

# The Bioeconomy enabled: A roadmap to a thriving industrial biotechnology sector in Europe

Antoine Peeters, EuropaBio

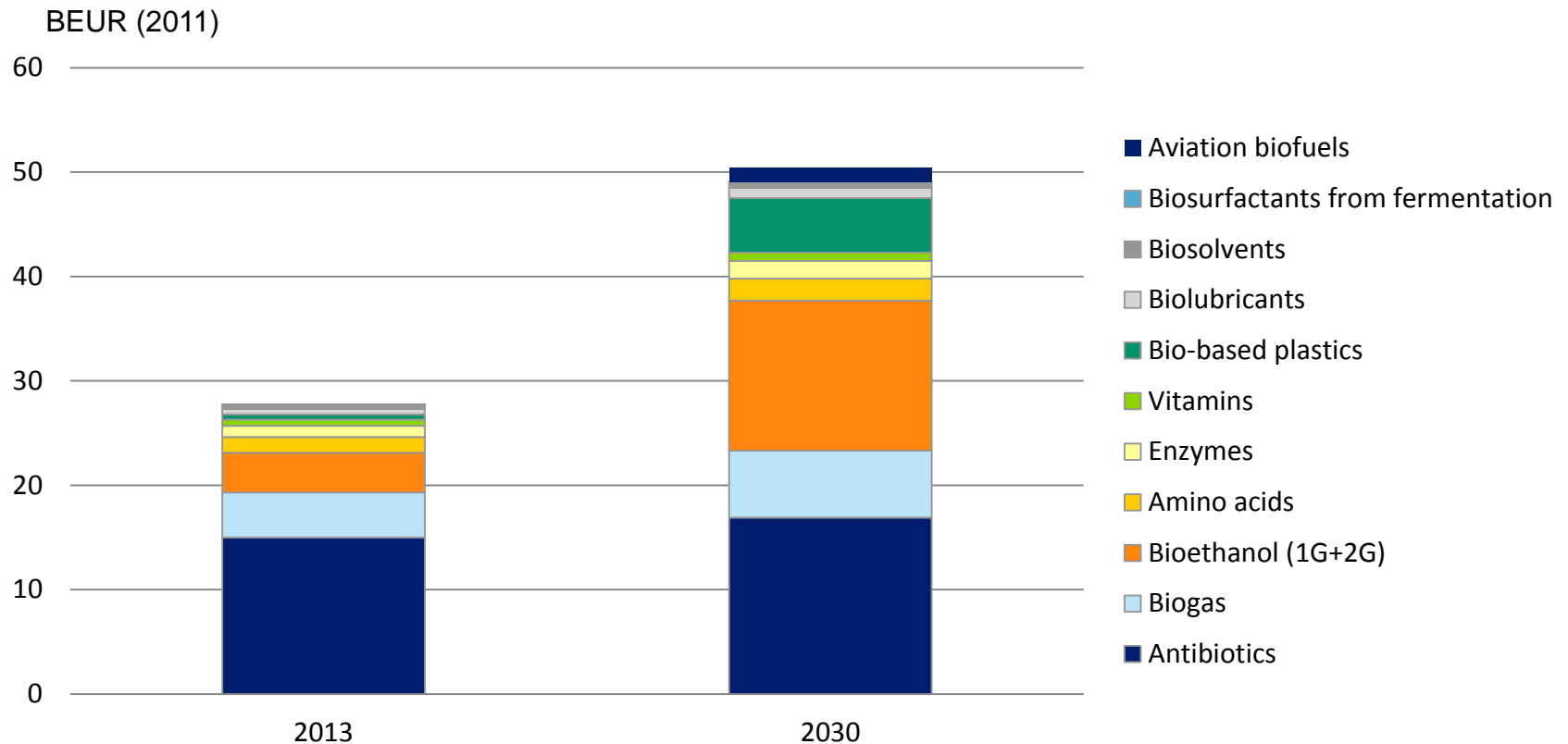


The bioeconomy enabled



- Interview with 80+ experts
- 8 workshops with a regional focus
- 5 workshops with a « product » focus
- Literature review
- Public consultation
- Advisory board
- Hours of exchange & discussion
- 3 drafts prior to integration
- Focus on market potential, technological challenges and non-tech hurdles

- What is the market for IB in Europe?
- What are the hurdles for IB in Europe?
- Top 10 recommendations for developing a vibrant industrial biotech sector in Europe
- Exploiting the full potential for IB in Europe



## 1. Feedstock supply

- Cost
- Infrastructure & transport
- Trade barriers
- Seasonality
- Quality

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- Yield, productivity and robustness
- Properties of some biobased products
- Scale-up
- Predictive models

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- Long-term regulatory & policy strategy
- Market penetration
- Consumer awareness
- Common understanding



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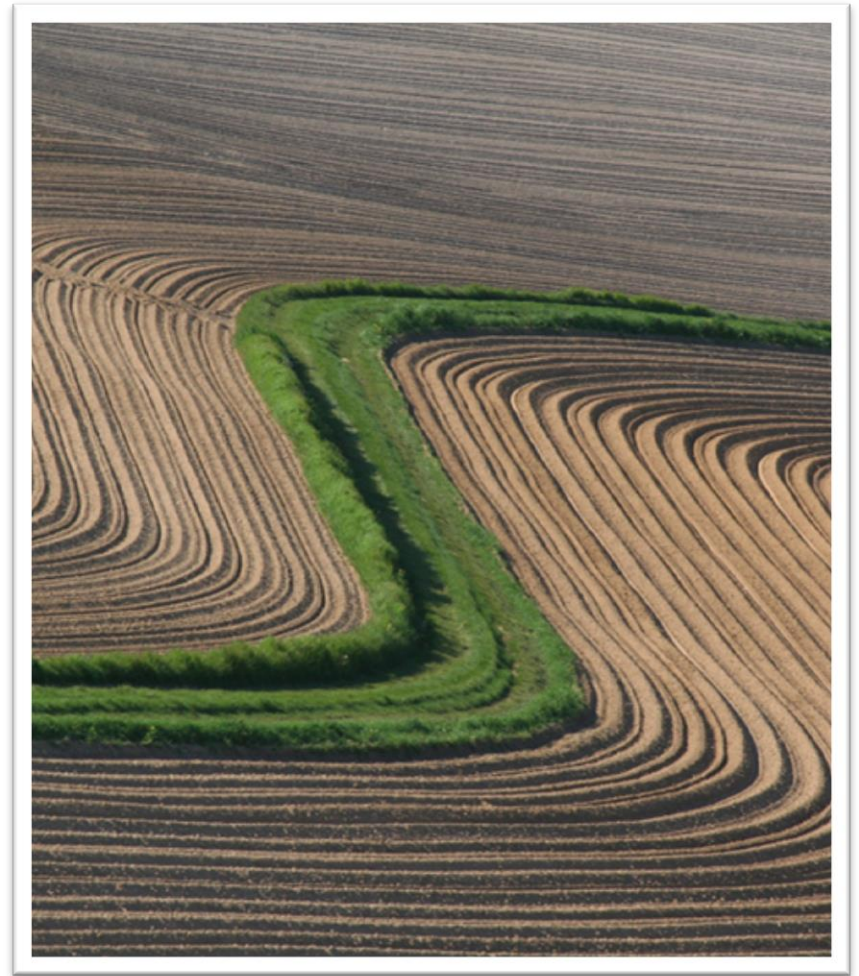
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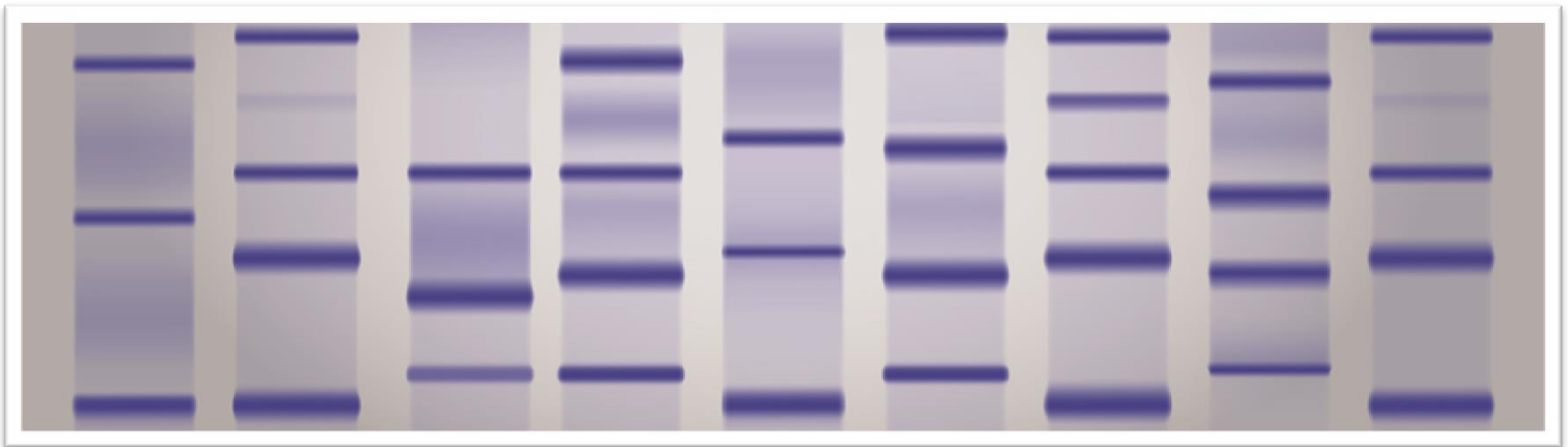
## 4. Innovation systems

- Access to finance
- Cost of patents & IP legislation
- Demo & flagship support
- Collaboration between industry and academia
- Training

1. Improve opportunities for feedstock producers within the bioeconomy
2. Investigate the scope for using novel biomass
3. Promote the use of co-products



1. Develop stronger relationship between conventional and non-conventional players in the value chain
2. Identify, leverage and build upon EU capabilities for pilot and demonstration facilities
3. Improve access to financing for large-scale biorefinery projects



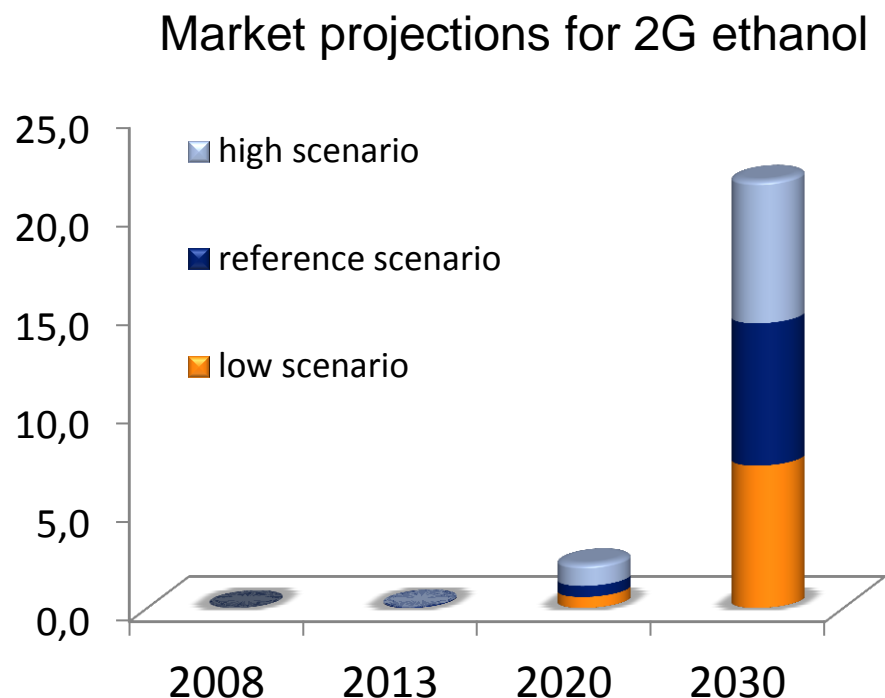
1. Develop a workforce which can maintain Europe's competitiveness in IB
2. Improve the bioconversion and downstream processing steps



1. Introduce a long-term, stable and transparent policy and incentive framework to promote the bioeconomy
2. Improve public perception and awareness of IB and biobased products



- Advanced bioethanol and jet fuels
- Biobased chemical building blocks
- Biobased plastics
- Biosurfactants from fermentation
- CO<sub>2</sub> as a feedstock for IB



- Up to 50 BEUR market by 2030
- There are several pre-requisites for a thriving IB sector in Europe
- Many opportunities for securing a competitive European position exist
- It's up to you to make it happen

Stay in touch!

[www.industrialbiotech-europe.eu](http://www.industrialbiotech-europe.eu)

✉ [bio-tic@europabio.org](mailto:bio-tic@europabio.org)

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Embark on  
the bioeconomy  
journey!