

## FROM INDUSTRIAL AGRICULTURE TO THE SUSTAINABLE BIOECONOMY: KEY TRENDS

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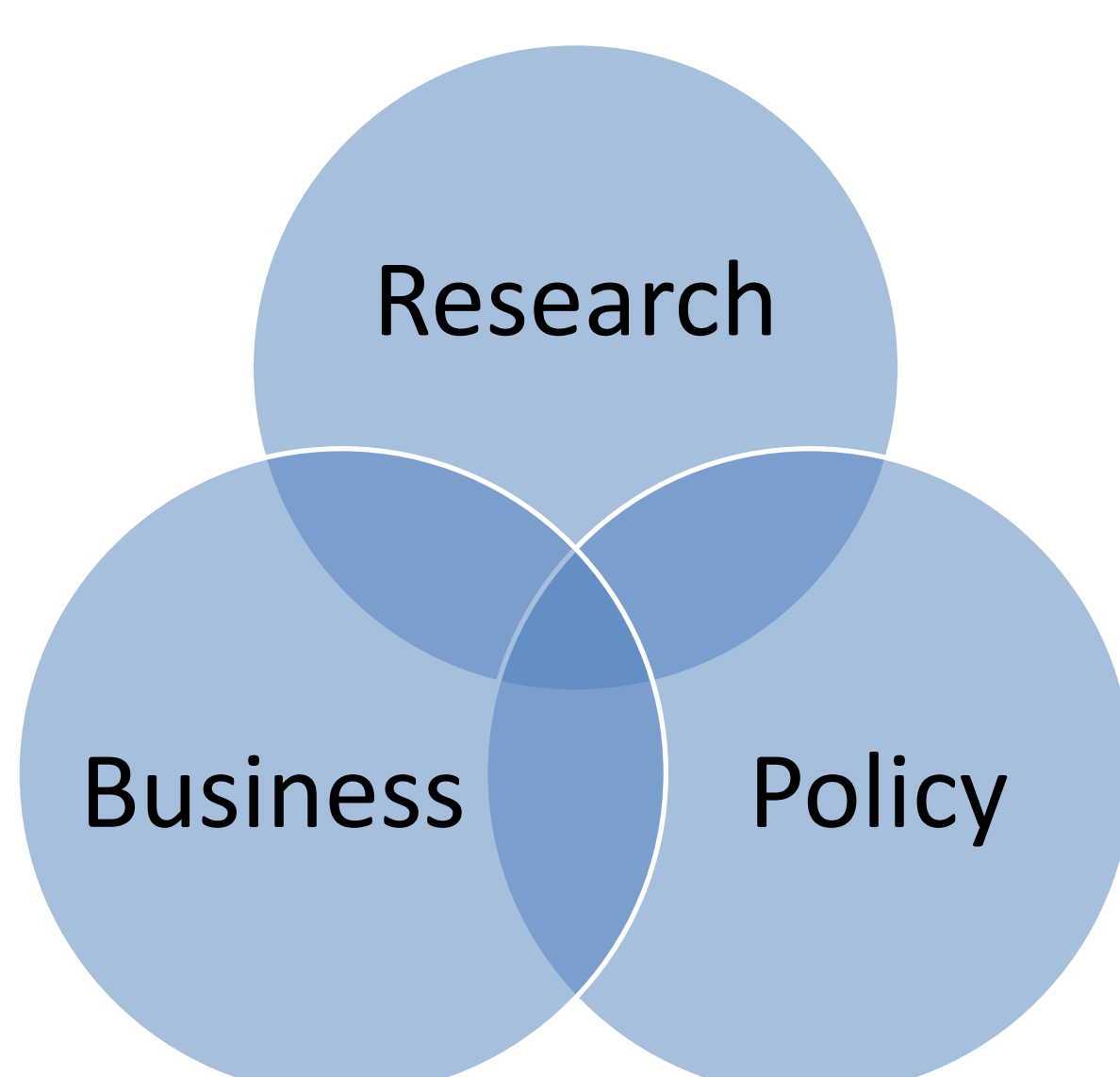
### Introduction

The bioeconomy is set to play a significant role in the green transition, as it facilitates a shift from a fossil fuel-based economy to one based on renewable and biological resources.

In renewed European Union bioeconomy strategy, the European Green Deal and Common agricultural policy 2021-2027 the sustainability aspect is highlighted. New challenges are emerging related to climate change and sustainability with the entry into force of the Paris Agreement and the UN's commitments to sustainable development, while technological innovations, and in particular the digital revolution, are having a considerable impact on the production, processing and distribution of foodstuffs.

Therefore, **the aim of this presentation** is to reveal the main trends in agricultural development in the context of the current challenges.

### 3 Pillars



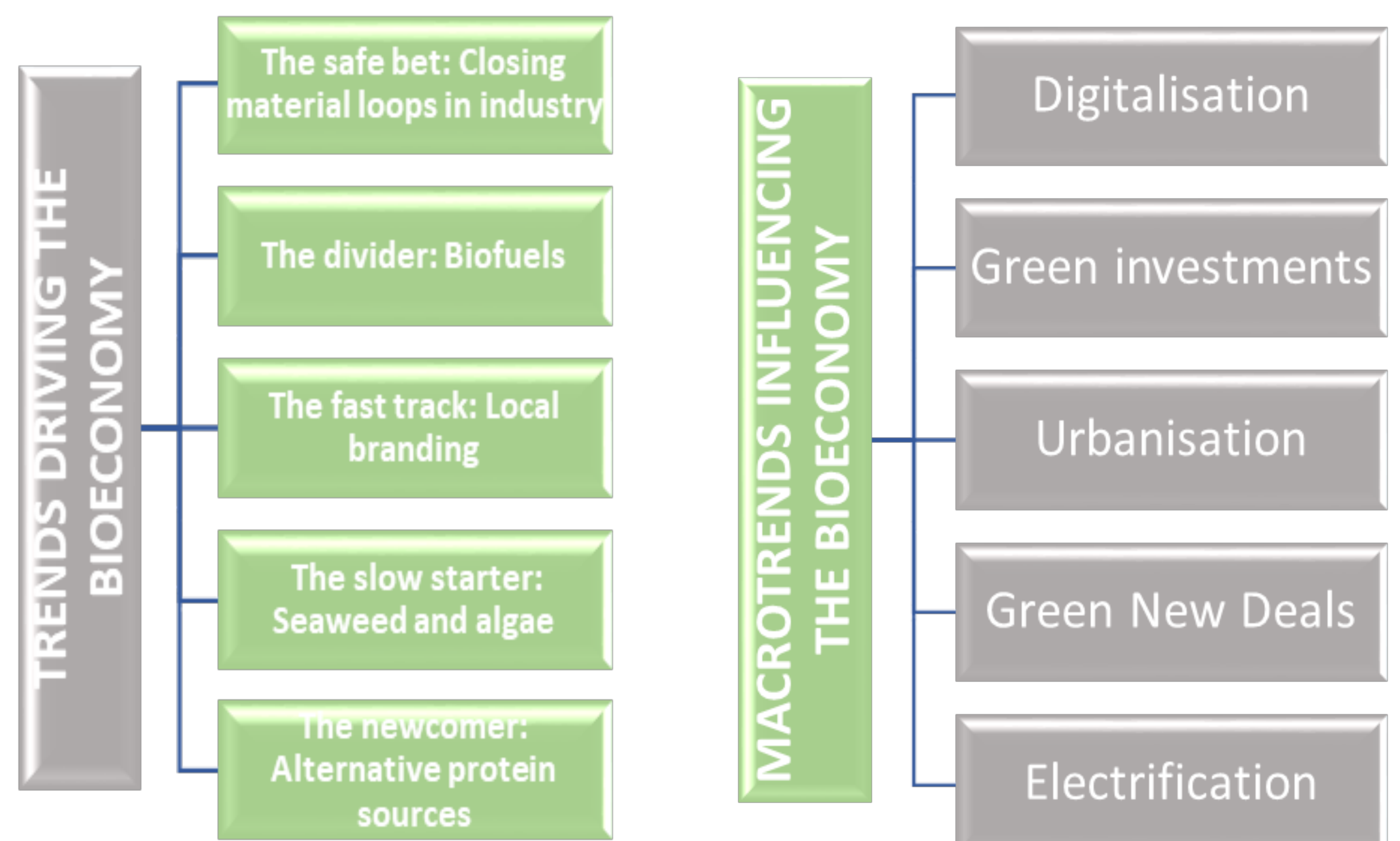
### Methodology

This presentation findings are based on a review of available literature on the bioeconomy, experts interviews, systematization and generalization of the secondary data; deduction and comparative analysis.

### Results

The trends presented in this presentation were identified as significant and developing areas for the future of the bioeconomy in EU countries. The trends were selected for their potential for value generation on each of the three bottom lines: social, environmental and economic.

The bioeconomy is not developing in a vacuum. The potential of an economy based on the sustainable sourcing of biological resources is highly dependent on wider societal and technological trends. Ten trends that will influence the development of the bioeconomy have therefore been identified.



### Literature

1. Böcher, M., Töller, A. E., Perbandt, D., Beer, K., & Vogelpohl, T. (2020). Research trends: Bioeconomy politics and governance. *Forest Policy and Economics*, 118, 102219
2. Liobikiene, G., Chen, X., Streimikiene, D., & Balezentis, T. (2020). The trends in bioeconomy development in the European Union: Exploiting capacity and productivity measures based on the land footprint approach. *Land Use Policy*, 91, 104375.
3. Ten trends for the sustainable bioeconomy (2020). Nordic Council of Ministers.

### Main conclusions

The development of a sustainable bioeconomy has never been more important. In times of climate change, a growing biodiversity crisis, the COVID-19 pandemic, and a sustained focus on achieving the Sustainable Development Goals by 2030, the idea of an economy that is partly or wholly based on biological raw materials – grown and harvested within the carrying capacity of the ecosystem – has attracted growing political and commercial attention.

Transformation from industrial agriculture into the sustainable bioeconomy depends on sustainable resource management.