



"Bioeconomy 2030" The German National Research Strategy

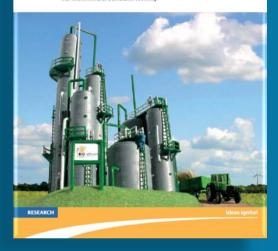
CASA SCAR National Meeting Greece Athens, 24th May 2018

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www.nks-lebenswissenschaften.de



National Research Strategy BioEconomy 2030 Our Route towards a biobased economy





Knowledge-based Bioeconomy: Vision and Objectives





Germany pursues the vision of a natural, cycle-oriented, sustainable bio-based economy,

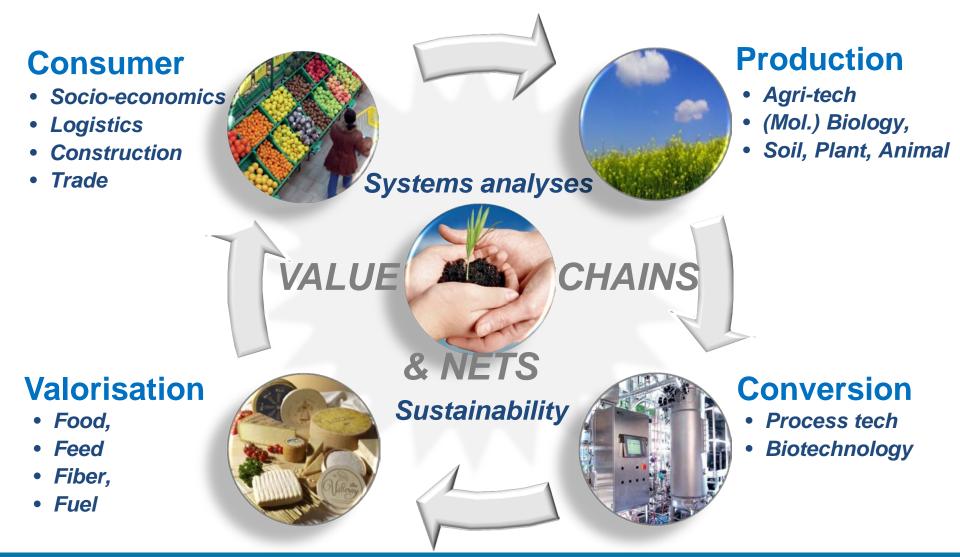
- which carries the promise of global food supplies that are both, ample and healthy,
- and of high quality products and services from renewable resources.

With our research, we want to meet our responsibilities for global nutrition, the protection of the climate, efficient use of resources, and the environment.



How do we define a "Bioeconomy"?







National Research Strategy Bioeconomy 2030



Lead: Federal Ministry of Education and Research (BMBF)

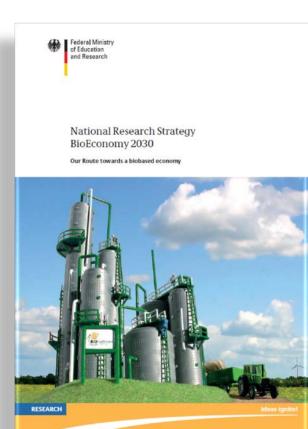
- FM of Food and Agriculture (BMEL)
- FM Economic Affairs and Energy, FM Economic Cooperation and Development, FM Environment...
- Research Institutes: HGF, WGL, FhG, MPG
- Industry
- 16 Federal States

Start in Nov 2010!

Project funding Institutional funding ~1,457 Mio € (FMs total)~976 Mio € (FMs total)

Total funding

~2,400 Mio €



Athens, 24th May 2018



NFSB 2030 – Lines of Activity



1. Securing **Global Nutrition**

2. Sustainable **Agricultural Production**



4. Using Renewable **Resources for** Industry

3. Producing **Healthy and Safe** Foods









5. Developing **Biomass-based Energy Carriers**





NFSB 2030 – Cross-cutting Activities





- 1. Support of industry (mainly SME as the main driver for industrial innovation).
- 2. Use the potential of international cooperation.



- 3. Build interdisciplinary competence and knowledge.
- 4. Intensify the dialogue with the society.





Inter- and cross-departmental policy strategy (2013) BMEL Federal Ministry of Food and Agriculture (primary responsibility)

in **Bioeconomy**

estaonsnment of an interministerial working group (IMAG) group (IMAG)

BMBF

Federal Ministry of Education and Research

BMWI Federal Ministry for Economic Affairs and Energy

BMZ Federal Ministry for Economic Cooperation and Development

BMU

Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety



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www.bmel.d



Coherent Policy in Bioeconomy



- Interdepartmental coordination of national concepts and strategies in the context of bioeconomy
- Development of lines of activities for further ministries
- Recommendations for international competitive, sustainable bioeconomy exceeding pure research and innovation activities
- Coherent bioeconomy policy for all ministries







NFSB 2030 – Implementation



European and international cooperation/funding:

European Phenotyping Initiative (EPPN) ESFRI EMPHASIS

SusCrop SUSFOOD

FACCE-JPI

- MACSUR
- ERA-Net Plus
- Cofund Surplus





Cofund in Biotechnology CoBioTech Successor of:

- ERASysApp
- ERASynBio
- ERA IB (I-III)



FP7 ERA-Net for Marine Biotechnology

EuroTransBio Pro

GlobE

Bioeconomy International



The German Bioeconomy Council



Phase I: January 2009 – May 2012 Phase II: Since September 2012 - ...



- Advising the federal government.
- Setting up/promotion of societal dialogue.
- Recommendations for funding in education, research, and development.

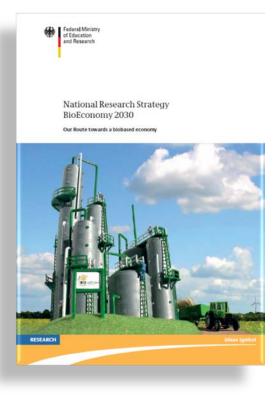
http://www.biooekonomierat.de



Evaluation of NFSB 2030 (I)



- BMBF has launched an evaluation at the end of the first 7 year life-time.
- Ex-post & ex-ante evaluation by Fraunhofer Institute for Systems & Innovation Research



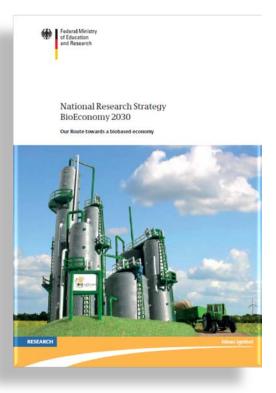
- Online survey and telephone interviews.
- Publication of results in April 2017.
- 36 initiatives amounting to 1,800 projects.
- 876 + 281 Mio. € funding.
- 60% academic projects and 40% SME projects.
- 2/3 as cooperative projects and 1/3 single projects.
- ~ 25% international projects.
- Unfortunately only available in German





Evaluation of NFSB 2030 (II)

Main results



- The funded initiatives successfully allowed for the development of a knowledge-based bioeconomy and the respective transfer into practical use.
- Research funding successfully brought together relevant players along different value chains.
- Portfolio of measures covered area of precompetitive research from basic research to applied research and development.





Future of the National Research Strategy



- Update / revision process starts in June 2018
- Involvement of all relevant Federal Ministries
- By the end of 2018: first draft; further timeline unclear



Bundesministerium für Bildung und Forschung



Thank you

FOR MORE DETAILS SEE:

HTTPS://BIOOEKONOMIE.DE/EN

Athens, 24th May 2018