

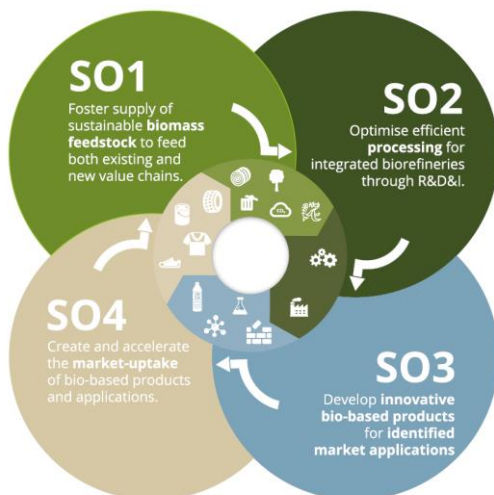


BIO-BASED INDUSTRIES JU

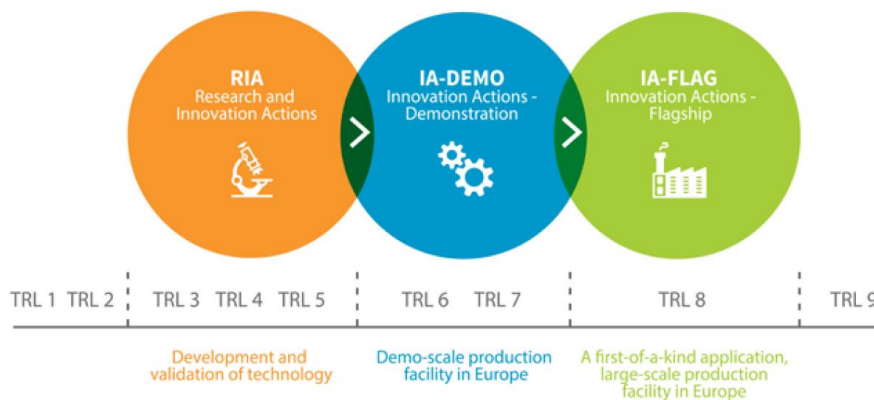


Bio-Based Industries (BBI) JU is a public-private partnership between the European Union and the [Bio-based Industries Consortium](#) (BIC); its main objective is to implement a programme of research and innovation activities in Europe that will assess the availability of renewable biological resources that can be used for the production of bio-based materials and, on that basis, support the establishment of sustainable bio-based value chains.

A call for proposals with an indicative budget of **EUR 135 M** has been launched on **April 4th 2019**, addressing key challenges as identified by the stakeholders in the Joint Undertaking. These challenges encompass different areas of research and innovation: a total of **21 topics** (10 RIAs, 4 CSAs, 4 DEMOs and 2 FLAGs) are part of this call for proposals, and are grouped into **4 Strategic Orientations** (SO):



The deadline for applications is **September 4th 2019**.



CSA Coordination and Support Actions - no link to TRLs*

SO1 - Foster supply of sustainable biomass feedstock to feed both existing and new value chains

Expand and diversify the biomass feedstock portfolio through improved utilisation of existing and new sources, aligning logistical systems to meet the demand and including the primary sectors' actors as partners in the new bio-based value chains.

Action	Topic
IA-DEMO	SCALE UP CONVERSION OF LIGNIN INTO VALUABLE COMPOUNDS FOR APPLICATION IN SPECIFIC MARKET SECTORS
IA-DEMO	PRODUCE COMPONENTS FOR VARIOUS MATERIALS, INCLUDING FOR FOOD AND FEED, FROM MICROALGAE
RIA	USE TREE SPECIES AND/OR VARIETIES TO CREATE NEW BIO-BASED VALUE CHAINS
IA-FLAG	VALORISE THE ORGANIC FRACTION OF MUNICIPAL SOLID WASTE THROUGH AN INTEGRATED BIOREFINERY AT COMMERCIAL LEVEL

SO2 - Optimise efficient processing for integrated biorefineries through research, development and innovation

Expand the utilisation of new, breakthrough processes for the pre-treatment and conversion of a variety of biomass feedstock and in downstream processing for separation and purification of new bio-based products.

Action	Topic
RIA	DEVELOP BREAKTHROUGH TECHNOLOGIES TO IMPROVE THE COST-EFFECTIVENESS AND SUSTAINABILITY OF PRE-TREATMENT STEPS WITHIN BIOREFINING OPERATIONS
RIA	APPLY MICROORGANISMS AND/OR ENZYMES TO RESOLVE END-OF-LIFE ISSUES OF PLASTICS
RIA	DEVELOP SURFACE OR BULK TREATMENTS FOR IMPROVED WOOD-BASED MATERIALS
RIA	CONVERT PLANT OILS AND FATS INTO SAFE HIGH-ADDED-VALUE PRODUCTS FOR VARIOUS APPLICATIONS INCLUDING FOOD AND PERSONAL CARE
IA-FLAG	APPLY TECHNOLOGICAL COMBINATIONS TO VALORISE ALL COMPONENTS OF BIOMASS FEEDSTOCK
RIA	IMPROVE BIOREFINERY OPERATIONS THROUGH PROCESS INTENSIFICATION AND NEW END PRODUCTS
RIA	MODEL THE COMPOSITION OF BIO-BASED RESIDUAL STREAMS AND ITS EVOLUTION TO OPTIMISE ITS MANAGEMENT AND PROCESSING

RIA: Research and Innovation Action

IA-DEMO: Innovation Action - Demonstration

IA-FLAG: Innovation Action - Flagship

CSA: Coordination and Support Action

SO3 - Develop innovative bio-based products for identified market applications

Increase the applicability of high value-added bio-based products and avoid price competition with fossil-based products by pursuing advanced functionalities and unmatched performance.

Action	Topic
RIA	DEVELOP SUSTAINABLE BIO-BASED MATERIALS FOR HIGH-VOLUME CONSUMER PRODUCTS
RIA	DEVELOP BIO-BASED FIBRES AND/OR FUNCTIONAL MOLECULES TO IMPROVE THE PERFORMANCE OF TEXTILE PRODUCTS
RIA	DEVELOP BIO-BASED HIGH-PERFORMANCE MATERIALS FOR VARIOUS AND DEMANDING APPLICATIONS
IA-DEMO	PRODUCE BIO-BASED FUNCTIONAL INGREDIENTS AND ADDITIVES FOR HIGH-END MARKETS
IA-DEMO	DEMONSTRATE BIO-BASED PESTICIDES AND/OR BIOSTIMULANT AGENTS FOR SUSTAINABLE INCREASE IN AGRICULTURAL PRODUCTIVITY
IA-FLAG	PRODUCE HIGH-PERFORMANCE BIO-BASED ALTERNATIVES TO HARMFUL PRODUCTS OR PROCESSES TO PROTECT AND ENHANCE HUMAN HEALTH AND THE ENVIRONMENT

SO4 - Create and accelerate the market-uptake of bio-based products and applications

Respond to the concerns of society about bio-based products by engaging in dialogue with societal and consumer groups on benefits and how potential risks are addressed and managed. Also, contribute to education to ensure adequate supply of needed skilled personnel for the current and future bio-based industry and research activities.

Action	Topic
CSA	ASSIST BRAND OWNERS TO 'SWITCH TO BIO-BASED'
CSA	ESTABLISH METHODS AND COMMUNICATION FOR APPLYING MASS BALANCE PRINCIPLES TO ATTRIBUTE BIOMASS CO-FEEDSTOCK TO PRODUCTS
CSA	SHAPING THE BIO-BASED ECONOMY THROUGH A PARTICIPATORY APPROACH
CSA	EMPOWER SME CLUSTERS TO BRING SMES 'ACROSS THE VALLEY OF DEATH'