

# Nordic Road Map for Blue Bioeconomy

- **Seizing the potential for Growth**

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# Nordic Road Map for Blue Bioeconomy

Prepared for:

**The Nordic Council of Ministers** the official inter-governmental body

The Nordic Council is the official inter-parliamentary body in the Nordic Region. The Nordic Council was formed in 1952. The Council has 87 elected members from Denmark, Finland, Iceland, Norway and Sweden as well as from the Faroe Islands, Greenland and Åland.

Read more: [Behind the Nordic Council](#)



# Defining Nordic Blue Bioeconomy

***The Nordic Blue Bioeconomy means value creation based on sustainable and smart use of renewable marine and freshwater resources.***

*The main drivers and features of Nordic Blue Bioeconomy are market orientation, enhanced sustainability, research and innovation, resource efficiency and cross-sectoral thinking.*

# A vision for the Nordic Blue Bioeconomy 2025

*The Blue Bioeconomy is a strong growth sector that generates jobs and competence in the Nordic countries and produces goods and services for the global market while maintaining a good status of marine and freshwater environments and bioresources*

# Strategic goals for the Nordic Road Map

Strategic goals are set to steer the actions in each sector:

1. *Effective Research Development and Innovation (RDI), networks and platforms*
2. *Good governance supporting sustainable growth*
3. *Result oriented international collaboration*

# Themes of the Blue Bioeconomy

The Nordic Blue Bioeconomy is grouped into four themes:

- *Marine and freshwater biomasses*
- *Aquaculture production and technology*
- *Marine and freshwater resources for well-being*
- *Water technology and know-how*

Nordic ways for growth in Blue Bioeconomy with waypoints (key actions and timelines) are defined for each theme

## *Vision 2025*

*The Blue Bioeconomy is a strong growth sector that generates jobs and competence in the Nordic countries and produces goods and services for the global market while maintaining good status of marine and freshwater environments and bioresources*

**Marine and  
freshwater  
biomasses**

**Aquaculture  
production**

**Marine and  
freshwater  
resources for  
well-being**

**Water  
technology and  
know-how**

**Strategic goal 1: Effective RDI, networks and platforms**

**Strategic goal 2: Good governance supporting growth**

**Strategic goal 3: Result oriented international collaboration**

**Value creation based on sustainable and smart use of renewable marine and freshwater resources**

# Marine and freshwater biomasses

## Nordic way for growth 1. Value creation from marine and freshwater biomasses

### Key actions and timelines

Waypoint 1. Establish Nordic Public Private Partnership innovation -networks (June 2017)

- Food line (innovative food, ingredients, supplements, additives, superfood, feed)
- Health line (cosmetics, biochemicals, pharmaceuticals)
- Biorefinery line (products, value chains, Nordic test center network)

Waypoint 2. Map existing competence, activities and research infrastructure. Select areas with largest potential and prepare Research, Development and Innovation plans for these while focusing on global markets and demand (end of 2017)

Waypoint 3. Ensure funding (e.g. national, Nordic, EU) for realizing the RDI plan (2017 onwards)



# Aquaculture production

## Nordic way for growth 2. Value creation through aquaculture production

### Key actions and timelines

Waypoint 1. Establish Nordic Public Private Partnership innovation -networks (June 2017)

- RAS aquaculture line (optimizing production technology, ensuring profitability, Nordic test center)
- Offshore farming line (spatial planning, optimizing production technology, ensuring profitability)
- New species, new feeds and algae/plants line (selection of species, optimizing species and feed production technology, recycling nutrients, ensuring profitability, breeding)

Waypoint 2. Map existing competence, activities and research infrastructure. Select areas with largest potential and prepare Research, Development and Innovation plans for these while focusing on global markets and demand (end of 2017)

Waypoint 3. Ensure funding (e.g. national, Nordic, EU) for realizing the RDI plan (2017 onwards)

# Marine and freshwater resources for well-being

## Nordic way for growth 3. Recreation and well-being based on marine and freshwater resources

### Key actions and timelines

Waypoint 1. Defining potential in Nordic collaboration (June 2017)

- Clarify interest of collaboration especially in health/blue-care, tourism, common Nordic services

Waypoint 2. Map existing competence, activities and research infrastructure. Select areas with largest potential and prepare Research, Development and Innovation plans for these while focusing on global markets and demand (end of 2017)

Waypoint 3. Ensure funding (e.g. national, Nordic, EU) for realizing the RDI plan (2017 onwards)

# Water technology and know-how

## Nordic way for growth 4. Water technology, know-how and exports

### Key actions and timelines

Waypoint 1. Defining potential in Nordic collaboration (June 2017)

- Clarify interest of collaboration especially in clean-tech, water treatment and recycling, arctic water know-how, water exports, networks
- Study by the Finnish water forum

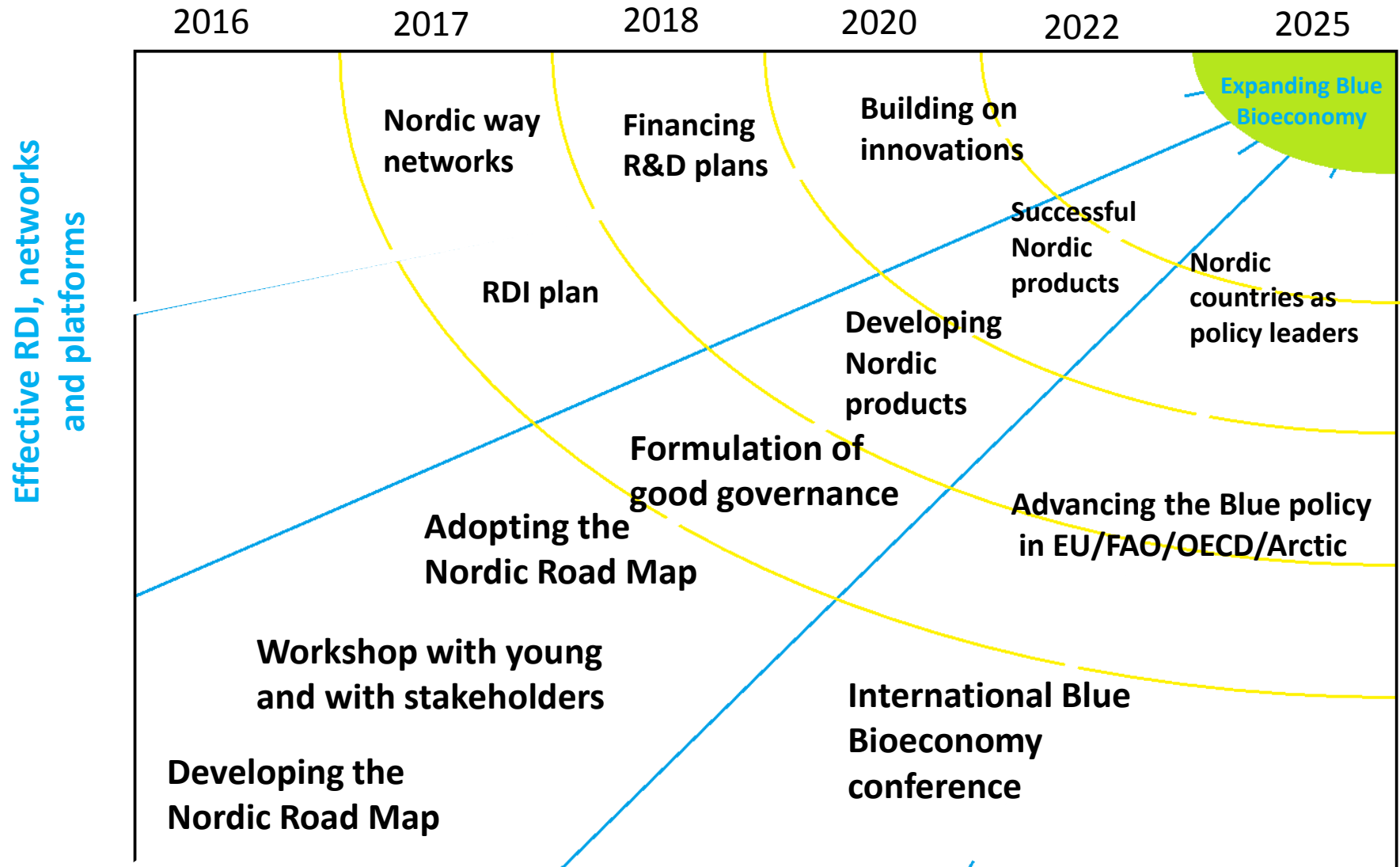
Waypoint 2. Map existing competence, activities and research infrastructure. Select areas with largest potential and prepare Research, Development and Innovation plans for these while focusing on global markets and demand (end of 2017)

Waypoint 3. Ensure funding (e.g. national, Nordic, EU) for realizing the RDI plan (2017 onwards)

# Overarching measures on good governance and international collaboration

- Study on good governance in order to enhance Nordic Blue Bioeconomy
- Describing, branding and promoting Nordic good governance
- Systematic dialog with Nordic stakeholders on the operational environment to anticipate future developments and potential
- Advancing the policy agenda on Blue Bioeconomy in international fora (EU/FAO/OECD/Arctic)
- Developing a communication and co-operation platform for Nordic Blue Bioeconomy [www.bluenordic.fi](http://www.bluenordic.fi)

# Nordic Road Map for Blue Bioeconomy



Good governance supporting growth

International collaboration

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# Steps

- *Blue Bioeconomy conference in Helsinki 31.5.-1.6.2016 and its conclusions*
- Announcement of the Blue Bioeconomy prize to be awarded at a follow-up conference
- Workshop on Blue Bioeconomy for young Nordic students and separately for Nordic stakeholders during late 2016
- Finalization and adoption of the Nordic Road Map, Dec. 2016
- Use of Finnish priority project funds in 2017/2018 mainly for establishing of Nordic innovation P3 –networks and financing their meetings and planning work

Thank you!



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