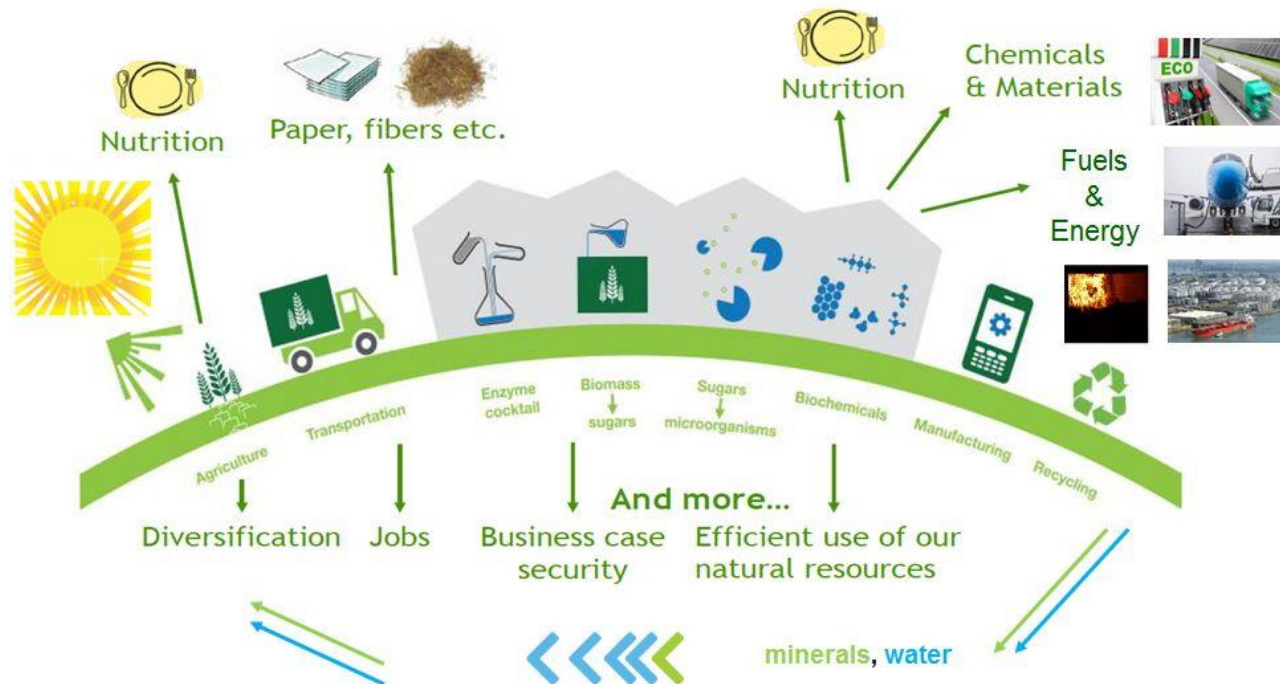


# Round Table The Netherlands (NL)



Bert Annevelink  
Dublin, 18 April 2016

# Vision of the Dutch Sustainable Biomass Commission

## Recommendations:

- Be ambitious and express your ambitions openly
- Aim for sustainable production of biomass
- Stimulate the mobilisation of sustainable biomass
- Stimulate efficient and effective use of biomass
- Stimulate development of the market for sustainable biomass and sustainable biobased products
- Facilitate the sustainable bioeconomy
- Monitor policy and make your policy responsive

<http://www.corbey.nl/advice/sustainability-in-general/towards-a-sustainable-bioeconomy/>



# Biomass 2030 – Strategic vision for implementation of biomass

## Main message:

- In principal there is enough sustainable biomass available to fulfil the Dutch demand for food, feed, transport, chemicals and materials
- However, this requires:
  - supply of sustainable biomass
  - efficient and circular use of biomass
  - use an integral sustainability assessment framework
  - innovation



<https://www.rijksoverheid.nl/documenten/rapporten/2015/12/01/biomassa-2030>

# Upcycling Gemert

Champost – a sought after soil improver

- A new process developed by the family-owned company Champignon Kwekerij Gemert (CKG) turns spent mushroom compost into Champost
- CO<sub>2</sub> Savings CKG uses 0.3 million m<sup>3</sup> of natural gas every year to heat its mushroom growing cells.
- The heat generated during the production of Champost is 1.5 million m<sup>3</sup> of natural gas – an equivalent saving of 3,000 tonnes of CO<sub>2</sub> per year. It also significantly reduces the need for transportation and associated costs.
- Other outlets for the excess heat are developed

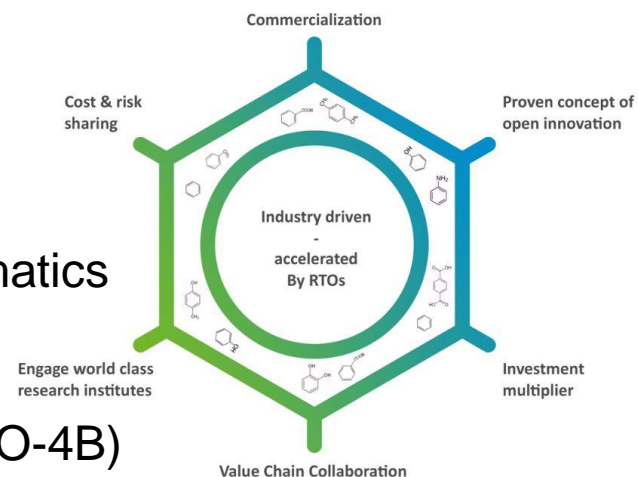




- Production and marketing of furandicarboxylic acid (FDCA) based on renewable resources, the main new building block for polyethylenefuranoate (PEF)
- Further development and licensing of Avantium's production processes for FDCA and PEF at industrial scale
- Intention to build a reference plant for FDCA with an annual capacity of up to 50,000 tons at BASF's Verbund site in Antwerp, Belgium

<http://www.avantium.com>

- Biorizon is a cross-border initiative between TNO, VITO and the Green Chemistry Campus and is part of Biobased Delta.
- Biorizon together with 9 partners, will work on the scaling up of technology for the production of aromatics from biomass in the new cross-border BIO-HArT-project (Biorizon Innovation and Upscaling of Renewable Aromatics Technology)
- Some other projects:
  - Waste2Aromatics
  - Biorefinery of entire plant biomass to aromatics (ARBOREF)
  - Sugars, Celluloses and Lignin Scaling up towards BioBased Building Blocks (SCeLiO-4B)



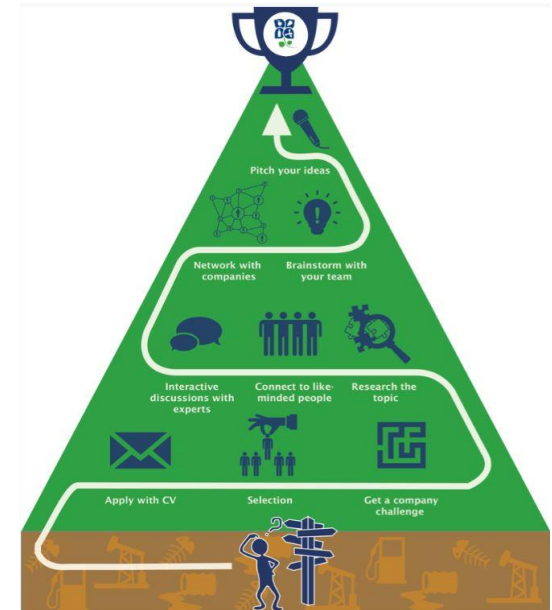
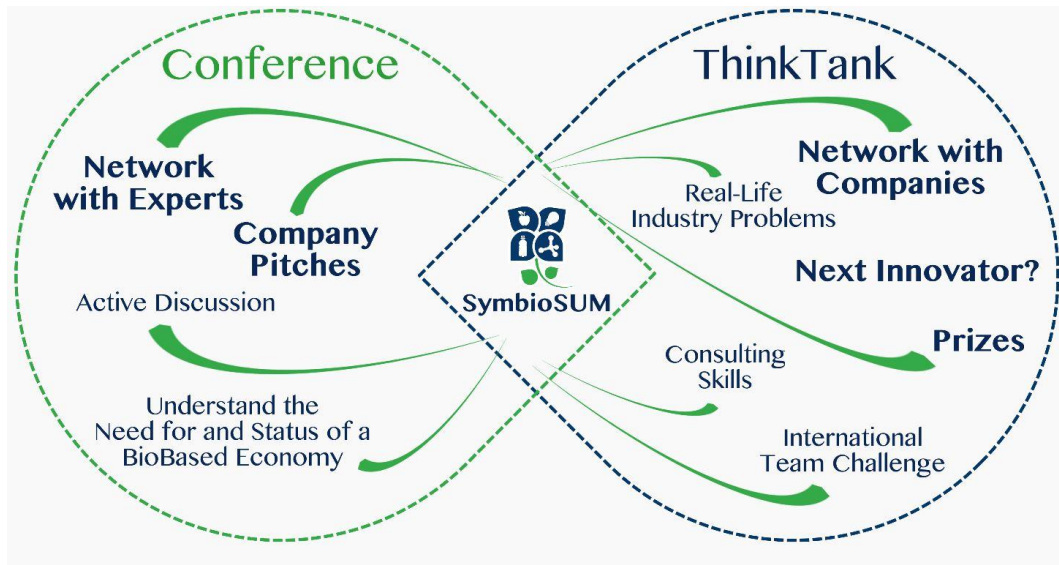
<http://www.biorizon.eu>



# International Biobased Economy Student SymbioSUM (IBBESS)



- Organized by students
- Wageningen, 28 till 31 August 2016
- Combining aspects of a Conference and a ThinkTank



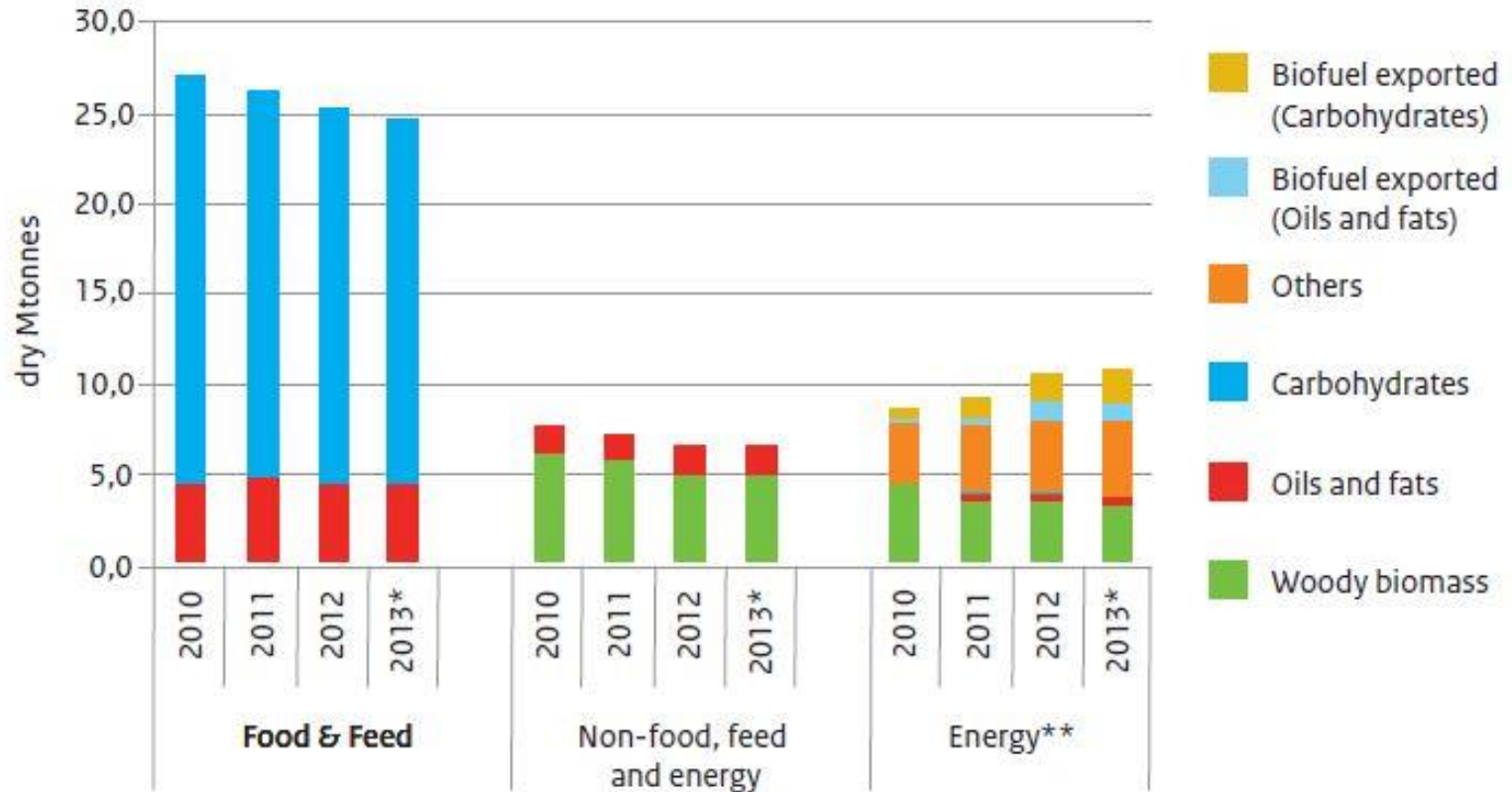
<http://www.wageningenur.nl/en/activity/IBBESS-Conference-2015.htm>

Bert Annevelink  
Wageningen UR  
Food and Biobased Research  
+31-317-488700  
[bert.annevelink@wur.nl](mailto:bert.annevelink@wur.nl)





## Task 42 Biorefining



Final use of different types of biomass in the Netherlands per application and measured from the first point where biomass is used in the chain/sector

<https://www.rijksoverheid.nl/documenten/rapporten/2015/12/01/biomassa-2030>