

Successful participation of stakeholders in Flanders in Horizon 2020

(E-corda data release 27 March 2019)

This overview is a first in a series of periodic overviews of successful Flemish participants in Horizon 2020 projects. For this overview the Horizon 2020 actions (not taking into account Euratom, JTI calls nor Co-fund partnerships) of which the grant agreement was signed between 1 January 2019 and 27 March 2019 are taken up. The overview is primarily based on E-corda data (release date 27 March 2019), provided by the ministry of Economy, Science and Innovation – Departement EWI, and additionally on CORDIS data, except for the results of ERC calls which are based on the publications done by the ERC Executive Agency.

In total there are 46 Horizon 2020 projects signed with one or more beneficiary/ies in Flanders;

- Of which 35 are projects in the Excellent Science Pillar.
In 27 of those 35 projects an organisation in Flanders is the coordinator, the majority in Marie Skłodowska-Curie Actions Individual Fellowships, European Research Council Advanced grants and Marie Skłodowska-Curie Actions Innovative Training Networks.
- Of which 5 are projects in the Industrial Leadership Pillar
In none of those 5 projects an organisation in Flanders is the coordinator.
- Of which 3 are projects in the Societal Challenges Pillar
In none of those 3 projects an organisation in Flanders is the coordinator.
- Of which 3 are projects in the European Innovation Council Pilot
In 1 of those 3 projects an organisation in Flanders is the coordinator, which is an SME Instrument phase 2 project.

A more detailed overview of these projects can be found from page 2 onwards.

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An overview of the call topics with successful Flemish participants sorted according to the structure of the Horizon 2020 framework programme (2014 – 2020) can be found below. When clicking on a call topic in the list below it lands on the results page of that particular call topic with an overview of the successful partners. When more information about the project is available on the CORDIS website, the link is given behind the Acronym in the 5th column.

Horizon 2020 programme part	Call topic	Call deadline	Page
Pillar I – Excellent Science Future and Emerging Technologies	FETFLAG-01-2018 (two stages)	call deadline 2nd stage 18 September 2018	page 5
Pillar I – Excellent Science Future and Emerging Technologies	FETPROACT-04-2019	call deadline 6 November 2018	page 6
Pillar I – Excellent Science Marie Skłodowska-Curie Actions	H2020-MSCA-ITN-2018	call deadline 17 January 2018	page 7
Pillar I – Excellent Science Marie Skłodowska-Curie Actions	H2020-MSCA-IF-2018	call deadline 12 September 2018	page 8
Pillar I – Excellent Science European Research Council	ERC Advanced grants 2018 call	call deadline 30 August 2018	page 10
Pillar II – Industrial Leadership Leadership in Enabling and Industrial Technologies - Information and Communication Technologies	SU-ICT-03-2018	call deadline 29 May 2018	page 11
Pillar II – Industrial Leadership	DT-NMBP-02-2018 (two stages)	call deadline 2nd stage 28 June 2018	page 12

NCP FLANDERS

Leadership in Enabling and Industrial Technologies - Nanotechnologies, Advanced Materials, Biotechnology and Advanced Manufacturing and Processing

Pillar II – Industrial Leadership

CE-NMBP-24-2018 (two stages)

call deadline 2nd stage 28 June 2018

page 13

Leadership in Enabling and Industrial Technologies - Nanotechnologies, Advanced Materials, Biotechnology and Advanced Manufacturing and Processing

Pillar II – Industrial Leadership

NMBP-22-2018 (two stages)

call deadline 2nd stage 28 June 2018

page 14

Leadership in Enabling and Industrial Technologies - Nanotechnologies, Advanced Materials, Biotechnology and Advanced Manufacturing and Processing

Pillar III – Societal Challenges

LC-SC3-RES-4-2018 (two stages)

call deadline 2nd stage 28 August 2018

page 15

Societal Challenge 2 - Secure, clean and efficient energy

Pillar III – Societal Challenges

LC-SC3-CC-5-2018

call deadline 6 September 2018

page 16

Societal Challenge 2 - Secure, clean and efficient energy

Pillar III – Societal Challenges

LC-SC3-JA-2-2018-2019

call deadline 11 September 2018

page 17

Societal Challenge 2 - Secure, clean and efficient energy

NCP FLANDERS

European Innovation Council pilot Fast Track to Innovation	EIC-FTI-2018-2020	multiple call deadlines	page 18
European Innovation Council pilot SME Instrument	EIC-SMEInst-2018-2020-2	multiple call deadlines	page 19

NCP FLANDERS

Pillar I – Excellent Science

[FETFLAG-01-2018 \(two stages\)](#) (call deadline 2nd stage 18 September 2018)

CALL TOPIC	TYPE OF ACTION	BENEFICIARY NAME	ROLE	ACRONYM	TITLE	PROJECT START DATE	PROJECT END DATE
FETFLAG-01-2018	Coordination and Support Action	UNIVERSITEIT ANTWERPEN	PARTICIPANT	Time Machine	Time Machine : Big Data of the Past for the Future of Europe	01-mrt-19	29-febr-20
FETFLAG-01-2018	Coordination and Support Action	UNIVERSITEIT GENT	PARTICIPANT	Time Machine	Time Machine : Big Data of the Past for the Future of Europe	01-mrt-19	29-febr-20
FETFLAG-01-2018	Coordination and Support Action	VIB VZW	PARTICIPANT	LifeTime	Revolutionizing Healthcare by Tracking and Understanding Human Cells during Disease	01-mrt-19	30-apr-20
FETFLAG-01-2018	Coordination and Support Action	UNIVERSITEIT GENT	PARTICIPANT	ENERGY-X	ENERGY-X: Transformative chemistry for a sustainable energy future	01-mrt-19	29-feb-20

NCP FLANDERS

Pillar I – Excellent Science

[FETPROACT-04-2019](#)

(call deadline 6 November 2018)

CALL TOPIC	TYPE OF ACTION	BENEFICIARY NAME	ROLE	ACRONYM	TITLE	PROJECT START DATE	PROJECT END DATE
FETPROACT-04-2019	Coordination and Support Action	VRIJE UNIVERSITEIT BRUSSEL	PARTICIPANT	BATTERY 2030	BATTERY 2030+ At the heart of a connected green society	01-mrt-19	29-feb-20

NCP FLANDERS

Pillar I – Excellent Science

H2020-MSCA-ITN-2018 (call deadline 17 January 2018)

CALL TOPIC	TYPE OF ACTION	BENEFICIARY NAME	ROLE	ACRONYM	TITLE	PROJECT START DATE	PROJECT END DATE
H2020-MSCA-ITN-2018	MSCA-ITN-ETN	MELEXIS TECHNOLOGIES	PARTICIPANT	PETER	Pan-European Training, research and education network on Electromagnetic Risk management	01-apr-19	31-mrt-23
H2020-MSCA-ITN-2018	MSCA-ITN-ETN	KATHOLIEKE UNIVERSITEIT LEUVEN	COORDINATOR	PETER	Pan-European Training, research and education network on Electromagnetic Risk management	01-apr-19	31-mrt-23
H2020-MSCA-ITN-2018	MSCA-ITN-ETN	BARCO NV	PARTICIPANT	PETER	Pan-European Training, research and education network on Electromagnetic Risk management	01-apr-19	31-mrt-23
H2020-MSCA-ITN-2018	MSCA-ITN-ETN	KATHOLIEKE UNIVERSITEIT LEUVEN	PARTICIPANT	ArthritisHeal	Establishing the molecular fundamentals of arthritic diseases – a step forward to Heal Arthritis	01-mrt-19	28-feb-23
H2020-MSCA-ITN-2018	MSCA-ITN-ETN	KATHOLIEKE UNIVERSITEIT LEUVEN	PARTICIPANT	ULTIMATE	Bottom-Up generation of atomically precise synthetic 2D MATERIALS for high performance in energy and Electronic applications – A multi-site innovative training action	01-okt-19	30-sep-23
H2020-MSCA-ITN-2018	MSCA-ITN-ETN	KATHOLIEKE UNIVERSITEIT LEUVEN	PARTICIPANT	POLKA	POLLution Know-how and Abatement	01-feb-19	31-jan-23
H2020-MSCA-ITN-2018	MSCA-ITN-ETN	SIEMENS INDUSTRY SOFTWARE NV	PARTICIPANT	POLKA	POLLution Know-how and Abatement	01-feb-19	31-jan-23
H2020-MSCA-ITN-2018	MSCA-ITN-ETN	KATHOLIEKE UNIVERSITEIT LEUVEN	PARTICIPANT	VRACE	VRACE - Virtual Reality Audio for Cyber Environments	01-mrt-19	28-feb-23
H2020-MSCA-ITN-2018	MSCA-ITN-ETN	SIEMENS INDUSTRY SOFTWARE NV	PARTICIPANT	VRACE	VRACE - Virtual Reality Audio for Cyber Environments	01-mrt-19	28-feb-23

NCP FLANDERS

Pillar I – Excellent Science

[H2020-MSCA-IF-2018](#)

(call deadline 12 September 2018)

CALL TOPIC	TYPE OF ACTION	BENEFICIARY NAME	ROLE	ACRONYM	TITLE	PROJECT START DATE	PROJECT END DATE
H2020-MSCA-IF-2018	MSCA-IF-EF-ST	UNIVERSITEIT ANTWERPEN	COORDINATOR	DiPipe	Direct remote C-H functionalization in piperidine derivatives	01-apr-19	31-mrt-21
H2020-MSCA-IF-2018	MSCA-IF-EF-ST	UNIVERSITEIT ANTWERPEN	COORDINATOR	MAGIMOX	Nanometre scale imaging of magnetic perovskite oxide thin films using scanning transmission electron microscopy	01-apr-19	31-mrt-21
H2020-MSCA-IF-2018	MSCA-IF-EF-ST	UNIVERSITEIT ANTWERPEN	COORDINATOR	PLASMACAT	Understanding the material structure-activity correlation in plasma catalytic CO2 conversion	01-apr-19	31-mrt-21
H2020-MSCA-IF-2018	MSCA-IF-EF-ST	UNIVERSITEIT GENT	COORDINATOR	SICILYWAR	Culture Heritage in Danger: Archaeology and Communities in Sicily during the Second World War (1940–45)	01-nov-19	31-okt-21
H2020-MSCA-IF-2018	MSCA-IF-EF-ST	UNIVERSITEIT GENT	COORDINATOR	RESWITCH	Redox-Controlled Resistive Switching in Hybrid Metal-Organic Thin Films towards Neuromorphic Computing	01-apr-19	31-mrt-21
H2020-MSCA-IF-2018	MSCA-IF-EF-ST	UNIVERSITEIT GENT	COORDINATOR	3D-FOGROD	Understanding forest growth dynamics using novel 3D measurements and modelling approaches	01-okt-19	30-sep-21
H2020-MSCA-IF-2018	MSCA-IF-EF-ST	UNIVERSITEIT GENT	COORDINATOR	WISEFLOW	Whole-plant Assessment of Innovative, Sustainable and Energy-efficient Future Layouts of Wastewater Treatment Plants	01-apr-19	31-mrt-21
H2020-MSCA-IF-2018	MSCA-IF-EF-ST	KATHOLIEKE UNIVERSITEIT LEUVEN	COORDINATOR	IMPACT	Immune Mechanisms of Necrotic DNA Phagocytosis by Neutrophils: A Role for Integrins	01-okt-19	30-sep-21
H2020-MSCA-IF-2018	MSCA-IF-EF-RI	KATHOLIEKE UNIVERSITEIT LEUVEN	COORDINATOR	COLIBRI	Click chemistry Options for Live Immuno Brain Imaging	01-okt-19	30-sep-21
H2020-MSCA-IF-2018	MSCA-IF-EF-ST	KATHOLIEKE UNIVERSITEIT LEUVEN	COORDINATOR	ReduceFear	Fear reduction strategies relevant for exposure therapy: Devaluation and extinction learning in anxiety	01-okt-19	30-sep-21

NCP FLANDERS

CALL TOPIC	TYPE OF ACTION	BENEFICIARY NAME	ROLE	ACRONYM	TITLE	PROJECT START DATE	PROJECT END DATE
					disorder patients and their neurobiological basis		
H2020-MSCA-IF-2018	MSCA-IF-EF-ST	KATHOLIEKE UNIVERSITEIT LEUVEN	COORDINATOR	E-Waste Challenge	Tackling the Electronic Waste Challenge in Emerging Economies	01-apr-19	31-mrt-21
H2020-MSCA-IF-2018	MSCA-IF-EF-ST	VIB VZW	COORDINATOR	scTALLmap	Single-cell map of the composition and evolution of T-cell acute lymphoblastic leukemia	01-apr-19	31-mrt-21
H2020-MSCA-IF-2018	MSCA-IF-EF-ST	VIB VZW	COORDINATOR	INHUMAN	Intra-tumoral heterogeneity in NRAS-driven metastatic melanoma	01-apr-19	31-mrt-21
H2020-MSCA-IF-2018	MSCA-IF-EF-ST	VRIJE UNIVERSITEIT BRUSSEL	COORDINATOR	ChOLLATERAL	Generation of an adverse outcome pathway network on cholestatic liver injury for mechanism-based in vitro testing of chemicals.	15-mei-19	14-mei-21
H2020-MSCA-IF-2018	MSCA-IF-EF-ST	KATHOLIEKE UNIVERSITEIT LEUVEN	COORDINATOR	PONS	Fabrication of Polysaccharides-Protein complex Nano-Hybrid Scaffold as regenerative biomaterial for bone tissue engineering	01-apr-19	31-mrt-21

NCP FLANDERS

Pillar I – Excellent Science

ERC Advanced grants 2018 call (call deadline 30 August 2018)

CALL	ACRONYM	PANEL	TITLE	HOST INSTITUTION	PRINCIPAL INVESTIGATOR
ERC Advanced grants 2018 call	CELLPHASE_AD	LS5	Genetics to understand cellular components of Alzheimer Disease pathogenesis	VIB	Bart De Strooper
ERC Advanced grants 2018 call	DOUBLE-TROUBLE	LS8	Replaying the 'genome duplication' tape of life: the importance of polyploidy for adaptation in a changing environment	VIB	Yves Van De Peer
ERC Advanced grants 2018 call	Sperm-Egg Phusion	LS3	Unexpected connections between a phagocytic machinery and mammalian fertilization	VIB	Kodi Ravichandran
ERC Advanced grants 2018 call	POPMET	LS9	Large-scale identification of secondary metabolites, metabolic pathways and their genes in the model tree poplar	VIB	Wout Boerjan
ERC Advanced grants 2018 call	BREEDIT	LS9	A novel breeding strategy using multiplex genome editing in maize	VIB	Dirk Inze
ERC Advanced grants 2018 call	NEUMACS	LS7	Neuron-associated macrophages in the gut as novel target for the treatment of enteric neuropathies	KATHOLIEKE UNIVERSITEIT LEUVEN	Goy Boeckxstaens
ERC Advanced grants 2018 call	EMOTIONACCULTURATION	SH3	Emotional Acculturation: Emotions as Gateways to Minority Inclusion	KATHOLIEKE UNIVERSITEIT LEUVEN	Batja Gomes De Mesquita
ERC Advanced grants 2018 call	REsPecTMe	SH3	Resolving Precariousness: Advancing the Theory and Measurement of Precariousness across the paid/unpaid work continuum	KATHOLIEKE UNIVERSITEIT LEUVEN	Valeria Pulignano
ERC Advanced grants 2018 call	WATUSO	PE5	Water Forced in Hydrophobic Nano-Confinement: Tunable Solvent System	KATHOLIEKE UNIVERSITEIT LEUVEN	Johan Martens
ERC Advanced grants 2018 call	PROMINENT	PE9	Solar prominences: unraveling the ultimate condensation catastrophe	KATHOLIEKE UNIVERSITEIT LEUVEN	Rony Keppens
ERC Advanced grants 2018 call	ULTRA-LUX	PE7	Ultra-Bright Thin-Film Light Emitting Devices and Lasers	INTERUNIVERSITAIR MICRO-ELECTRONICA CENTRUM	Paul Heremans

NCP FLANDERS

Pillar II – Industrial Leadership

[SU-ICT-03-2018](#) (call deadline 29 May 2018)

CALL TOPIC	TYPE OF ACTION	BENEFICIARY NAME	ROLE	ACRONYM	TITLE	PROJECT START DATE	PROJECT END DATE
SU-ICT-03-2018	Research and Innovation Action	KATHOLIEKE UNIVERSITEIT LEUVEN	PARTICIPANT	CyberSec4Europe	Cyber Security Network of Competence Centres for Europe	01-feb-19	31-jul-22

NCP FLANDERS

Pillar II – Industrial Leadership

[DT-NMBP-02-2018 \(two stages\)](#) (call deadline 2nd stage 28 June 2018)

CALL TOPIC	TYPE OF ACTION	BENEFICIARY NAME	ROLE	ACRONYM	TITLE	PROJECT START DATE	PROJECT END DATE
DT-NMBP-02-2018	Innovation Action	MARACA INTERNATIONAL	PARTICIPANT	SAFE-N-MEDTECH	SAFETY TESTING IN THE LIFE CYCLE OF NANOTECHNOLOGY-ENABLED MEDICAL TECHNOLOGIES FOR HEALTH.	01-apr-19	31-mrt-23
DT-NMBP-02-2018	Innovation Action	VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V.	PARTICIPANT	SAFE-N-MEDTECH	SAFETY TESTING IN THE LIFE CYCLE OF NANOTECHNOLOGY-ENABLED MEDICAL TECHNOLOGIES FOR HEALTH.	01-apr-19	31-mrt-23

NCP FLANDERS

Pillar II – Industrial Leadership

[CE-NMBP-24-2018 \(two stages\)](#) (call deadline 2nd stage 28 June 2018)

CALL TOPIC	TYPE OF ACTION	BENEFICIARY NAME	ROLE	ACRONYM	TITLE	PROJECT START DATE	PROJECT END DATE
CE-NMBP-24-2018	Research and Innovation Action	VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V.	PARTICIPANT	ZEOCAT-3D	Development of a bifunctional hierarchically structured zeolite based nano-catalyst using 3D-technology for direct conversion of methane into aromatic hydrocarbons via methane dehydroaromatization	01-apr-19	30-sep-22

NCP FLANDERS

Pillar II – Industrial Leadership

[NMBP-22-2018 \(two stages\)](#)

(call deadline 2nd stage 28 June 2018)

CALL TOPIC	TYPE OF ACTION	BENEFICIARY NAME	ROLE	ACRONYM	TITLE	PROJECT START DATE	PROJECT END DATE
NMBP-22-2018	Research and Innovation Action	UNIVERSITEIT ANTWERPEN	PARTICIPANT	MEFISTO	MEFISTO - Meniscal functionalised scaffold to prevent knee Osteoarthritis onset after meniscectomy	01-apr-19	30-nov-23

NCP FLANDERS

Pillar III – Societal Challenges

[LC-SC3-RES-4-2018 \(two stages\)](#) (call deadline 2nd stage 28 August 2018)

CALL TOPIC	TYPE OF ACTION	BENEFICIARY NAME	ROLE	ACRONYM	TITLE	PROJECT START DATE	PROJECT END DATE
LC-SC3-RES-4-2018 (two stages)	Research and Innovation Action	THERMOVAULT	PARTICIPANT	RES4BUILD	Renewables for clean energy buildings in a future power system	01-mei-19	30-apr-23
LC-SC3-RES-4-2018 (two stages)	Research and Innovation Action	TERRA ENERGY	PARTICIPANT	RES4BUILD	Renewables for clean energy buildings in a future power system	01-mei-19	30-apr-23
LC-SC3-RES-4-2018 (two stages)	Research and Innovation Action	VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V.	PARTICIPANT	RES4BUILD	Renewables for clean energy buildings in a future power system	01-mei-19	30-apr-23

NCP FLANDERS

Pillar III – Societal Challenges

[LC-SC3-CC-5-2018](#) (call deadline 6 September 2018)

CALL TOPIC	TYPE OF ACTION	BENEFICIARY NAME	ROLE	ACRONYM	TITLE	PROJECT START DATE	PROJECT END DATE
LC-SC3-CC-5-2018	Coordination and Support Action	ECOPOWER	PARTICIPANT	ASSET	A holistic and Scalable Solution for Research, Innovation and Education in Energy Transition	01-mei-19	30-apr-21

NCP FLANDERS

Pillar III – Societal Challenges

[LC-SC3-JA-2-2018-2019](#) (call deadline 11 September 2018)

CALL TOPIC	TYPE OF ACTION	BENEFICIARY NAME	ROLE	ACRONYM	TITLE	PROJECT START DATE	PROJECT END DATE
LC-SC3-JA-2-2018-2019	Coordination and Support Action	INTERUNIVERSITAIR MICRO-ELECTRONICA CENTRUM	PARTICIPANT	PV Impact	Actual execution of the Implementation Plan for Photovoltaics and monitoring the Implementation Plan's delivery	01-apr-19	31-mrt-22

NCP FLANDERS

European Innovation Council pilot

EIC-FTI-2018-2020 (multiple call deadlines)

CALL TOPIC	TYPE OF ACTION	BENEFICIARY NAME	ROLE	ACRONYM	TITLE	PROJECT START DATE	PROJECT END DATE
EIC-FTI-2018-2020	Innovation Action	DATASTORIES INTERNATIONAL	PARTICIPANT	RUSH AI	Revolutionary Ultra-Fast System for Hot-stamping of light weight structural vehicle components with Artificial Intelligence quality control monitoring	01-apr-19	31-mrt-21
EIC-FTI-2018-2020	Innovation Action	ORGANIC WASTE SYSTEMS NV	PARTICIPANT	NEEDbioWash	Natural Enzymes for Ecological Detergents to improve biologically certified Washing products	01-apr-19	31-mrt-21

NCP FLANDERS

European Innovation Council pilot

[EIC-SMEInst-2018-2020-phase 2](#) (multiple call deadlines)

CALL TOPIC	TYPE OF ACTION	BENEFICIARY NAME	ROLE	ACRONYM	TITLE	PROJECT START DATE	PROJECT END DATE
EIC-SMEInst-2018-2020-2	SME-phase 2	SETTLEMINT	COORDINATOR	SettleMint	The distributed Blockchain middleware that allows business worldwide to build business solutions with Blockchain technology	01-mrt-19	28-feb-21