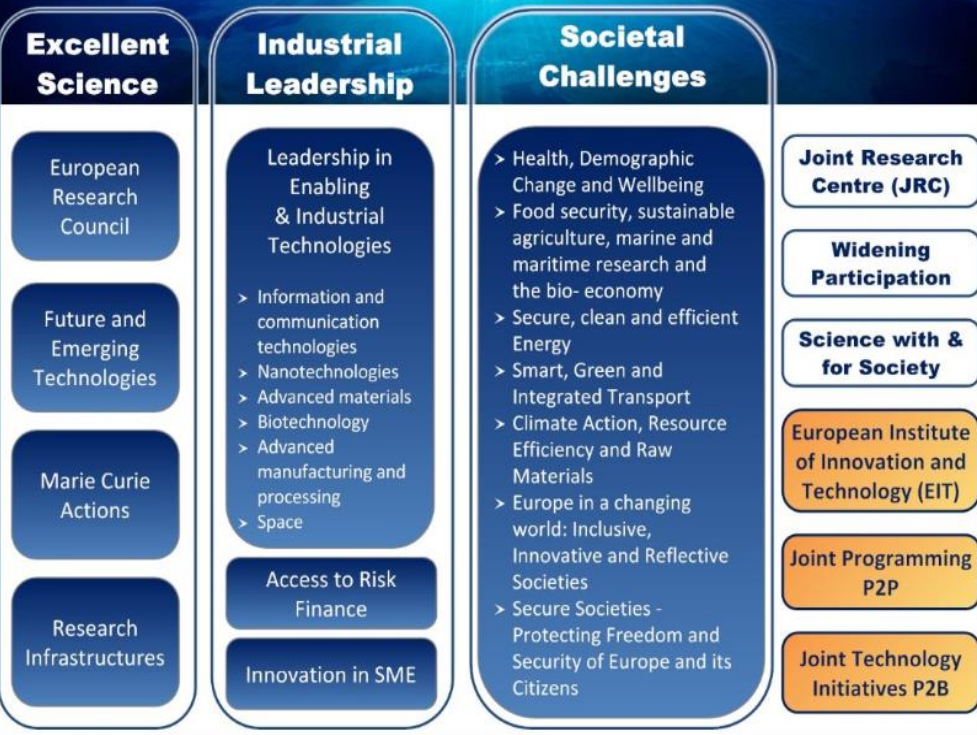


Birgit Steininger, FFG - Europäische und Internationale Programme

EU-RAHMENPROGRAMM FÜR FORSCHUNG UND INNOVATION HORIZON 2020 → HORIZON EUROPE

15.Jänner 2020, IEA Bioenergie Task 42 - Nationales Stakeholder
Vernetzungstreffen

HORIZON 2020



Letzte Ausschreibungsrunde in Horizon 2020

- Biobased Industry JU
- European Circular Bioeconomy Fund
- Societal Challenge „Energy“
- EIC Pilot
- FET
- Marie Sk.-Curie Actions
- COST

Horizon 2020 Funding and Tender portal: <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/programmes/h2020>

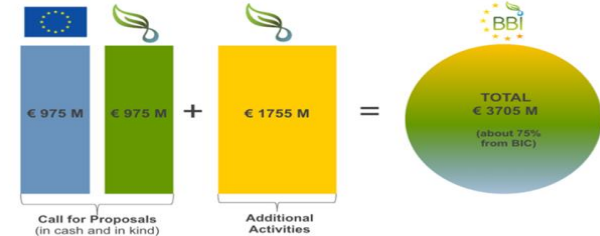
BIOBASED INDUSTRY – JOINT UNDERTAKING (BBI JU)

PARTNERSCHAFT

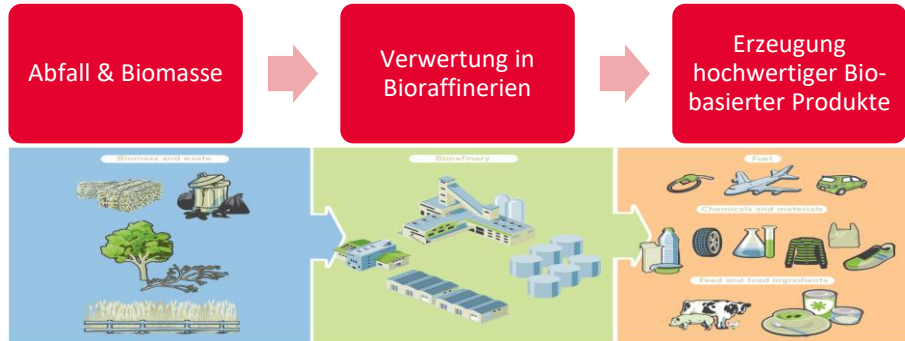


+  Bio-based Industries Consortium (~ 365 Organisationen)

BUDGET



ZIEL



BBI JU - AUSSCHREIBUNG 2020: FRISTEN & BUDGETS

Work Plan 2020

- **Veröffentlichung:** Ende Dezember 2020
- **Budget:** 87 Mio. € für 15 Topics
- **Öffnung des Calls:** 15. April 2020 (tbc)
- **Einreichfrist:** 3. September 2020 (tbc)

Projekttypen	Topics	Budget (Mio €)
Research and Innovation Action	5	22
Demonstration Action - IA	4	28
“FLAGSHIP” Action – IA	2	32
Coordination and Support Action	4	5

Strategic Orientation 1

- Foster supply of sustainable biomass feedstock to feed both existing and new value chains - Improve the utilisation of existing feedstock sources

Strategic orientation 2

- Optimise efficient processing for integrated biorefineries through R&D&I

Strategic Orientation 3

- Develop innovative bio-based products for identified market applications

Strategic Orientation 4:

- Create and accelerate the market-uptake of bio-based products and applications

BBI JU – AUSSCHREIBUNG 2020

TOPICLISTE

- https://www.ffg.at/sites/default/files/downloads/Topicliste_2020.pdf

GESAMTES ARBEITSPROGRAMM (+Details zu den Topics) + Webiste BBI JU

https://www.bbi-europe.eu/sites/default/files/documents/bbi-ju-awp-2020_0.pdf

<https://bbi-europe.eu/>

WEBINAR

- Biobased Industries – Call 2020

28. Jänner 2020, 10-11.30 Uhr

Mit Nelo Emerencia, Director Programming BIC



https://www.ffg.at/europa/veranstaltungen/webinar_Biobased_Industrie_2020-01-28

EUROPEAN CIRCULAR BIOECONOMY FUND

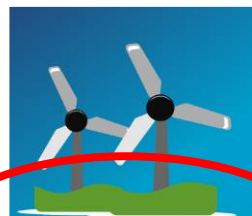
- Fund mit dem Ziel lineare Wertschöpfungsketten in zirkuläre zu transformieren.
 - 250 Mio Euro sollen investiert werden (100 Mio von EIB und weiteren Quellen)
 - late stage Bio-ökonomie-projekte/Unternehmen – Erleichterung des Markteintrittes
-
- Website: <https://www.ecbf.vc/>
 - Fact-sheet:
https://static1.squarespace.com/static/5d8b732b7cfca00407d99096/t/5ddfb8e30c91bc6c3ba1c50a/1574942950514/20191129_ECBF+Factsheet.pdf



SC 3 SICHERE, SAUBERE UND EFFIZIENTE ENERGIE - PRIORITÄTEN 2020



Buildings in
energy transition



Global leadership
in renewables



Smart and clean
energy for consumers



Smart citizen-centred
energy system



Smart Cities and
Communities,
Smart Airports



Near-zero CO₂
emissions (fossil fuel power
plants and carbon intensive
industries)



Joint Actions



Cross-cutting
issues

© C-Energy2020

GLOBAL LEADERSHIP IN RENEWABLES – AUSGEWÄHLTE TOPICS

RENEWABLE FUELS FOR TRANSPORT

- LC-SC3-RES-25-2020*: International cooperation with Japan for Research and Innovation on advanced biofuels and alternative renewable fuels (RIA, 5M€ Budget, DL 1.9.2020)
- LC-SC3-RES-36-2020*: International cooperation with Canada on advanced biofuels and bioenergy (RIA, 8M€ Budget, DL 21.4.2020)
- LC-SC3-RES-37-2020*: Combined clean biofuel production and phytoremediation solutions from contaminated lands worldwide (RIA, 6M€ Budget, DL 21.4.2020)

*contribution towards: mission-innovation initiative

BOTTOM-UP PROGRAMMES – CAREER DEVELOPMENT, MOBILITY AND NETWORKING



Marie Skłodowska-Curie Activities

*Career development and
transnational mobility, e.g.:*

- Individual Fellowships (IF):
Personalized research
projects in Europe and
beyond
- RISE: Knowledge transfer
through staff exchange

Last H2020 Deadlines: · 28 April
(RISE) · 09 Sep 2020 (IF)
www.ffg.at/europa/h2020/msca



European Cooperation in S&T (COST)

*Open, inclusive Pan-European
research & innovation networks*

- Get funding for travel costs
- Participate in Training
Schools & Short Term
Scientific Missions
- Become part of running
COST Actions

Next deadline: 29 April 2020

www.ffg.at/programme/cost

FET OPEN – PATHFINDER

- Objective: Embodiment of novel ideas into radically new technologies
- Optimal project results: Proof of concept/early lab demonstrator of the proposed technology
- Collaborative projects of ≥ 3 partners (RIAs)
- Any topic, any discipline, any participants
- Deadline: 13 May 2020
- Call budget: 190 M€
- Project budget: ~ 3 M€
- Project execution time: ~ 3 years
- Typical consortia: 3 - 6 partners
- Success rate: 10-15%

EXAMPLES OF FUNDED PROJECTS

1. Catalyst Cascade Reactions in 'One-Flow' within a Compartmentalized, Green-Solvent 'Digital Synthesis Machinery'
2. Redesigning biocatalysis: Thermal-tuning of one-pot multienzymatic cascades by nanoactuation
3. Hybrid Electronics based on Photosynthetic Organisms
4. Control Engineering of Biological Systems for Reliable Synthetic Biology Applications
5. Boosting Crop Growth using Natural Product and Synthesis Enabled Solar Harvesting

EIC – PILOT 2020 ACCELERATOR

- **Single SME** with a business plans to develop a **high risk** innovation **to scale up** with a **disruptive impact** on the Market
- **Bottom-up**: any topic, product, service, business model
- Funding options
 - **Grant** funding for the **late stage development** (min. TRL 6) up to € 2.5 millions (70% of costs)
 - **Equity** investment by EC up to € 15 millions (TRL 9)
- Success rate: ~ 5% (extremely competitive)
- Funded projects map: <https://sme.easme-web.eu/>



- **Next submission deadlines:**

- ✓ 8 January 2020
- 16 March 2020
- 19 May 2020*
- 7 October 2020*

- * restriction on topics or new organisational requirements might apply, to be confirmed by end of January 2020

STRUKTUR VON HORIZON EUROPE (€ 100 MIA. , 2021-2027)

proposed
budget HEU



€ 2,4 EURATOM,
3,5 INVEST EU

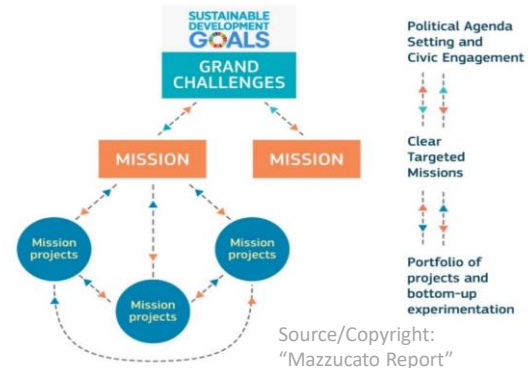
SÄULE 2 - CLUSTERS IN GLOBAL CHALLENGES AND EUROPEAN INDUSTRIAL COMPETITIVENESS

Clusters	Areas of intervention	
Health	• Health throughout the life course • Environmental and social health determinants • Non-communicable and rare diseases	• Infectious diseases • Tools, technologies and digital solutions for health and care • Health care systems
Culture, creativity and inclusive society	• Democracy and Governance • Culture, cultural heritage and creativity • Social and economic transformations	
Civil Security for Society	• Disaster-resilient societies • Protection and Security • Cybersecurity	
Digital and Industry	• Manufacturing technologies • Key digital technologies, incl. quantum techs • Emerging enabling technologies • Advanced materials • Artificial intelligence and robotics	• Next generation internet • Advanced computing and Big Data • Circular industries • Low carbon and clean industries • Space, including Earth Observation
Climate, Energy and Mobility	• Climate science and solutions • Energy supply • Energy systems and grids • Buildings and industrial facilities in energy transition	• Communities and cities • Industrial competitiveness in transport • Clean safe and accessible transport and mobility • Smart mobility • Energy storage
Food and Natural Resources	• Environmental observation • Biodiversity and natural resources • Agriculture, forestry and rural areas	• Sea, oceans and inland waters • Food systems • Bio-based innovation systems in the EU bioeconomy • Circular systems

STRUKTUR VON HORIZON EUROPE

MISSIONEN – MISSIONSBEREICHE

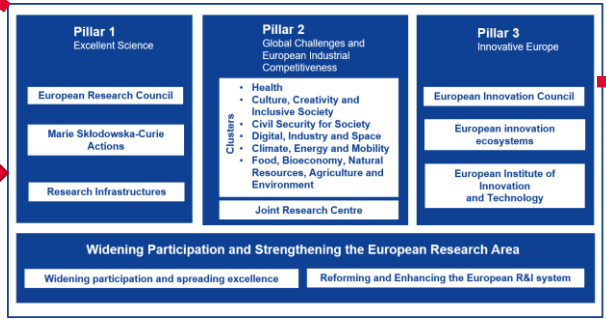
- Adaptation to climate change, including societal transfer.
- Cancer
- Healthy oceans, seas , coastal and inland waters
- Climate-neutral and smart cities
- Soil Health and Food



Synergy programmes

eg.

- Digital Europe Programme
- European Defence Fund
- Erasmus
- INVEST EU
-



PARTNERSCHAFTEN

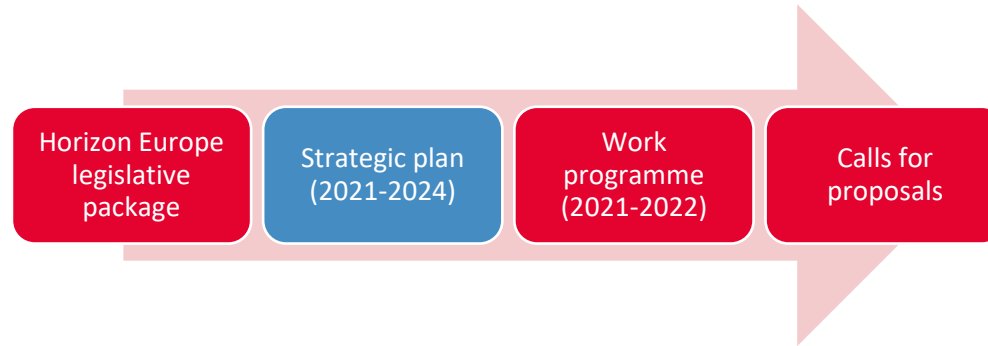
A new generation of objective-driven and more ambitious partnerships in support of agreed EU policy objectives

- Simple architecture and toolbox
- Coherent life-cycle approach
- Strategic orientation
- co-programmed (cPPP)
- co-funded (ERA-NETs, EJP, FET flagship.)
- institutionalised (Art. 185/187, EIT)

48 KANDIDATEN FÜR PARTNERSCHAFTEN

Cluster 1	Cluster 4	Cluster 5	Cluster 6	Other
EU-Africa Global Health Partnership	High Performance Computing	Transforming Europe's rail system	Accelerating farming systems transition: agro-ecology living labs and research infrastructures	Innovative SMEs
Innovative Health Initiative	Key digital Technologies	Integrated Air Traffic Management	Animal health: Fighting infectious diseases	European Science Cloud
European partnership for chemical risk assessment	Smart networks and Services	Clean Aviation	Environmental Observations for a sustainable EU agriculture	+ 8 EIT KICs
Fostering an ERA for Health research	AI, data and robotics	Clean Hydrogen	Rescuing biodiversity to safeguard life of Earth	
Large-scale innovation and transformation of health systems in a digital and ageing society	Photonics Europe	Built environment and construction	A climate neutral, sustainable and productive Blue Economy	
Personalised Medicine	Clean Steel – Low Carbon Steelmaking	Towards zero-emission road transport (2ZERO)	Safe and Sustainable Food System for People, Planet & Climate	
Rare diseases	European Metrology	Mobility and Safety for Automated Road Transport	Circular bio-based Europe	
One Health AMR	Made in Europe	Zero Emissions waterborne transport	Water4All: Water security for the planet	
	Carbon Neutral and Circular Industry	Batteries: Towards a competitive European industrial battery value chain		
	Global competitive space systems	Sustainable, Smart and Inclusive Cities and Communities		
	Geological Service for Europe	Clean Energy Transition		

STRATEGISCHE PLANUNG UND IMPLEMENTIERUNG

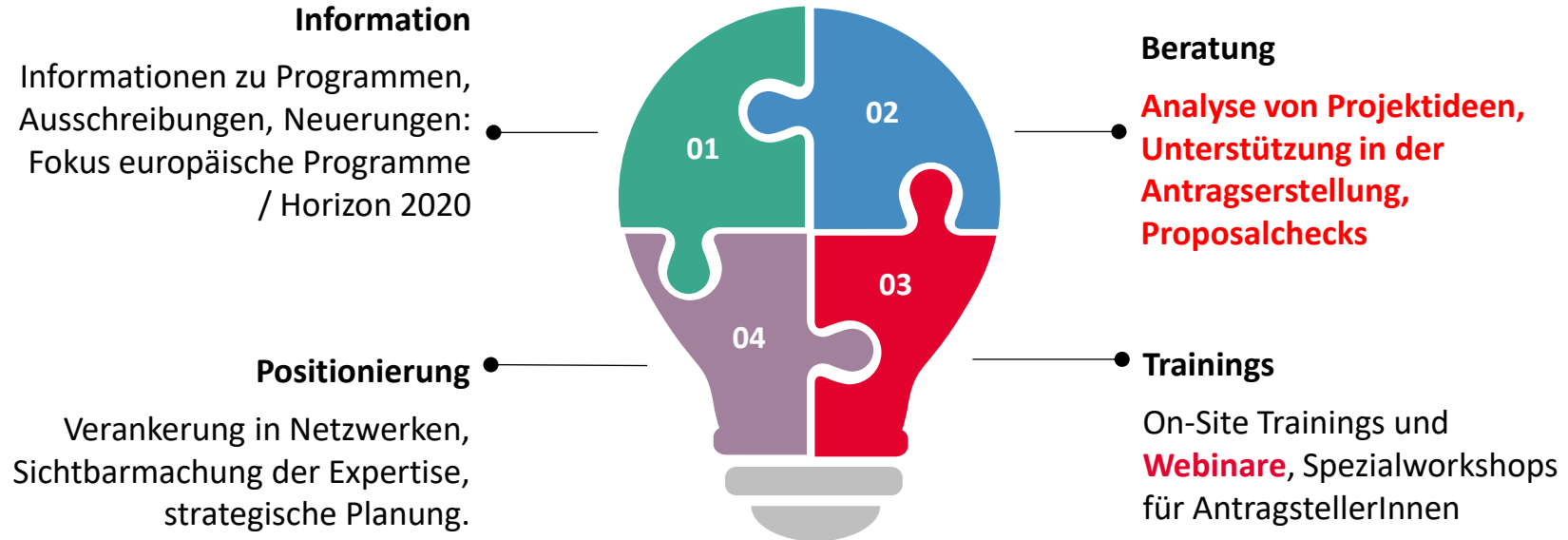


- New approach -> strategic plan for 4 years of FP
 - strategic orientation – basis of workprogrammes and calls
 - partnerships and missions
 - areas for international cooperation
- further issues such as balance between R and I, Social Sciences, Key Enabling Technologies and strategic value chains, gender, ethics,
- based on strategic plan (first quarter 2020) → definition of workprogramme (2020 → call for proposals (end 2020))

TAKE HOME MESSAGES

- Use **LAST FUNDING OPPORTUNITIES** in Horizon 2020
- Consider a **COST PARTICIPATION**
- Stay tuned for **HORIZON EUROPE** –
 - UNDERSTAND NOVELITIES FROM THE BEGINNING
 - FOLLOW DEVELOPMENTS FOR RELATED PARTNERSHIP(s) AND MISSIONS
 - ANNOUNCEMENT OF FIRST CALLS END OF 2020





WEITERE INFORMATIONEN

- **Horizon 2020 Funding and Tender portal**
 - <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/programmes/h2020>
- **Introduction and Timeline and Process HEU**
 - <https://www.consilium.europa.eu/en/policies/horizon-europe/>
 - https://ec.europa.eu/info/horizon-europe-next-research-and-innovation-framework-programme_en

Legal text and fact sheets HEU

- https://ec.europa.eu/commission/publications/research-and-innovation-including-horizon-europe-iter-and-euratom-legal-texts-and-factsheets_en
- **Common understanding on the HEU:**
 - <https://data.consilium.europa.eu/doc/document/ST-7942-2019-INIT/en/pdf>
- **PGA on Specific Programme of HEU**
 - <https://data.consilium.europa.eu/doc/document/ST-8550-2019-INIT/en/pdf>
- **FFG-Horizon Europe**
 - <https://www.ffg.at/Europa/FP9>

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www.ffg.at

VIELEN DANK FÜR IHRE AUFMERKSAMKEIT!