

# IEA Bioenergy Task 42

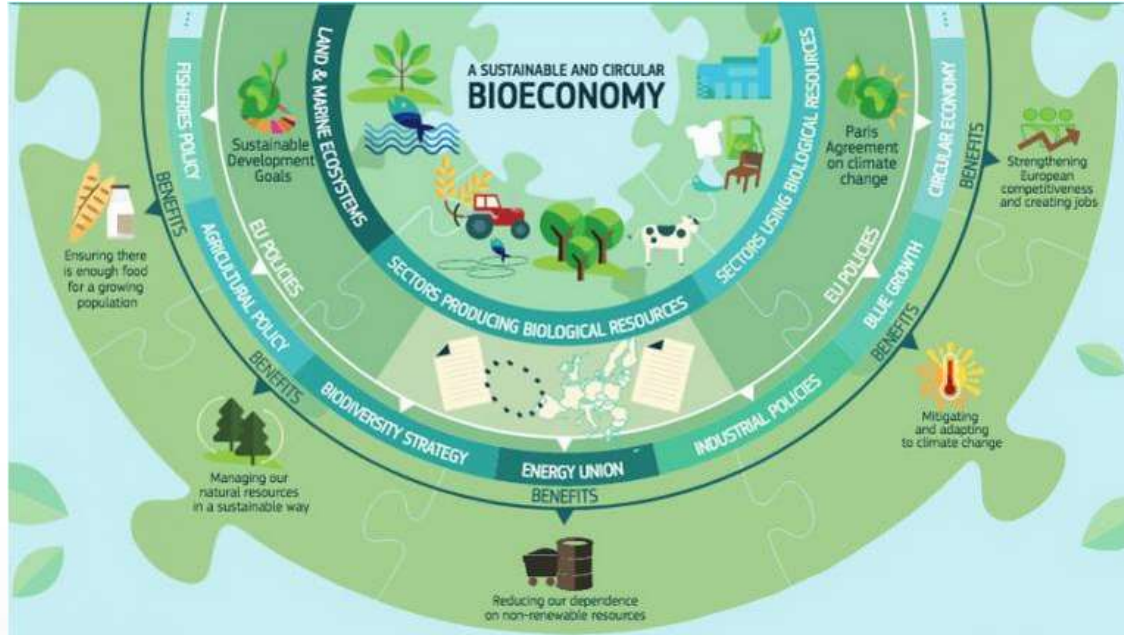
## Biorefineries in a future BioEconomy

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Wageningen  
20. - 21. 05.2019

# Driver updated European Bioeconomy Strategy



Overall aim of the new bioeconomy strategy

Concrete measures

The way towards the new strategy

2012 → 2018 (SDG 2030, Paris agreement, etc.)

Reactions: Bioenergy  
Forestry



Published in 2012, updated in 10/2018

# Bioeconomy strategies at Federal State level in Germany



# Germany's way towards a harmonised bioeconomy strategy



National Research Strategy 2030

National Policy Strategy Bioeconomy

HighTech-Strategy 2025

→ Harmonised Bioeconomy  
Strategy expected in 2019

# Bioeconomy success stories

## Germany -update

<https://biooekonomie.de/en/bioeconomy-in-germany/success-stories>



15.05.2019

### **Fertilizer from bagasse ash**

A German-Brazilian research association has succeeded in producing fertilizers and biopolymers from residual materials from sugar cane processing.



03.05.2019

### **Processing synthetic fibers with enzymes**

A research consortium has successfully developed enzymes that allow better dyeing of synthetic fibers and prevent pilling during washing.



25.04.2019

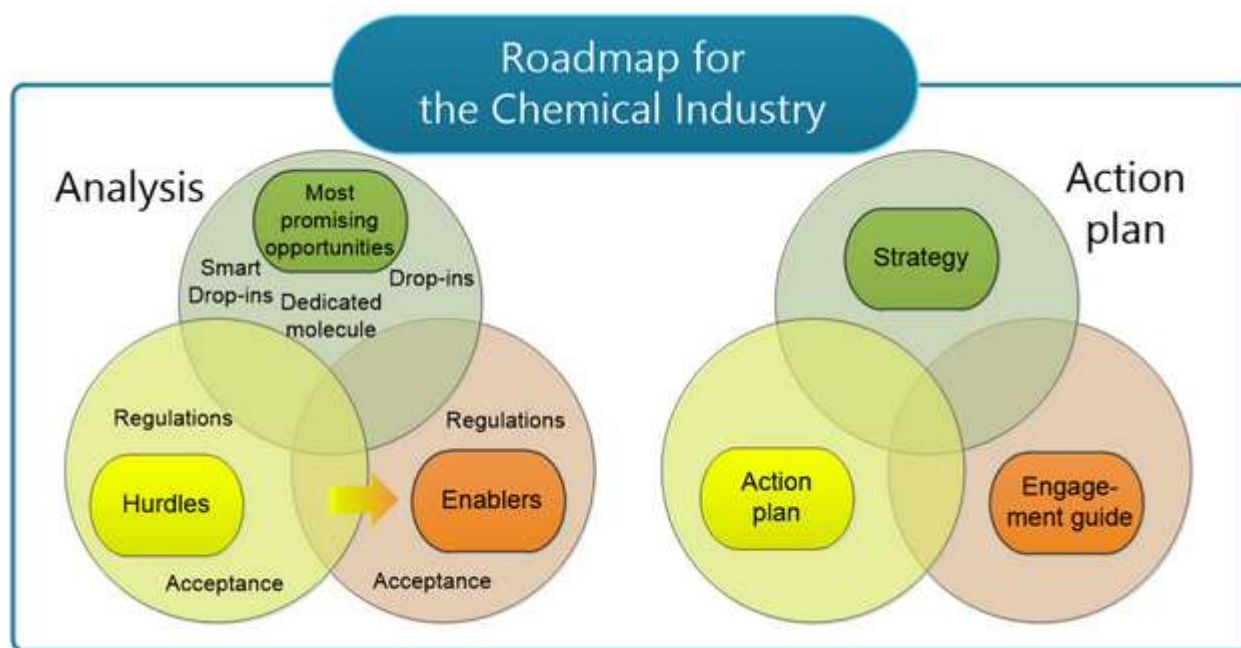
### **Composite material made of jute fibers**

Jute bags are a common sight. However, the plant's fibers are also suitable for composite materials, as researchers in the Jute Bio-Comp project are demonstrating.

# Useful link

## Road-to-Bio

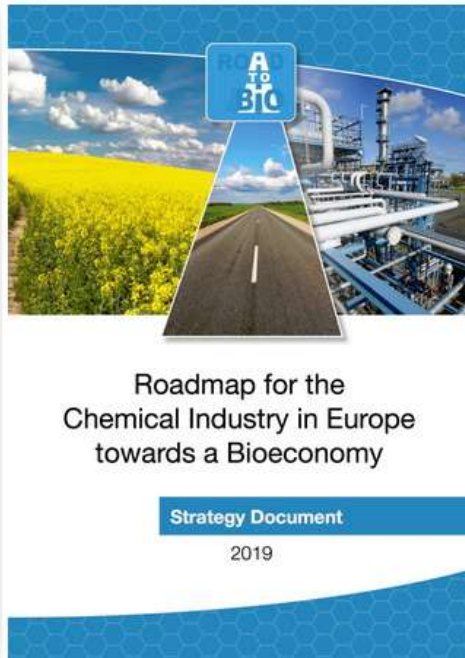
<https://www.roadtobio.eu/index.php?page=about-roadtobio>



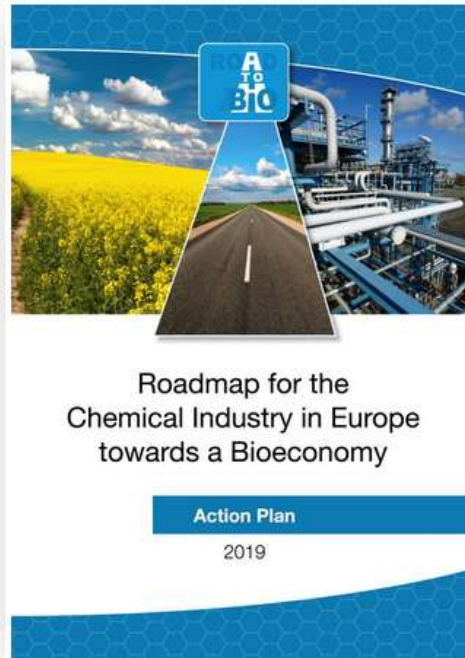
Aim is to reach 25% share of bio-based products in the organic chemical industry in 2030

# Useful Road-to-Bio

Strategy Document



Action Plan



## Download



### [Which implementation strategy is right for bio-based chemicals - drop-in, smart drop-in and dedicated ones?](#)

Developing a roadmap for an increasingly bio-based European chemical industry is the main goal of the EU project RoadToBio. Which roles can different classes of bio-based chemicals play and what are their market needs? Based on ongoing discussions and the results of the first RoadToBio workshop, experts from the project consortium propose to introduce a classification in three different classes of bio-based chemicals, namely drop-ins, smart drop-ins and dedicated chemicals.

# Useful Road-to-Bio

## Factsheets

Readers' Guide  
(Engagement guide, part 1)



The **Readers' Guide** factsheet describes the purpose of each element of the roadmap and how they can be used by the chemical industry, policy makers and other interested parties to promote bio-based resource use.

Communication Guide  
(Engagement guide, part 2)



The recommendations presented in this **Communication Guide** can help you to shape your communications and customise your key messages








Key Messages  
(Engagement guide, part 3)



The **Key Messages** presented in this factsheet are intended as an instrument for the chemical industry to address target audiences in their communication about bio-based chemicals, materials and products.



# Road-to-bio

| Download  | Size   |
|---|--------|
|  <a href="#">D1.1: Bio-based opportunities for the chemical industry</a><br>The aim of this study is to show bio-based opportunities for the chemical industry and where bio-based chemicals meet existing value chains in Europe. In total, over 500 petrochemical value chains were analysed, which showed more than 1,000 entry points for bio-based chemicals. For 85% of the existing petrochemicals at least one bio-based route was found that is available at either demonstration or commercial scale.  | 3,1 MB |
|  <a href="#">D1.2: Case studies on potentially attractive opportunities for the bio-based chemicals in Europe</a><br>This report provides an analysis of nine potentially attractive business opportunities ("sweet spots") for the European bio-biobased industry. The "sweet spots" have been chosen by analysing the current landscape of bio-based chemicals and those that have reached an advanced development stage, and hence may represent a potential business opportunity for the European chemical industry.   | 2,4 MB |
|  <a href="#">D2.1: Report on regulatory barriers</a><br>This report synthesizes existing knowledge on hurdles and barriers for the bio-based economy and brings the earlier study findings up to date according to new developments in legislation, with a focus on understanding why legislative barriers came to be.   | 1,2 MB |
|  <a href="#">D2.2: Public perception of bio-based products</a><br>The aim of this study is to compile, compare and analyse currently existing research and reports about public perception of bio-based products in order to identify barriers for further market development. The analysis revealed four general common themes that were each addressed by several publications: awareness and knowledge, associations and connotations, consumption decision and willingness to pay, information and labels.   | 873 KB |
|  <a href="#">D2.3: Public perception of bio-based product - qualitative analysis of stakeholders' concerns</a><br>The goal of this report is to broaden the analysis of existing research and reports about public perception of bio-based products in order to identify barriers for further market development, taking into account not only the perception of consumers, but also additional societal stakeholders relevant for overall public perception. We conducted the research presented in this report in three steps:<br>1) Expert validation of findings on public perception<br>2) Interviews with NGOs<br>3) Interviews with policy makers | 1,5 MB |
|  <a href="#">D2.4: Ways to overcome societal and policy barriers</a><br>In this deliverable, the project has developed a set of key messages and recommendations for the chemical industry. Both shall play a part in overcoming the previously identified regulatory and acceptance hurdles.  | 430 KB |
|  <a href="#">D2.5: Concept of bio-based and circular economy</a><br>A number of aspects relevant for the bio-based economy also touch on the circular economy. This report summarizes existing literature on possible interfaces between bio-based and circular economy, but also points out relevant differences between the goals of the concepts.   | 1,4 MB |

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