

EU PROGRAM ZA ISTRAŽIVANJE I INOVACIJE – HORIZONT EVROPA

Sadržaj Radnog programa 2021/22 (otvoreni pozivi): Klaster 4: Digitalni sektor, industrija i svemir

Klaster 4 će ostvariti 6 specifičnih očekivanih uticaja (destinacija):

- Destinacija 1 – Klimatski neutralna, cirkularna i digitalizovana proizvodnja
- Destinacija 2 – Povećana autonomija u ključnim strateškim lancima snabdijevanja za otporniju industriju
- Destinacija 3 – Globalno vođstvo u računarskim i tehnologijama podataka
- Destinacija 4 – Digitalne i nove tehnologije za konkurentnost i prilagođenost zelenoj ekonomiji
- Destinacija 5 – Otvorena strateška autonomija u razvoju, raspolaganju i korištenju globalnih svemirskih infrastruktura, usluga, aplikacija i podataka
- Destinacija 6 –Etički razvoj digitalne i industrijske tehnologije okrenut ljudima

U okviru svake destinacije nalaze se određene teme, odnosno pozivi za 2021/22 godinu. U nastavku, biće predstavljeni otvoreni pozivi za 2021. godinu, dok će pozivi koji se kasnije otvaraju biti blagovremeno ažurirani.

Rokovi u 2021. godini

Otvaranje: 22. jun 2021.

Zatvaranje: 23. septembar/ 21. oktobar 2021.

DESTINATION 1 – CLIMATE NEUTRAL, CIRCULAR AND DIGITISED PRODUCTION

Budžet (miliona EUR): 403.00

Otvoreni pozivi:

Green, flexible and advanced manufacturing

HORIZON-CL4-2021-TWIN-TRANSITION-01-01: AI enhanced robotics systems for smart manufacturing (AI, Data and Robotics - Made in Europe Partnerships) (IA)

HORIZON-CL4-2021-TWIN-TRANSITION-01-02: Zero-defect manufacturing towards zero-waste (Made in Europe Partnership) (IA)

HORIZON-CL4-2021-TWIN-TRANSITION-01-03: Laser-based technologies for green manufacturing (Photonics - Made in Europe Partnerships) (RIA)

HORIZON-CL4-2021-TWIN-TRANSITION-01-05: Manufacturing technologies for bio- based materials (Made in Europe Partnership) (RIA)

Advanced digital technologies for manufacturing

HORIZON-CL4-2021-TWIN-TRANSITION-01-07: Artificial Intelligence for sustainable, agile manufacturing (AI, Data and Robotics - Made in Europe Partnerships) (IA)

HORIZON-CL4-2021-TWIN-TRANSITION-01-08: Data-driven Distributed Industrial Environments (Made in Europe Partnership) (IA)

A new way to build, accelerating disruptive change in construction

HORIZON-CL4-2021-TWIN-TRANSITION-01-10: Digital permits and compliance checks for buildings and infrastructure (IA)

HORIZON-CL4-2021-TWIN-TRANSITION-01-11: Automated tools for the valorisation of construction waste (RIA)

HORIZON-CL4-2021-TWIN-TRANSITION-01-12: Breakthrough technologies supporting technological sovereignty in construction (RIA)

Hubs for circularity, a stepping stone towards climate neutrality and circularity in industry

HORIZON-CL4-2021-TWIN-TRANSITION-01-14: Deploying industrial-urban symbiosis solutions for the utilization of energy, water, industrial waste and by-products at regional scale (Processes4Planet Partnership) (RIA)

HORIZON-CL4-2021-TWIN-TRANSITION-01-16: Hubs for Circularity European Community of Practice (ECoP) platform (Processes4Planet Partnership) (CSA)

Enabling circularity of resources in the process industries, including waste and CO₂/CO

HORIZON-CL4-2021-TWIN-TRANSITION-01-17: Plastic waste as a circular carbon feedstock for industry (Processes4Planet Partnership) (IA)

HORIZON-CL4-2021-TWIN-TRANSITION-01-18: Carbon Direct Avoidance in steel: Electricity and hydrogen-based metallurgy (Clean Steel Partnership) (IA)

HORIZON-CL4-2021-TWIN-TRANSITION-01-19: Improvement of the yield of the iron and steel making (Clean Steel Partnership) (IA)

HORIZON-CL4-2021-TWIN-TRANSITION-01-20: Reducing environmental footprint, improving circularity in extractive and processing value chains (IA)

Integration of Renewables and Electrification in process industry

HORIZON-CL4-2021-TWIN-TRANSITION-01-21: Design and optimisation of energy flexible industrial processes (Processes4Planet Partnership) (IA)

HORIZON-CL4-2021-TWIN-TRANSITION-01-22: Adjustment of Steel process production to prepare for the transition towards climate neutrality (Clean Steel Partnership) (IA)

DESTINATION 2 – INCREASED AUTONOMY IN KEY STRATEGIC VALUE CHAINS FOR RESILIENT INDUSTRY

Budžet (miliona EUR): 365.20

Otvoreni pozivi:

Novel paradigms to establish resilient and circular value chains

HORIZON-CL4-2021-RESILIENCE-01-01: Ensuring circularity of composite materials (Processes4Planet Partnership) (RIA)

Raw materials for EU open strategic autonomy and successful transition to a climate- neutral and circular economy

HORIZON-CL4-2021-RESILIENCE-01-03: Identifying future availability of secondary raw materials (RIA)

HORIZON-CL4-2021-RESILIENCE-01-04: Developing climate-neutral and circular raw materials (IA)

HORIZON-CL4-2021-RESILIENCE-01-05: Building EU-Africa partnerships on sustainable raw materials value chains (CSA)

HORIZON-CL4-2021-RESILIENCE-01-06: Innovation for responsible EU sourcing of primary raw materials, the foundation of the Green Deal (RIA)

HORIZON-CL4-2021-RESILIENCE-01-07: Building innovative value chains from raw materials to sustainable products (IA)

Green and Sustainable Materials

HORIZON-CL4-2021-RESILIENCE-01-08: Establishing EU led international community on safe- and sustainable-by-design materials to support embedding sustainability criteria over the life cycle of products and processes (CSA)

HORIZON-CL4-2021-RESILIENCE-01-09: Promote Europe's availability, affordability, sustainability and security of supply of essential chemicals and materials (IA)

HORIZON-CL4-2021-RESILIENCE-01-10: Paving the way to an increased share of recycled plastics in added value products (RIA)

HORIZON-CL4-2021-RESILIENCE-01-11: Safe- and sustainable-by-design polymeric materials (RIA)

HORIZON-CL4-2021-RESILIENCE-01-12: Safe- and sustainable-by-design metallic coatings and engineered surfaces (RIA)

Materials for the benefit of society and the environment and materials for climate-neutral Industry

HORIZON-CL4-2021-RESILIENCE-01-14: Development of more energy efficient electrically heated catalytic reactors (IA)

HORIZON-CL4-2021-RESILIENCE-01-16: Creation of an innovation community for solar fuels and chemicals (CSA)

HORIZON-CL4-2021-RESILIENCE-01-17: Advanced materials for hydrogen storage (RIA)

HORIZON-CL4-2021-RESILIENCE-01-20: Antimicrobial, Antiviral, and Antifungal Nanocoatings (RIA)

Materials and data cross-cutting actions

HORIZON-CL4-2021-RESILIENCE-01-25: Biomaterials database for Health Applications (CSA)

HORIZON-CL4-2021-RESILIENCE-01-26: Sustainable Industry Commons (RIA)

Improving the resilience and preparedness of EU businesses, especially SMEs and Startups

HORIZON-CL4-2021-RESILIENCE-01-27: Innovation Radar, Tech Due Diligence and Venture Building for strategic digital technologies (CSA)

HORIZON-CL4-2021-RESILIENCE-01-28: Re-opening industrial sites preparatory action – Promoting a sustainable strategy for Europe's industrial future (CSA)

HORIZON-CL4-2021-RESILIENCE-01-29: 'Innovate to transform' support for SME's sustainability transition (CSA)

HORIZON-CL4-2021-RESILIENCE-01-31: European Technological and Social Innovation Factory (RIA)

HORIZON-CL4-2021-RESILIENCE-02-32: Social and affordable housing district demonstrator (IA)

DESTINATION 3 – WORLD LEADING DATA AND COMPUTING TECHNOLOGIES

Budžet (miliona EUR): 141.00

Otvoreni pozivi:

Data sharing in the common European data spaces

HORIZON-CL4-2021-DATA-01-01: Technologies and solutions for compliance, privacy preservation, green and responsible data operations (AI, Data and Robotics Partnership) (RIA)

HORIZON-CL4-2021-DATA-01-03: Technologies for data management (AI, Data and Robotics Partnership) (IA)

From Cloud to Edge to IoT for European Data

HORIZON-CL4-2021-DATA-01-05: Future European platforms for the Edge: Meta Operating Systems (RIA)

HORIZON-CL4-2021-DATA-01-07: Coordination and Support of the ‘Cloud-Edge-IoT’ domain (CSA)

HORIZON-CL4-2021-DATA-01-08: Roadmap for next generation computing and systems technologies (CSA)

DESTINATION 4 – DIGITAL AND EMERGING TECHNOLOGIES FOR COMPETITIVENESS AND FIT FOR THE GREEN DEAL

Budžet (miliona EUR): 334.90

Otvoreni pozivi:

Ultra-low power processors

HORIZON-CL4-2021-DIGITAL-EMERGING-01-01: Ultra-low-power, secure processors for edge computing (RIA)

HORIZON-CL4-2021-DIGITAL-EMERGING-01-05: Open Source Hardware for ultra- low-power, secure processors (CSA) European Innovation Leadership in Electronics

HORIZON-CL4-2021-DIGITAL-EMERGING-01-31: Functional electronics for green and circular economy (RIA)

European Innovation Leadership in Photonics

HORIZON-CL4-2021-DIGITAL-EMERGING-01-06: Advanced optical communication components (Photonics Partnership) (IA)

HORIZON-CL4-2021-DIGITAL-EMERGING-01-07: Advanced Photonic Integrated Circuits (Photonics Partnership) (RIA)

6G and foundational connectivity technologies

HORIZON-CL4-2021-DIGITAL-EMERGING-01-26: Coordination of European Smart Network actions (CSA)

Innovation in AI, Data and Robotics

HORIZON-CL4-2021-DIGITAL-EMERGING-01-09: AI, Data and Robotics for the Green Deal (AI, Data and Robotics Partnership) (IA)

HORIZON-CL4-2021-DIGITAL-EMERGING-01-10: AI, Data and Robotics at work (AI, Data and Robotics Partnership) (IA)

Tomorrow's deployable Robots: efficient, robust, safe, adaptive and trusted

HORIZON-CL4-2021-DIGITAL-EMERGING-01-11: Pushing the limit of robotics cognition (AI, Data and Robotics Partnership) (RIA)

HORIZON-CL4-2021-DIGITAL-EMERGING-01-12: European Network of Excellence Centres in Robotics (RIA)

European leadership in Emerging Enabling Technologies

HORIZON-CL4-2021-DIGITAL-EMERGING-01-13: Academia-Industry Forum on Emerging Enabling Technologies (CSA)

HORIZON-CL4-2021-DIGITAL-EMERGING-01-14: Advanced spintronics: Unleashing spin in the next generation ICs (RIA)

HORIZON-CL4-2021-DIGITAL-EMERGING-01-27: Development of technologies/devices for bio-intelligent manufacturing (RIA)

Flagship on Quantum Technologies: a Paradigm Shift

HORIZON-CL4-2021-DIGITAL-EMERGING-01-21: Next generation quantum sensing technologies (RIA)

HORIZON-CL4-2021-DIGITAL-EMERGING-01-23: International cooperation with Canada (RIA)

HORIZON-CL4-2021-DIGITAL-EMERGING-01-30: Investing in new emerging quantum computing technologies (RIA)

HORIZON-CL4-2021-DIGITAL-EMERGING-01-32: Support and coordination of the Quantum Technologies Flagship Initiative (CSA)

HORIZON-CL4-2021-DIGITAL-EMERGING-02-15: Framework Partnership Agreement for developing the first large-scale quantum computers (FPA)

HORIZON-CL4-2021-DIGITAL-EMERGING-02-16: Basic Science for Quantum Technologies (RIA)

HORIZON-CL4-2021-DIGITAL-EMERGING-02-17: Framework Partnership Agreement for developing large scale quantum simulation platform technologies (FPA)

HORIZON-CL4-2021-DIGITAL-EMERGING-02-19: Framework Partnership Agreements in Quantum Communications (FPA)

HORIZON-CL4-2021-DIGITAL-EMERGING-02-20: Quantum sensing technologies for market uptake (IA)

HORIZON-CL4-2021-DIGITAL-EMERGING-02-22: Framework Partnership Agreements for open testing and experimentation and for pilot production capabilities for quantum technologies (FPA)

HORIZON-CL4-2021-DIGITAL-EMERGING-02-10: Strengthening the quantum software ecosystem for quantum computing platforms (RIA)

DESTINATION 5– OPEN STRATEGIC AUTONOMY IN DEVELOPING, DEPLOYING AND USING GLOBAL SPACE-BASED INFRASTRUCTURES, SERVICES, APPLICATIONS AND DATA

Budžet (miliona EUR): 136.22

Otvoreni pozivi:

Foster competitiveness of space systems

HORIZON-CL4-2021-SPACE-01-11: End-to-end satellite communication systems and associated services

HORIZON-CL4-2021-SPACE-01-12: Future space ecosystems: on-orbit operations, new system concepts

Reinforce EU capacity to access and use space

HORIZON-CL4-2021-SPACE-01-21: Reusability for European strategic space launchers - technologies and operation maturation including flight test demonstration

HORIZON-CL4-2021-SPACE-01-22: Low cost high thrust propulsion for European strategic space launchers - technologies maturation including ground tests

HORIZON-CL4-2021-SPACE-01-23: New space transportation solutions and services

Evolution of space and ground infrastructure for Galileo/EGNOS

Evolution of Copernicus services

HORIZON-CL4-2021-SPACE-01-41: Copernicus Climate Change Service evolution

HORIZON-CL4-2021-SPACE-01-42: Copernicus Atmosphere Monitoring Service evolution

HORIZON-CL4-2021-SPACE-01-43: Copernicus Security and Emergency Services evolution

HORIZON-CL4-2021-SPACE-01-44: Copernicus evolution for cross-services thematic domains

Innovative space capabilities: SSA, GOVSATCOM, Quantum

HORIZON-CL4-2021-SPACE-01-62: Quantum technologies for space gravimetry

Space entrepreneurship ecosystem (including "New Space" and start-ups) and skills

Targeted and strategic actions supporting the EU space sector

HORIZON-CL4-2021-SPACE-01-81: Space technologies for European non-dependence and competitiveness

DESTINATION 6 – A HUMAN-CENTRED AND ETHICAL DEVELOPMENT OF DIGITAL AND INDUSTRIAL TECHNOLOGIES

Budžet (miliona EUR): 206.00

Otvoreni pozivi:

Leadership in AI based on trust

HORIZON-CL4-2021-HUMAN-01-01: Verifiable robustness, energy efficiency and transparency for Trustworthy AI: Scientific excellence boosting industrial competitiveness (AI, Data and Robotics Partnership) (RIA)

HORIZON-CL4-2021-HUMAN-01-02: European coordination, awareness, standardisation & adoption of trustworthy European AI, Data and Robotics (AI, Data and Robotics Partnership) (CSA)

HORIZON-CL4-2021-HUMAN-01-03: European Network of AI Excellence Centres: Pillars of the European AI lighthouse (RIA)

HORIZON-CL4-2021-HUMAN-01-24: Tackling gender, race and other biases in AI (RIA)

HORIZON-CL4-2021-HUMAN-01-27: AI to fight disinformation (RIA)

An Internet of Trust

HORIZON-CL4-2021-HUMAN-01-04: Trust & data sovereignty on the Internet (RIA)

HORIZON-CL4-2021-HUMAN-01-05: Trustworthy open search and discovery (RIA)

HORIZON-CL4-2021-HUMAN-01-07: Next Generation Internet community-building and outreach (CSA)

HORIZON-CL4-2021-HUMAN-01-08: NGI International Collaboration - Transatlantic fellowship programme (CSA)

HORIZON-CL4-2021-HUMAN-01-09: NGI Tech Review (CSA)

eXtended Reality (XR)

HORIZON-CL4-2021-HUMAN-01-13: eXtended Reality Modelling (RIA)

HORIZON-CL4-2021-HUMAN-01-14: eXtended Reality for All – Haptics (RIA)

HORIZON-CL4-2021-HUMAN-01-25: eXtended Collaborative Telepresence (IA)

HORIZON-CL4-2021-HUMAN-01-06: Innovation for Media, including eXtended Reality (IA)

HORIZON-CL4-2021-HUMAN-01-28: eXtended Reality Ethics, Interoperability and Impact (CSA)

Systemic approaches to make the most of the technologies within society and industry

HORIZON-CL4-2021-HUMAN-01-17: Awareness raising on Intellectual property (IP) management for European R&I (CSA)

HORIZON-CL4-2021-HUMAN-01-18: Fostering standardisation to boost European industry's competitiveness (CSA)

HORIZON-CL4-2021-HUMAN-01-19: Testing innovative solutions on local communities' demand (CSA)

HORIZON-CL4-2021-HUMAN-01-20: Piloting a new industry-academia knowledge exchange focussing on companies' needs (CSA)

HORIZON-CL4-2021-HUMAN-01-21: Art-driven use experiments and design (RIA)

HORIZON-CL4-2021-HUMAN-01-29: Support for transnational activities of National Contact Points in the thematic area of Digital (CSA)

HORIZON-CL4-2021-HUMAN-01-30: Support for transnational activities of National Contact Points in the thematic area of Industry (CSA)

HORIZON-CL4-2021-HUMAN-01-31: Support for transnational activities of National Contact Points in the thematic area of Space (CSA)

HORIZON-CL4-2021-HUMAN-01-26: Workforce skills for industry 5.0 (RIA)

Radni program za Horizont Evropa 2021/2022 za klaster 4: Digitalni sektor, industrija i svemir, možete preuzeti na **sljedećem linku**:

https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/wp-call/2021-2022/wp-7-digital-industry-and-space_horizon-2021-2022_en.pdf

Otvoreni pozivi na Funding & Tender portalu:

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=null;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1,0,2;statusCodes=31094501,31094502,31094503;programmePeriod=2021%20-%202027;programCcm2Id=43108390;programDivisionCode=43120193;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=topicSearchTablePageState>

Nacionalna kontakt osoba (NCPs) za ovu oblast programa:

- Martina Ivanović: martina.dragoljub@gmail.com