

Bioeconomy support in Horizon 2020

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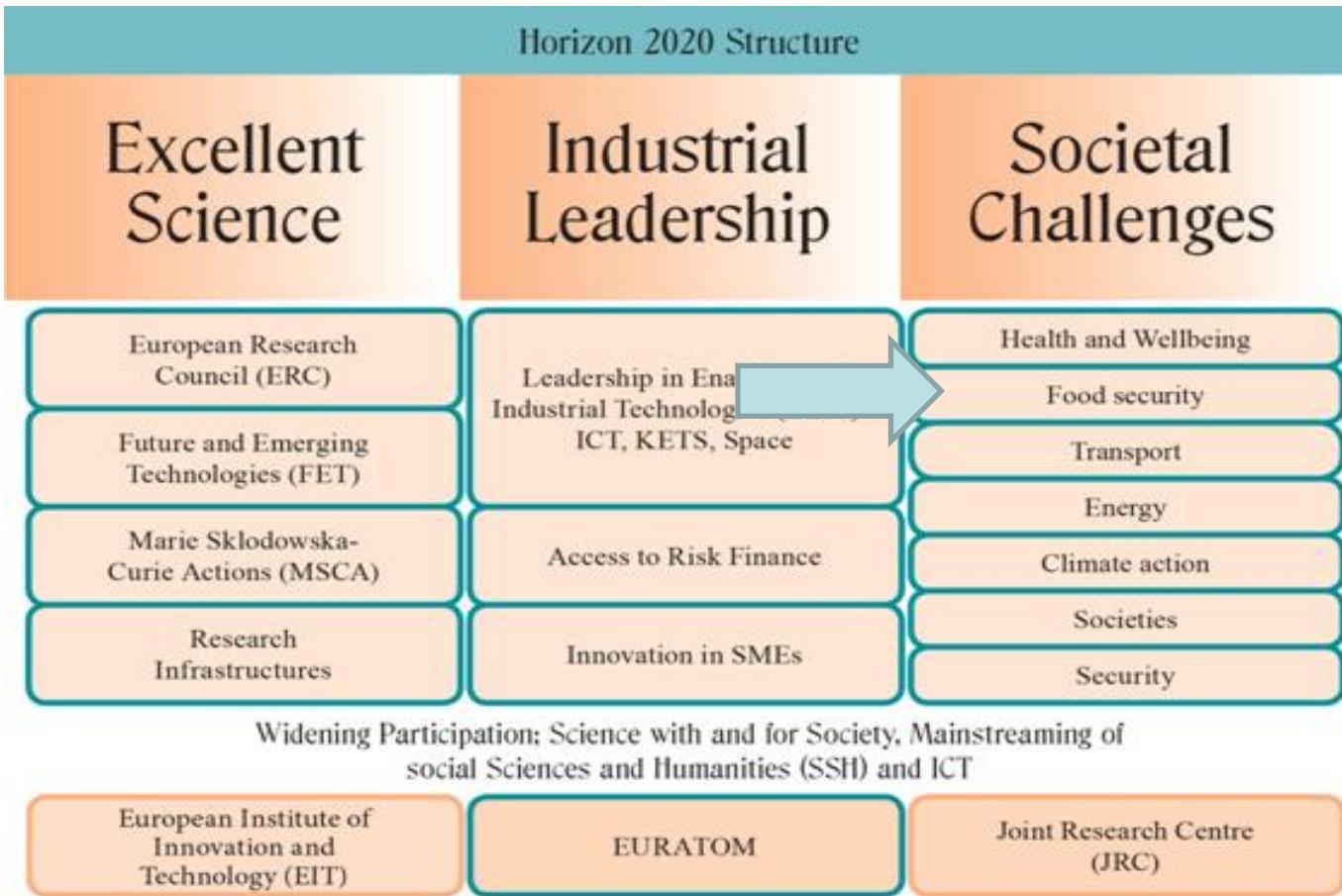
Technology Centre ASCR

Data analysis - Daniel FRANK, frank@tc.cz

What is Horizon 2020 ?

- A core part of Europe 2020, Innovation Union and European research area (ERA)
 - Responding to economic crisis to invest to future growth and jobs
 - Addressing people's concerns about their livelihoods, safety and environment
 - Strengthening the EU's global position in research, innovation and technology
 - Budget 79 bill. Euro (2014 – 2020)

Horizon 2020 – SC2





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2016/2017- objectives

Ensure food and nutrition security, by fostering resilient and resource efficient primary production and industry as well as sustainable and healthy consumption

Demonstrate the innovative potential of the oceans, by bringing technology to market

Foster innovation and business opportunities for rural and coastal areas, through new territorial approaches and business models

Re-industrialise Europe, through new bio-based value-chains, while securing sustainable biomass

Societal Challenge 2

Four Calls 2016-17



Sustainable food security



Blue Growth



Rural Renaissance



Bio-based innovation
for sustainable goods and services

Sustainable Food Security

- Improve farming and food systems' capacity to sustainably supply sufficient and healthy food while safeguarding natural resources
- Ensure global food and nutrition security





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Blue Growth

- Demonstrate the innovative potential of the oceans by bringing technologies to the market
- Ensure a healthy ocean for healthy people
- Seize the opportunities of integrated sea basin Strategies (the Mediterranean and the Arctic)

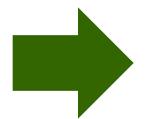


Rural Renaissance

- Grasp promising opportunities to boost rural growth and jobs
- Develop rural and coastal areas through new territorial approaches and business models



Bio-based Innovation for Sustainable Goods and Services



Boost bio-based markets (ex: to create over 3% growth/year in the bio-based chemistry sector)



Re-industrialise the EU through new bio-based value chains, securing sustainable biomass



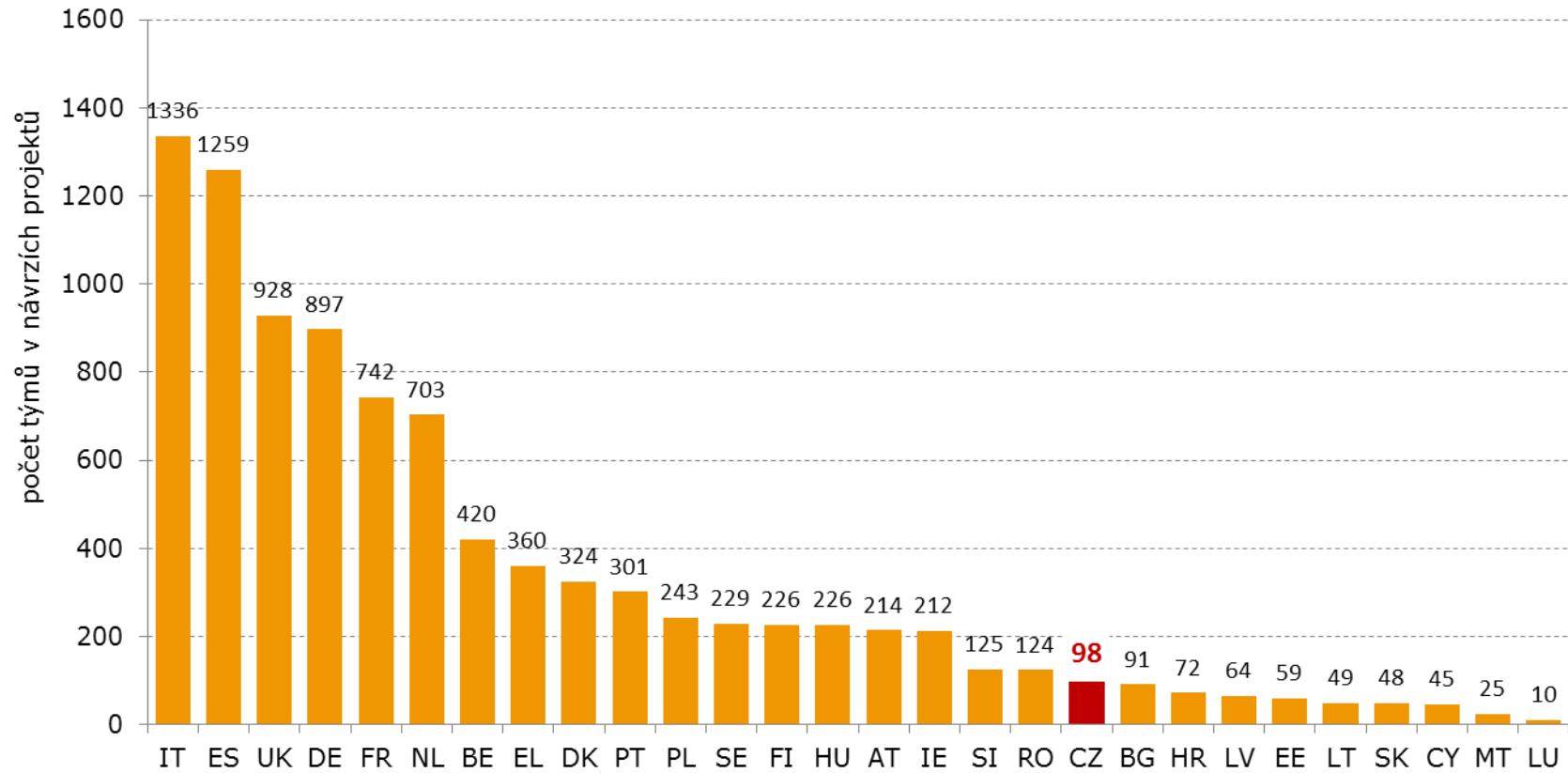
Activities of this call are complementary to the Joint Technology Initiative on Bio-based Industries 2016-17 Indicative Budget €300 million"



SC2 Calls 2017 – INDICATIVE DATES

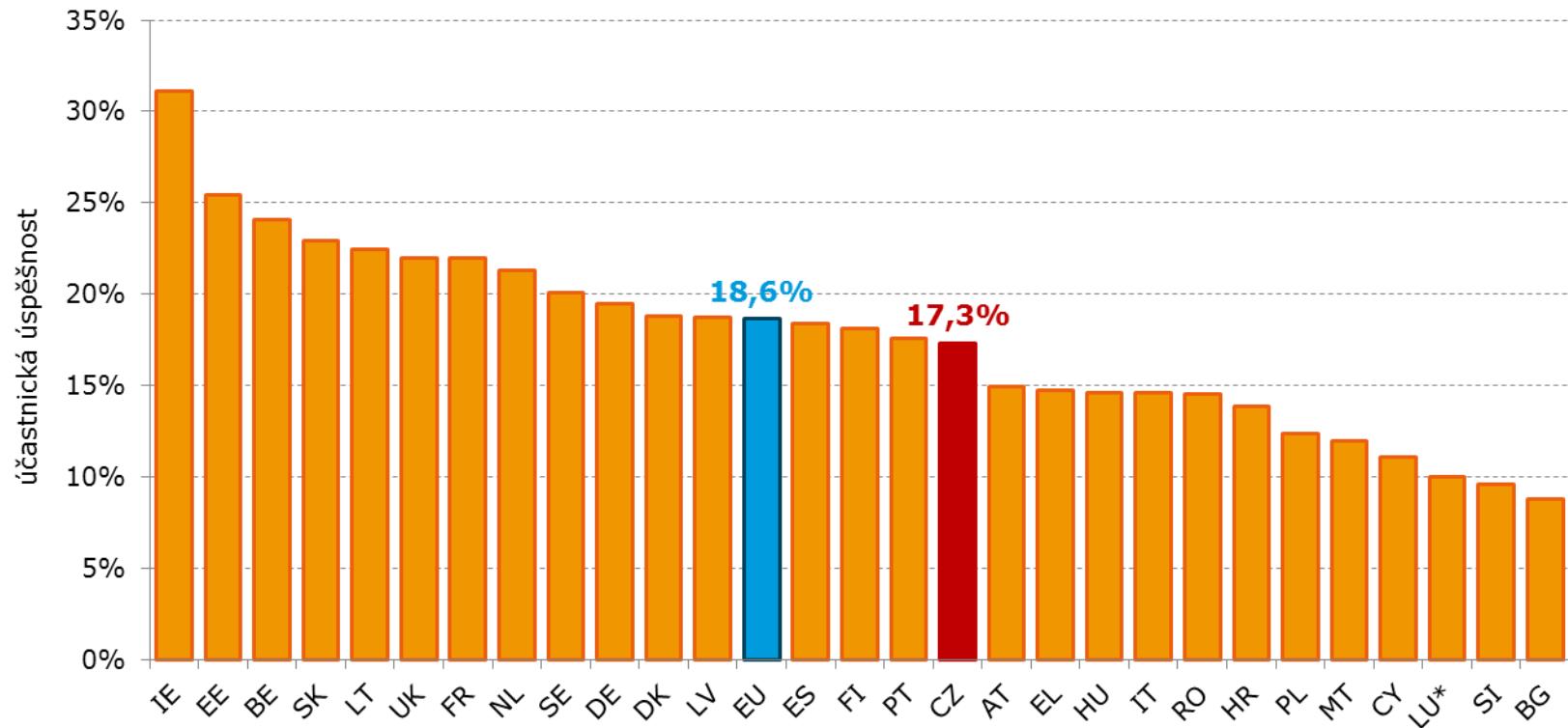
Opening	Submission		<u>Deadlines</u>
OCT 2016	two-stage submission (RIA with some exceptions)	1st stage	14 Feb 2017
		2nd stage	13 Sept 2017
	single stage submission (IA, CSA, ERA Net)	Single stage	14 Feb 2017

EU-28 activity in H2020 SC2

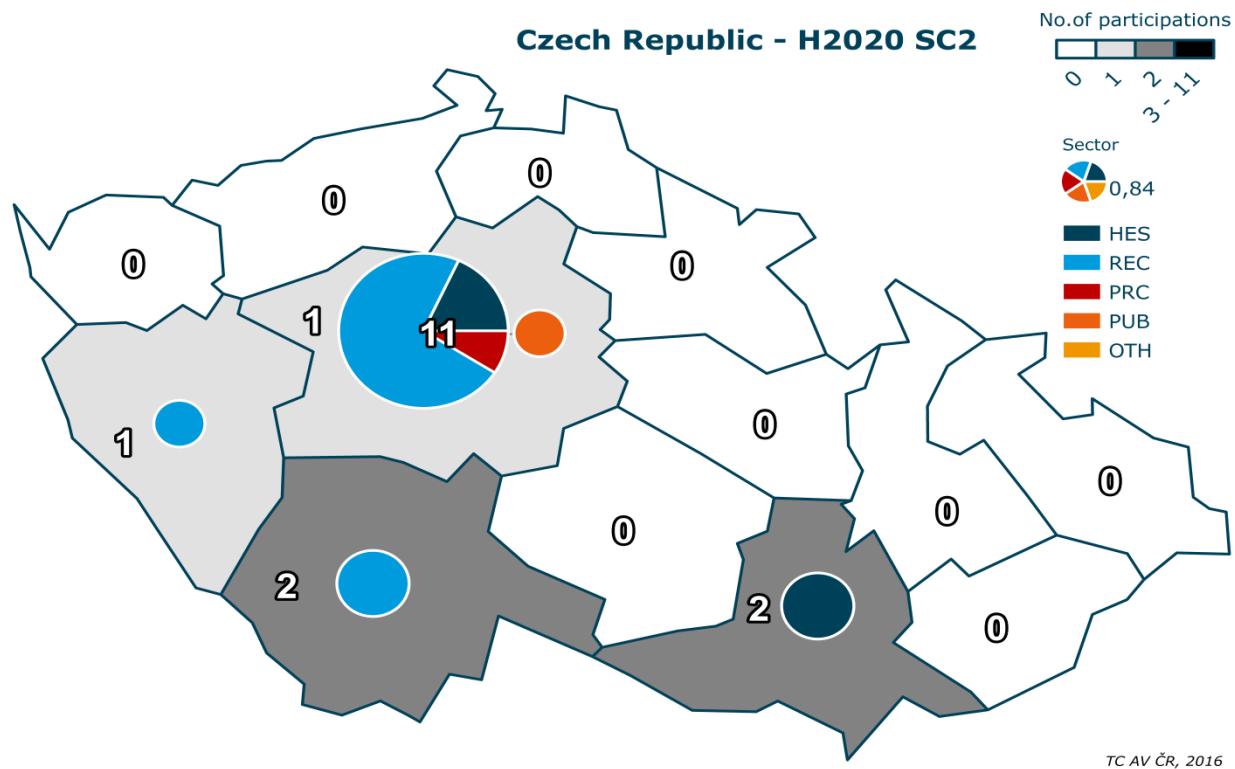


EU-28 participant success rate H2020 SC2

účast. úspěšnost = počet týmů v MAINLIST/celkový počet týmů v návrzích projektů



* velmi nízká účast, celkový počet týmů ve všech návrzích projektů menší než 20

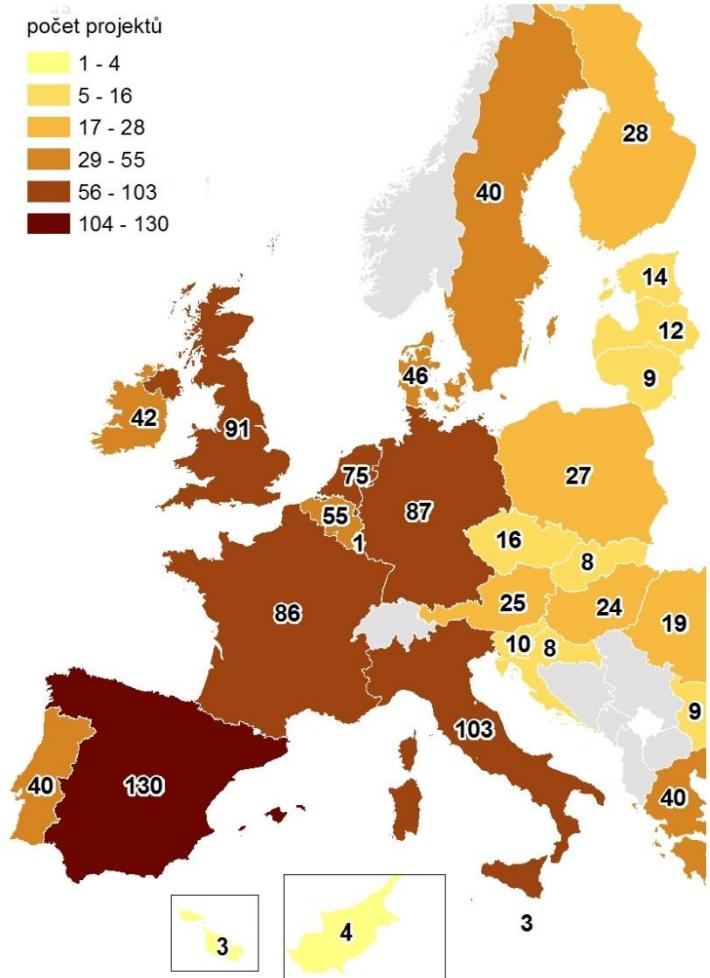




H2020 SC2 - projects EU-28

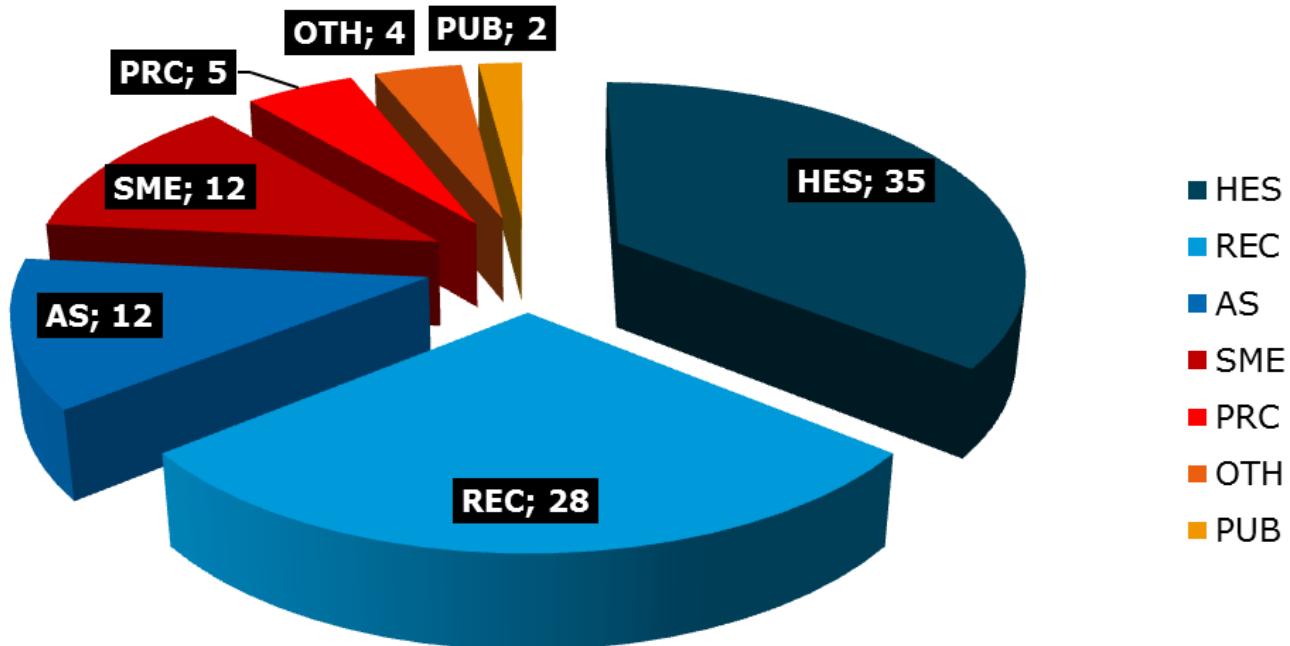
počet projektů

- 1 - 4
- 5 - 16
- 17 - 28
- 29 - 55
- 56 - 103
- 104 - 130



stát	týmy	projekty	uzn. nákl. - €	podpora H2020 - €
ES	232	130	68 636 943,8	58 465 701,3
UK	204	91	73 757 762,7	68 319 832,4
IT	200	103	78 174 646,1	65 799 693,7
DE	177	87	94 857 168,6	73 908 520,1
FR	167	86	68 414 199,1	57 533 528,4
NL	153	75	65 789 411,3	53 574 879,0
BE	100	55	31 698 240,2	27 247 275,1
IE	65	42	23 257 259,5	19 068 756,3
DK	61	46	24 759 276,3	19 927 962,2
PT	53	40	10 650 901,3	10 090 851,0
EL	52	40	12 653 062,3	12 227 789,7
SE	47	40	27 686 567,3	20 823 104,0
FI	43	28	18 916 483,4	15 110 025,7
AT	33	25	7 692 147,0	6 942 136,8
HU	32	24	6 806 452,0	5 638 531,8
PL	31	27	6 759 860,5	4 937 008,2
RO	19	19	3 920 998,7	2 550 383,4
CZ	17	16	2 182 900,5	2 038 942,8
EE	16	14	2 696 131,4	2 385 677,3
LV	12	12	2 606 249,8	2 074 546,4
SI	12	10	1 456 063,6	1 353 845,0
SK	11	8	25 748 682,0	18 266 513,2
LT	11	9	1 823 697,5	1 722 338,1
HR	10	8	1 240 232,5	1 240 232,3
BG	9	9	907 804,0	886 375,0
CY	5	4	1 298 891,4	1 057 107,6
MT	3	3	646 936,3	646 436,3
LU	1	1	80 062,5	80 062,5

H2020 SC2 – CZ institutional structure in project proposals (number of teams)



H2020 SC2 CZ participants – projects funded I.

Akronym	Typ projektu	Instituce	Téma	Název projektu
EuroMix	RIA	Státní zdravotní ústav	Assessing the health risks of combined human exposure to multiple food-related toxic substances	EuroMix
DIABOLO	RIA	Ústav pro hospodářskou úpravu lesů	Improved forest data	Distributed, integrated and harmonised forest information for bioeconomy outlooks
SUSFANS	RIA	Státní zdravotní ústav	Sustainable food and nutrition security through evidence based EU agro-food policy	Metrics, Models and Foresight for European Sustainable Food and Nutrition Security
PEGASUS	RIA	Ústav zemědělské ekonomiky a informací	Provision of public goods by EU agriculture and forestry: Putting the concept into practice	Public Ecosystem Goods And Services from land management - Unlocking the Synergies
PROVIDE	RIA	Technologické centrum AV ČR	Provision of public goods by EU agriculture and forestry: Putting the concept into practice	PROVIDing smart DElivery of public goods by EU agriculture and forestry
FATIMA	RIA	METCENAS, o.p.s. Výzkumný ústav meliorací a ochrany půdy, External nutrient inputs v.v.i.	External nutrient inputs	FArming Tools for external nutrient Inputs and water MAnagement
				FArming Tools for external nutrient Inputs and water MAnagement

Akronym	Typ projektu	Instituce	Téma	Název projektu
EMPHASIS	RIA	Mendelova zemědělská a lesnická univerzita v Brně	Native and alien pests in agriculture and forestry	Effective Management of Pests and Harmful Alien Species - Integrated Solutions
ParaFishControl	RIA	Biologické centrum AV ČR, v.v.i.	Scientific basis and tools for preventing and mitigating parasitic diseases of European farmed fish	Advanced Tools and Research Strategies for Parasite Control in European farmed fish
BioHorizon	CSA	Technologické centrum AV ČR	Supporting National Contact Points for Horizon 2020 Societal Challenge 2 on 'Food Security, Sustainable Agriculture, Marine and Maritime Research and the Bioeconomy' and the Key Enabling Technology (KET) 'Biotechnology'	Cooperation between NCPs for Horizon 2020 Societal Challenge 2 on "Food security, Sustainable Agriculture, Marine and Maritime Research and the Bioeconomy" and the Key Enabling Technology (
Hennovation	CSA	Veterinární a farmaceutická univerzita Brno	Closing the research and innovation divide: the crucial role of innovation support services and knowledge exchange	Practice-led innovation supported by science and market-driven actors in the laying hen and other livestock sectors
PROIntensAfrica	CSA	Česká zemědělská univerzita v Praze	Sustainable intensification pathways of agro-food systems in Africa	Towards a long-term Africa-EU partnership to raise sustainable food and nutrition security in Africa

Akronym	Typ projektu	Instituce	Téma	Název projektu
ClimeFish	RIA	Biologické centrum AV ČR, v.v.i.	Forecasting and anticipating effects of climate change on fisheries and aquaculture	Co-creating a decision support framework to ensure sustainable fish production in Europe under climate change
SOILCARE	RIA	Výzkumný ústav rostlinné výroby, v.v.i.	Assessing soil-improving cropping systems	Soil Care for profitable and sustainable crop production in Europe
SIMRA	RIA	CETIP Network, s.r.o.	Unlocking the growth potential of rural areas through enhanced governance and social innovation	Social Innovation in Marginalised Rural Areas
CSA JPI HDHL 2.0	CSA	Technologické centrum AV ČR	Coordination action in support of the implementation by participating States of a Joint Programming Initiative on 'A Healthy Diet for a Healthy Life'	The second coordination and support action for the JPI Healthy Diet for a Healthy Life
AUTHENT-NET	CSA	Vysoká škola chemicko-technologická v Praze	Authentication of food products	AUTHENT-NET – Food Authenticity Research Network

Horizon 2020 Energy



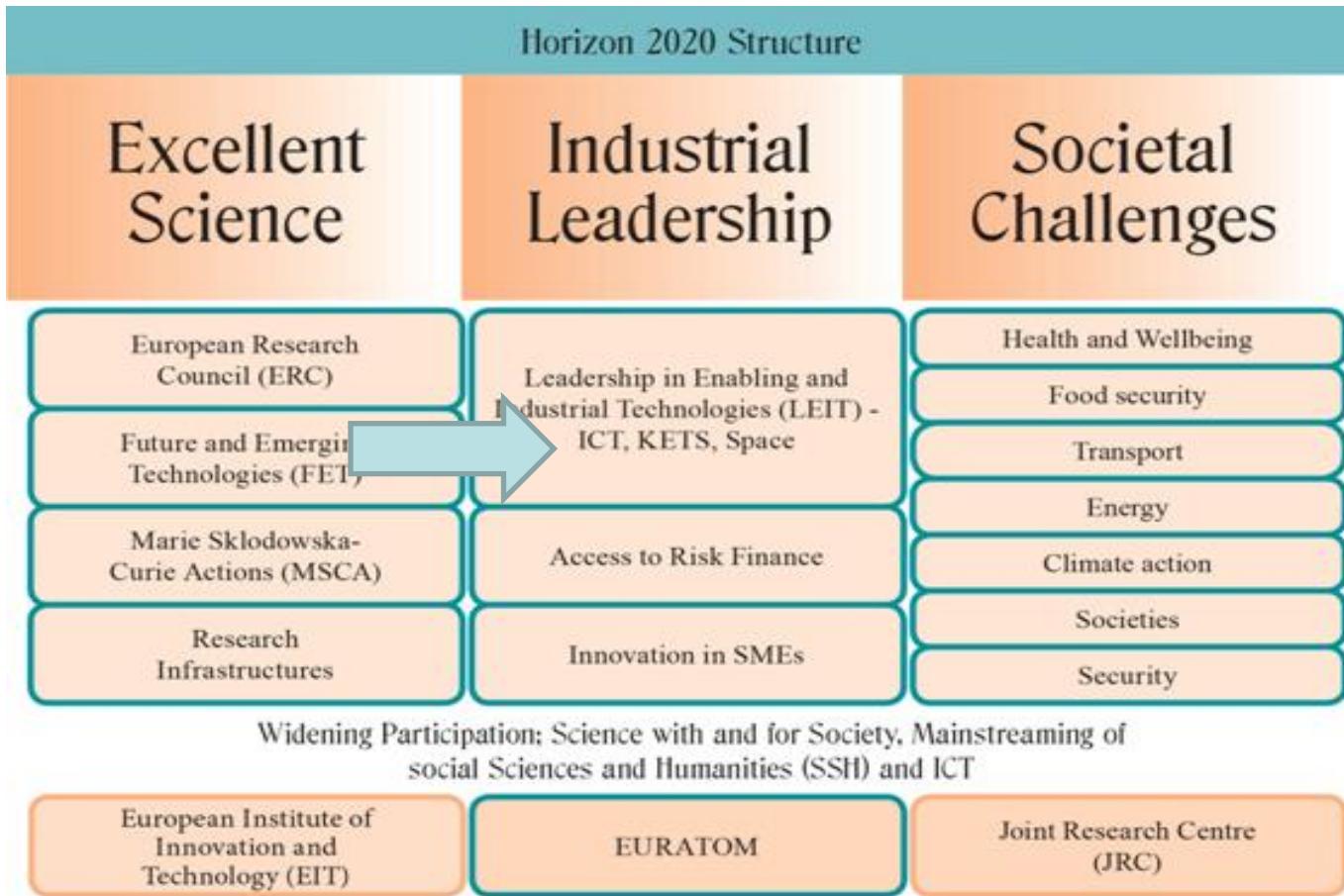
LCE Call Competitive Low Carbon Energy (1)

Topic	Type of Action	Deadline	TRL	Recommended EC Contribution
Renewable Energy Technologies				
<i>Developing the next generation of renewable energy technologies</i>				
LCE 6 – New knowledge and technologies	RIA	<u>5/1/2017</u>	4	2 – 4 mil. €
LCE 8 – Development of next generation biofuel technologies	RIA	16/2/2016 <u>5/1/2017</u>	3-4 to 4-5	3 - 6 mil. €
<i>Demonstrating Innovative Renewable Energy Technologies</i>				
LCE 19 – Demonstration of the most promising advanced biofuel pathways	IA	8/9/2016 <u>7/9/2017</u>	5-6 to 6-7	10 – 15 mil. €
LCE 20 – Enabling pre-commercial production of advanced aviation biofuel	IA	8/9/2016 <u>7/9/2017</u>	5-6 to 6-7	5 - 15 mil. €/2016 5 - 10 mil. €/2017

LCE Call Competitive Low Carbon Energy (2)

Topic	Type of Action	Deadline	TRL	Recommended EC Contribution
<i>Supporting the market uptake of renewable energy technologies</i>				
LCE 21 – Market uptake of renewable energy technologies	CSA	<u>5/1/2017</u>		1 – 3 mil. €
<i>Fostering international cooperation in the area of renewable energy</i>				
LCE 22 – International Cooperation with <u>Brazil</u> on advanced lignocellulosic biofuels		<u>8/9/2016</u>	3-4 to 4-5	3 – 5 mil. €
<i>Enabling the decarbonisation of the use of fossil fuels during the transition to a low-carbon economy</i>				
LCE 29 – CCS in industry, including Bio-CCS Carbon Capture and Storage	RIA	<u>5/1/2017</u>	4-5 to 7	4 - 9 mil. €

Horizon 2020 Key enabling biotechnologies



H2020 KET Biotechnology Work Programme for 2016-2017

- Bridge the gap from lab to market
 - New approaches to valorise new feedstock resources
 - Increasing overall efficiencies (pushing technology concepts beyond current boundaries)
- Speed up innovation
 - New bioprocess concepts
 - New production techniques
 - Improved data integration and valorisation
- New technological platforms

NMBP part of the H2020 Work Programme **BIOTEC Call topics for 2017**

- BIOTEC-5: Microbial platforms for CO₂-reuse processes in the low-carbon economy (RIA)
- BIOTEC-6: Optimisation of bio-catalysis and downstream processing for the sustainable production of high added-value platform chemicals (IA)
- BIOTEC-7: New Plant Breeding Techniques (NPBT) in molecular farming: Multipurpose crops for industrial bio-products (RIA)
- BIOTEC-8: Support for enhancing and demonstrating the impact of KET Biotechnology projects (CSA)
- *SME Instrument: Dedicated support to biotechnology SMEs closing the gap from lab to market*

Call BIOTEC 2017 deadlines

Publication	Submission		<u>Deadlines</u>	Budget
10 May 2016	two-stage submission (RIA)	1st stage	27 Oct 2016	€ 48 M
		2nd stage	4 May 2017	
20 Sep 2016	single stage submission (CSA)	single stage	19 Jan 2017	
Continuous	SME Instrument			€ 7,5 M

Partner search

- H2020 – SC2 a KET biotech Brokerage event v Bruselu
28.6.2016
 - Registration 1.5.2016 – 1.6.2016
 - <https://www.b2match.eu/foodbrokerage2016>
- JU BBI calls
 - Partnering platform
 - <http://www.bbi-europe.eu/participate/bbi-partnering-platform>
- SC2 info week in Brussels 27.-29.6. 2016
 - <http://www.h2020.cz/cs/spolecenske-vyzvy/potraviny-zemedelstvi/informace/novinky/societal-challenge-2-info-week-v-bruselu>



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www.h2020.cz

Aktuality Kalendář akcí Otevřené výzvy Národní kontakty NINET Členové programových výborů FAQ Výkladový slovník VYHLEDAT

Co-funded by the European Union

HORIZONT 2020

Vynikající věda

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Vedoucí postavení evropského průmyslu

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Společenské výzvy

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EIT, JRC / Horizontální aktivity / EURATOM

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Hodnocení rámcových programů

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Právní aspekty

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Finanční a administrativní aspekty

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Information H2020:

http://ec.europa.eu/research/horizon2020/index_en.cfm

<http://www.h2020.cz>

<http://www.czelo.cz>

<http://www.tc.cz>

Participant portal:

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