



Russian National Contact Point on Food, Agriculture and Fisheries and Biotechnology



Food safety priorities in EC Framework Programme «Horizon 2020»

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«Food, Agriculture and Biotechnology»
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Moscow, 07-10- 2014

NCP «Biotechnology»



A.N. BACH
INSTITUTE OF
BIOCHEMISTRY
RAS (INBI)



- Russian NCP “Biotechnology” was established by the Russian Ministry of Education and Science on the basis of A.N. Bach Institute of Biochemistry of Russian Academy of Sciences in May 2003
- The main objective of Russian NCP “Biotechnology” is promotion of Russian science integration into the European Research Area through participation in the Framework Programme

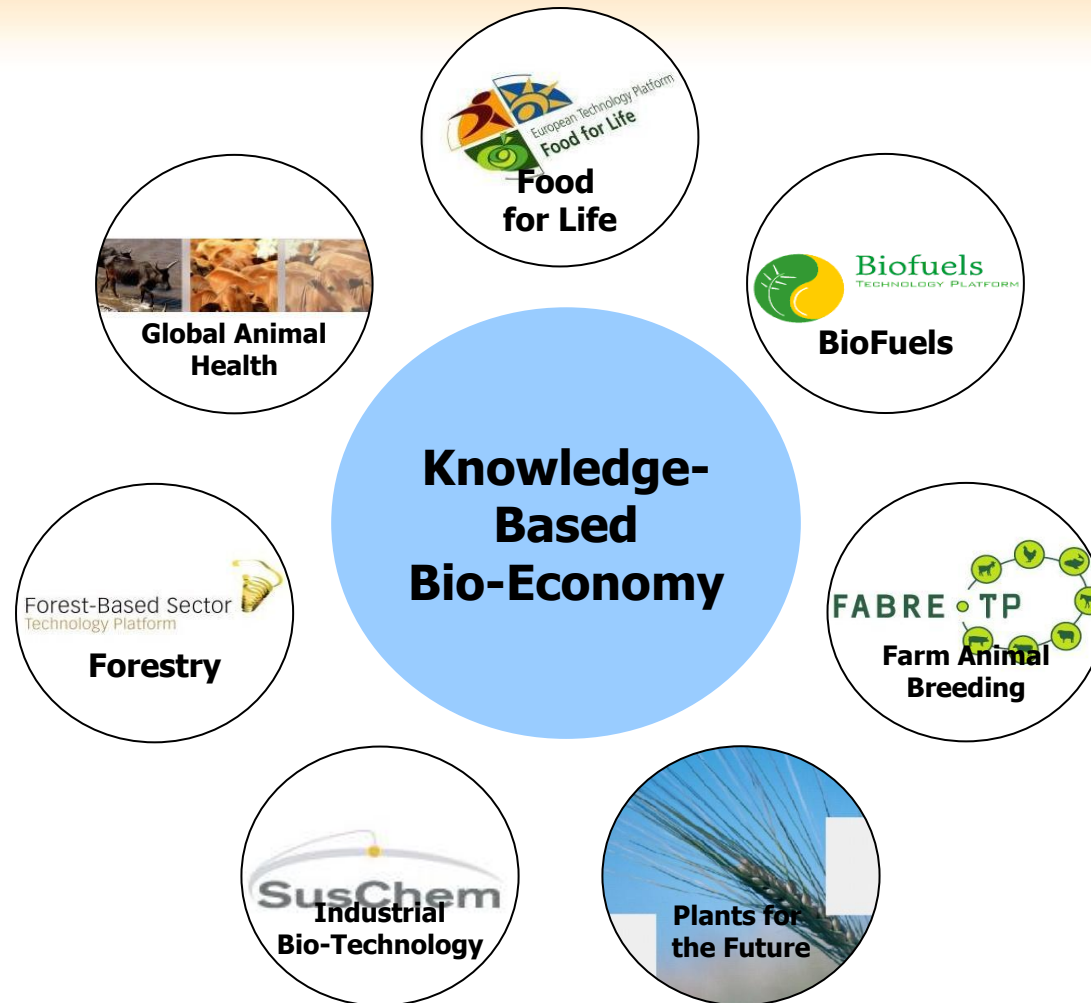
<http://www.fp7-bio.ru>, <http://bio-economy.ru/>

Activities



- Exchange of information between representatives of science, business, ministries of Russia and the EU for development of S&T cooperation.
- Database, NEWS letters, Information materials
- Website in English and in the Russian - <http://www.fp7-bio.ru>
- Providing with information on international programmes of S&T cooperation and promote Russian integration to the European Research Area.
- Coordination and harmonization of the priorities of the RF and the EU in field of biotechnology.
- Regional Infrastructure formation.
- Acting as the International Working Group of Russian Technology Platform “Bio-industry and Bio-resources - BioTech2030”
- Thematic events organization
- Implementing FP projects, guidelines on proposal writing;
- Assistance in partner search for joint participation in research projects;

Knowledge-Based Bioeconomy, KBBE



Russian Technology Platform “BioTech 2030”



GK-Russian Technologies
RT-Biotechprom



General Assembly of TP participants

Expertise
Scientific
Advisory
Committee



Co-chairmen of the Platform
Bureau of the Platform
Secretariat



State
representatives
Supervisory
Council

SECTORS

FOREST
Forest biotechnology

YELLOW
Food biotechnology

BLUE
Aquaculture
biotechnology



Industrial
biotechnology
WHITE

Agricultural biotechnology,
Geomicrobiology
GREEN

Ecobiotechnology
GREY

International
cooperation

Strategic
programs and
Research

Organization and
External
communications

Education and
Training activities

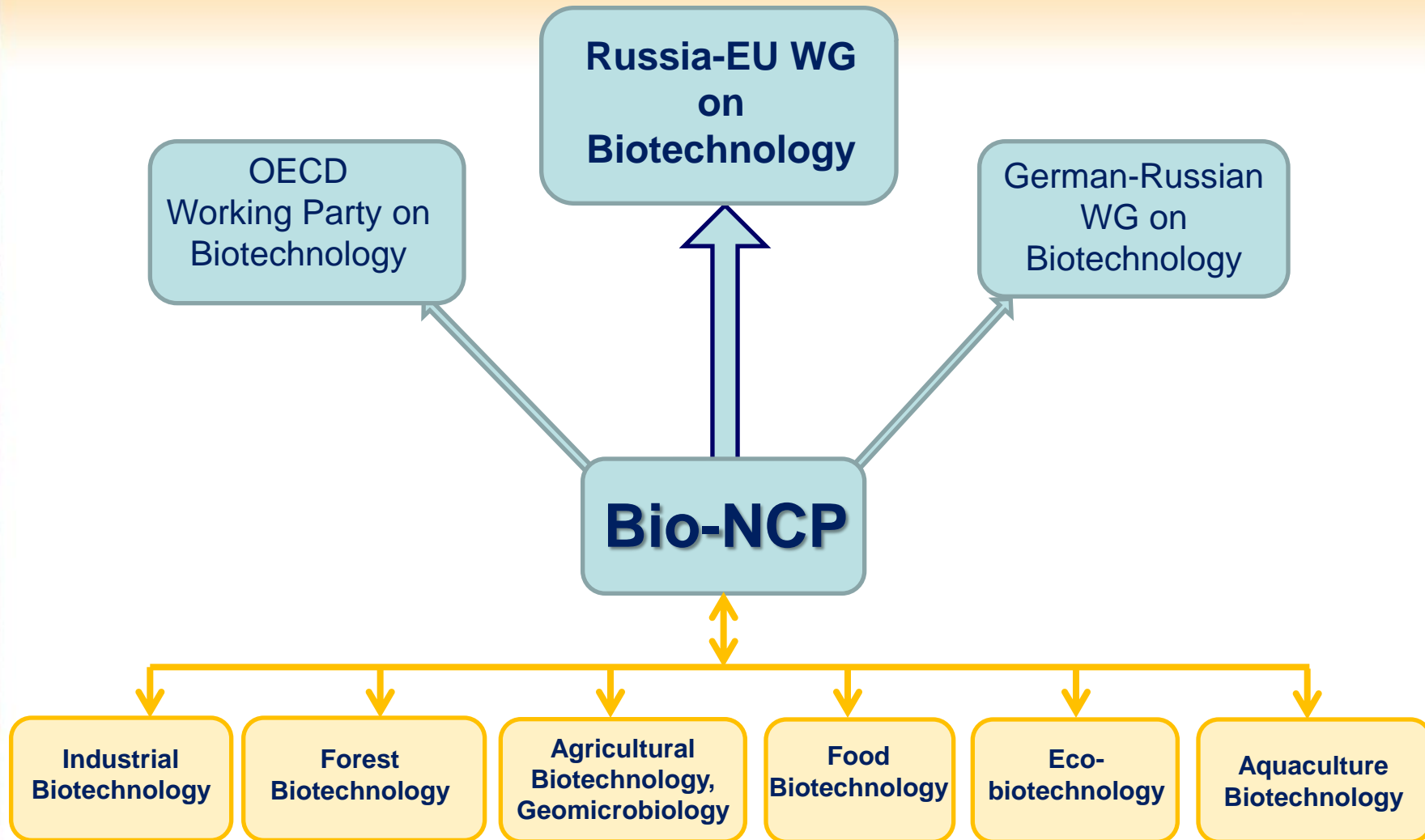
Regulation and
Legislation

Finance and
Investment

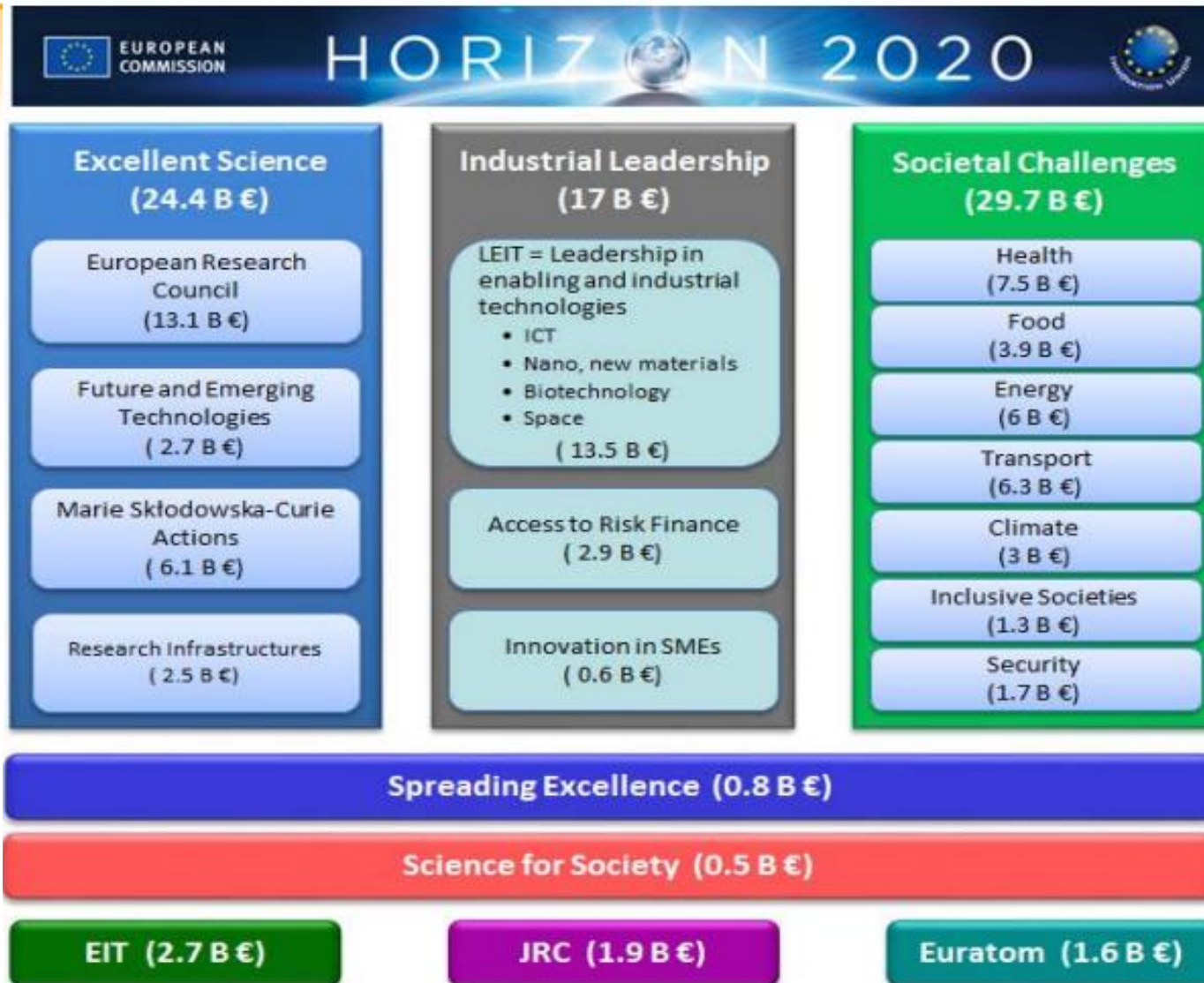
Research
Infrastructure

Working Groups

Advising and implementing decisions



Three main priorities – three main pillars



Societal challenges

Proposed funding (million EUR, 2014-2020)*



Health, demographic change and wellbeing	7 472
Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the Bioeconomy	3 851
Secure, clean and efficient energy *	5 931
Smart, green and integrated transport	6 339
Climate action, environment, resource efficiency and raw materials	3 081
Inclusive, innovative and reflective societies	1 310
Secure societies	1 695
<i>Science with and for society</i>	<i>462</i>
<i>Spreading excellence and widening participation</i>	<i>816</i>

Horizon 2020 Calls:

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/index.html>

«Food security, sustainable agriculture and forestry, marine and maritime and inland water research»



OPEN

Societal Challenges

Blue Growth: Unlocking the potential of Seas and Oceans

H2020-BG-2015-2

Deadlines: 03/02/2015

Opening Date: 25/07/2014

Societal Challenges

Blue Growth: Unlocking the potential of Seas and Oceans

H2020-BG-2015-1

Deadlines: 11/06/2015

Opening Date: 25/07/2014

Societal Challenges

Sustainable Food Security

H2020-SFS-2015-2

Deadlines: 03/02/2015

Opening Date: 25/07/2014

Societal Challenges

Sustainable Food Security

H2020-SFS-2015-1

Deadlines: 11/06/2015

Opening Date: 25/07/2014

Societal Challenges

Innovative, Sustainable and inclusive Bioeconomy

H2020-ISIB-2015-2

Deadlines: 03/02/2015

Opening Date: 25/07/2014

Societal Challenges

Innovative, Sustainable and inclusive Bioeconomy

H2020-ISIB-2015-1

Deadlines: 11/06/2015

Opening Date: 25/07/2014

Societal Challenges

BIO BASED INDUSTRIES PPP

H2020-BBI-PPP-2014-1

Deadlines: 15/10/2014

Opening Date: 09/07/2014

Industrial Leadership

Horizon 2020 dedicated SME Instrument - Phase 2 2014

H2020-SMEINST-2-2014

Deadlines: 09/10/2014 17/12/2014

Opening Date: 03/03/2014

Industrial Leadership

Horizon 2020 dedicated SME Instrument - Phase 1 2014

H2020-SMEINST-1-2014

Deadlines: 18/06/2014 24/09/2014 17/12/2014

Opening Date: 03/03/2014

BLUE GROWTH: UNLOCKING THE POTENTIAL OF SEAS AND OCEANS



H2020-BG-2015-2

Deadline Date 03-02-2015

- [BG-01-2015: Improving the preservation and sustainable exploitation of Atlantic marine ecosystems](#)
- [BG-02-2015: Forecasting and anticipating effects of climate change on fisheries and aquaculture](#)
- [BG-07-2015: Response capacities to oil spills and marine pollutions](#)

Blue Growth: Unlocking the potential of Seas and Oceans



H2020-BG-2015-1

Deadline Date 11-06-2015

- [BG-16-2015: Coordination action in support of the implementation of the Joint Programming Initiative on 'Healthy and Productive Seas and Oceans'](#)

SUSTAINABLE FOOD SECURITY



H2020-SFS-2015-2

Deadline Date 03-02-2015

- [SFS-01c-2015: Assessing sustainability of terrestrial livestock production](#)
- [SFS-02b-2015: Assessing soil-improving cropping systems](#)
- [SFS-05-2015: Strategies for crop productivity, stability and quality](#)
- [SFS-07b-2015: Management and sustainable use of genetic resources](#)
- [SFS-10b-2015: Scientific basis and tools for preventing and mitigating farmed mollusc diseases](#)
- [SFS-11b-2015: Consolidating the environmental sustainability of European aquaculture](#)
- [SFS-13-2015: Biological contamination of crops and the food chain](#)
- [SFS-16-2015: Tackling malnutrition in the elderly](#)
- [SFS-18-2015: Small farms but global markets: the role of small and family farms in food and nutrition security](#)
- [SFS-20-2015: Sustainable food chains through public policies: the cases of the EU quality policy and of public sector food procurement](#)

SUSTAINABLE FOOD SECURITY



H2020-SFS-2015-1

Deadline Date 11-06-2015

- [SFS-14b-2015: Authentication of food products](#)

INNOVATIVE, SUSTAINABLE AND INCLUSIVE BIOECONOMY



H2020-ISIB-2015-2

Deadline Date 03-02-2015

- [ISIB-03-2015: Unlocking the growth potential of rural areas through enhanced governance and social innovation](#)
- [ISIB-04b-2015: Improved forest management models](#)
- [ISIB-06-2015: Converting CO2 into chemicals](#)

INNOVATIVE, SUSTAINABLE AND INCLUSIVE BIOECONOMY



H2020-ISIB-2015-1

Deadline Date 11-06-2015

- [ISIB-02-2015: Closing the research and innovation divide: the crucial role of innovation support services and knowledge exchange](#)
- [ISIB-12c-2015: Monitoring and mitigation of agricultural and forestry greenhouse gases \(GHG\)](#)
- [ISIB-12e-2015: Sustainable livestock production](#)
- [ISIB-12f-2015: Biomarkers for nutrition and health](#)
- [ISIB-13-2015: Coordination action in support of the implementation by participating States of a Joint Programming Initiative on 'A Healthy Diet for a Healthy Life'](#)

BIO BASED INDUSTRIES PPP



H2020-BBI-PPP-2014-1

Deadline Date

15-10-2014

[BBI.VC1.D1: Lignocellulosic residues to \(di\)carboxylic acids, diols and polyols](#)

[BBI.VC1.D2: Chemical building blocks and value-added materials through integrated processing of wood](#)

[BBI.VC1.R1: Efficient pre-treatment of lignocellulosic feedstock to advanced bio-based chemicals and biomaterials](#)

[BBI.VC2.D3: Advanced products from lignin and cellulose streams of the pulp and paper industry](#)

[BBI.VC2.R2: New sustainable pulping technologies](#)

[BBI.VC2.R3: New products from sustainable cellulose pulp exploitation](#)

[BBI.VC2.R4: Fibres and polymers from lignin](#)

[BBI.VC2.R5: Sugars from effluents of the pulping process and discharged fibres](#)

[BBI.VC3.D4: Functional additives from residues from the agro-food industry](#)

[BBI.VC3.F1: Added value products from underutilised agricultural resources](#)

[BBI.VC3.R6: Fermentation processes to obtain biosurfactants and specialty carbohydrates from agricultural and agro-industrial streams](#)

[BBI.VC3.R7: Protein products from plant residues](#)

[BBI.VC3.R8: Bioactive compounds from meso-organism's bioconversion](#)

[BBI.VC4.D5: Cost efficient manure valorisation on large scale](#)

[BBI.VC4.R10: Nutrient recovery from biobased waste streams and residues](#)

[BBI.VC4.R9: Valuable products from heterogeneous biowaste streams](#)

Industrial Leadership



Leadership in enabling and industrial technologies(LEIT)

Industrial Leadership

BIOTECHNOLOGY

H2020-LEIT-BIO-2015-1

Deadlines: 26/03/2015

Planned Opening Date: 22/10/2014

Participant portal



- The gateway for all organisations participating
- in EU projects
- All documents
- All calls

A screenshot of the H2020 Participant Portal website. The page features the European Commission logo and the text "RESEARCH & INNOVATION Participant Portal". A navigation menu includes "HOME", "FUNDING OPPORTUNITIES", "HOW TO PARTICIPATE", "EXPERTS", and "SUPPORT". A sidebar on the left lists "H2020 online manual", "Reference Documents", "Beneficiary Register", "Financial Viability Self-Check", and "SME Participation". The main content area is titled "How to participate" and includes an "H2020 ONLINE MANUAL" button. Below this, there are two icons: a building with a red roof and a globe. A list of services is provided, including the H2020 Online Manual, Reference documents, search for registered organisations, Financial viability self-check tool, and SME participation. At the bottom, a five-step process is shown: 1. FIND a call, 2. FIND partners, 3. CREATE your account, 4. REGISTER your organisation, 5. SUBMIT a proposal. The current step is "Step 1 - Find a suitable Call for Proposals".

Step 1 - Find a suitable Call for Proposals H2020 ONLINE MANUAL

The Commission publishes on the Participant Portal all the Calls of its research and innovation programmes **H2020**, and you can search calls from previous programmes (**FP7** and **CIP**). In addition you can find information about some additional calls in the [Other Funding Opportunities](#) section. If you apply for the first time and do not know yet the programmes, it is useful to read the H2020 Online Manual. It helps you choose the most suitable programme for your area and profile. Besides, you can [search according to](#)

Topic description



- **WASTE-2-2014: A systems approach for the reduction, recycling and reuse of food**
- **Specific challenge:** Food waste has taken on disquieting proportions worldwide in all steps of the food production and supply chain but especially at consumer level...
- **Scope:** Actions should both address approaches to reducing food waste and packaging materials generated at relevant stages of the food system and investigate ways of converting food waste into value-added by-products....
- A database/inventory should be developed of recyclable materials, valuable molecules, substances and materials originating from waste and by-products...
- Solid involvement of social sciences and humanities and civil society is a prerequisite ...

Why a problem?

Focus project

Result

Expected impact:

- A significant contribution to achieving the European policy target of reducing food waste by 50% by 2030...
- An increase in the competitiveness of the European food and drink and chemical industry, in particular SMEs...

Type of action: Research and innovation actions (100%).

Type project, budget?

Next Steps



- Fine-tuning of WP 2014-2015 (bi-annual work programme)
- End of 2014: launch of second call

More info on Horizon 2020 at:

- http://ec.europa.eu/research/horizon2020/index_en.cfm

More info on the Bioeconomy at:

- <http://ec.europa.eu/research/bioeconomy>

ERA.NETs



- ERA-IB 2 (Towards an ERA in Industrial Biotechnology) – <http://www.era-ib.net>



- EuroTransBio – <http://www.eurotransbio.eu>.



- ERA-SME - <http://www.era-sme.net/>



- ERA NET Rus - www.eranet-rus.eu



- M-ERA - www.m-era.net



Federal Targeted Program

«R&D for priority areas of the development of S&T complex of Russia» for the 2014—2020

The Ministry of Education and Science of the Russian Federation

Activity Streams

Section 2

International cooperation

Activity 2.1

Research in the framework of international multilateral and bilateral cooperation

Activity 2.2

Support of R&D in the framework of cooperation with the **EU countries**

Activity 2.3

Participation in large-scale international scientific and scientific-technological events

Possible ways of cooperation



- Within the upcoming Framework Programme “Horizon 2020”, (EU-Russia Joint S&T Committee and Thematic Working Groups)



- Support of Russian participation in thematic ERA-Nets: ERA-IB, EuroTransBio



- Bilateral programmes

- Regional dialogue



- Cooperation between individual Universities, research centers, companies

- Cooperation on the level of National Technology Platforms and Clusters





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«Food, Agriculture and Biotechnology»**

www.fp7-bio.ru, www.biotech2030.ru