mio €
- **H2020-EUJ-2014**, 7.1.2014 – 10.4.2014, 6 mio €
- **H2020-ICT-2015**, 15.10.2014 – 14.4.2015, 583 mio €
- **H2020-EUB-2015**, 15.10.2014 – 21.4.2015, 7 mio €

H2020-**ICT-2014-1**, 23.4.2014

- nova generacija **komponent in sistemov**:
 - Smart cyber-physical systems
 - Smart system integration
 - Advanced thin, organic and large area electronics
- **internet prihodnosti**:
 - Smart networks and novel Internet architectures
 - Smart optical and wireless network technologies
 - Advanced cloud infrastructures and services
 - Tools and methods for software development
 - Future internet research & experimentation – FIRE+
 - Web entrepreneurship

H2020-ICT-2014-1, 23.4.2014

- **tehnologije za vsebine in upravljanje z informacijami:**
 - Big data nad open data innovation and take-up
 - Cracking the language barrier
 - Support the growth of ICT innovative creative industries SMEs
 - Advanced digital gaming/gamification technologies
 - Multimodal and natural computer interaction
- **robotika:**
 - Robotics
- **mikro- in nano-elektronika in fotonika:**
 - Photonics KET
 - Development of novel materials and systems for OLED lighting

H2020-**ICT-2014-1**, 23.4.2014

- **presečne teme:**
 - Human-centric digital age
 - Cybersecurity, Trustworthy ICT
 - Trans-national co-operation among NCP
- **horizontalne IKT inovacijske aktivnosti:**
 - Innovation and entrepreneurship support
 - Open disruptive innovation scheme – 1.3.2014

H2020-ICT-2014-2, 25.11.2014

- **internet prihodnosti - PPP:**
 - Advanced 5G Network Infrastructure for the Future Internet

omrežna in računalniška infrastruktura, ki bi pospešila inovacije in reševala najbolj kritične tehnološke in uporabniške vidike interneta

npr. večja kapaciteta brezžičnih področij, zmanjšanje porabe energije, izboljšana kontrola zasebnosti s strani uporabnika

H2020-EUJ-2014, 10.4.2014

- **koordiniran razpis med EU in Japonsko:**
 - tehnologije, ki združujejo obsežne zbirke podatkov, internet stvari v računalništvu v oblaku
 - optične komunikacije
 - dostopovno omrežje za gosto naseljene uporabnike
 - eksperimentiranje in razvoj v skupnih testnih okoljih (EU – Japonska)

H2020-ICT-2015, 15.10.2014-14.4.2015

- naslednja generacija **računalništva**:
 - Customised and low power computing
- **internet prihodnosti**:
 - Boosting public sector productivity and innovation through cloud computing services
 - Collective awareness platforms for sustainability and social innovation
 - More experimentation for the Future Internet

H2020-ICT-2015, 15.10.2014-14.4.2015

- **tehnologije za vsebine in upravljanje z informacijami:**
 - Big data - research
 - Technologies for creative industries, social media and convergence
 - Technologies for better human learning and teaching
- **robotika:**
 - Robotics
- **mikro- in nano-elektronika in fotonika:**
 - Generic micro- and nano-electronic technologies
 - Photonics KET
 - Cross-cutting ICT KETs

H2020-ICT-2015, 15.10.2014-14.4.2015

- **presečne teme:**
 - Internet of things and platforms for connected smart objects
- **horizontalne IKT inovacijske aktivnosti:**
 - Support for access to finance
 - Pre-commercial procurement open to all areas of public interest requiring new ICT solutions
- **mednarodno sodelovanje:**
 - International partnership building and support to dialogues with high income countries
 - International partnership building in low and middle income countries

H2020-EUB-2015, 15.10.2014-21.4.2015

- **koordiniran razpis med EU in Brazilijo:**
 - računalništvo v oblaku vključno z varnostnimi vidiki
 - zelo zmogljivo računalništvo
 - eksperimentalne platforme

razpis Tovarne prihodnosti – Factories of the Future

- **IKT za Tovarne prihodnosti:**
 - FoF 1: Process optimisation of manufacturing assets
 - FoF 8: ICT-enabled modelling, simulation, analytics and forecasting technologies
 - FoF 9: ICT Innovation for Manufacturing SMEs

Delovni program IKT 2014-2015

ICT 2 - 2014: Smart System Integration

Specific Challenge: The aims are to develop the next generations of smart systems technologies and solutions, based on systemic miniaturisation and integration, of heterogeneous technologies, functions and materials, . . .

Scope: The focus is on:

Research & Innovation Actions for one or both of the following:

- To advance the state of the art of **heterogeneous integration of micro and nanotechnologies** . . .

Innovation Actions target access services for academia, research institutes and SMEs to accelerate the deployment of smart systems and enable the access to design . . .

Pre-commercial procurement action will focus on enabling the take-up and deployment of lab on chip based technology developments for in-vitro diagnosis.

Coordination and Support Actions

- Networking and collaboration among and with clusters in smart system integration in order to promote, create awareness and establish roadmaps. . . .

Expected impact:

Research & Innovation Actions

- Increased integration and combination of new functionalities at micro- and nano scale, with decreased size (x10), . . .

Innovation Actions

- Wider adoption of miniaturised smart systems in innovative and sustainable products meeting industrial and end-users needs . . .

Pre-commercial procurement action

- Increased awareness, access and adoption of innovative solutions by European public procurers in healthcare.

Coordination and Support Actions

- More coordinated R&I activities in smart systems integration in Europe; increase awareness, education and training skills.

Types of action:

Research & Innovation Actions – A mix of proposals requesting *Small* and *Large contributions* are expected

Innovation Actions – A mix of proposals requesting *Small* and *Large contributions* are expected

Pre-Commercial Procurement (PCP) Cofund actions – Proposals requesting a *Small contribution* are expected

Coordination and Support Actions

The conditions related to this topic are provided at the end of this call and in the General Annexes.

razpisi v Obzorju 2020

Razpisi in vsa potrebna dokumentacija so objavljeni na portalu za sodelujoče.

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

- možnost iskanja primernega razpisa preko ključnih besed
- opis posameznih tem razpisa
- elektronska oddaja projektnega predloga



kriteriji za izbor v Obzorju 2020

Za raziskovalno-inovacijske in inovacijske projekte:

- odličnost
- vpliv, prispevek
- kakovost in učinkovitost izvedbe

Vsak kriterij od 1 do 5, pozitivna meja na posameznem kriteriju 3, skupna pozitivna meja 10

izbor projektnih predlogov

- vsi pozitivno ocenjeni projektni predlogi na vsaki temi **razvrščeni po doseženem rezultatu** v padajočem vrstnem redu
- izbor projektov se začne na vrhu **do porabe namenjenih sredstev**
- prioritete predlogov **z enakim rezultatom**
 - zapolni vrzel v Delovnem programu
 - višja ocena pri odličnosti, nato pri vplivu (obratno za inovacijske projekte)
 - predvidena sredstva za majhna in srednja podjetja
 - vključenost žensk na ključnih mestih
 - ostalo kot širši cilji Obzorja 2020, ciljev EU



neodvisni eksperti

- veščine, znanja, izkušnje
- izbor na podlagi razpisa
- eksperti izven podatkovne baze lahko izbrani le v posebnih primerih
- uravnotežena sestava
- konflikt interesov
- letno objavljena imena na spletni strani

<http://ec.europa.eu/research/participants/portal/desktop/en/experts/index.html>

Pomoč pri pripravi projektnih predlogov

- IKT – Vodilna vloga industrije, Obzorje 2020: nacionalna kontaktna oseba

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<http://www.mizs.gov.si/si/obzorje2020/>

- informativni dnevi in drugi dogodki – 24. januar IKT + FET+ e-infrastruktura na MIZŠ
- iskanje partnerjev - Idealist
<http://www.ideal-ist.eu/>

