



What is a 'bioeconomy'?

"all sectors of the economy that derive their products from biomass" (BECOTEPS EU project 2010)

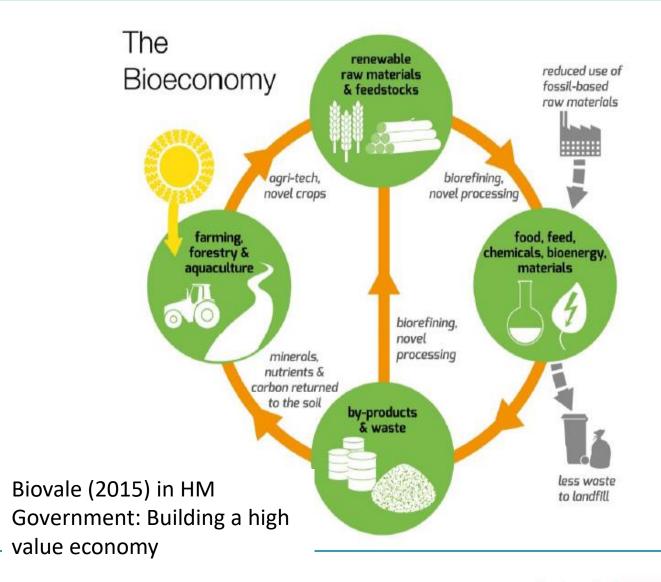
"those parts of the economy that use renewable biological resources from land and sea – such as crops, forests, fish, animals and micro-organisms – to produce food, materials, and energy" (EU Commission)

"the part of the economy using biological resources (biomass), or bioprocesses, for the production of value added products, such as food, feed, materials, fuels, chemicals, biobased products and bioenergy" (UK Govt)

"the bioeconomy includes renewable energy (fuels, heat and power) and biobased products" (USDA)

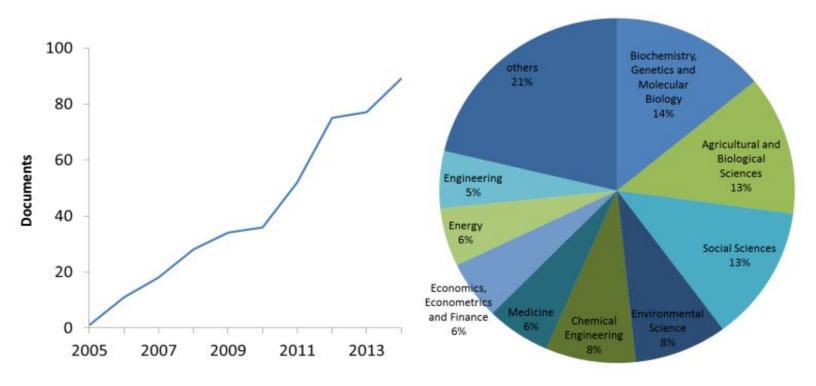
"the bioeconomy leverages innovations in the (life)sciences and bio-industries to achieve ecological and social sustainable growth and employment based on the wealth of biological resources" (German Bioeconomy Council)





Increasing use of 'bioeconomy' term (Glossl 2015)

Documents containing the term "bioeconomy" or "bio-economy" in title, keywords or abstract



Overview of political bioeconomy strategies



© German Bioeconomy Council



Potential benefits of a bioeconomy

- Shift from fossil-fuels and associated environmental effects (e.g. GHG emissions)
- Higher value products and new markets
- Improved health and nutrition
- Less waste to landfill
- Energy security
- Job creation
- Resource-efficient society



New Zealand

- Growth model has started to show its environmental limits
- Need to tackle GHG emissions, water quality, also biodiversity loss, erosion
- Greater value-added from the primary sector
- Regional rural development

"A long-term vision for the transition towards a low-carbon, greener economy is necessary" (OECD 2017)





New Zealand has potential to make an important contribution to a global bioeconomy



New Zealand bioeconomy examples?





Making wood fibre reinforced plastics







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Where is NZ's niche in the global bioeconomy?

- Map NZ's potential strengths in the global bioeconomy against current growth areas and emerging opportunities
- What is the potential value to NZ?
 - Financial
 - Social
 - Environmental
- Next steps: How do we get there?
- Cross-sectoral transformation







Weaving the Korowai of Papatuanuku

Papatuanuku

Mother Earth

Korowai

Cloak

Weaving interagency collaboration



Challenges

Adapting governance methods

