

Bavarian  
Research Alliance

# Fördermöglichkeiten für Forschung und Innovation in der Kreislaufwirtschaft



Thomas Ammerl  
Fachbereichsleiter Umwelt, Energie & Bioökonomie  
[ammerl@bayfor.org](mailto:ammerl@bayfor.org)



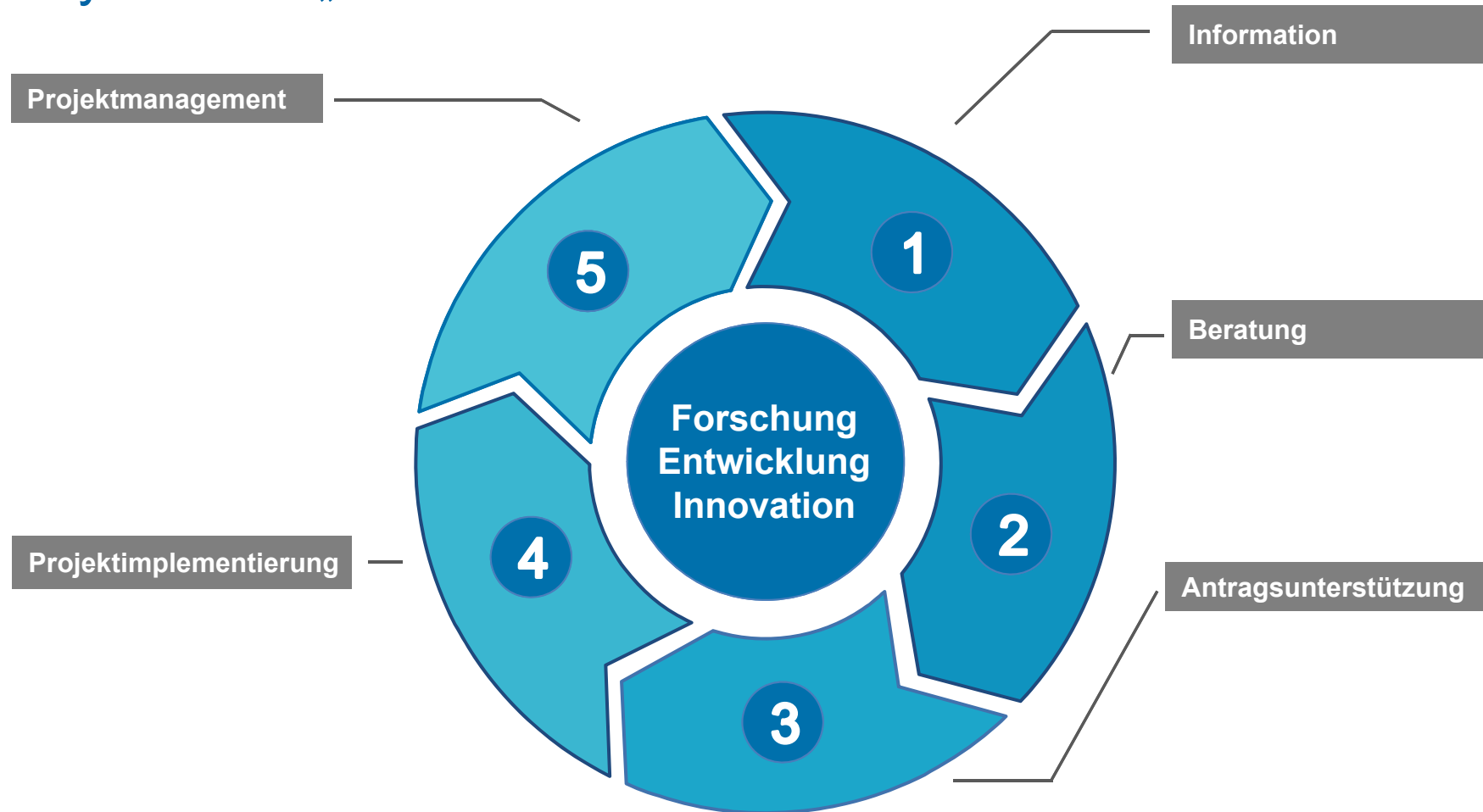
Bavarian  
Research and  
Innovation Agency

12.03.2019 | HFF München | T. Ammerl (BayFOR)



Bavarian  
Research Alliance

## BayFOR als „Full-Service-Provider“



Bavarian  
Research and  
Innovation Agency

12.03.2019 | HFF München | T. Ammerl (BayFOR)

**Themen**

**+**

**Akteure**



Grafik: Peter Schmidt



Bavarian  
Research Alliance

17 SDGs und 169 Ziele (seit 01.01.2016 in Kraft)

# SUSTAINABLE DEVELOPMENT GOALS



Source: United Nations (2016): <https://www.un.org/sustainabledevelopment/news/communications-material/>



Bavarian  
Research and  
Innovation Agency

12.03.2019 | HFF München | T. Ammerl (BayFOR)





## „Retain, reduce, protect“



„Should the global population reach 9.6 billion by 2050, the equivalent of almost three planets could be required to provide the natural resources needed to sustain current lifestyles“ (UN 2018).

"Our planet and our economy cannot survive if we continue with the 'take, make, use and throw away' approach. **We need to retain** precious resources and fully **exploit all the economic** value within them. The circular economy is about **reducing waste** and **protecting the environment**, but it is also about a **profound transformation** of the way our entire economy works" (Timmermans 2015).



Source: United Nations (2018): <https://www.un.org/sustainabledevelopment/sustainable-consumption-production/>  
European Commission (2015): [http://europa.eu/rapid/press-release\\_IP-15-6203\\_en.htm](http://europa.eu/rapid/press-release_IP-15-6203_en.htm)



## „Kreislaufwirtschaft“ in Brüssel

- **March 2015:** European Commission withdrew the legislative **proposal on waste** included in that package, to make way for 'a more ambitious proposal that will cover the whole of the circular economy'.
- **December 2015:** As part of a **new circular economy package**, the European Commission presented the Circular Economy Action Plan
- **2017:** European Commission confirmed it would focus on **plastics** production and use and work towards the goal of ensuring that all plastic packaging is recyclable by 2030.
- **January 2018:** EC adopted a new set of measures, focusing on **plastic waste** (Closing the loop).
- **2016-2020:** more than 10 billions for funding in circular economy



Source:

European Commission (2018): [http://ec.europa.eu/environment/circular-economy/index\\_en.htm](http://ec.europa.eu/environment/circular-economy/index_en.htm)

European Commission (2017): [http://ec.europa.eu/environment/circular-economy/implementation\\_report.pdf](http://ec.europa.eu/environment/circular-economy/implementation_report.pdf)



## „Closing the loop“: jüngste Maßnahmen seit 2018

- **Europe-wide EU Strategy for Plastics in the Circular Economy** and annex to transform the way plastics and plastic products are designed, produced, used and recycled. By 2030, all plastics packaging should be recyclable.
- **Communication** on options to address the interface between **chemical, product and waste legislation** that assesses how the rules on waste, products and chemicals relate to each other.
- **Report on Critical Raw Materials** and the circular economy that highlights the potential to make the use of the 27 critical materials in our economy more circular.
- **Turning Waste into Resources:** since July 2018 new [waste legislative framework](#) (new ambitious recycling rates, clarified legal status of recycled materials, strengthened waste prevention and waste management measures, incl. for marine litter, food waste, and products containing critical raw materials)
- **Circular Design and Production Processes:** Smart design at the beginning of a product's lifecycle is essential for ensuring circularity. With the implementation of the [Ecodesign Working Plan 2016-2019](#): circular design of products, energy efficiency objectives.

Source: European Commission (2018):

[http://ec.europa.eu/environment/circular-economy/index\\_en.htm](http://ec.europa.eu/environment/circular-economy/index_en.htm)

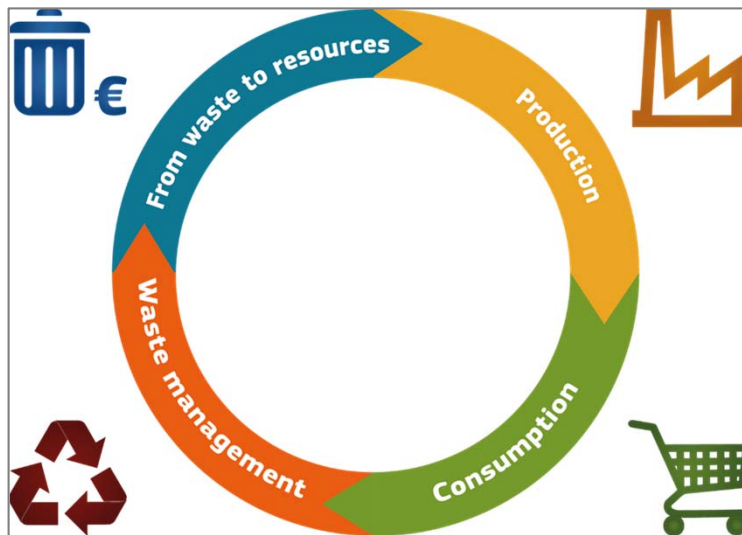




Bavarian  
Research Alliance

## Circular Economy Package (key areas + priority sectors)

4 key areas of action



5 priority sectors



Source: European Commission: [http://ec.europa.eu/environment/circular-economy/pdf/seminar/1%20DG%20ENV\\_Circular%20Economy%20package.pdf](http://ec.europa.eu/environment/circular-economy/pdf/seminar/1%20DG%20ENV_Circular%20Economy%20package.pdf)



Bavarian  
Research and  
Innovation Agency

12.03.2019 | HFF München | T. Ammerl (BayFOR)





Bavarian  
Research Alliance

Flash Eurobarometer 441



Briefing note

European SMEs and the Circular Economy

Fieldwork  
April 2016  
Publication  
June 2016

Survey requested by the European Commission,  
Directorate-General Environment  
and co-ordinated by the Directorate-General for Communication

This document does not represent the point of view of the European Commission.  
The interpretations and opinions contained in it are solely those of the authors.

Flash Eurobarometer 441 – TNS Political & Social



Bavarian  
Research and  
Innovation Agency

12.03.2019 | HFF München | T. Ammerl (BayFOR)



JRC TECHNICAL REPORTS

## Standards for the assessment of the environmental performance of photovoltaic modules, power conversion equipment and photovoltaic systems

DG GROW SI2.764246  
JRC N° 34713-2017

Dunlop, E.D., Gracia Amillo, A.,  
Salis, E., Sample, T., Taylor, N.

2018



EUR 29247 EN



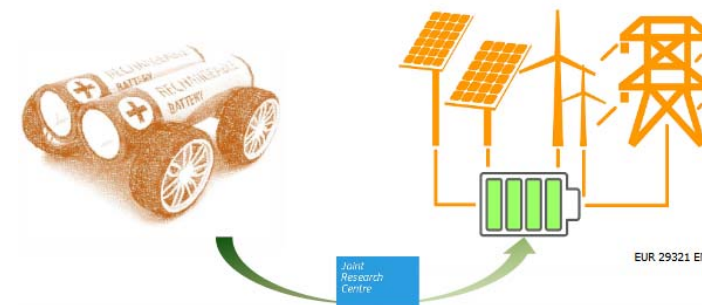
JRC TECHNICAL REPORTS

## Sustainability Assessment of Second Life Application of Automotive Batteries (SASLAB)

JRC Exploratory Research  
(2016-2017)  
Final technical report  
August 2018

Silvia BOBBA  
Andreas PODIAS  
Franco DI PERSIO  
Maarten MESSAGIE  
Paolo TECCHIO  
Maria Anna CUSENZA  
Umberto EYNARD  
Fabrice MATHIEUX  
Andreas PFRAING

2018



EUR 29321 EN



Bavarian  
Research and  
Innovation Agency

12.03.2019 | HFF München | T. Ammerl (BayFOR)



Bavarian  
Research Alliance

## A circular economy for plastics (04.03.2019)



- First EU-wide policy framework adopting a material-specific lifecycle approach to integrate circular design, **use, reuse and recycling** activities into plastics value chains.
- Clear vision with **quantified objectives** at EU level, so that *inter alia* by 2030 all plastic packaging placed on the EU market is reusable or recyclable.
- Commission launched the [Circular Plastics Alliance](#) of key industry stakeholders supplying and using recycled plastics.
- Rules on [Single-Use Plastics](#) (product design requirements and Extended Producers Responsibility schemes).

Source: [https://www.hbm4eu.eu/wp-content/uploads/2019/03/2019\\_RI\\_Report\\_A-circular-economy-for-plastics.pdf](https://www.hbm4eu.eu/wp-content/uploads/2019/03/2019_RI_Report_A-circular-economy-for-plastics.pdf)



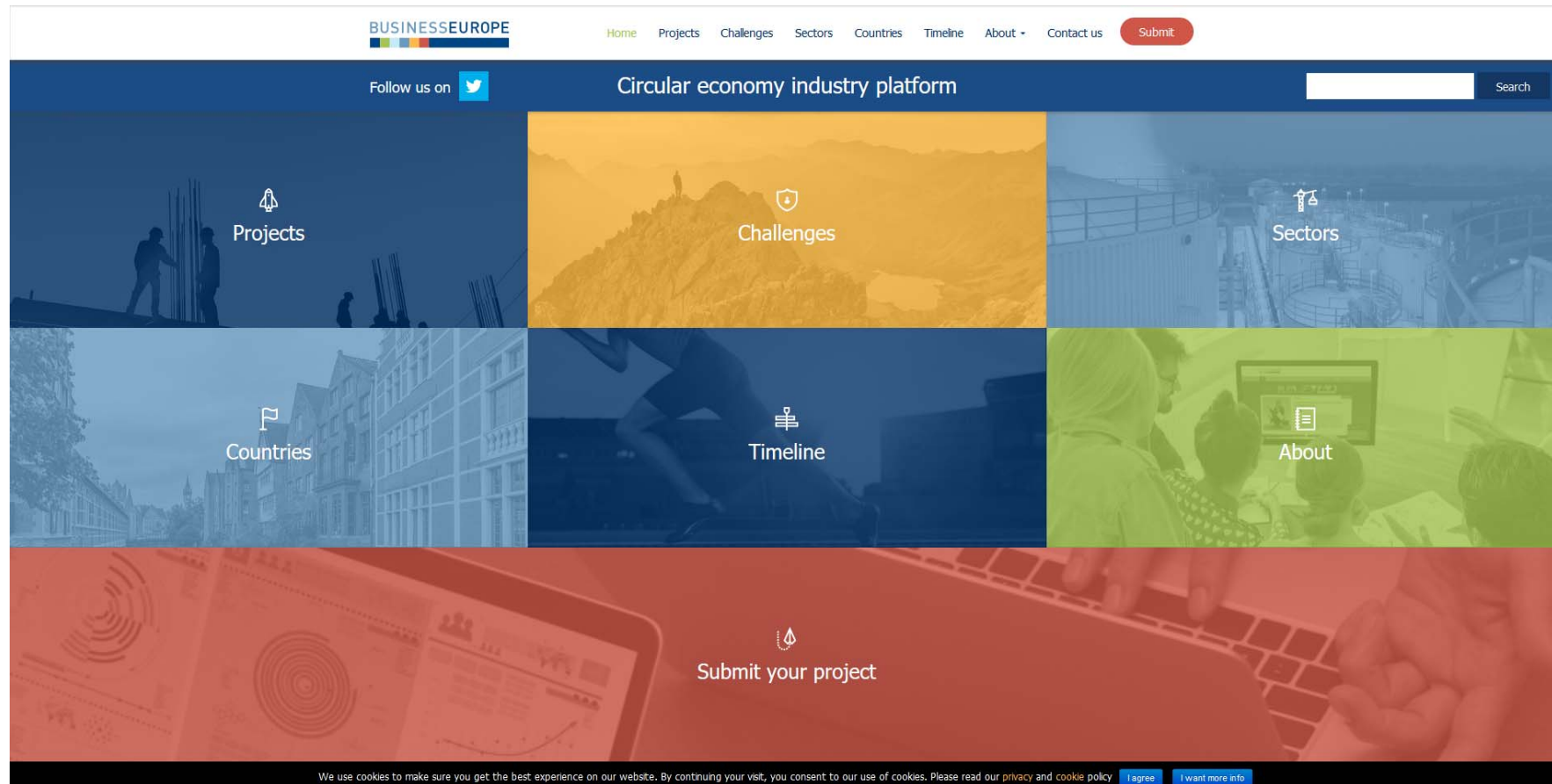
Bavarian  
Research and  
Innovation Agency

12.03.2019 | HFF München | T. Ammerl (BayFOR)



Bavarian  
Research Alliance

# Circular Economy Industry Platform



Source: <http://www.circularity.eu/>



Bavarian  
Research and  
Innovation Agency

12.03.2019 | HFF München | T. Ammerl (BayFOR)





Bavarian  
Research Alliance

# European Circular Economy Stakeholder Platform



European Union

europa.eu

[Legal Notice](#) | [Copyright Notice](#) | [Privacy Statement](#) | [Cookie Policy](#) | [Contact](#) | [Search on Europa](#)

English ▼

Europa > European Circular Economy Stakeholder Platform

#CEstakeholderEU

## European Circular Economy Stakeholder Platform

A joint initiative by the European Commission and the European Economic and Social Committee

[Home](#) [Good Practices](#) [Strategies](#) [Knowledge](#) [Commitments](#) [Dialogue](#) [Contribute](#) [News & Events](#) [About](#)

**Welcome** to the European Circular Economy Stakeholder Platform.  
**Your Platform** to exchange and interact, and make circular economy happen faster to the benefit of all.

**Contribute:** submit content for this website (good practice, publication, event, network...) via our [online forms](#)



**Engage** with other stakeholders on our [discussion forum](#)

**Stay up-to-date** with our latest publications, events or announcements by [subscribing](#) to our [newsletter](#)



All about the #CEstakeholderEU 2019 Annual Conference on [this page](#)

**Looking for a good practice, a contact, a study...?**

### Latest news and events

Implementing Circular Value Chains

13 Mar 2019



The European Recycling Industries' Confederation will hold its annual conference, entitled *Implementing Circular Value Chains*, in Brussels on 13 March 2019.

[Read more >](#)

[Annual meeting](#)

Which sustainable future for plastic?

### #CEstakeholderEU



**3SIXTY**  
@3sixtyhome

We were educated, inspired and energized at last weeks @CEstakeholderEU summit in Brussels. The future path is laid out for us all and it's circular!  
[#CEstakeholdereu](#)  
[#circulareconomy](#)  
[#eugreenbiz](#)  
[pic.twitter.com/8VgmZSo99a](#)

3h



**Mathilde Mercky**

Source: <https://circulareconomy.europa.eu/platform/>



Bavarian  
Research and  
Innovation Agency

12.03.2019 | HFF München | T. Ammerl (BayFOR)

# „Kreislaufwirtschaft“ in europ. Umweltforschung: Klimaschutzmaßnahmen, Ressourceneffizienz und Rohstoffe

**Forschungsfelder:**  
Klimaanpassung  
Kulturerbe  
Erdbeobachtung  
Natur-basierte Lösungen  
Öko-Innovationen



GLOBAQUA



**BASEMAN**





## Offene Ausschreibungen im Umwelt-Arbeitsprogramm 2020

- Deadlines (RIA: 13.02.2020 + 03.09.2020; CSA: 13.02.2020)
- CE-SC5-24-2020: Improving the sorting, separation and recycling of composite and multi-layer materials (3-4 Mio. €, total 20 Mio. €)
- CE-SC5-28-2020: Develop and pilot circular systems in plastics, textiles and furniture sectors (TRL6-7, 7-8 Mio. €, total 15 Mio. €)
- CE-SC5-29-2020: A common European framework to harmonise procedures for plastics pollution monitoring and assessments (CSA: 2 Mio. €)
- CE-SC5-30-2020: Plastics in the environment: understanding the sources, transport and distribution of plastics pollution (2-3 Mio. €; total 5 Mio. €)
- CE-SC5-31-2020: Develop, implement and assess a circular economy oriented product information management system for complex products from cradle to cradle (TRL6-7, 7-8 Mio. €, total 15 Mio. €)



# „Kreislaufwirtschaft“ in europäischer Energieforschung: sichere, saubere und effiziente Energie

## Forschungsfelder:

Erneuerbare

Konsumenten

Smart Cities

Energieeffizienz (Gebäude, Industrie, Produkte, Finanzierungsmodelle)



FITHydro



Upgrade DH







# Offene Ausschreibungen im Energie-Arbeitsprogramm 2020

Deadlines (RIA: 13.02.2020 + 03.09.2020; CSA: 13.02.2020)

- LC-SC3-EE-21-2020: EU building stock data 4.0 (CSA: 1,5-2 Mio. €, insges. 4 Mio. €); opening: 16. Juli 2019, Deadline: 15.01.2020)
- LC-SC3-EE-7-2020: Industrial (Waste) Heat-to-Power conversion (IA, 12-14 Mio. €, opening: 05.03.2010, Deadline: 10.09.2020)

# „Kreislaufwirtschaft“ in europäischer Forschung zu Lebensmittelsicherheit, nachhaltiger Land- und Forstwirtschaft, Meeresforschung und Bioökonomie

## Forschungsfelder:

Ernährungssicherung

Lebensmittel

Marine Ökosysteme

Bioökonomie





## Offene Ausschreibungen im Bioökonomie-Arbeitsprogramm 2020

Deadlines (IA + CSA: 22.01.2020)

- CE-FNR-17-2020: Pilot circular bio-based cities: sustainable production of bio-based products from urban biowaste and wastewater (IA, up to 8 Mio. €, total 8 Mio. €)
- CE-FNR-18-2020: Sustainability of bio-based products: international governance aspects and market update (CSA, up to 1 Mio. €)


Deadlines (IA, RIA: opening: 15.09.2019, deadline: 22.01.2020)

- CE-RUR-07-2020: Reducing food losses and waste along the agri-food value chain (IA, up to 6 Mio. €, total 12 Mio. €)
- CE-RUR-08-2018-2019-2020: Closing nutrient cycles C.[2020] Bio-based fertilisers from by-products of the agro-food, fisheries, aquaculture or forestry sectors (IA); D.[2020] Bio-based fertilisers from waste water and sewage sludge (RIA)





# BayFOR-Projektskizze zur Evaluierung Ihrer neuen Projektidee und zur Identifizierung geeigneter Projektpartner

 Bavarian Research Alliance

NOTE:  
Please fill in as much as possible!

Project outline for the BayFOR unit:

BayFOR staff member addressed/contacted first:

BayFOR support requested:

☐ Detailed information/specific consultancy ☐ Thematic lobbying (Brussels)

☐ Project development/proposal writing ☐ Project management

Date:

**Contact Details**

Contact Person:

Name of Institution/Department:

Type of Institution:

Street:  Zip:  City:

Email:

Phone:  Fax:

Website:

Experience with external funds: ☐ Regional ☐ National ☐ European ☐ Other ☐ None

**Project Conception**

Thematic field of the project:

Type of project: ☐ Basic Research ☐ Applied Research ☐ Pilot Project/Demonstration

☐ Other:

Planned budget (min – max):

Costs to be financed in any case:

☐ Personal Costs ☐ Travel Costs ☐ Equipment

☐ Staff Exchange ☐ Other:


Estimated start of the project:  Estimated duration in months:

Work Programme / Call for proposals to be addressed:

Preferred source of funding: ☐ National ☐ International ☐ European

Your function in the project: ☐ Co-ordinator ☐ Partner

☐ Other:

 Bavarian Research Alliance

NOTE:  
Please fill in as much as possible!

Does a consortium already exist? ☐ Yes ☐ No

If No, please specify the size/number of partners of the planned consortium:

If Yes, please specify partner institutions including their expertise:

and the size of the consortium:

Do you need support in partner search? ☐ Yes ☐ No

Please give a short overview of your project idea. Please refer to the project idea and scope, your approach and methodology applied, its main objectives, and the value-added impact for Europe resp. the competitiveness of the European industry (max. 2,400 characters):

What are the 3 main keywords of your project idea?

What are your competences or services within the project (in 3 keywords)?

Have preliminary steps already been taken or is there any ongoing preliminary work?

☐ Yes ☐ No

In case preliminary steps or work have been taken or are still ongoing: were they financed by grant programmes?

☐ Yes ☐ No

In case we are not able to find the right funding possibilities, are we allowed to forward your project outline to our partners of the "Bavarian Research and Innovation Agency" (incl. Bayern Innovativ, Bay. Forschungsstiftung, Projektträger Bayern, Bay. Patentallianz)?

☐ Yes ☐ No





## 2nd Norwegian-Bavarian Workshop in Future Opportunities within Energy, Climate and Environment (25 to 27 March in Oslo)

- Bilateral funding options
- Insights on Horizon Europe and focus on SDGs
- Chance to present your organisation, expertise, project idea
- Visit of Norwegian research infrastructure (CINTEF, CICERO, NILU, IFE)
- Last chance for registration!

If you are interested – contact me!



**Bayerische Forschungsallianz (BayFOR) GmbH**

Prinzregentenstraße 52, 80538 München

[www.bayfor.org](http://www.bayfor.org) | [www.forschung-innovation-bayern.de](http://www.forschung-innovation-bayern.de)

**Dr. Thomas Ammerl**

Fachbereichsleiter Umwelt, Energie & Bioökonomie

Tel.: +49 (0)89 9901 888 - 120

E-Mail: [ammerl@bayfor.org](mailto:ammerl@bayfor.org)