

*MISSION*Latvia

Knowledge-intensive
BIOECONOMY



BIOECONOMY IN NUMBERS

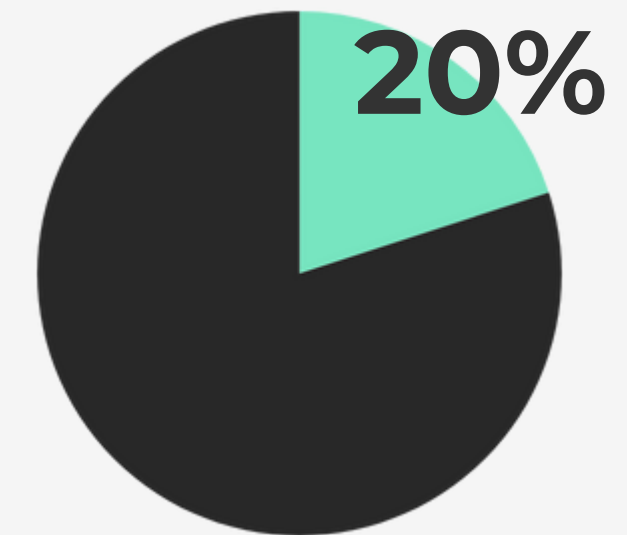
*MISSION*Latvia

>1.1

Billion EUR value-added

3.8

Billion EUR export amount of
bioeconomy sector in Latvia

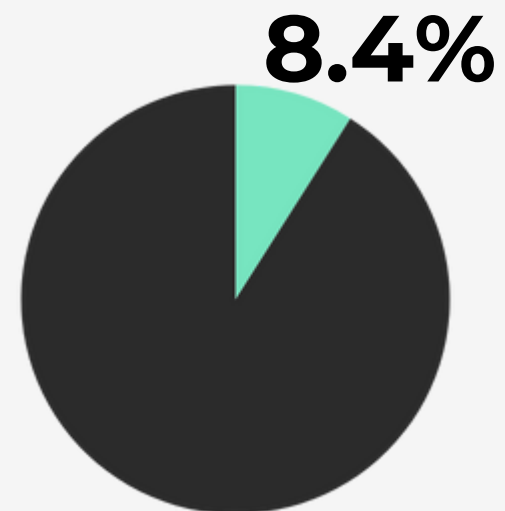


Bioeconomy export as
% of total

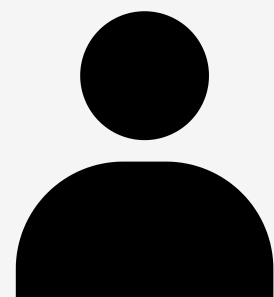


28.3k

companies in
bioeconomy sector



Share of
bioeconomy
industry value-
added in GDP



125k

specialists in the sector

1545

EUR average
monthly salary
in the sector

1500



students enrolled in
bioeconomy sector studies

VALUE PROPOSITION IN BIOECONOMY IN LATVIA

- untapped potential in free agriculture land,
- free forest land areas ready for harvesting,
- untapped aquaculture opportunities using vast sea area,
- areas of R&D fields with existing groundwork:

*MISSION*Latvia

400'000 ha

of available
agriculture land

63%

of annual forest
increase available
for harvesting

Biorefinery technologies - the processing of biomass into high-value products such as bio-fuels, chemicals and materials.

Synthetic biology - the application of biotechnology to the creation of new organisms and biomaterials that can be a substitute for fossil resources.

Precision agriculture - the use of information technology to optimise agricultural processes and the use of resources.

Bioplastics and bio-composites - the development of environmentally friendly materials made from renewable biological resources.

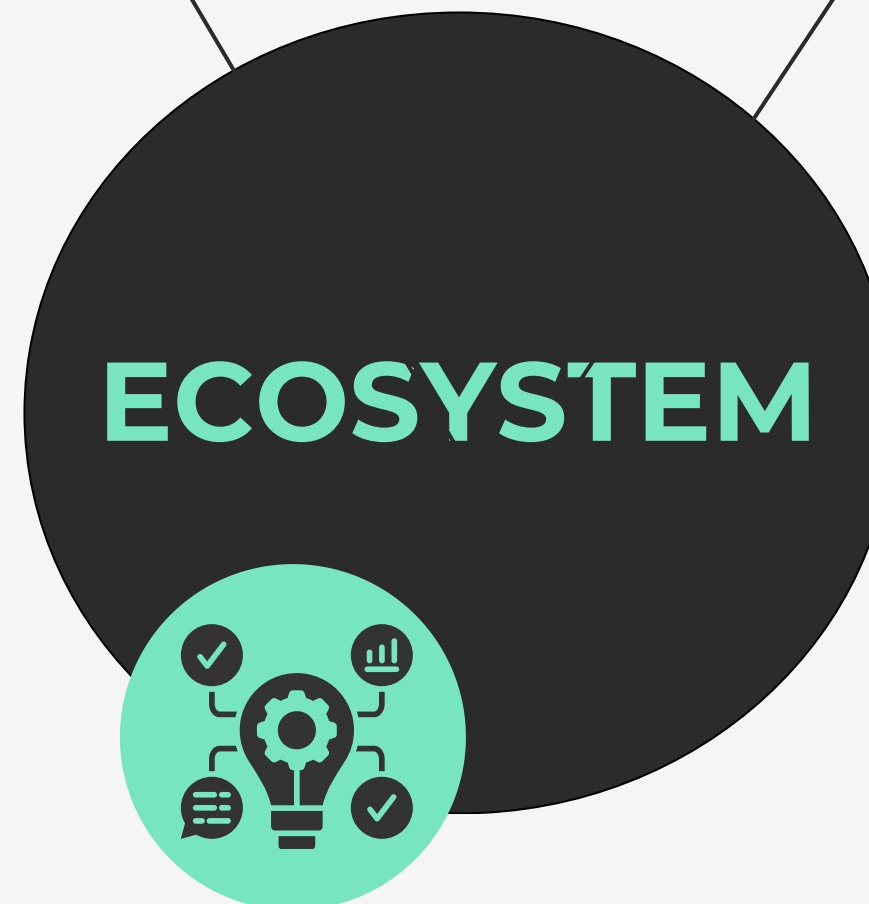
Enzyme Engineering - developing and optimising enzymes for industrial applications such as biomass processing or food production.

Algae biotechnology - the use of algae for the production of biofuel, biochemicals and biomaterials.

Microbiome research - the study of the role of micro-organisms in ecosystems and their applications in agriculture, health and food production.


MAIN INDUSTRIAL PLAYERS AND START-UPS

- Latvijas finieris
- Fibenol
- Karavela
- Alojas
- Dimedium
- Silvanols
- Got foods
- Simple food
- Golden Fields
- Field and forest
- Biorefic
- Asns ingredients



MAIN R&D CENTRES AND NETWORKING PARTNERS

- University of Latvia
- Latvijas hidroekoloģijas institūts
- Latvia University of Life Sciences and Technologies
- Vidzemes augstskola
- RTU Rēzekne
- SILAVA
- AREI
- Dārzkopības institūts
- Baltic Studies Centre
- Institute of wood chemistry
- Riga Technical University
- Latvijas Kokrūpniecības federācija
- Latvijas pārtikas uzņēmumu deferācija



Produces Protein Isolate, Fiber (Extruded hulls, Soluble fiber), Native Starch, Starch Concentrate, Yeast, Feed Protein from peas and fava beans.

ASNS Ingredient



*MISSION*Latvia

Developing a new generation of sugars, high purity hydrolysis lignin, and unique microcrystalline cellulose from hardwood.


Fibenol

BIOECONOMY SHOWCASE



Birch plywood producer and a leader in sustainable forestry innovation. Strong R&D in wood-based materials and bio-refining technologies

Latvijas Finieris



Develops and manufactures herbal medicines and natural health products and combines pharmaceutical standards with bio-based formulations

Silvanols