

THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020



18 nóvember 2015

Kristmundur Þór Ólafsson, Rannís



Hvað er Horizon 2020?

- Rammaáætlun ESB um rannsóknir og nýsköpun
- 78 milljarðar Evra (2014-2020)-(~11.987.040.000.000 ÍSL)
- Samstarfsverkefni á öllum fræðasviðum og aukin tenging á milli rannsókna, nýsköpunar og markaðsins.
 - Fjármagna á rannsóknir til að mæta samfélagslegum áskorunum. (öryggi, umhverfi, orka etc.)
 - Styrkja stöðu ESB og Evrópu í alþjóðlegu samhengi á sviði rannsókna, nýsköpunar og tækni.
 - Með áætluninni er verið að bregðast við efnahagsþrengingum með því að fjárfesta í fleiri störfum og auknum hagvexti.

**Excellent Science
(24.4 B €)**

European Research
Council
(13.1 B €)

Future and Emerging
Technologies
(2.7 B €)

Marie Skłodowska-Curie
Actions
(6.1 B €)

Research Infrastructures
(2.5 B €)

**Industrial Leadership
(17 B €)**

LEIT = Leadership in
enabling and industrial
technologies

- ICT
- Nano, new materials
- Biotechnology
- Space

(13.5 B €)

Access to Risk Finance
(2.9 B €)

Innovation in SMEs
(0.6 B €)

**Societal Challenges
(29.7 B €)**

Health
(7.5 B €)

Food
(3.9 B €)

Energy
(6 B €)

Transport
(6.3 B €)

Climate
(3 B €)

Inclusive Societies
(1.3 B €)

Security
(1.7 B €)

Spreading Excellence (0.8 B €)

Science for Society (0.5 B €)

EIT (2.7 B €)

JRC (1.9 B €)

Euratom (1.6 B €)

Fyrir hverja er Horizon2020?

- Allir lögaðilar geta sótt um í áætlunina: Lítil og stór fyrirtæki, háskólar, ríkisstofnanir, sveitarfélög, félagssamtök og í sumum tilfellum einstaklingar).
- Mismunandi aðkoma að verkefnum sem tengja grunn rannsóknir við framkvæmd (end user).
- Almennt gerð krafa um a.m.k. 3 aðila frá mismunandi aðildarríkum Evrópusambandsins eða Associated states t.d. Íslandi, Noregi og Lichtenstein, [sjá lista](#).
- Ísland er fullgildur aðili að áætluninni og hafa íslenskir aðilar því jafnan rétt og aðilar innan Evrópusambandinu til að sækja um styrki.

– inclusive, innovative and reflective Societies

- CO-CREATION FOR GROWTH AND INCLUSION
- REVERSING INEQUALITIES AND PROMOTING FAIRNESS
- ENGAGING TOGETHER GLOBALLY
- UNDERSTANDING EUROPE - PROMOTING THE EUROPEAN PUBLIC AND CULTURAL SPACE
 - CULT-COOP-01-2017: Democratic discourses and the rule of law
 - CULT-COOP-02-2017: Improving mutual understanding among Europeans by working through troubled pasts
 - CULT-COOP-03-2017: Cultural literacy of young generations in Europe
 - CULT-COOP-04-2017: Contemporary histories of Europe in artistic and creative practices
 - CULT-COOP-05-2017: Religious diversity in Europe - past, present and future
 - CULT-COOP-06-2017: Participatory approaches and social innovation in culture
 - [CULT-COOP-07-2017: Cultural heritage of European coastal and maritime regions](#)
 - CULT-COOP-08-2016: Virtual museums and social platform on European digital heritage, memory, identity and cultural interaction.
 - CULT-COOP-09-2017: European cultural heritage, access and analysis for a richer interpretation of the past
 - CULT-COOP-10-2017: Culture, integration and European public space

Lýsing viðfangsefna (Topics) í vinnuáætlun

➤ **Áskorun: (Specific Challenge)**

- Útskýrir samhengið.
- Útlistar þær áskoranir sem þarf að mæta og hversvegna íhlutunar sé óskað.

➤ **Umgjörð : (Scope)**

- Útlistar vandamálin nánar
- Útskýrir nánar þann ‘ramma’ sem á við um hvert vandamál.
- Útlistar **EKKI** sérstakar leiðir til að leysa vandamálið.

➤ **Áhrif: (Expected Impact)**

- Útskýrir lykilatriði er varðar áhrif niðurstaðna og hvernig þau tengjast þeirri áskorun sem á að leysa.
- Hvaða mælikvarðar eru notaðir til þess að meta árangur verkefna?

CULT-COOP-07-2017: Cultural heritage of European coastal and maritime regions

Specific Challenge:

This RIA complements previous and on-going EU research on cultural heritage in rural, mountainous and urban settings. **European coastal and maritime regions have - over several millennia - developed a rich, multi-layered and varied cultural heritage.** At the crossroads of different types of contacts of European peoples with each other and with other regions of the world (from commerce to conquest, from cultural exchange to mass tourism) **they represent an extremely rich tangible heritage (coastal towns and villages, submerged landscapes and underwater artefacts, harbours, dams, light houses, arsenals, buildings of the fishing and marine industry, boat builders, etc.).** As a result of a combination of natural landscapes and human ingeniousness, including unique types of transcultural communication and ethnic diversity, specific coastal cultural landscapes emerged on the shores and sea beds of Europe. This tangible heritage is intimately embedded into the multiple layers of intangible heritage, from myths to daily practices, languages, traditions and crafts of local cultures of communities of sailors, fishermen, boat builders, merchants, etc. **Today, coastal cultural landscapes are very much exposed to environmental challenges such as climate change (rising sea levels), other forms of pollution,** dense or scattered urbanisation, **tourism pressure, the fundamental transformation of the European fishing industry due to over-exploitation of fish stocks** and erratic policies of sea or shore conservation at national level. With several coastal zones being among the densest populated areas, mixed metropolitan coastal landscapes have emerged around historic port cities posing new challenges for conservation, management and transmission of existing tangible and intangible values. **Against this backdrop, research should provide local communities and local, national and European policy-makers with a coherent framework for risk assessment and sustainable management of European coastal cultural heritage in a way that involves local stakeholders.**

Scope:

The research will aim at **providing a comprehensive framework for the preservation of European coastal and maritime cultural landscapes. It should be geographically balanced and cover different types of European coastal and maritime cultural landscapes** taking into account various historical backgrounds and the current state of these regions, as they range from the most popular destinations of mass tourism to the most peripheral regions of Europe. **The research - multidisciplinary to the extent required by its inherent and explicit research approach - might combine approaches and methodologies of cultural heritage preservation, social sciences and humanities, spatial and environmental sciences.** It will cover both tangible and related intangible cultural heritage in order to provide a full picture of the societal importance of the cultural heritage of the landscapes under investigation. **The research should involve and further develop networks of scholars, local stakeholders and policy makers.** It will contribute to European efforts to promote evidence-based research on the impact of participatory approaches in cultural heritage policies and governance, as suggested by the Council of the European Union's conclusions on participatory governance of cultural heritage (2014/C 463/01). In addition, it will contribute to a better implementation of European policies on coastal zones and maritime areas, referring both to the 'Integrated Coastal Zone Management ICZM' ('Recommendation concerning the 'Integrated Coastal Zone Management' (2002/413/EC)) and to the 'Establishing a framework for maritime spatial planning' (Directive 2014/89/EU), thus providing evidence on how to link environmental and cultural policies.

The Commission considers that proposals requesting a contribution from the EU in the order of **EUR 2.5 million would allow this specific challenge to be addressed appropriately.** This does not preclude submission and selection of proposals requesting other amounts.

Expected Impact:

As a result of its reasonably multidisciplinary approach and mapping efforts, the **research will significantly deepen knowledge on the cultural heritage of European coastal and maritime regions. It will lay the basis of a comprehensive framework for the documentation and sustainable management and preservation of European coastal and maritime cultural landscapes** taking into account cultural, environmental, spatial and broader societal aspects.

The research will provide policy advice and create networks, concepts and tools on how to maintain and preserve this rich and diverse element of the European cultural heritage based on stakeholder involvement and participatory governance.

Case studies and tailor-made pilot projects of the research will allow putting in practice the proposed new tools, concepts and methodologies. Special attention will be given to the preservation and exploitation of both tangible and related intangible cultural heritage like traditional skills and know-how embodied in practices and corresponding knowledge systems. The project(s) will also explore the possibilities of new, sustainable, cultural heritage-related career and business opportunities in the studied regions.

Type of action: Research and Innovation action.

Health, demographic change and well-being

- ✓ ***Understanding health, well-being and diseases***
- ✓ ***Preventing diseases***
 - ✓ SC1-PM-07–2017: Promoting mental health and well-being in the young
- ✓ ***Treating and managing diseases***
- ✓ ***Active aging and self-management of health***
 - ✓ SC1-PM-15-2017: Personalised coaching for well-being and care of people as they age
- ✓ ***Methods and data***
- ✓ ***Health care provision and integrated care***

Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy

- ✓ **Sustainable Food Security – Resilient and resource-efficient value chains.**
- ✓ **Blue Growth - Demonstrating an ocean of opportunities**
- ✓ **Rural Renaissance - Fostering innovation and business opportunities**
- ✓ **Bio-based innovation for sustainable goods and services - Supporting the development of a European Bioeconomy**

Mismunandi styrkir

- Styrkhlutfall 70-100% af beinum kostnaði.(t.d. laun, búnaður)
 - Research and innovation actions (collaborative projects, 100% funding)
 - Innovation actions (collaborative projects, 70% funding)
 - Coordination and support actions (100%)
 - Small and medium sized enterprises (1. föst upphæð, 2. 70-100%)
- Fast overhead greitt ofan á fjármögnun (25%)
- Stærðir styrkja eru allt frá 1 milljón evra í 12 milljónir evra á verkefni (5-8 algengast)

	Direct costs	Indirect costs	Total costs	% EU contribution	EU contribution
100/25 Funding	100	25	125	100%	€ 125

- Allstaðar í H2020 ætluninni og er mjög opin.
- Einfaldara umsóknarferli.
- Stuðlar að nýsköpun og fjölgun starfa.
- Einungis fyrir smá og meðalstór fyrirtæki
 - – Eitt fyrirtæki umsækjandi eða nokkur saman.
- Þrjú stuðningsfasar. (allir í röð eða hver í sínu lagi)
 1. Nýsköpunarstyrkir til fyrirtækja (fýsileikakannanir, föst upphæð EUR 50,000 á hvert verkefni);
 2. Nýsköpunarstyrkir fyrir þróunarstarf á milli EUR 0.5 – 2.5 milljón á hvert verkefni) (70% styrkhlutfall, 100% í undantekningartilfellum)
 3. Ókeypis aðgengi að viðskiptaþjálfun /-aðstoð. Stuðningur við að koma vöru/þjónustu á markað. (nýsköpunarmiðstöð)

✓ **Deadline 4 sinnum á ári fyrir fasa 1 og 2.**


SMEinst-2016-2017: Stimulating the innovation potential of SMEs for a low carbon and efficient energy system

Specific Challenge:

SMEs play a crucial role in developing resource-efficient, cost-effective and affordable technology solutions to decarbonise and make more efficient the energy system in a sustainable way. They are expected to strongly contribute to one or a combination of more than one of the challenges outlined in the legal base of the Horizon 2020 Societal Challenge 'Secure, Clean and Efficient Energy', in particular with regard to

- Reducing energy consumption and carbon footprint by smart and sustainable use (including energy-efficient products and services as well as 'Smart Cities and Communities'),
- Low-cost, low-carbon electricity supply (including renewable energy as well as CCS and re-use),
- Alternative fuels and mobile energy sources,
- A single, smart European electricity grid,
- New knowledge and technologies, and
- Robust decision making and public engagement.

Umsóknakerfið og mat umsókna.



The screenshot shows the Horizon 2020 Participant Portal website. At the top, there is a navigation bar with links for (A-Z), Sitemap, About this site, Contact, Legal Notice, and a language dropdown set to English. Below this is the European Commission logo and the text 'RESEARCH & INNOVATION Participant Portal'. A breadcrumb trail reads 'European Commission > Research & Innovation > Participant Portal > Home'. A secondary navigation bar includes 'HOME', 'FUNDING OPPORTUNITIES', 'HOW TO PARTICIPATE', 'EXPERTS', 'SUPPORT', 'LOGIN', and 'REGISTER'. The main content area features a banner for 'Horizon 2020 Funding Starting from 1/1/2014'. Below the banner, it states: 'On this site you can find and secure funding for research & innovation projects under the following EU programmes:'. A list of programmes follows: '2014-2020 Horizon 2020 - research and innovation framework programme' and '2007-2013 7th research framework programme (FP7) and Competitiveness & Innovation Programme (CIP)'. Two columns of user actions are provided: 'Non-registered users' (search for funding, read the funding guide, check registration status, contact support) and 'Registered users' (submit proposal, sign grant, manage project lifecycle). At the bottom, there are six icons representing different sections: 'WHAT'S NEW?', 'FUNDING OPPORTUNITIES', 'HOW TO PARTICIPATE', 'WORK AS AN EXPERT', 'MY PERSONAL AREA', and 'INFORMATION AND SUPPORT'. The footer contains 'RESEARCH ON EUROPA', 'CORDIS', 'OLAF', and '© European Communities'.

ec.europa.eu/research/participants/portal/

[CULT-COOP-07-2017: Cultural heritage of European coastal and maritime regions](#)

Umsóknin sjálf

Hámark: **70 síður** (50 síður fyrir CSA)

- **Excellence**

- M.a. Markmið, Concept, Hvernig rannsóknin / verkefnið nær að búa til nýja þekkingu á umræddu sviði.

- **Impact**

- M.a. Möguleg áhrif (með tilvísun í vinnuáætlun); hvernig aðferðum er beytt til að hámarka áhrif verkefnisins. (Kynningar, frekari hagnýting niðurstaðna)

- **Implementation**

- Hvernig er vinnunni skipt niður í afmarkaða verkþætti (vinnupakka).
- Hverjir hafa aðkomu að verkefninu.

Mat umsókna fer eftir:



- **1. Excellence**
 - Clarity of the objectives;
 - Soundness of the concept, including transdisciplinary considerations;
 - Credibility of the proposed approach;
 - Progress beyond the state of the art.
- **2. Impact [...] extent to which project outputs contribute to:**
 - The expected impacts listed in the work programme under the relevant topic;
 - Enhancing innovation capacity and integration of new knowledge;
 - *[Strengthening the competitiveness and growth of companies by developing innovations meeting the needs of European and global markets;]*
 - Effectiveness of the proposed measures to communicate the project, disseminate and/or exploit the project results, and appropriate management of IPR.
- **3. Quality and efficiency of implementation**
 - Coherence and effectiveness of the work plan, including appropriateness of the allocation of tasks and resources;
 - Competences, experience and complementarity of the individual participants, as well as of the consortium as a whole;
 - Appropriateness of the management structures and procedures, including risk management.

MAT á umsóknum.

- Óháðir sérfræðingar meta umsóknir.
 - Hver þáttur umsóknar er metinn á skalanum 1 – 5.
 - Umsókn verður að fá a.m.k 3 í einkunn í öllum þáttum.
 - Ef heildareinkun er undir 10 er umsókn ógild.



- Hver sem er getur skráð sig sem matsmann.

Stuðningur Rannís

- Landstengiliðir fyrir hverja áætlun.
- Upplýsingagjöf við umsóknargerð; um einstaka þætti áætlunarinnar, **umsóknarfresti**, **áherslur** og möguleika íslenskra aðila.
- Aðstoð við að finna erlenda **samstarfsaðila**.
- **Kynningar** fyrir áhugasama.
- Sóknarstyrkir.
 - **Ferðastyrkir** (kr. 200.000)
 - **Kaup á ráðgjafabjónustu** (kr. 250.000)
 - **Styrkir vegna umsóknarskrifa** (kr. 500.000)



Umsóknafrestur 1 sinni á ári

Horizon2020 á Íslandi

- Íslenskar umsóknir **174**
- **35 samningar** í október 2015
- Í heildina **€20.900.000** milljónir til Íslands 2014-2015.
- Mest virkni í **Heilsa, Matvælamálum og Marie-Curie.**
- Aukning í Orkuáætlun

Árangurshlutfall: **20,11%** (okt. 2015)

Íslenskum stofnunum/fyrirtækjum gengur vel ef þau reyna.

Af hverju að reyna

- Ef þið fáið styrk þá er eruð þið að fá beinan kostnað (75-100%) greiddan t.d. laun, tækjabúnaður, ráðgjafapjónusta og 25% overhead.
- Ef þið reynið en fáið ekki styrk hafið þið samt..
 - Styrkt alþjóðlegt samstarf
 - Þróað verkefnahugmynd með erlendum samstarfsaðilum
 - Öðlast verðmæta reynslu í umsóknagerð

og

- Getið sótt um aftur (með endurbótum),
- Sótt um annarstaðar
- Hrint hugmyndinni í framkvæmd.





Allar upplýsingar og umsóknir:

Participants Portal:

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

Vefsíða Horizon 2020:

<http://ec.europa.eu/programmes/horizon2020/>

Allar Vinnaáætlanir 2016-2017:

http://ec.europa.eu/research/participants/portal/desktop/en/funding/reference_docs.html#h2020-work-programmes-2016-17

Rannís:

<http://www.rannis.is/sjodir/rannsoknir/horizon-2020/>