



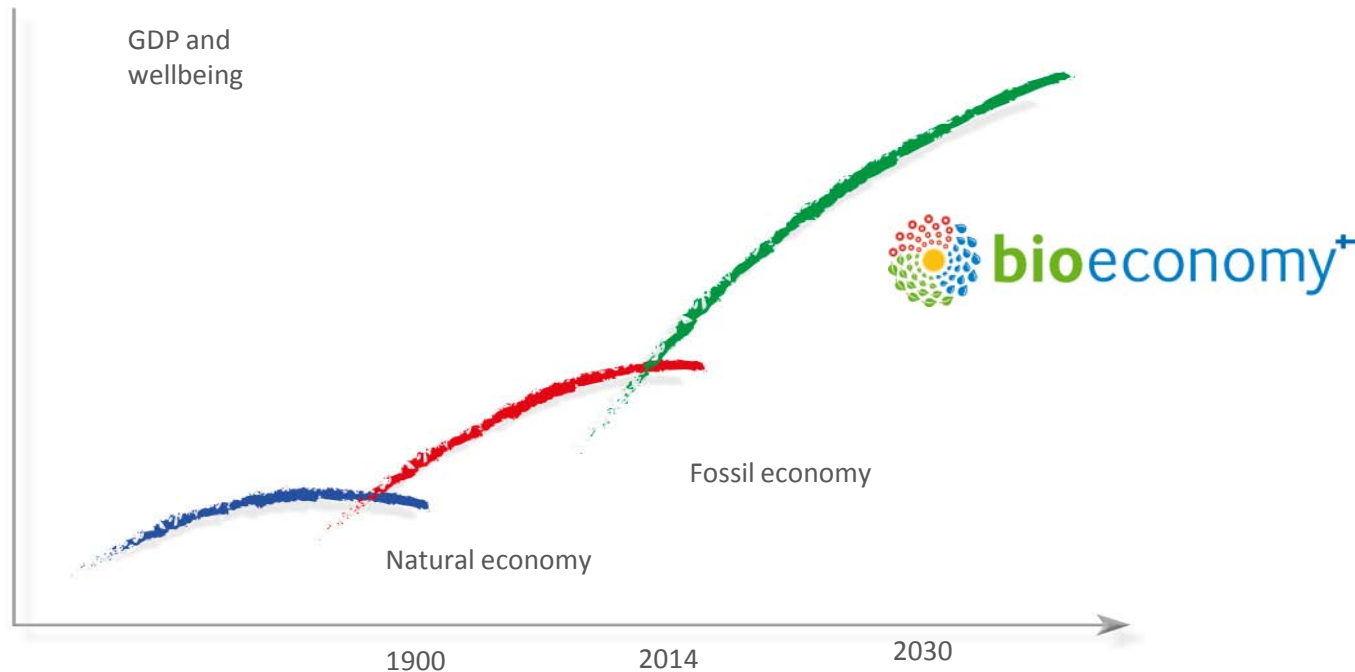
Implementation of Finnish Bioeconomy Strategy

Dr Mika Aalto

Head of Division

Natural resource economy and resource efficiency
Ministry of Employment and the Economy of Finland

Bioeconomy: The next economic wave

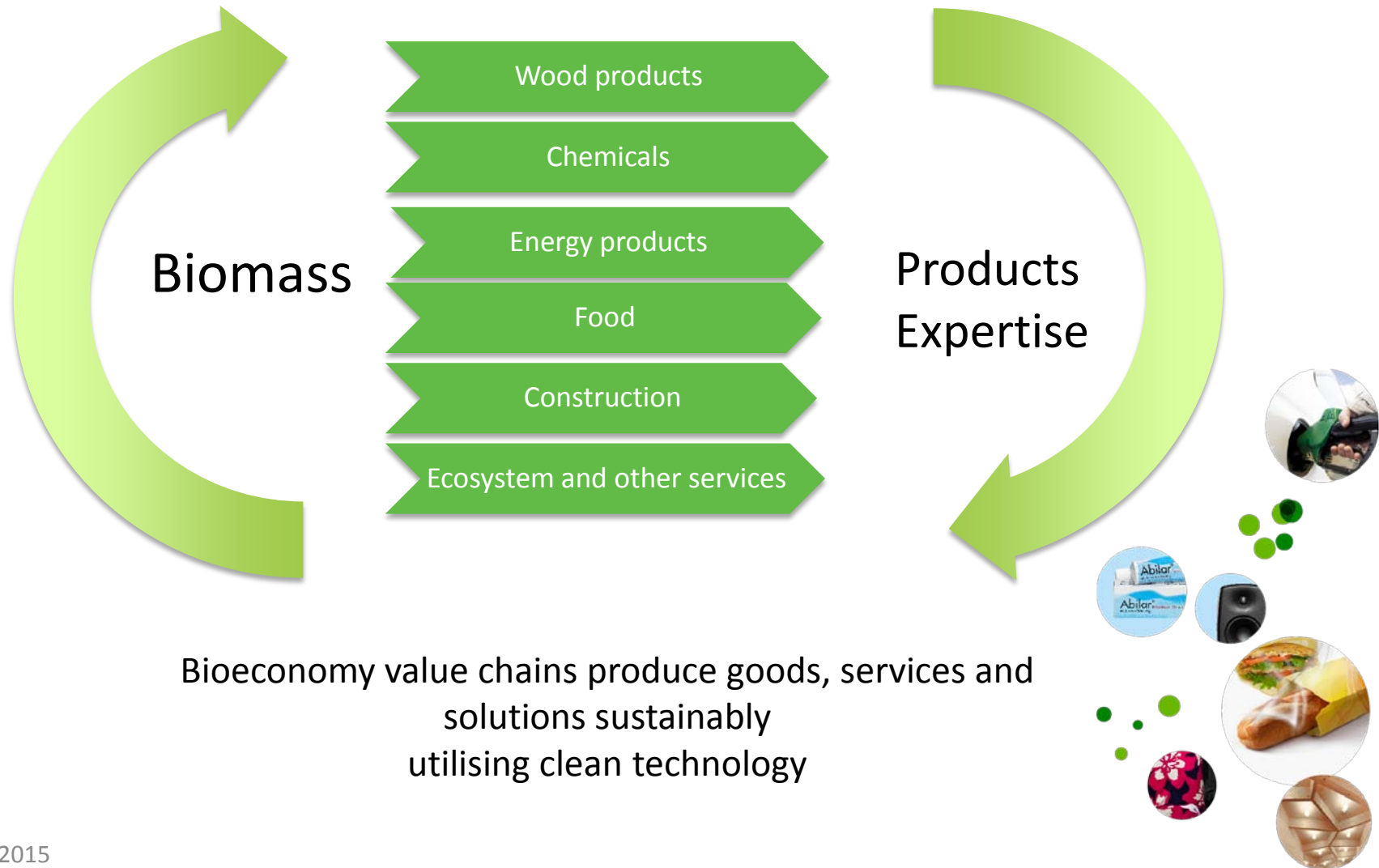


- Bioeconomy uses sustainably biological natural resources to produce materials, energy, food and services
- Aims: Decrease dependency on fossil raw materials, prevent deprivation of ecosystems, promote economic development and create new jobs



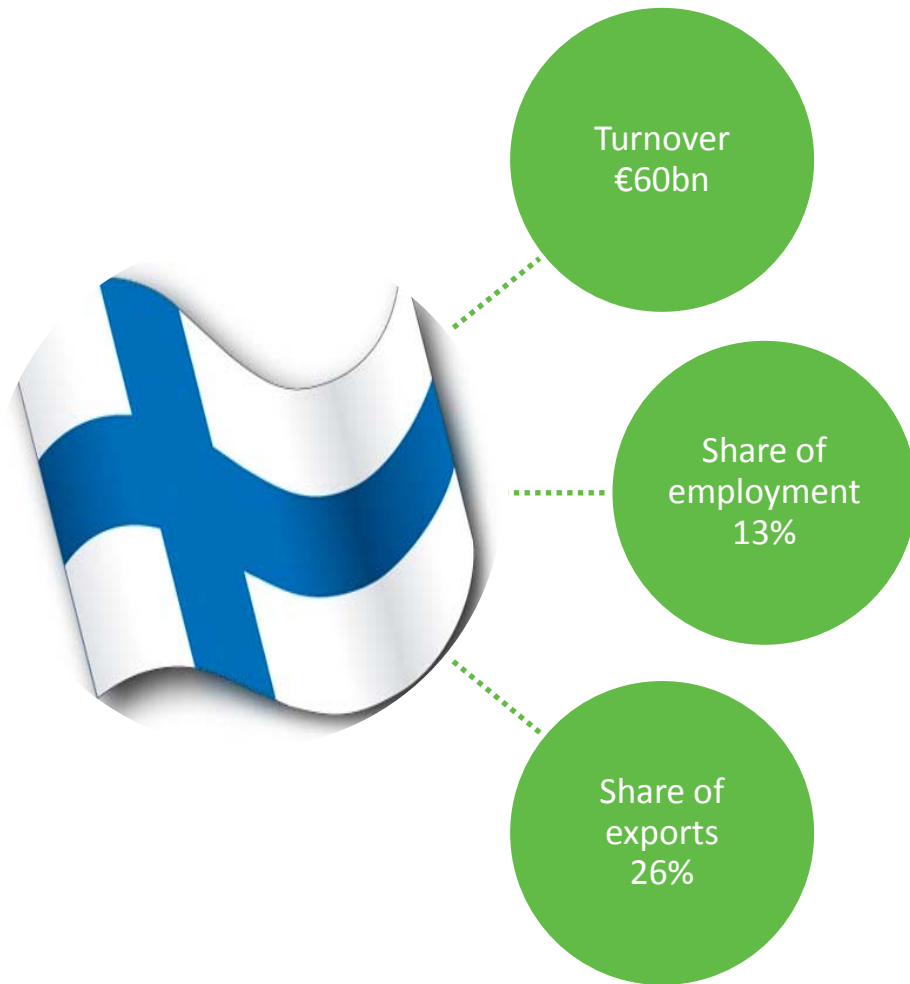


Bioeconomy value chains (ecosystem)



Bioeconomy value chains produce goods, services and solutions sustainably utilising clean technology

Bioeconomy's significance in Finland



Finland seeks to increase its bioeconomy output to 100bn euros by 2025 and to create 100,000 new jobs in the process.

Bioeconomy combines wood processing, chemistry, energy, construction, technology, food and health.

Forest based bioeconomy is really important



Finland's bioeconomy strategy

Strategic goals

1. COMPETITIVE ENVIRONMENT FOR BIOECONOMY
2. NEW BUSINESS FROM BIOECONOMY
3. STRONG KNOW-HOW BASE FOR BIOECONOMY
4. USABILITY AND SUSTAINABILITY OF BIOMASS

Implementation and monitoring

Sustainable bioeconomy solutions are the basis of Finland's welfare and competitiveness.



Implemented policies and actions

1. The government decision on bioeconomy
2. Public funding allocated to bioeconomy
3. Boosting investments – An International Biorefinery Competition
4. Finnish bioeconomy priorities defined for the EU
5. A regulatory survey on "Bioeconomy bottlenecks and boosters"
6. BioAtlas – an inventory of biomass resources
7. Promotion of exports of biobased products and technologies
8. A communication and media action plan
9. Tools for promotion and a public discussion



International Biorefinery Competition

- First of its kind in the world
- Entries represented investments of 1.5 B€
- Winners
 - Spinnova – fibre yarn
 - Biovakka Suomi – transportation fuels and nutrients
 - Kemijärvi consortium – new pulp products and chemicals



Future success depends on many factors

- Raw material availability and price
- Industrial infrastructure
- Competence base
- Willingness / ability to partner and seek new business
- Product markets
- Availability of private and public funding
- Political will

