Budapesti Corvinus Egyetem H2020 Green Deal Call tájékoztató

Dr. Schenk Borbála Európai uniós kutatási pályázati tanácsadó 2020. szeptember 11.

dr. Schenk Borbála





- Európai uniós kutatási pályázati tanácsadó, jogász
- 10 év egyetemi és kutatóközponti adminisztratív vezetői tapasztalat, nemzetközi pályázati csoport vezetője
- European Association of Research Managers and Administrators elnökségi tag
- Horizon Europe előkészítő tárgyalások résztvevője
- szakterület: közvetlen brüsszeli kutatástámogatási keretprogramok (H2020, Horizon Europe)
- Fókusz: EU-13 országok európai pályázati sikereinek erősítése
- H2020 pályázatok széles köre: pályázatírás és támogatási tapasztalat
- Egyetemi/kutatóközponti pályázattámogatás segítése, intézményfejlesztés, pályázati stratégia

Előadás célja

A 2020 szeptemberében megjelenő H2020 Green Deal felhíváscsomag kiírásai a Budapesti Corvinus Egyetem kutatói részére számos ponton kínálnak bekapcsolódási lehetőséget.

Az előadás célja, hogy

- segítse a pályázati csomag európai politikai kontextusának és szemléletmódjának megértését, ez szükséges a sikeres részvételhez
- támpontokat adjon az önök számára érdekes és releváns felhívások kiválasztásához
- gyakorlati tippeket nyújtson a továbblépéshez és a megfelelő konzorcium megtalálásához

A láthatóság és a kapcsolatrendszer, amit a partnerkeresés, illetve a pályázatok elkészítésében való aktív részvétel során kiépítenek, a Horizon Europe keretprogramban is hasznosítható lesz.

Az előadás anyaga a jelenleg elérhető nem hivatalos felhívásszövegek alapján készült, a szakmai következtetések az előadó álláspontját tükrözik. Az Európai Bizottság tájékoztató oldala: <u>https://ec.europa.eu/info/research-and-innovation/strategy/european-green-deal/call_en</u>

Előadás áttekintése

- "Housekeeping"- slido
- H2020 kontextus
- Green Deal áttekintés
- Releváns felhívások áttekintése
- Gyakorlati továbblépés
- Kérdések



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Európai Bizottság 6 politikai prioritása

- 01 A European Green Deal
- 02 An economy that works for people
- O3 A Europe fit for the Digital Age;O4 Promoting our European way of life;
- 05 A stronger Europe in the world;
- 06 A new push for European democracy



02

FIT FOR TH

Forrás: European Commission

AN ECONOMY THAT WORKS FOR

Green Deal felhíváscsomag

11 terület – 20 felhívás – 1 milliárd EUR büdzsé

Cél: kutatásfejlesztés segítségével megoldások a Bizottság Green Deal stratégiájának megvalósításához

A felhívások tágabb tématerületei a stratégia elemeit képezik le

Call Structure



Áttekintés – 1.

H2020 logika, de Horizon Europe előszoba

H2020 mindset (CSA, RIA, IA)

- Európai Bizottság általelőre meghatározott kihívások, kérdések
- Bizottság által előre meghatározott elérendő hatások
- Multidiszciplináris konzorciumok
- Stakeholderek bevonása, cocreation
- Kommunikáció állampolgárok felé

Green Deal mindset

- Erőteljes policy-irányultságstratégiai dokumentumok ismerete
- Nemcsak technológiai újítás, hanem szemlélet- és életmódváltás
- Gyakorlati megoldások– jól kommunikálható eredmények
- Stakeholderek bevonása nemcsak a disszemináción keresztül, hanem a konzorciumba is

Pályázatírás során figyelembe kell venni!

Áttekintés – 2.

- Komplex felhívások
- System thinking approach, driverek, okok elemzése, gyakorlati megoldások
- Multi-actor cross-sectoral approach, stakeholderek bevonásával (nemcsak disszemináción keresztül)
- 2020. szeptember közepén jelennek meg a felhívások
- 2021 január beadási határidő

Pályázattípusok

Green Deal: "Successful projects should go well beyond technological solutions."

Coordination and Support Action Research and Innovation Action

Innovation Action

Primarily accompanying measures: standardisation, discrimination, awareness-raising, strategic planning etc.

Summoning knowledge

Establish new knowledge, explore the feasibility of a new or imporved technology or solution

Establishing knowledge

Producing plans and arrangements for new products

Upscaling, testing, piloting, showcasing innovative systemic solutions, operational environment

Limited research activities

A 20 felhívás témája

- 1. Preventing and fighting extreme wildfires
- 2. Climate-neutral and socially innovative cities
- 3. Climate-resilient innovation packages for EU regions
- 4. Developing offshore renewable energy technologies
- 5. Develop and demonstrate a 100 MW electrolyser
- 6. Clean energy solutions in Africa and the Mediterranean
- 7. Closing the industrial carbon cycle
- 8. Territorial deployment of the circular economy
- 9. Building and renovating
- 10. Green airports and ports
- 11. Sustainable food from farm to fork

- 12. Restoring biodiversity and ecosystem services
- 13. Protect health, environment and natural resources from persistent and mobile chemicals
- 14. Science-to-policy approach to address chemical and pharmaceutical mixtures
- 15. European Research Infrastructures capacities and services
- 16. End-user products and services for climate adaptation for stakeholders
- 17. Digital Twin of the Ocean
- 18. Citizen deliberation and participation in GD
- 19. Behavioural, social and cultural change
- 20. Enabling citizens to act on climate change

LC-GD-1-1-2020 : Preventing and fighting extreme wildfires with the integration and demonstration of innovative means

Cél:

- accelerating the shift towards a more holistic fire management approach that integrates environmental, climate, health & safety/security, cultural and socio-economic aspects all phases of wildfire
- systemic approach encompassing different climate scenarios, biogeographical/socio-economic contexts and means for faster and smarter management of all phases
- geographical and socio-economic scenarios, demonstration pilot sites

Corvinus számára bekapcsolódási lehetőség:

- Develop an EU centralised database with socioeconomic and environmental information on wildfire causes
- Support the integration of wildfire resilience into governance and insurance models
- Build a common culture on risk prevention and preparedness across EU citizens, including local authorities and schools, through education and training, community involvement and awareness campaigns
- Enhancement of the response capacity for safer and more effective operations can be demonstrated through improved data collection,
- Support the socio-ecological transition towards more resilient and sustainable communities
- Develop and test public-private cooperation mechanisms to leverage investments from the private sector
 BCE H2020 Green Deal tájékoztató 2020. 09. 11. | dr. Schenk Borbála | bschenk.hu

Innovation Action 15-20M EUR/project 3-4 nyertes project (+CSA?)

LC-GD-1-2-2020: Towards Climate-Neutral and Socially Innovative Cities

Cél:

- develop a one-stop shop platform that would provide the necessary technical, regulatory, financial and socio-economic expertise as well as assistance to cities for developing and implementing their climate action plans, and related social innovation action plans.
- Develop partnership involving research organisations, academia, industry including social entrepreneurs, the financial sector including impact financiers, investors, philanthropists, NGOs, national and local authorities and citizens.
- Platform will launch open call(s) to support large scale pilots for the deployment in lead cities or districts of systemic solutions combining, as appropriate, technological, nature-based, social, cultural, regulatory and financial innovation and new business and governance models

Corvinus számára bekapcsolódási lehetőség:

- identifying and possibly overcoming regulatory, institutional, governance, financing, public acceptance, and other barriers
- capacity building necessary for implementing systematic and integrated climate neutral policies,
- Identify strategies and financing solutions for cities to reach climate neutrality, taking account and building on the good practices developed by global, European and national initiatives and programmes
- Combine existing results of EU R&I with social innovation, and co-create and test solutions with local communities, including changes in social practices and behaviour;

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Research and Innovation Action 53M EUR – 60% 1 nyertes project

LC-GD-1-3-2020: Climate-resilient Innovation Packages for EU regions

Cél:

- Some solutions for regional adaptation have been developed and successfully tested at small scale, ranging from innovative technologies to nature-based solutions, new business models, as well as governance and social innovations. → scale up and demonstrate at large scale systemic solutions to trigger behavioral change and new ways of decision-making
- enabling rapid and far-reaching change through the development of region-specific portfolios of solutions (mature enough for demonstration), which may include nature-based solutions, insurance and governance, and behavioural change.
- Area 1: Innovation Packages for transformational adaptation of European regions and communities
- Area 2: Support the design, testing and upscale of Innovation Packages

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Innovation Action 15-20M EUR – 2-3 pr. Coord. and Support Action 2-3M EUR – 1 projekt

LC-GD-2-1-2020: Innovative land-based and offshore renewable energy technologies and their integration into the energy system

Cél:

- Subtopic 1: Development of technologies (TRL 4-5)
- Subtopic 2: Demonstration of technologies (TRL 7)

Corvinus számára bekapcsolódási lehetőség:

- Sustainability of proposed solutions in environmental, social and economic terms and requirements of the final users
- Proposed solutions should increase incentives for investment and create new business models or services
- Market perspectives of proposed solutions
- Environmental, ecological and social impact along the value chain

Research and Innovation Action 3-6M EUR – 3-6 pr. Innovation Action 20-35M EUR – 2-3 pr.

LC-GD-2-2-2020: Develop and demonstrate a 100 MW electrolyser upscaling the link between renewables and industrial applications

Cél:

- Development and demonstration of a 100MW electrolyser 5 year duration, at least 2 year of operation
- TRL 6-7 → TRL 8

Corvinus számára bekapcsolódási lehetőség:

[demonstrating and operating – no research activity foreseen]

Innovation Action 50% funding

LC-GD-2-3-2020: Accelerating the green transition and energy access Partnership with Africa

Cél:

- demonstration of innovative climate adaptation, climate mitigation and sustainable energy solutions, in the African social, economic and environmental contexts
- address developments in the areas of renewable energy sources and their integration into existing energy system, energy
 efficiency in particular in urbanised contexts, the water-energy-food nexus, with the aim of providing sustainable energy
 access (electricity/cooking) or creating economic wealth and jobs (productive use of energy/energy efficiency).

Corvinus számára bekapcsolódási lehetőség:

- a life cycle analysis showing the impacts of the proposed solutions on the environment, on climate change targets, and on the social and the economic dimensions, from a cradle to grave viewpoint
- need to demonstrate the benefits of the proposed solutions with particular regard to the Sustainable Development Goals
- technologically reliable and economically viable solutions

Innovation Action 5-10M EUR 4-8 projekt

LC-GD-3-1-2020 : Closing the industrial carbon cycle to combat climate change

Cél:

- "sustainable refinery" develop and deploy highly innovative catalytic material systems to facilitate the production of synthetic fuels and chemicals from industrial CO2 (including CO and H2) flue gas emissions to sustainably convert CO2 emissions from industrial processes into synthetic fuels and chemicals utilising renewable energy driven processes
- Pilot plant by 2026

Corvinus számára bekapcsolódási lehetőség:

Address financial, regulatory, environmental constraints, public acceptance issues

Innovation Action 30-40M EUR/projekt Min. 2 nyertes projekt

LC-GD-3-2-2020 : Demonstration of systemic solutions for the territorial deployment of the circular economy

Cél:

- implement and demonstrate concrete systemic solutions for the territorial deployment of the circular economy (including circular bioeconomy) in at least three territorial clusters: Northern-west Europe, Central and Eastern Europe, Mediterranean Europe
- demonstrate the role of the territorial circular economy to reconcile economies with the limits and boundaries of the planet, to respond to citizen concerns in the wake of systemic crisis, to increase resilience and to provide concrete and sustainable solutions for the socio-economic recovery of a specific territory.
- Replicability scalability

Corvinus számára bekapcsolódási lehetőség:

- Systemic solutions shall be cross-cutting among different sectors and include science, technology, governance, economic, social and environmental dimensions and components.
- A systemic solution should address one or more economic sectors/value chains/technological processes to increase their circularity, involve circular participative governance models, demonstrate sustainable products and/or services' business models, involve one or more social and community-based innovation schemes

Innovation Action 12-20M EUR/projekt 3-5 nyertes projekt

LC-GD-4-1-2020 : Building and renovating in an energy-efficient way

Cél:

- large-scale, real-life demonstrations of promising technology and social innovations develop energy positive neighbourhoods – living labs
- test, in view of scaling up and wide replication, those innovations across the whole value chain (from planning and design through manufacture and construction to end use including all relevant players, governance and financing institutions, planners, owners, architects, engineers, contractors, facility managers, tenants, etc.).

Corvinus számára bekapcsolódási lehetőség:

- The validation of the market and consumer uptake potential should be carried out in the form of real life "living-labs" and under regulatory conditions that are open to innovation.
- Coordination on standards and regulatory aspects for efficiency of buildings and HVAC technologies.

Innovation Action 10-20M EUR/projekt 3-6 nyertes projekt

LC-GD-5-1-2020: Green airports and ports as hubs for sustainable and smart mobility

Cél:

- Large-scale-real life high TRL demonstration
- Konzorciumvezető: "Lighthouse" airport/port + 2 "fellow" airport/port + academia, industry, regulation, society

Corvinus számára bekapcsolódási lehetőség:

- quantified assessment of the expected improvement in airport or port energy consumption, as well as in greenhouse gas emissions and air quality.
- Energy-efficient and smart airport and port operations and buildings, green and smart logistics, integration with other lowemission transport modes;
- Reduced emissions for cities and urban mobility, as well as improved city integration for airports and ports;

Innovation Action 15-25M EUR ? projekt

LC-GD-6-1-2020 : Testing and demonstrating systemic innovations for sustainable food from farm to fork

Cél:

Alábbi célok egyike: Achieving climate neutral farms (on land, water and sea) by reducing GHG emissions 2) Achieving climate neutral food businesses 3) Reducing the dependence on contentious pesticides and antibiotics; reducing the use and increasing the efficiency of fertilisers; 4) Reducing food losses and waste, while avoiding unsustainable packaging; 5) Shifting to sustainable healthy diets sourced from land, water and sea, and accessible

Corvinus számára bekapcsolódási lehetőség:

- Economic and social sustainability elemzése, megteremtése
- The most appropriate mix of innovations, such as novel and digital technologies, new business and supply chain models, new governance models, ecological and social innovations while taking into account geographic and sectoral contexts (including environmental) and needs, both for production and consumption.
- Action plan for dissemination, communication and awareness building

Innovation Action budget TBA

LC-GD-7-1-2020 : Restoring biodiversity and ecosystem services

Cél:

 provide large-scale demonstrators on how systemic upscaling and replication of best practice ecosystem restoration can be deployed at regional, national and cross-border levels, focusing on heavily degraded and destroyed terrestrial, freshwater and marine ecosystems and responding to restoration goals enhancing biodiversity.

Corvinus számára bekapcsolódási lehetőség:

- integrating systemic transformations through restoration in governance, policy making, financing, public procurement, economic development, infrastructure and regional strategic planning.
- test and evaluate approaches to create value with the human communities affected by transformative change, in innovative ways and by avoiding negative externalities through improving their living conditions by restoring their terrestrial and/or marine environment.

Innovation Action 16-25M EUR/projekt 3-4 nyertes projekt

LC-GD-8-1-2020 : Innovative, systemic zeropollution solutions to prptect health, environment and natural resources from prsistent and mobile chemicals

Cél:

 To advance our knowledge on health impacts and environmental effects and to address a specific pollution problem of contamination of environmental resources (such as soil and drinking water).

Corvinus számára bekapcsolódási lehetőség:

- The solutions should lead to cost-effective mitigation or elimination of the issues (e.g. mitigation or remediation efforts in particularly affected geographic areas), and prevent and better understand negative impacts of the persistent and mobile chemicals on humans and the environment throughout their entire lifecycle.
- The projects may include appropriate technologies, business, governance and social innovation aspects and cover all innovation deployment phases up to the realisation of innovative solutions in the real life conditions (the first market applications, TRL 7-8)

Research and Innovation Action 8-12M EUR/projekt 4-5 nyertes projekt

LC-GD-8-2-2020 : Fostering regulatory science to address chemical and pharmaceutical mixtures: from science to evidence-based policies

Cél:

 applied research studies, demonstrating how regulatory science can apply new tools and methodological approaches based on the latest scientific evidence, to quantify and prevent harmful co-exposures to industrial chemicals and pharmaceuticals.

Corvinus számára bekapcsolódási lehetőség:

- Evidence-based solid case studies of which safety margins would actually protect people, including vulnerable groups, and ecosystems, while taking accumulated exposure into account over a longer time scale;
- Develop and apply modelling, statistical approaches and other relevant methods to study the impacts of chemical mixtures on human populations and the environment, e.g. through linking particular cases identified and effects on the wider population and on ecosystems;
- Comparisons of different possible regulatory approaches to manage chemical mixtures with current situation, including regarding effectiveness (improved protection of health and the environment), workability, cost-effective methods and benefits to society and business;

LC-GD-9-1-2020 : European Research Infrastructures capacities and services to address European Green Deal challenges

Cél:

- 1) Support EU leadership in clean energy storage technologies coordinated and integrated provision of transnational and virtual access by wide communities of key research infrastructures as well as joint developments of specific services to facilitate and integrate the access procedures, to improve and customise the services the infrastructures provide, and to further develop on-line and testing services.
- 2) European research infrastructures and monitoring networks for greenhouse gases observing, air quality and citizens' health in cities - Scientific and technical work, i.e. the drafting of concepts, architecture and engineering plans for extending and upgrading existing European research infrastructures etc.

Corvinus számára bekapcsolódási lehetőség:

- this action brings together several complementary and interdisciplinary facilities relevant for energy storage research and innovation, addressing different TRLs and covering the whole value chain in view of possible industrial applications.
- transnational and virtual access to technically advanced instrumentation and scientific methods in a coordinated and user-friendly way as well as training for their use and services linked to material modelling, data mining and experiment design.

Innovation Action 16-25M EUR/projekt 3-4 nyertes projekt

LC-GD-9-2-2020 : Developing end-user products and services or all stakeholders and citizens supporting climate adaptation and mitigation

Cél:

inform citizens and decision-makers about the impacts of climate change in the decades to come, identify adaptation
options, and illustrate what pathways towards climate neutrality entail in terms of production, consumption, planning and
lifestyle, incorporating behavioural factors (building knowledge, synthetizing knowledge, multiplying outreach)

Corvinus számára bekapcsolódási lehetőség:

- Converting the mitigation pathways that are compatible with EU climate goals and adaptation strategies for potential
 impacts to 2050 and beyond into clear information about how production, consumption, infrastructure and lifestyle needs
 to change.
- Contributing to delivering the next-generation of climate services, in collaboration with the commercial sector, through addressing part or all of the downstream part of the value chain, focusing on sectoral and geographical gaps, providing actionable information to nonspecialists for adapting to extreme climate events and new climatic conditions

Research and Innovation Action 3-5M EUR/projekt 1 nyertes projekt

LC-GD-9-3-2020 : Towards a transparent and accessible ocean (a Digital Twin of the Ocean)

Cél:

Develop interactive virtual tool to observe oceans, increase the capacity to observe waters

Corvinus számára bekapcsolódási lehetőség:

Integrate a wide range of data sources

Innovation Action 12M EUR 1 nyertes projekt

LC-GD-10-1-2020: European capacities for citizen deliberation and participation for the Green Deal

Cél:

- Establish transnational networks of experts, researchers, practitioners and relevant civil society organisations specialised on deliberative democracy and civic participation across Europe, including professionals in the field of public engagement.
- share good practice, tools and resources and implement participatory and deliberation processes on priority issues in order to deliver on the Green Deal, both at the level of local communities and at wider scale.

Corvinus számára bekapcsolódási lehetőség:

- [felhívás egésze]
- Implement deliberation processes and behavioural research on priority issues to deliver on the Green Deal
- Experts on gender equality and climate justice should also be included

Research and Innovation Action 3-5M EUR/projekt 1 nyertes projekt

LC-GD-10-2-2020: Behavioural, social and cultural change for the Green Deal

Cél:

- behavioural change at individual and collective levels, including public and private organisations.
- transnational and transdisciplinary networks of experts, researchers, practitioners and relevant civil society organisations on behavioural, social and cultural change.
- jointly analyse social and behavioural change, share good practice, tools and resources and implement participatory and deliberation processes on priority issues in order to deliver on the Green Deal, both at the level of local communities and at wider scale.
- Corvinus számára bekapcsolódási lehetőség:
- [felhívás egésze]
- Vulnerable and marginalised people, minorities and various age groups, including both youth and elder generation, as well as both urban and rural areas, will be considered and included. Gendered issues will receive specific consideration. Change at the workplace will also be addressed, as well as from collective entities such as the behaviour of businesses, public services and other organisations.

Research and Innovation Action 3-5M EUR/projekt 1 nyertes projekt LC-GD-10-3-2020: Enabling citizens to act on climate change for sustainable development and environmental protection through education, citizen science, observation initiatives and civic engagement

Cél:

- development and implementation of a multidisciplinary European competence framework within the context of lifelong learning for the development and assessment of knowledge, skills and attitudes of citizens and in particular young people on climate change and sustainable development.
- involvement of citizens in climate- and environment-related issues and domains, such as biodiversity, marine and freshwater pollution and sustainable food.
- focus on the active participation of citizens through citizen science, environmental observation and civic consortia.
 Projects should be conducted on a broad scale, in cooperation with businesses, civil society organisations and public authorities to ensure that these actions will lead to examples on how to engage the wider community in the effective behavioural changes needed for a successful and just transition.
- Solutions close to application
- Corvinus számára bekapcsolódási lehetőség:
- [felhívás egésze]
- Attention should be paid to promoting gender-equal participation and deconstructing gender stereotypes

Innovation Action 3-5M EUR/projekt 1 nyertes projekt

Gyakorlati továbblépés

- 2020. szeptember felhívások megjelennek 2021 január beadás
- Felhívásszövegek pontos megismerése
- Konzorciumkeresés, -építés
- 2020. szeptember-október partnerkereső rendezvények
- Kutatók és kutatásmenedzsment együttműködése pályázati szándék időben való jelzése, kommunikáció, költségvetés egyeztetése
- BCE Pályázati Projektmenedzsment csoport (dr. Cser Erika, Fekete Judit) – támogatás a pályázati kiírás értelmezéséhez, partnerkereséshez, részvételhez
 horizon@uni-corvinus.hu

Felhívások -> Funding and Tenders Portal



Partnerkeresés – hogyan?

- Saját network
- National Contact Point hálózat NKFIH
- 2020. szeptember-október partnerkereső rendezvények
 - 2020. szeptember 22-24. Research and Innovation Days https://research-innovation-days.ec.europa.eu/

Expression of interest

 2020. október 7. Net4Society által szervezett társadalomtudományi fókuszú partnerkereső rendezvény

https://www.net4society.eu/en/Virtual-Brokerage-Event-SSH-in-the-Green-Deal-Call-1994.html

2020. október 13-14. az Enterprise Ireland által szervezett partnerkereső rendezvény <u>https://h2020-green-deal-call-dublin.b2match.io/</u>

BCE Pályázati Projektmenedzsment csoport támogatást nyújt a pályázatokhoz, partnerkereséshez





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Kérdések

Köszönöm a figyelmet!

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