

The Dutch Perspective on the Biobased Economy

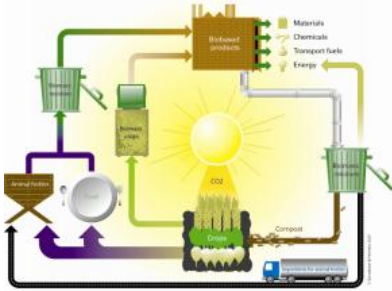
Dirk de Jong
 Policy Co-ordinator
 Biobased Economy

Ministry of Economic Affairs,
 Agriculture and Innovation

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Biobased Economy in the Netherlands



Drivers of a Bio-based Economy



- Innovation and economic development
- Energy security
- Environmental policy – Greenhouse Gas (GHG)
- Employment
- Regional and Agricultural policies
- Energy costs
- Exhaustion fossil reserves
- Reduction CO2 emission

Transition towards a Bio(based) Economy



- Transition: from coal to fossil oil and gas
- Financial and socio-economic crisis, climate and energy crisis, water and food crisis, new paths needed: the third industrial revolution
- Also at social level: innovation in developing new networks, with the governments at local, national and European levels as partner > find partners with shared visions
- Ongoing co-operation and interaction between front runners from government, science and enterprises is crucial > organisation

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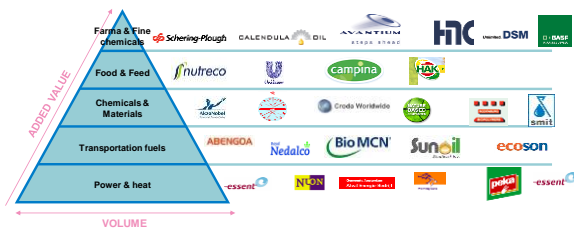
Transition towards a Bio(based) Economy



- Transition management; from established powers towards new coalitions > struggle!!!
- Time and confidence and trust to turn down existing and emerging barriers
- Development of (new) instruments, policy visions, based on discontinuities and surprises
- Inspiring visions on the future are the key to a successful transition.
- Implementation in smaller learning processes (niche-experiments).
- Learning processes are defining the choice of adapting transition paths

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Focus on highest added value: biomass cascading



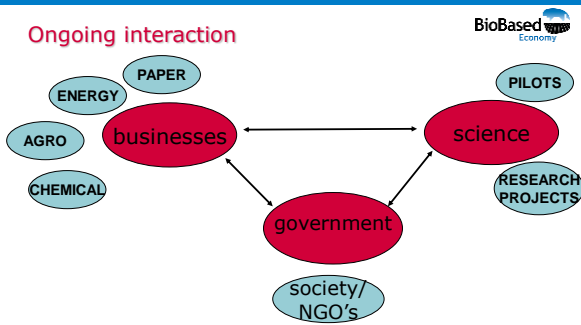
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Biobased Economy: Cross-cutting Theme in Top Areas Policy

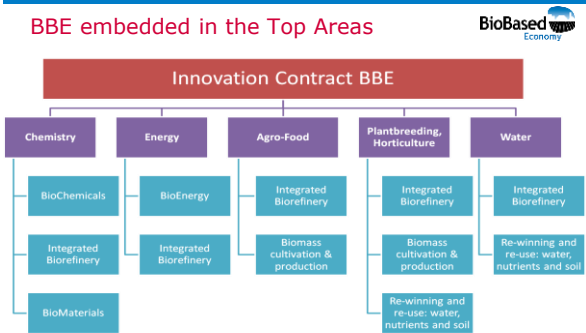
- Green chemistry, materials
 - Water
 - Agro-food
 - Logistic sector
 - Energy: Biofuels, Biogas
 - Plantbreeding, horticulture
- **Biobased Economy as cross-cutting theme**



Ongoing interaction



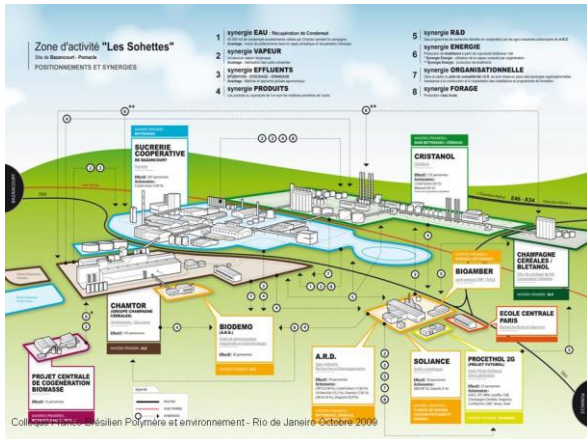
BBE embedded in the Top Areas



Focus for further development



- 1. Biomass supply**
'top 10 of biomass' and identifying its availability
- 2. Biomass refinery**
- 3. Biomass applications**
'top 10' of technologies needed for production of bio-products
- 4. Sustainability** (in the whole chain)
- 5. Developing countries**
Challenges for biomass production in developing countries
- 6. Research and innovation agenda**
Scientific & technical committee
- 7. Policy instruments**
Coherent and consistent



Colloquium Brésilien Polymère et environnement - Rio de Janeiro Octobre 2006





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Thank you for your attention!

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