

# What the roadmap will mean in the research community

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## MARINE BIOTECHNOLOGY STRATEGIC RESEARCH AND INNOVATION ROADMAP

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INSIGHTS TO THE FUTURE DIRECTION  
OF EUROPEAN MARINE BIOTECHNOLOGY



This project has received funding from the European Commission's Seventh Framework Programme for research and technological development under grant agreement no 604814.



SEPTEMBER 2016

**As Rachael Ritchie says in her preface to the Roadmap document**

***“ It is clear that the marine biotechnology roadmap provides a framework for future marine biotechnology research and innovation activities.”***

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**The global market for Marine Biotechnology has the potential to reach €4.8 billion by 2020, rising to €6.4 billion by 2025.**

**In this respect major opportunities exist to expand our current use of ocean derived bioresources in markets for:**

**Cosmetics,**

**Functional foods,**

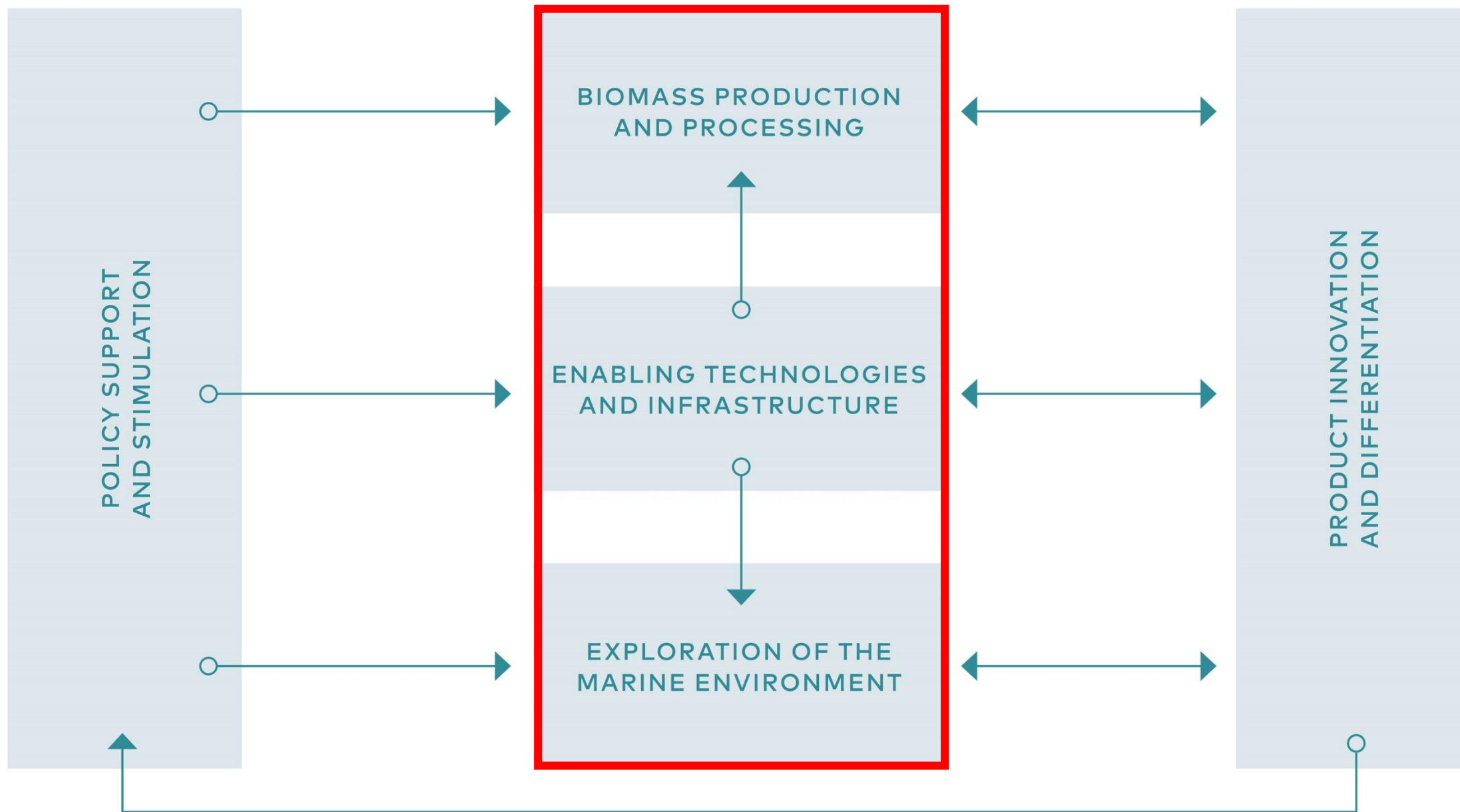
**Agricultural products,**

**Industrial enzymes**

**and Pharmaceuticals.**

**In line with Horizon 2020, the roadmap highlights research areas that span SCIENTIFIC, TECHNOLOGICAL, ECONOMIC and SOCIETAL challenges.**

**In doing this it sets out a Marine Biotechnology Research and Innovation agenda to 2030, with FIVE thematic areas being identified.**



**Figure 2.** The five thematic areas of the strategic research and innovation roadmap. (MBSRIR)

# Exploration of the Marine Environment

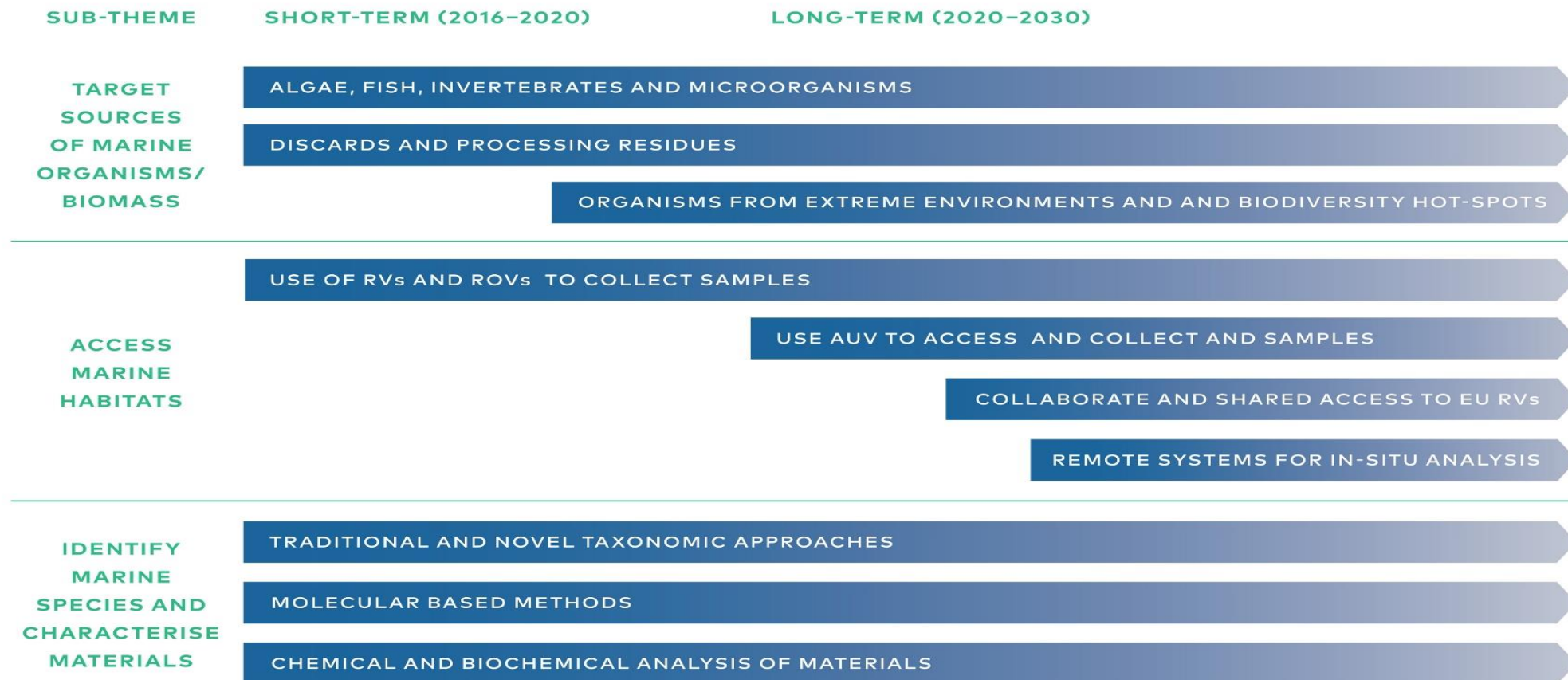


Figure 4. Exploration of the marine environment. (MBSRIR)

# Biomass Production and Processing

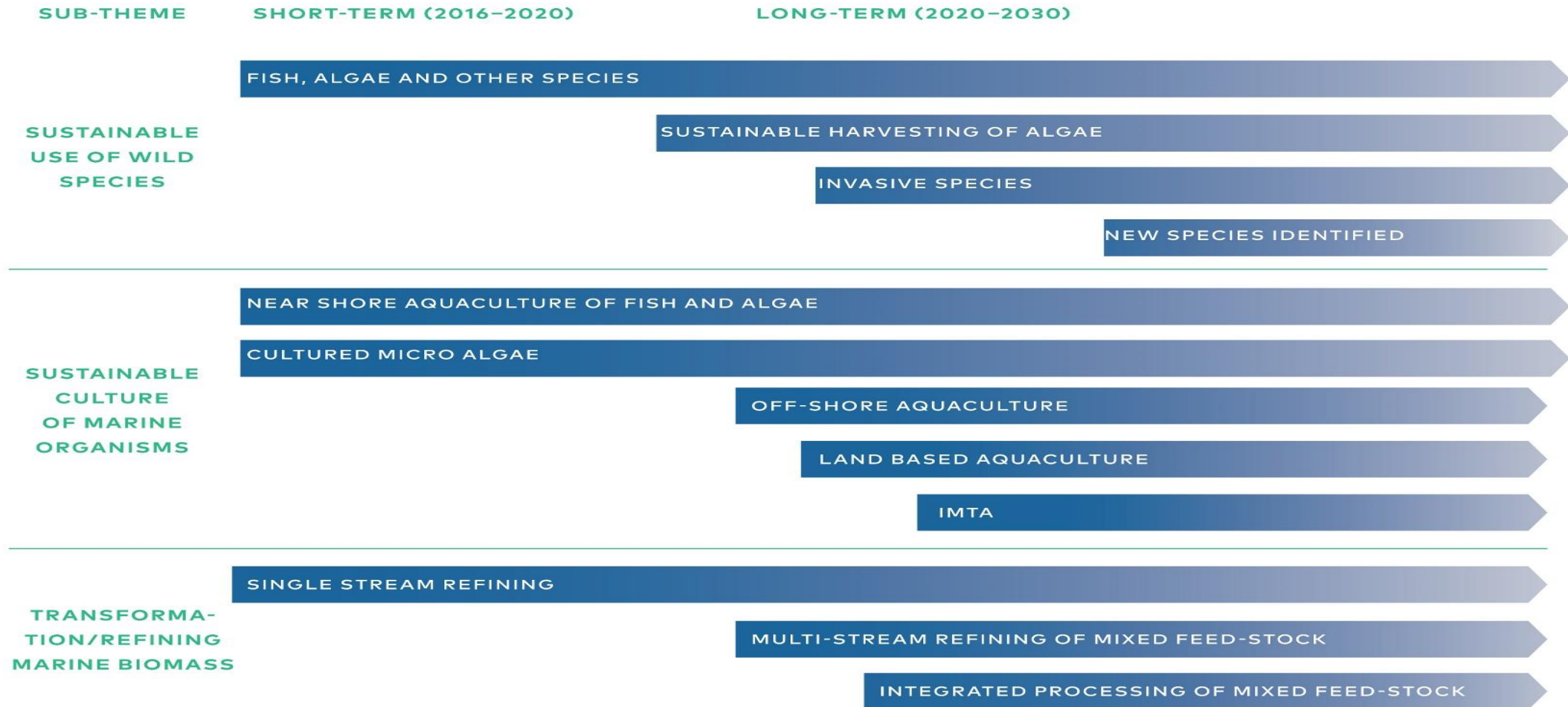
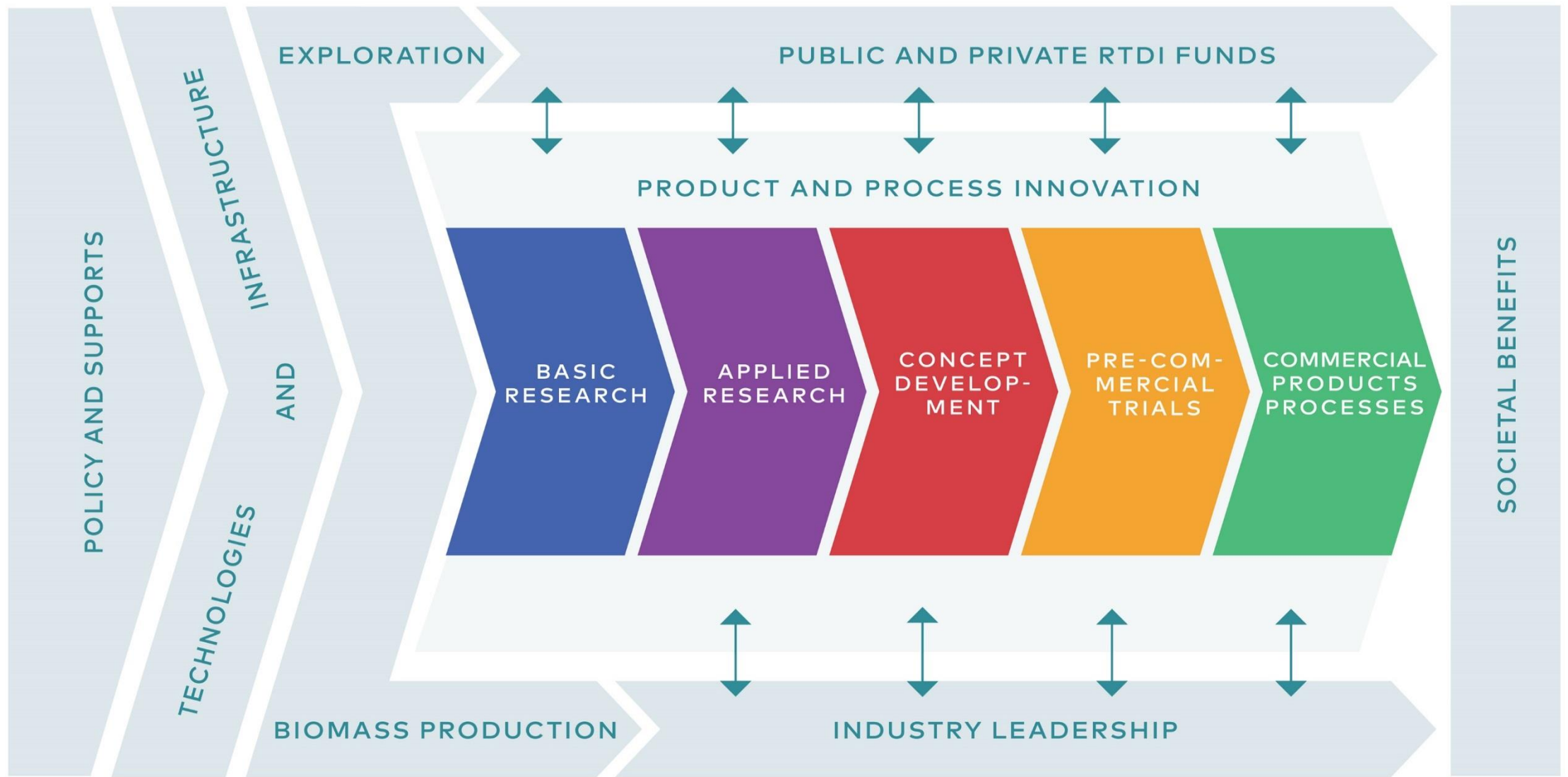


Figure 5 Biomass production and processing. ( MBSRIR)

# Enabling technologies and Infrastructure



Figure 7 Enabling technologies and infrastructure. (MBSRIR)



**Figure 3.** Connecting the research areas to support the delivery of value and benefits to society. (MBSRIR)

# CONCLUSIONS

We now have framework where scientists can:-

- A) link the relevance of their work within the overall Marine Biotechnology value chain
- B) Help develop important relevant new competencies for future researchers
- C) Support the development of both their own National and the European Bioeconomy

While addressing the societal challenges of:

Health,

Food Security,

Demographic change and wellbeing,

Supply of raw materials.

