

Biotechnology as one of the KETs in H2020 (LEIT)

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NCP for NMBP / FET

Czech University of Life Sciences Prague, 18/10/2017

Key Enabling Technologies (KETs)

2009 – Design of the industrial pillar of H2020 by EC

6 key technologies enabling **competitive innovations**
in European industry and solving **societal challenges**

Nanotechnologies
Advanced materials

NMBP

Biotechnology

**Advanced manufacturing
and processing**

**Micro- and nano-
electronics**

Photonics

ICT

2013 – **Status Implementation Report**

High-Level Expert Group on KETs

Biotechnology calls in H2020

NMBP – Industrial biotechnology

2-3 topics / year

- 12** Research and Innovation Actions (RIA) – lower TRL (3-5)
- 4** Innovation Actions (IA) – higher TRL (4-6)
- 3** Coordination and Support Actions (CSA: 2016, 2017, 2018)
- 1** ERA-NET Cofund on Biotechnologies (2016)
SME Instrument – Boosting biotechnology-based industrial processes

Scope of Biotechnology calls

RIA/IA

Synthetic biology – organisms for new products/processes

Bio-conversion of non-agricultural **waste**

Industrial application of **enzymatic processes**

Bio-catalysis for production of **high added-value chemicals**

CSA

Biotechnology foresight (gaps, high-value opportunities)

Enhancing and demonstrating **impacts of biotechnology**

Standardisation in synthetic biology

BIOTEC calls in H2020

RIA / IA – 2-stage calls, **flexible threshold*** for 1>2 stage
2-3 topics / year

CSA – single-stage calls

Calls	Budget mil. €	# project proposals	# 2 nd stage proposals	# funded projects	Success rate %
2014	47.9	94	36	7	7.4
2015	28.84	91	22	4	4.4
2016	32	76	17*	6	7.9
2017	48	41	21*	8	19.5
2018	40		*	(6-7)	
2019	41		*	(6-7)	

NMBP 250 mil. €/ year

BIOTEC – CZ participation

Calls	Budget mil. €	Projects	Funded	1 st stage CZ	2 nd stage CZ	Funded CZ
2014	47.9	94	7	6 (7)	4 (5)	1
2015	28.84	91	4	1 (1)	-	-
2016	32	76	6	3 (6)	2 (5)	1
2017	48 +	41	7	1 (1)	-	-
Total	156.74+	302	24	11 (15)	6 (11)	2

CZ beneficiaries in BIOTEC 2014-2017 – **1.12 mil. €** (0.7 %)

2014 Lentikats (ROBOX)

2016 ICRC-FNUSA, Enantis (Rafts4Biotech)

2014-SME-Phase-1 Enantis (FGSTAB)

SME Instrument / BIOTEC in 2020

SME Instrument – typically **4 cut-off dates** / year
 Budget allocation – 10% Phase-1 / 87 % Phase-2

Calls Cut-off 1/2	Budget mil. €	# project proposals	# above threshold	# funded projects
2014 3/2	3.8	211 / 28	20 / 6	15 / 2
2015 4/4	2.4	150 / 72	30 / 30	6 / 4
2016 4/4	7.5	225 / 91	50 / 48	20 / 4

Seal of Excellence - for 'above threshold' scoring proposals
 Implemented for Phase-1 in 2017 (TA ČR)
 Phase-2 **not** foreseen in close future

BIOTEC calls 2018-2020

BIOTEC-01-2018: Standardisation in Synthetic Biology (CSA)

BIOTEC-03-2018: Synthetic biology to expand diversity of nature's chemical production (RIA)

CE-BIOTEC-04-2018: New biotechnologies for environmental remediation (RIA)

BIOTEC-02-2019: Boosting the efficiency of photosynthesis (RIA)

CE-BIOTEC-05-2019: Microorganism communities for plastics bio-degradation (RIA)

BIOTEC-06-2020: Reprogrammed microorganisms for biological sensors (IA)

BIOTEC-07-2020: Multi-omics for the optimisation of genotype-phenotype associations (RIA)

Conditions of 2018 BIOTEC calls

Call deadlines

BIOTEC-01 (CSA)	2 mil. €	28/02/2018	
CE-BIOTEC-04 (RIA)	10 mil. €	25/04/2018	
BIOTEC-03 (RIA)	30 mil. €	23/01/2018	1 st stage
		28/06/2018	2 nd stage

SME Instrument

<u>2018</u>		<u>2019</u>		<u>2020</u>	
08/02	13/02	13/02	09/01	12/02	08/01
03/05	07/05	07/05	03/04	06/05	18/03
05/09	02/09	05/09	05/06	02/09	19/05
07/11	06/11	06/11	09/09	04/11	07/09
Phase 1	Phase 2				
50 k€	0.5-2.5 M€				

Information support

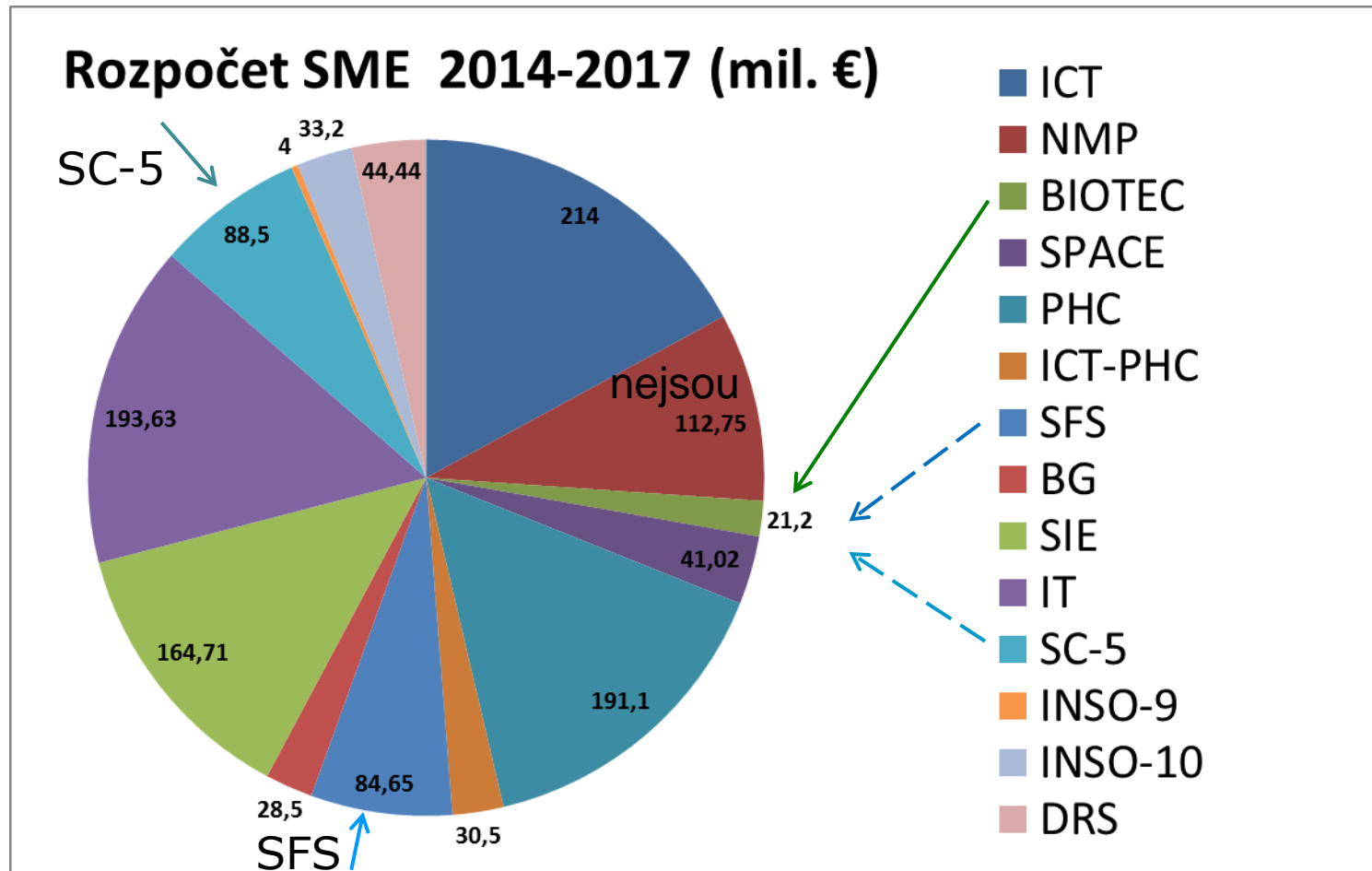
- **Web TC - H2020**
- **Newsletter TC (Zpravodaj)**
- **Partner Search Facility** (NCP networks - **NMPTeAm4** , integrated for **NMBP**, **SC4**-C-Energy, and **SC5**-CaRE **NEW** – October 2017, topic oriented, offer/search
- **Partner Search** @ Participant Portal EC
- **Industrial Innivation Information Days 2017**
Brussels (October), originally PPP, 2017 whole NMBP
- **NCPs** – national contact points (web TC)
- Národní informační den programu NMBP – 22.listopadu 2017
Národní technická knihovna v Praze, s účastí ředitele Directorate Industrial Technologies



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SME Instrument - biotec relevant



SME Instrument – BIOTEC Phase 1

