

Mads Randbøll Wolff
December 5th. 2017
Daugmale



Zemkopības ministrija



norden

Ziemeļu Ministru padomes
birojs Latvijā



Latvijas
Lauksaimniecības
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Bioeconomy-based Agriculture in Latvia

Jelgava, Latvia University of Agriculture, Jelgava palace

December 1. 2016

Mads Randbøll Wolff, CEO, Sustainability 2030

Bioeconomy in a crossroads - what influence the emergent bioeconomies of Europe;
growth, climate change and sustainable development.

Question:

If bioeconomy is a new solution to known problems, then why do we still talk about business as usual?

Bioeconomy is much more than a question of replacing fossil resources with biobased resources, and it is much more than a question of technology. It's about society, our economy, social development and not least a more distributed economic and social development! And therefore we need much more than business as usual!

Conclusion:

1. Bioeconomy is a reaction to a/several problem(s)!
2. Hence: Bioeconomy **can be** an answer to both climate change and environmental challenges and to an unbalanced social and economic development. But we need awareness of the challenges
3. And one size **does not** fit all!
4. Diversity!: Invest in place based development and strategies. What is available?
5. Main question: how can a bioeconomic transformation be a driver for a sustainable local/regional economic and social development?
6. Its a question of scaling! And not only up-scaling, down-scaling is also needed!


WHY BIOECONOMY?

Commission official: 'Bioeconomy is a unique opportunity to address societal challenges'

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By Andrej Furik | EurActiv.sk

24. nov 2016 (updated: 24. nov 2016)



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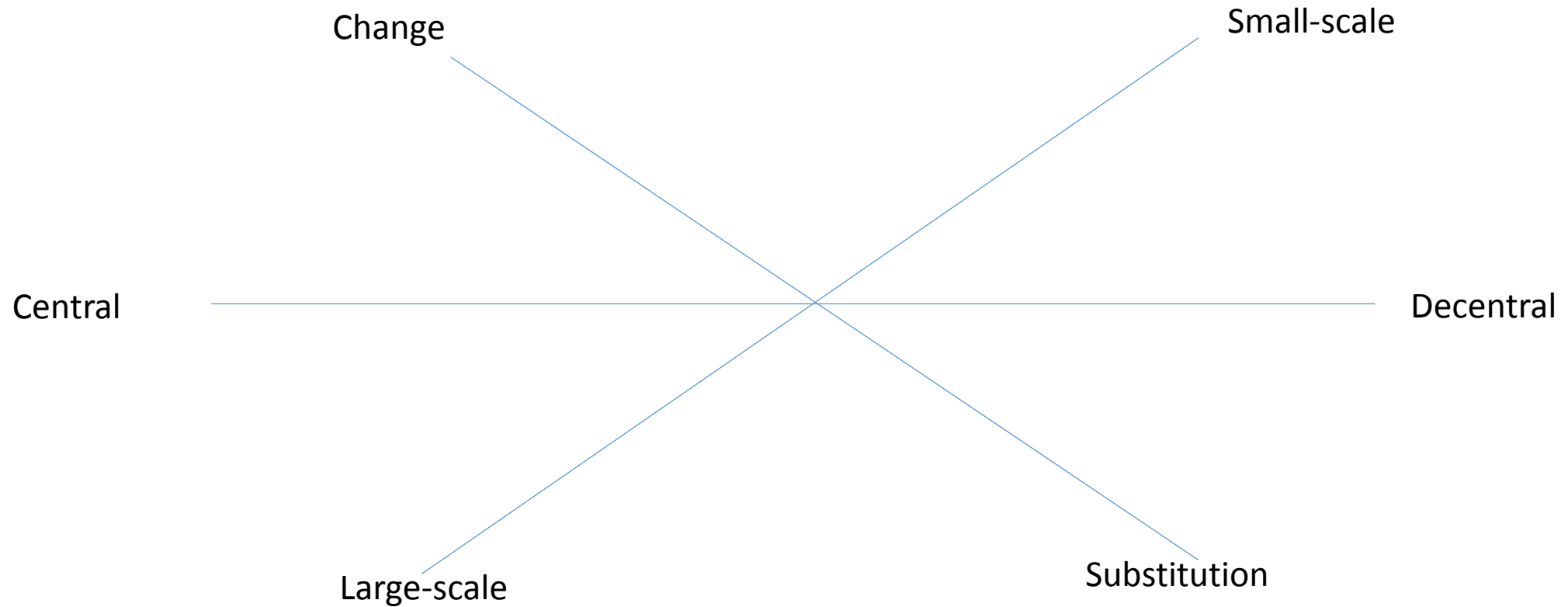
WHY BIOECONOMY?

Major challenges global and local!

1. Climate change, environmental issues
2. Unbalanced social and economic development – a rural development perspective! (OECD: New Rural Paradigm!)

Bioeconomy in a cross roads

- what constitutes bioeconomy in Europe?



COP23, Bonn november 2017

Challenge: Low carbon society

Potential solutions:

- **Policy coherence: SDG's & Climate**
- **The Future is decentralised**
- **The role of the bioeconomy**

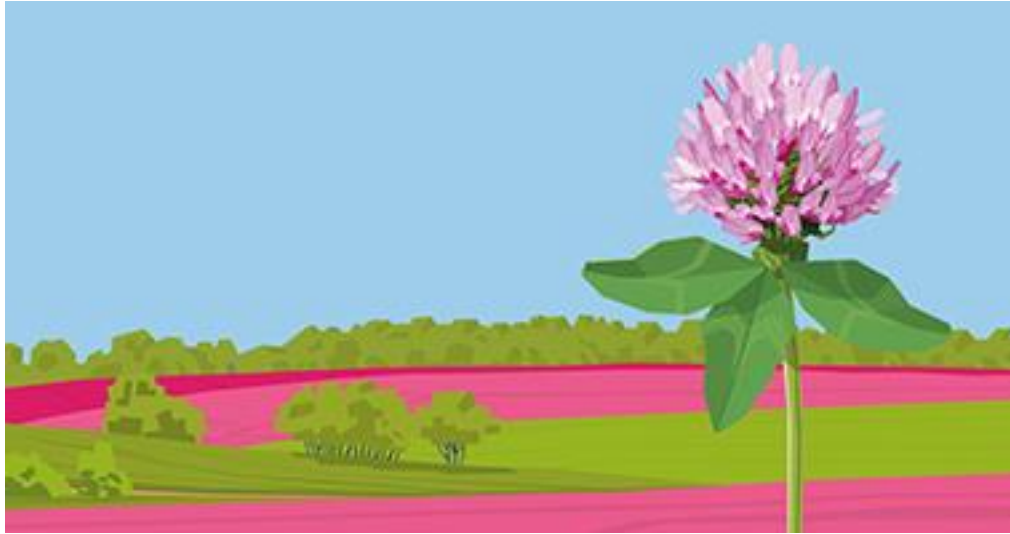
Opportunities:

- **A shift in our economy**
- **The 4th. Industrial revolution**



Development on the remote small islands. The case of the Faroese





The case of Central Region Denmark

Cascading Bio Resources, Cross-connection Industries

Biomass resources are abundant within Central Denmark Region especially with regards to residuals from agricultural production, marine biomass, and organic side streams from households, service and industry.

World leading food and feed companies, such as Arla and Biomar, are located within the region as are many innovative SME's within the agro and food processing industry.

At the University of Aarhus a number of outstanding and interlinked bio refinery test facilities are available to research and the private industry as a source for collaboration.

Central Denmark Region strongly encourages companies and knowledge institutions to collaborate ...
Through development programmes, Central Denmark Region supports SME's in the development of new bio products....

Bio refinery based on grass – to the benefit of the environment ... Protein feed and other high-value products based on grass may ...

Bio refinery based on marine biomass – closing the nutrition cycle

Seaweed also has promising potential....

Aquaculture companies within Central Denmark Region are highly experienced

Enhanced biogas production from residuals – upgrade, conversion and recirculation

Nordic Forestry Innovation – Cascading the use of wood in construction and other high value products



Questions for you?

Seen from a biomassperspective:

- What biomass potential is in your region?
- What kind of excisting production and structure excists?
- Where are the hidden potentials in exploting existing resources more and in a sustainable way?

Seen from a demand side:

- Where is the upcoming demands?
 - Which demand sources should be activatet?
 - Does public procurement give oppertunities?
-
- How can demand and supply be interlinked in order to create new potentials?



Thank you for your attention!

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