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# Read more about the project



www.clib-cluster.de/Triple-S



Triple-S is being implemented by:



CLIB is an international open-innovation cluster of large companies, SMEs, start- ups, academic institutes, and universities, as well as other stakeholders active in biotechnology and the circular bioeconomy. We work to promote and support industrial biotechnology in sustainable processes by actively linking stakeholders along and across value networks and identifying new opportunities.

#### Funded by:

Ministerium für Wirtschaft, Industrie, Klimaschutz und Energie des Landes Nordrhein-Westfalen



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> Sustainable, Smart & Scalable Innovations for a Circular Bioeconomy in NRW

### **About Triple-S**

The Triple-S project aims to identify, support, and transfer those biotechnological and biobased technologies which can make a significant difference to realise a future-proof, climate- and environmentally friendly economy in NRW.

Together with experts, we will analyse criteria which determine whether and how a technology can fundamentally make a difference in the upcoming industrial transformation. In a guide, we will look both on Triple-S criteria based on sustainable, smart & scalable technological indicators, as well as other external factors having an influence on the success of innovations.

The added value for stakeholders in NRW lies particularly in the support for classifying their innovation projects and in demonstrating the potential of biotechnology, especially for economic sectors that have not yet been familiarised with this key technology.

Triple-S will also help to develop promising technologies into innovations, accelerate their scaling, and promote their expansion into new sectors.

## **Triple-S criteria**

# Sustainable

- Sustainable value creation
- Climate goals and Sustainable Development Goals (SDGs)
- Building block in holistic value circle

## Smart

- New functionalities
- Perceivable consumer benefit
- Design for a circular society
- Use of industry 4.0
- Innovative business model

# Scalable

- Realistic scaling potential
- Perceivable market demand
- Relevance for NRW & global significance

## External factors

External factors include enablers that contribute to the success of a technology and hurdles that hinder the success. The success criteria derived from these will look at, among other things, the following:



## Value chain position and integration

**Market situation** 

Legislation and regulation

### Human resources