



Horizon 2020: How to Write a Competitive Proposal Ivan Kulchytskyy NCP ICT&SME

http://ictncpua.blogspot.com

http://smencpua.blogspot.com

Agency of European Innovations

www.aei.org.ua





What is Horizon 2020?



Horizon 2020 is the financial instrument implementing the Innovation Union, a Europe 2020_flagship initiative aimed at securing Europe's global competitiveness.



By coupling research and innovation, H2020 aims:

- to ensure Europe produces world-class science,
- to remove barriers to innovation
- to make it easier for the public and private sectors to work together in delivering innovation.

Coverage of the full innovation chain



Basic Research

Demonstration

Technology R&D

Prototyping

Pilots

Large scale

validation

Market uptake

EC Updates H2020 Work Programmes 2016-2017

The new Horizon 2020 work programmes for 2016-2017 have been adopted on 25 July 2016.

The European Commission also announced an investment of **€8.5** billion to be released during 2017 into research and innovation.

The updated Work Programmes introduces important novelties. A particularly important change is the introduction of <u>open research</u> <u>data</u> as a default option in all new H2020 calls and the strong commitment to <u>research integrity and simplification</u> as drivers for research quality.

For projects funded under the programmes, free online access to scientific data will become the norm.

The programmes also reacts to topical developments by reinforcing research into migration in response to the refugee crisis.



ICT in H2020



Part of Industrial Leadership

https://ec.europa.eu/digital-single-market/en/information-communication-technologies-horizon-2020

ICT brings unique responses to society's challenges such as the growing needs for sustainable healthcare and ageing well, for better security and privacy, for a lower carbon economy and for intelligent transport.

EU investment will support the ICT research and innovation that can best deliver new business breakthroughs, often on the basis of emerging technologies.

In particular, ICT in Horizon 2020 will support the development of ICT in Science, ICT in industrial leadership and ICT in societal challenges.

ICT Calls



ICT CALLS IN HORIZON 2020

Supporting innovation and competitiveness

ICT Budget H2020

Budget 2014-2015 € 1609 million

Budget 2018-2020 € 4509 million

Budget 2016-2017 € 1593 million

Typical Projects



Consortium size 5-15 Partners





Funding contribution

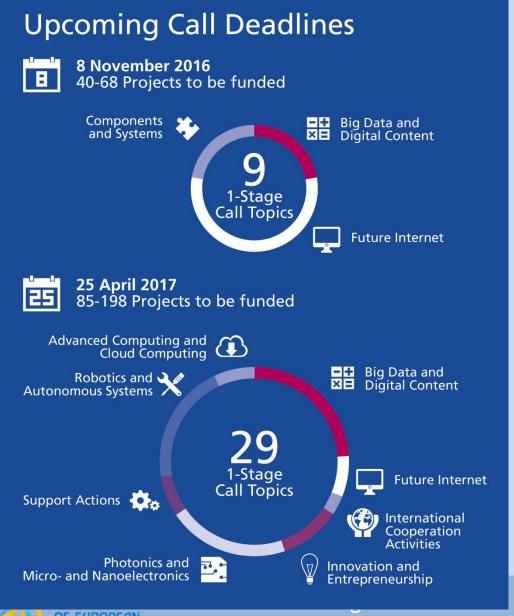


Project duration 3-5 Years



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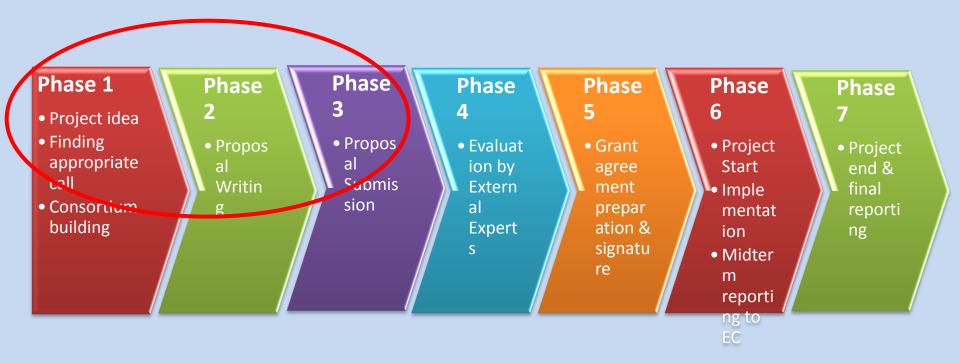
ICT Calls 2016-2017





From Idea to implementation





Preparation of proposal

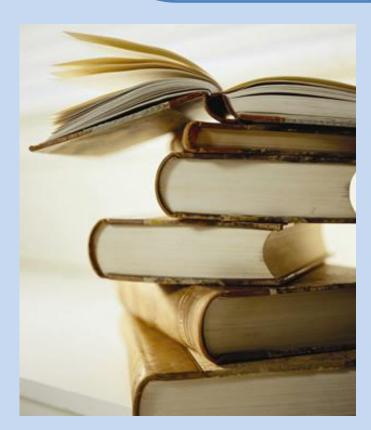


- Proposal: Your application
 - Proposal submission forms (e.g. general info, participants, budget, ethics)
 - Part B Section 1-2-3 (the technical work programme, objectives and impacts)
 - Part B Section 4-5 (consortium, ethics and security)
 - Optional: Ethics annex
- Participants Portal: home of the Commission's electronic submission tool – obligatory for H2020 proposals
- Consortium: A team of organisations submitting the proposal –
 with one defined Coordinator

Before you start... key documents

- > Work Programme': background, topics and budgets
- > General annexes to the general Work Programme: list of countries, eligibility and admissibility conditions, evaluation criteria and procedure, scoring and thresholds, etc.
- > Submission forms and templates: essential forms and guides to draw up and submit your proposal
- > Guide to the submission and evaluation process







Define your specific objective & target group

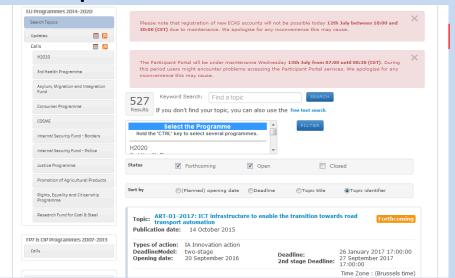
- What concretely would you like to achieve?
- Whom do you want to address?
- Make sure you know the current (market) situation and your starting point
- For market uptake actions (CSA), make sure you check the Cordis project database
- Take a reality check before you invest your time: investigate the interest amongst target group and major stakeholders

How to find funding for your research idea?



- Horizon 2020 offers a variety of funding opportunities
 - project idea /concept with high innovation

potential



HORIZON 2020 The EU Framework Programme for Research and Innovation What is Find your area Horizon 2020 Aquatic Resources Horizon 2020 **Programme** Energy Environment & Climate Action Food & Healthy Diel ▶ Health Kev Enabling Technologies Raw Materials SMES

 $https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/search/s earch_topics.html\#c,topics=callStatus/t/Forthcoming/1/1/0/default-group&callStatus/t/Open/1/1/0/default-group&callStatus/t/Closed/0/1/0/default-group&+identifier/desc$

PARTICIPANT PORTAL



The Participant Portal is the single entry point for electronic administration of EU-funded research and innovation projects, and hosts the services for managing your proposals and projects throughout their lifecycle



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

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participant portal

particip**ant portal**particip**io passato**particip**io passato di soccombere**particip**io passato di splendere**

Ulteriori informazioni

Rimuovi

I cookie ci aiutano a fornire i nostri servizi. Utilizzando tali servizi, accetti l'utilizzo dei cookie da parte nostra.

Informazioni OK

Home - Research Participant Portal

ec.europa.eu/.../participants/portal/desktop/.../home... ▼ Traduci questa pagina Research Participant Portal is your entry point for electronic administration of EUfunded research and innovation ... Research & Innovation - Participant Portal. Hai visitato questa pagina 2 volte. Ultima visita: 29/09/14

Calls

H2020 Calls - Individual Fellowships -H2020 Call Updates

Opportunities

Calls - Search Topics - H2020 Call Updates - Cosme - Other Calls

Experts

The Participant Portal - Expert Management Service - will be ...

Altri risultati in europa.eu »

Funding

Organisation Search - Reference Documents - SME Participation

Projects - Research Particip...

Research Participant Portal is your entry point for electronic ...

Organisation Search

If you want to participate in a project proposal, your ...

Research Participant Portal - European Commission - Europa

ec.europa.eu/research/participants/portal/.../call_FP... ▼ Traduci questa pagina PLEASE UPDATE YOUR BOOKMARKS. The page you have requested: http://ec.europa.eu/research/participants/portal/page/call FP7/ is not available, or has ...



RESEARCH & INNOVATION

Participant Portal

European Commission > Research & Innovation > Participant Portal > Hop

HOME

FUNDING OPPORTUNITIES

HOW TO PARTICIPATE

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- LOGIN



REGISTER



Horizon 2020 Funding

Starting from 1/1/2014

On this site you can find and secure funding for 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)
- Research Fund for Coal & Steel, COSME, 3rd Health Programme, Consumer Programme

Non-registered users

- · search for funding
- read the H2020 Online Manual & 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
- register as expert advising the Commission



WHAT'S NEW?







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MY PERSONAL



INFORMATION



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European Commission > Research & Innovation > Participant Portal > Funding

FUNDING OPPORTUNITIES HOME

HOW TO PARTICIPATE

EXPERTS

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H2020 ONLINE MAN

A LOGIN









How to participate

The first steps to prepare your proposal and apply for EU research funding. Le how to find a suitable Call for proposals or project partners and how to submit proposal.

The following guidance services facilitate your participation:

- H2020 Online Manual: step-by-step online guide through the Portal proc from proposal preparation and submission to reporting on your on-going p
- · Reference documents: library of legal documents, guidance notes, and a reference material for H2020 and FP7
- · search for already registered organisations and their PICs
- · Financial viability self-check tool allows you simulating the financial via check of your organisation
- SME participation: dedicated H2020 guidance page for SME



Step 1 - Find a suitable Call for Proposals | H2020 ONLINE MANUAL



- biotechnology 2016-17 > Siii.Space 2016-17)
- 6. Access to risk finance 2016-17 >
- 7. nnovation in SMEs 2016-17)
- B.Health, demographic cliange and wellbeing 2016-17)

Si. nformation and communication technologies (CT) 2016-17)

9. Food security, sustainable agriculture and forestry, marine and maritime and inland water research and tile bioeconomy 2016-17

5. ntroduction to Leadership in enabling and industrial technologies (LEITs) 2016-17

Sii.Na notechnologies, advanced materials, advanced manufacturing and processing,

- 10. Secure, clean and efficient energy 2016-17)
- 11. Smart, green and integrated transport 2016-17
- 12. Climate action, environment, resource efficiency and ral't materials 2016-17)
- 13. Europe in a cha Aging world inclusive, innovative and reflective societies 2016-17
- 14. Secure societies protecting freedom and security of Europe and its citizens 2016-17)
- 15. Spreading excellence and widening participation 2016-17
- 16. SciellCe withand for society 2016-17
- 17. Cross-cutting activities (Focus Areas) 2016-17 (NEW)
- 18. Fast Track to nnovation Pilot 2016-17 >
- 19. Dissemination, Exploitation and Evaluation 2016-17
- General Annex es to ttle Main WP
- ii Europe.an Research Council
- Euratom
- Ii Tempi at es & forms

 - www.aei.org.ua
 Proposalevaluation forms





ONS

Call

Work programme

Topic

Horizon 2020

Work Programme 2016 - 2017

5.i. Information and Communication Technologies

Important notice on the second Horizon 2020 Work Programme

This Work Programme covers 2016 and 2017. The parts of the Work Prelate to 2017 (topics, dates, budget) have, with this revised version, beed Description: Description: changes relating to this revised part are explained on the Participant Por Settings\Temporary Intern

(European Commission Decision C(2016)4614 of 25 July 2016)

HORIZON 2020 - Work Programme 2016 - 2017

HORIZON 2020 - Work Programme 2016 - 2017 Information and Communication Technologies

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Introduction	
Call - Information and Communication Technologies Call	'
A new generation of components and systems	
ICT-01-2016: Smart Cyber-Physical Systems	
ICT 02 2016: Thin, Organic and Large Area Electronics	
ICT-03-2016: SSI - Smart System Integration	
ICT-04-2017: Smart Anything Everywhere Initiative	
Advanced Computing and Cloud Computing	1
ICT-05-2017: Customised and low energy computing (including Low power processor	
technologies)	
ICT-06-2016: Cloud Computing	1
Future Internet	
ICT-07-2017: 5G PPP Research and Validation of critical technologies and systems	
ICT-08-2017: 5G PPP Convergent Technologies	
ICT-09-2017: Networking research beyond 5G.	3
ICT-10-2016: Software Technologies	
ICT-11-2017: Collective Awareness Platforms for Sustainability and Social Innovation	
ICT-12-2016: Net Innovation Initiative	3
ICT-13-2016: Future Internet Experimentation - Building a European experimental	
Infrastructure	3
Content	4
ICT-14-2016-2017: Big Data PPP: cross-sectorial and cross-lingual data integration and	
experimentation	4
ICT-15-2016-2017: Big Data PPP: Large Scale Pilot actions in sectors best benefitting	
from data-driven innovation	
ICT-16-2017: Big data PPP: research addressing main technology challenges of the data	1
economy	4
ICT-17-2016-2017: Big data PPP: Support, industrial skills, benchmarking and evaluati	
ICT-18-2016: Big data PPP: privacy-preserving big data technologies	4 4
ICT-19-2017: Media and content convergence	
ICT-20-2017: Tools for smart digital content in the creative industries	
ICT-21-2016: Support technology transfer to the creative industries	
ICT-22-2016: Technologies for Learning and Skills	
ICT 22 2017: Interfaces for accessibility	

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ICT-24-2016: Gaming and gamification

Specific Challenge: The software games business is growing fast. Its technological and methodological underpinnings have been laid down in years of research and development. At a significantly lower scale, they are now finding their way into non-entertainment contexts, helping deliver substantial benefits, particularly in education, training, research and health. Recent European research projects have identified comprehensive roadmaps and are creating resources and state-of-the-art knowledge for European players to develop applied games more easily, faster and more cost-effectively. The challenge is to mainstream the application of gaming technologies, design and aesthetics to non-leisure contexts, for social and economic benefits. Supporting the expansion of applied gaming and gamification will not only create new solutions and methodologies to address societal issues, but it will also help SMEs to seize new business opportunities.

Scope: Technology transfer through small scale experiments on developing and validating open gaming technologies and mechanics including from sectors other than the gaming industry into non-leisure situations and scenarios for training and motivational purposes. Actions shall integrate contributions from game developers, researchers from social science disciplines and the humanities, publishers, educational intermediaries and end-users. Activities shall include work on gaming technologies (augmented and mixed reality, 3D audio and video, virtual worlds, interactive storytelling, narratives, modelling and data, etc.), learning and behavioural triggers (pedagogical effectiveness, engagement, creativity, collaborative behaviours, proactive) and social science aspects (potential risks and challenges, privacy, gender and ethical issues etc.).

The Commission considers that proposals requesting a contribution from the EU of about EUR 1 million would allow this area to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

Expected Impact: Increased take up of gaming technologies in non-leisure contexts — and specifically in concation and for social inclusion, measured by the number of new businesses and applications generated by the action.

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Type of Action: Innovation action

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

TOPICS structure



TOPICS structure

SPECIFIC CHALLENGE

 sets the context, the problem to be addressed, why intervention is necessary

SCOPE

 delineates the problem, specifies the focus and the boundaries of the potential action BUT without describing specific approaches

EXPECTED IMPACT

• describe the key elements of what is expected to be achieved in relation to the specific challenge

TYPE OF ACTION

• e.g. Research and Innovation Action (RIA), Innovation Action (IA), SME instrument; exc.



H2020: What type of actions?

RIA

Research & innovation

actions that establish new knowledge or develop more energy-efficient technologies and solutions.

EU funding rate: 100%.

IA

Innovation

viability of new technologies and solutions or support their first deployment in the market.

* 100% for non-profit legal entities

3 beneficiaries 3 bene

CSA

Coordination & support

actions* that improve skills, mobilise large-scale investments or facilitate EU policy implementation.

EU funding rate: 100%.

3 beneficiaries

Mostly 3 beneficiaries (with some exceptions to 1 beneficiary, check the Work Programme)

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RESEARCH AND INNOVATION ACTION (General Annex)

Activities aiming to establish new knowledge and/or to explore the feasibility of a new or improved technology, product, process, service or solution. For this purpose they may include basic and applied research, technology development and integration, testing and validation on a small-scale prototype in a laboratory or simulated environment.

Projects may contain closely connected but limited demonstration or pilot activities aiming to show technical feasibility in a near to operational environment.

Reimbursed up to 100% of eligible costs

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INNOVATION ACTION (General Annex)

AGENCY
OF EUROPEAN
INNOVATIONS

Action primarily consisting of activities directly aiming at producing plans and arrangements or designs for new, altered or improved products, processes or services. For this purpose they may include prototyping, testing, demonstrating, piloting, large-scale product validation and market replication.

Reimbursement of the 70% (except for non-profit legal entities, where a rate of 100% applies) of eligible costs

A 'demonstration or pilot' aims to validate the technical and economic viability of a new or improved technology, product, process, service or solution in an operational (or near to operational) environment, whether industrial or otherwise, involving where appropriate a larger scale prototype or demonstrator.

A 'market replication' aims to support the first application/deployment in the market of an innovation that has already been demonstrated but not yet applied/deployed in the market due to market failures/barriers to uptake.'

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COORDINATION AND SUPPORT ACTION (General Annex)

ROPEAN ATIONS

Actions consisting primarily of <u>accompanying measures</u> such as standardisation, dissemination, awareness-raising and communication, networking, coordination or support services, policy dialogues and mutual learning exercises and studies, including complementary activities of strategic planning, networking and coordination between programmes in different countries.

Reimbursed up to 100% of eligible costs

Call identifier: H2020-ICT-2016-2017

Time Zone: (Brussels time) Topic: ICT-19-2017: Media and content convergence Open Publication date: 14 October 2015 Types of action: CSA Coordination and support action, IA Innovation action DeadlineModel: single-stage Deadline: 08 November 2016 17:00:00 Opening date: 10 May 2016 Time Zone: (Brussels time) Topic: ICT-20-2017: Tools for smart digital content in the creative industries Forthcoming Publication date: 14 October 2015 Types of action: RIA Research and Innovation action DeadlineModel: single-stage Deadline: 25 April 2017 17:00:00 08 December 2016 Opening date: Time Zone: (Brussels time) Topic: ICT-23-2017: Interfaces for accessibility Forthcoming Publication date: 14 October 2015 Types of action: IA Innovation action, RIA Research and Innovation action DeadlineModel: single-stage Deadline: 25 April 2017 17:00:00 Opening date: 08 December 2016 Time Zone: (Brussels time) Topic: ICT-25-2016-2017: Advanced robot capabilities research and take-up Forthcoming Publication date: 14 October 2015 Types of action: IA Innovation action, RIA Research and Innovation action DeadlineModel: single-stage Deadline: 25 April 2017 17:00:00 Opening date: 08 December 2016 Time Zone: (Brussels time) Topic: ICT-27-2017: System abilities, SME & benchmarking actions, safety certification Forthcoming 14 October 2015 Publication date:

Показати всі завантаження



www.aei.org.ua www.cstei.lviv.ua

annex.doc

annex.pdf



Produce a first outline of your idea

Write a preliminary 2-3 pages about your:



- > objectives
- > target group
- > major steps (work packages)
- intended consortium (countries, types of organisations)
- > Internal reality check: Use it as first base to discuss with potential partners
- External reality check: Consult with market actors check their understanding and interest. Profit from their feedback to decide whether to take your idea forward

CORE STEPS



- Project Idea => concept with high innovation potential
- Selection of the Horizon 2020 Call that matches your project idea
- Preparation of your Research Profile (profile of your institution)
- Searching partners in EU relevant to the Call
- Register in ECAS (get a PIC number and validate your institution)
- Read the latest EU documents related to your topic:
 - Work programme (https://ec.europa.eu/programmes/horizon2020/h2020-sections)
 - Europe 2020 strategy (http://ec.europa.eu/europe2020/index_en.htm)
 - EU policies (<u>http://ec.europa.eu/policies/index_en.htm</u>)
- Read the latest scientific papers related to your topic



http://cordis.europa.eu/projects/home en.html

Previous projects in FPs



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English (en)



CORDIS

Community Research and Development Information Service

European Commission > CORDIS > Projects > Home



Subject

Programme

FP7 (22890)

FP6 (10076)

FP5 (17204)

Other

Country

Browse projects by

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Funding Programmes Projects and Results

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The Projects Service is your one stop shop for information on EU-funded research projects.

You can find and access all the European Commission's information in the lifecycle of each project: the grant details, funding and participants, the projects' own Report Summaries, multilingual Results in Brief and project Top Stories, and links to scientific publications and other documents.

CORDIS project data includes FP7, FP6, FP5 and earlier programmes stretching back to 1990.

More info...

Latest 50 added projects ST

Do not miss



Special feature: 'Robots lend a helping hand'

Related services



News about projects

Huge potential of high performance computing showcased at HIPEAC

From revolutionising medical procedures to designing efficient wind and wave turbines, high performance computing could

NANOFORCE sheds some light on nanoparticle toxicity 2014-02-13

Nanotechnology is expected to be one of the vital technological drivers for transforming the EU

into a true Innovation Union, From improving cosmetics and fabrics to helping to preserve

Participant Country conference 2014-02-18 Search projects Advanced search



Design and invite your consortium

- Be selective make an appealing choice!
- Stay consistent keep to your objective & target group
- Do not cover the EU map artificially make a fitting choice
- Explore alternatives early, but be ready to change plan change/renounce a country if you do not secure THE right partner
- Keep your partners motivated agree a working method for the proposal phase, make a plan for their contributions

Description organization

- Full title of your organization
- PIC (partner's identification code)
- Description of the legal entity and its main tasks, with an explanation of how its profile matches the tasks in the proposal
- Curriculum vitae or description of the profile of the persons, including their gender, who will be primarily responsible for carrying out the proposed research and/or innovation activities
- A list of up to 5 relevant publications, and/or products, services (including widely-used datasets or software), or other achievements relevant to the call content;
- A list of up to 5 relevant previous projects or activities, connected to the subject of this proposal
- A description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work;





Partner search – profile in Cordis







→ Sign out



CORDIS

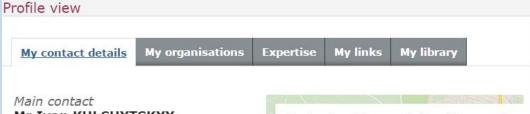
Community Research and Development Information Service

2NOITAVON



Ivan Kulchytskyy home

My profile Calls for proposals My partnerships My groups My recommendations My connections My activities

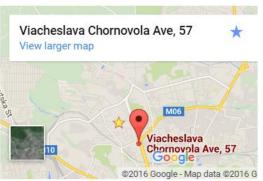


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Edit my contact details

Wall



Profile summary

Ivan Kulchytskyy (Ukraine) FP7 NCP





H2020 - MSCA-ITN, H2020 - MSCA-RISE, H2020 - LEIT-ICT, H2020 - LEIT-NANO, H2020 - LEIT-ADVMAT, H2020 - LEIT-BIOTECH, H2020 - LEIT-ADVMANU, H2020 - RISK-FINANCE, H2020 - SME,

One-Page Proposal Template



A tool for your Horizon 2020 idea see http://horizonbook.eu/resources/ one-page-proposal-template for more information

Title:

Try to find a descriptive title and an acronym.

Tentative Horizon 2020 work programme, call, and funding scheme:

This is needed for partner organisations to evaluate the financial and organisational feasibility.

Contact:

Name, email, organisation and telephone.

Proposal idea:

Description of the idea in no more than 3-5 sentences.

Objectives:

What do you want to achieve with your idea?

European Dimension:

Why should this be an EU/Horizon 2020 project?

One-Page Proposal Template



Results:

What concrete results will come out of your project?

Users:

Who can and will use the results of your project?

Impact:

What is possible once your project achieves its objectives and delivers its results?

Partners and roles:

Which functions and roles need to be filled?

Budget and duration estimate:

Budget in the order of thousands or millions of Euro?

- Project duration in months or years?
- Expertise your organization (additional page)





Thank for you attention Contacts

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NCP ICT&SME

http://ictncpua.blogspot.com

http://smencpua.blogspot.com

Lviv regional innovation center

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