

# Europeiske ordninger for støtte til FoU innenfor marin bioteknologi og anvendelse av marine restra stoffer

 ystein R nning, 9. november 2017



# Horizon 2020

EU's framework programme 2014-2020  
79 billion Euro

Research and Innovation

Jobs and growth – UN-SDGs – Paris agreements

**The world's largest arena for international R&I**





# Participant Portal

## RESEARCH & INNOVATION

### Participant Portal

European Commission > Research & Innovation > Participant Portal > Home

HOME

FUNDING OPPORTUNITIES

HOW TO PARTICIPATE

EXPERTS

SUPPORT

Search PP



LOGIN



REGISTER

The Participant Portal will be under maintenance from **Friday 5th June 8PM to Saturday 6th June 2015 4PM (CET)**. During this period users may encounter problems accessing the Participant Portal services. We apologise for any inconvenience this may cause.



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?



FUNDING OPPORTUNITIES



HOW TO PARTICIPATE



WORK AS AN EXPERT



MY PERSONAL AREA



INFORMATION AND SUPPORT

# Bi-annual work programs

2014	2015	2016	2017	2018	2019	2020
Strategic Programme						
Work Programme 1 (plus tentative information for 2016)		Strategic Programme				
		Work Programme 2 (plus tentative information for 2018)	Strategic Programme			
				Work Programme 3 (plus tentative information for 2020)		
						Work Programme 4

## 4 virtual «Focus Areas» for 2018-20



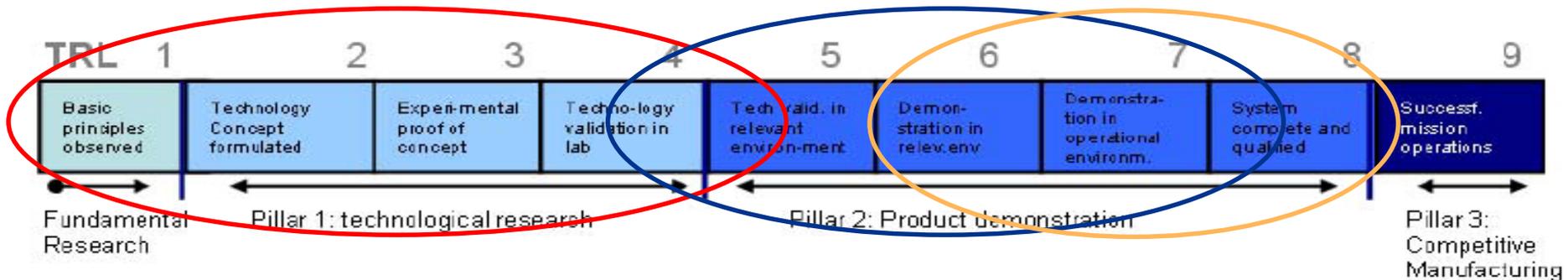
**LC:** Building a **low-carbon, climate resilient future**

**CE:** Connecting economic and environmental gains – the **Circular Economy**'

**DT:** **Digitising** and transforming European industry and services'

**SU:** Boosting the effectiveness of the **Security Union**

# Technology Readiness Levels for Research and innovasjon



**Research and innovation actions (RIA)**

**100% + 25%**

**Innovation actions (IA)**

**70% + 25%**  
 (Unntak:  
 non-profit  
 organisasjoner:  
 100+25%)

**SME instrument**

Phase 1: Feasibility  
 Phase 2: Innovation projects

**70% + 25%**

# Structure in Horizon 2020

## Excellent Science

- **European Research Council** - *Frontier research by the best individual teams*
- **Future and Emerging Technologies** *Collaborative research to open new fields of innovation*
- **Marie Skłodowska Curie actions** - *Opportunities for training and career development*
- **Research infrastructures** (including e-infrastructure) - *Ensuring access to world-class facilities*

**Budget ca. 32 bill Euro**

## Competitive Industries

- **Leadership in enabling and industrial technologies** (*ICT, nanotechnologies, materials, biotechnology, manufacturing, space*)

Access to risk finance - Leveraging public finance and venture capital for  
**SC2: Food Security, sustainable agriculture and forestry, marine and maritime and inland water research, and the Bioeconomy**

**Budget ca 22 bill Euro**

## Better Societies

- **Health**, Demographic Change and Well-Being
- **Food Security**, sustainable **agriculture** and forestry, **marine and maritime** and inland water research, and the **Bioeconomy**
- Secure, clean and efficient **Energy**
- Smart, green and integrated **Transport**
- **Climate** action, **environment**, resource efficiency and raw materials
- Europe in a changing world – innovative, inclusive and reflective **societies**
- **Secure Societies** – Protecting freedom and security of Europe and its citizens

**Budget ca. 38,5 bill Euro**

European Institute of Innovation and Technology (EIT) 2,71 bill Euro

Widening participation and Spreading Excellence, ca. 800 mill Euro

Science with and for Society, ca. 460 mill Euro

# **Societal Challenge 2 (SC2) Work Programme for 2018-2020**

**Responds to some of the key challenges our planet is facing for the years to come: adapting to and mitigating climate change; ensuring food security; safeguarding the natural resource base, promoting alternatives to fossil-based economies and sustainably using marine resources while protecting the oceans.**

**Agriculture and food systems, forestry, the marine and the bio-based sectors are at the very heart of the challenges to be addressed.**

# Work Programs 2018-2020

## Three calls in SC2:

1. Sustainable food security (SFS)
2. Blue Growth (BG)
3. Rural Renaissance (RUR)



# SFS–Sustainable Food Security

Proposals shall identify and assess new or alternative protein sources for food and/or feed and develop/validate efficient production and processing approaches to convert/integrate them into high quality, safe, healthy, and sustainable products or ingredients.

Proposals shall focus on the characterisation of nutritional values, functional and sensory properties of new and alternative proteins, as well as on the deepening of the understanding of protein-protein interactions for knowledge-based (re)formulations of protein blends that partly or fully could substitute traditional sources.

LC-SFS-17-2019 Alternative proteins for food and feed (IA)





## BG- Blue Growth

Activities shall provide fundamental knowledge on the potential role of mesopelagic micro- and macro-organisms for human food chain and other bio-based products and processes, while preserving biodiversity and enhancing resilience to climate change and mitigation. They shall also address the potential of mesopelagic resources including micro-organisms for marine biotechnological applications.



**BG-02-2018: Blue  
Bioeconomy Public-Public  
Partnership**  
(ERAnet Cofund)

LC-BG-03-2018: Sustainable  
harvesting of marine  
biological resources (RIA)

## RUR 2—Organising sustainable food and non-food value chains under changing condition

CE-RUR-10-2019: Circular bio-based business models for rural communities (IA)



Based on an established agro-food system, consider a variety of additional bio-based processes and end products that could be integrated into the system, and that are viable on a small scale (farm to rural community level). 'Agro-food system' shall be understood here as a characteristic combination of farming activities and first transformation or conditioning of the farming outputs. In coastal areas, this may include fisheries, aquaculture and first processing of their products.

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- **Future and Emerging Technologies**  
*Collaborative research to open new fields*

## LEIT Biotechnology

- **Research infrastructures** (including e-infrastructure) - *Ensuring access to world-class facilities*

**Budget ca. 32 bill Euro**

## Competitive Industries

- **Leadership in enabling and industrial technologies** (*ICT, nanotechnologies, materials, biotechnology, manufacturing, space*)
- **Access to risk finance** - *Leveraging private finance and venture capital for research and innovation*
- **Innovation in SMEs** - *Fostering all forms of innovation in all types of SMEs*

**Budget ca 22 bill Euro**

## Better Societies

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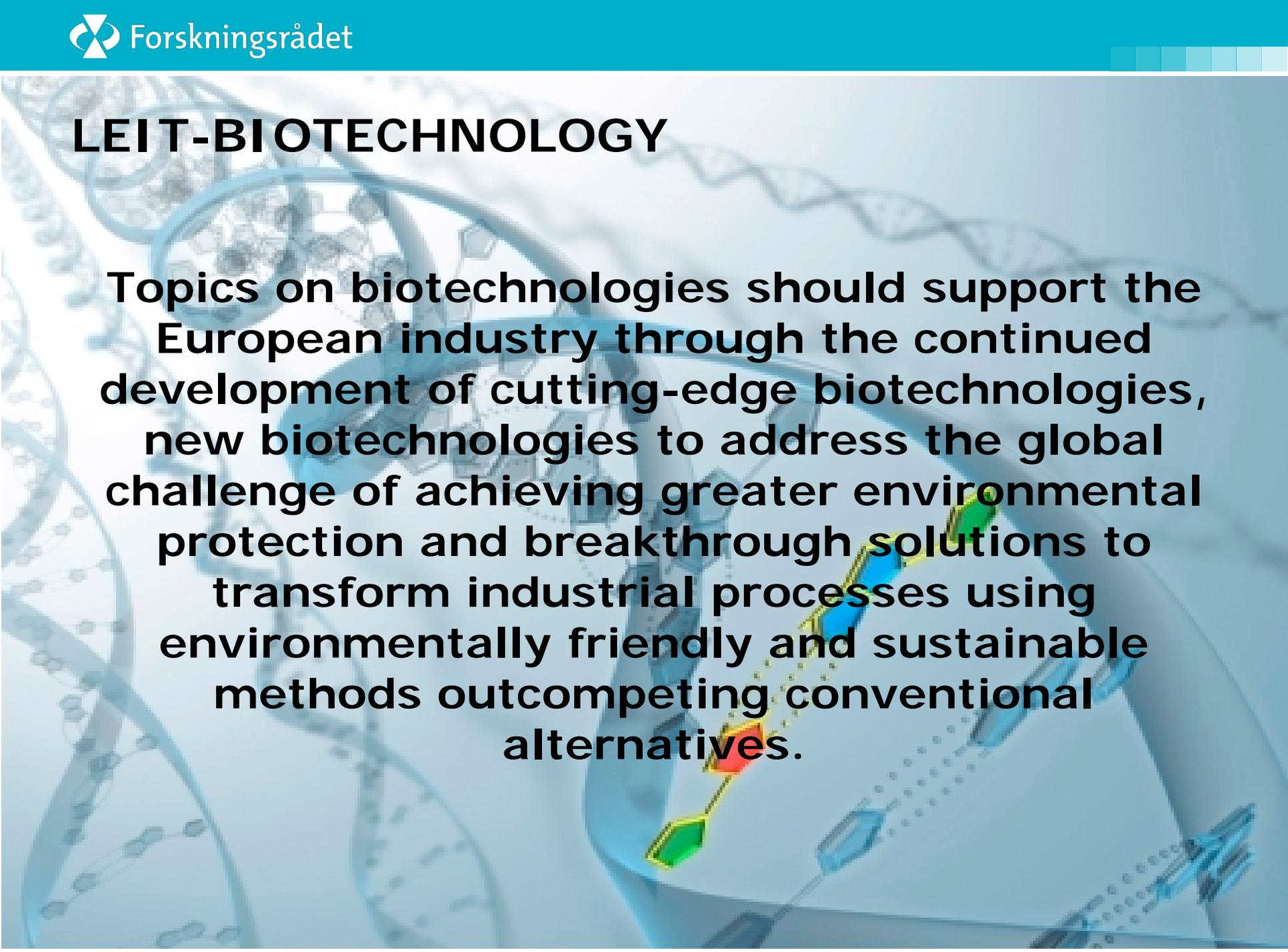
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## LEIT-BIOTECHNOLOGY

**Topics on biotechnologies should support the European industry through the continued development of cutting-edge biotechnologies, new biotechnologies to address the global challenge of achieving greater environmental protection and breakthrough solutions to transform industrial processes using environmentally friendly and sustainable methods outcompeting conventional alternatives.**



# LEIT Biotech-2018-19

Proposals should work towards the optimisation of photosynthesis by capitalising on multidisciplinary approaches, such as functional genomics, systems biology, metabolic modelling, enzyme engineering, computational biology, synthetic biology, directed evolution and gene editing techniques. Proposals should work with plants or algae and deal with any of the biological components underlying the diversity of photosynthesis.

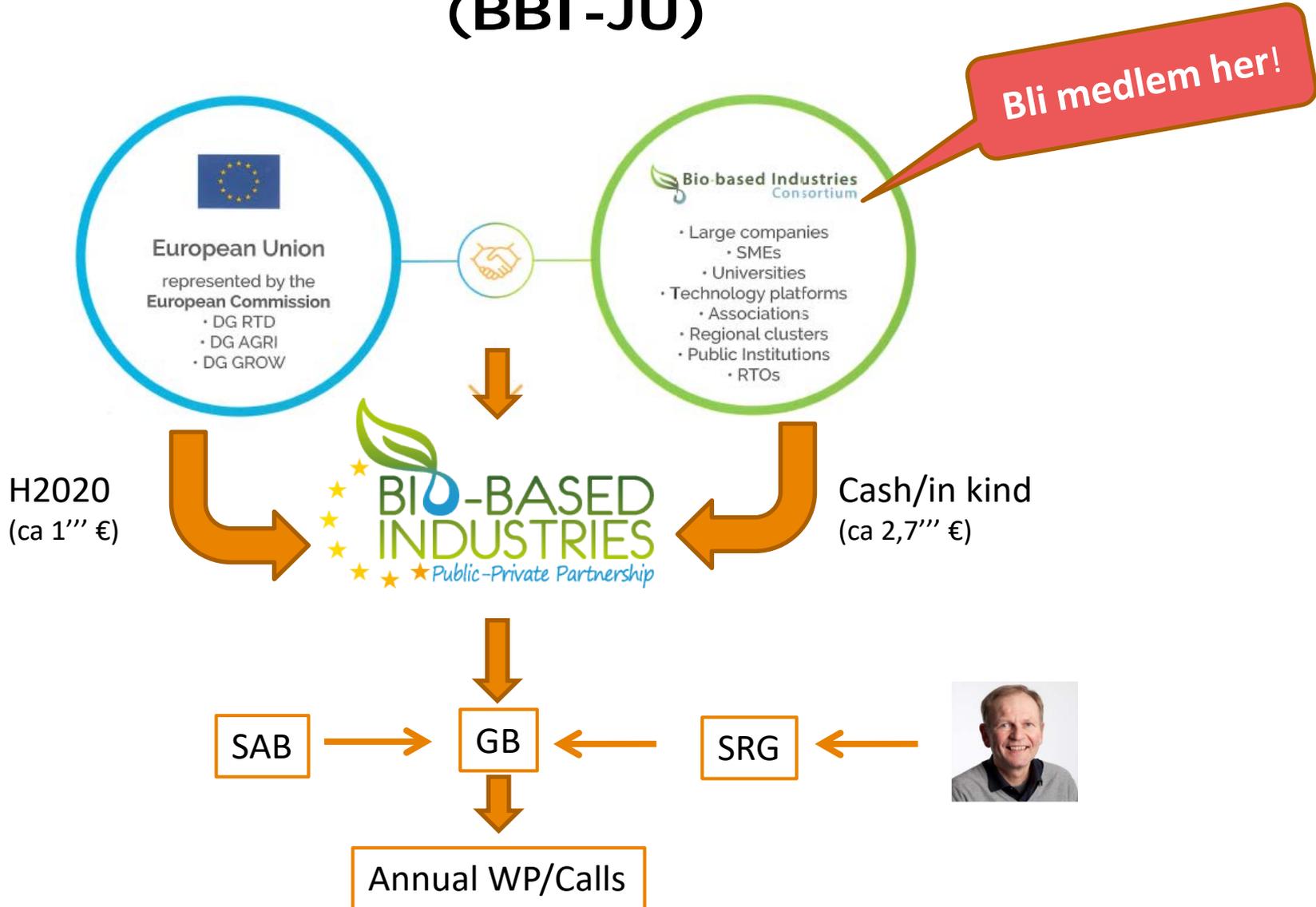
Proposals will consist of the bioengineering of the genome of organisms (e.g. yeast, algae, bacteria) to be used in industrial processes in order to optimise molecular pathways. This should lead to the design and synthesis of naturally unavailable and efficient pathways for the production of new complex and high value added chemicals for the pharmaceutical, agricultural or material sectors.

# Bio-based industries (BBI-JU)

Annual work programs:  
Publication spring 2018  
Submission date autumn 2018

The screenshot shows the homepage of the BBI Joint Undertaking website. At the top left is the logo for 'BIO-BASED INDUSTRIES' with the tagline 'Public-Private Partnership'. To the right are links for 'Contact' and 'Search this site'. A main headline reads 'BBI Joint Undertaking: a new €3.7 billion partnership between the EU and the Bio-based Industries Consortium'. Below this is a navigation menu with links for 'Home', 'About BBI', 'Participate', 'News', 'Events', and 'Multimedia'. The main content area features a large image of a biorefinery with the text 'Advanced biorefineries at the heart of the European bioeconomy'. To the right of this image is a blue box with the text 'The BBI is recruiting!' and 'For more information, go to the vacancy page.' Below the main image are three smaller images: 'About BBI' (showing laboratory glassware), 'Participate' (showing a periodic table), and 'BBI Partnering Platform' (showing a building). At the bottom, there are three columns: 'News' with two articles from March 2015 and February 2015; 'Twitter' with two tweets from BBI Joint Undertaking; and 'Events' with two events from March and January 2015.

# Bio-based industries Joint Undertaking (BBI-JU)



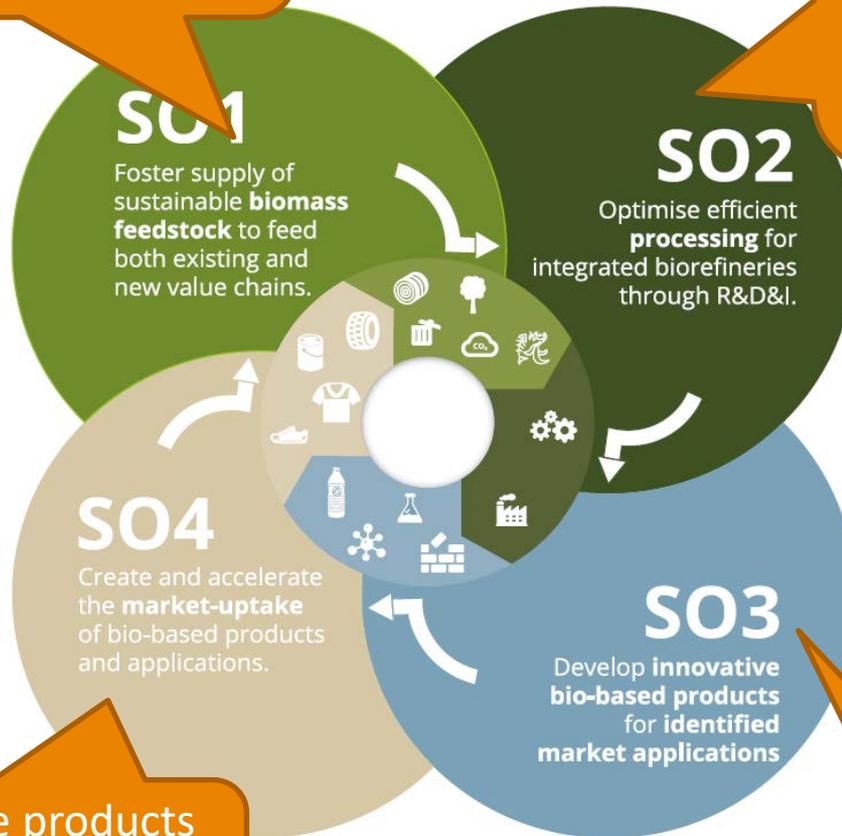
# SIRA

STRATEGIC INNOVATION & RESEARCH AGENDA



**BIO-BASED INDUSTRIES**  
for Development & Growth in Europe

Aquatic feedstock: aquatic organisms, fisheries and aquaculture sectors and their residues



- Pre-treatment
- Conversion of pre-treated feedstocks to bio-based chemicals and materials
- Downstream processing
- System modelling

High added-value products for specific applications in different market sectors

Proteins and active ingredients for feed/food, pharmaceuticals and cosmetics

## Next steps

- Participant Portal
- Read the work programme
- National Contact Points for Food, Oceans and Bioeconomy and LEIT Biotech



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- GET READY! Calls are published on Participant portal
- Deadline: 13. February 2018.

## Suksess i ni av ti tilfeller

En forsker i Tromsø har vært med i ti EU-søknader etter 2010. Hele ni av prosjektene har fått finansiering, fem av dem i Horisont 2020. Nå lærer han bort triksene til sine kolleger i Nofima. Her får du noen av hans tips og erfaringer.

- › Flere suksesshistorier
- › Støtte til våre søkere

Del



Nofima har sikret seg en rekke EU-prosjekter der Petter Olsen har vært sentral. Her er han sammen med Nofima-forskerne Kathryn Donnelly og Kine Mari Karlsen om bord på frysetrålere «Hermes» i forbindelse med EU-prosjektet «WhiteFish» som ble avsluttet i 2014. (Foto: Lars Åke Andersen © Nofima)

Suksessraten i Horisont 2020 er i gjennomsnitt 12 prosent, som følge av mange flere søknader enn i tidligere rammeprogrammer. Det kan ta motet fra mange, men sjansen er mye større enn de offisielle tallene skulle tilsi hevder seniorforsker og grossist i EU-prosjekter Petter Olsen i Nofima. Han har mange års erfaring som søknadsskriver og har vært med flere ganger som evaluatør.

Lytt til  
erfarne  
...folk!

[https://www.forskningsradet.no/no/Nyheter/Suksess i ni av ti tilfeller/1254028412993](https://www.forskningsradet.no/no/Nyheter/Suksess_i_ni_av_tilfeller/1254028412993)