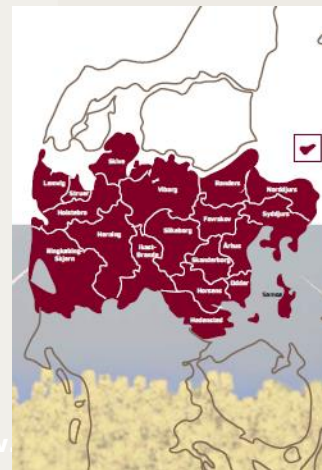




Central Denmark Region's action on bioeconomy under development

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Structure

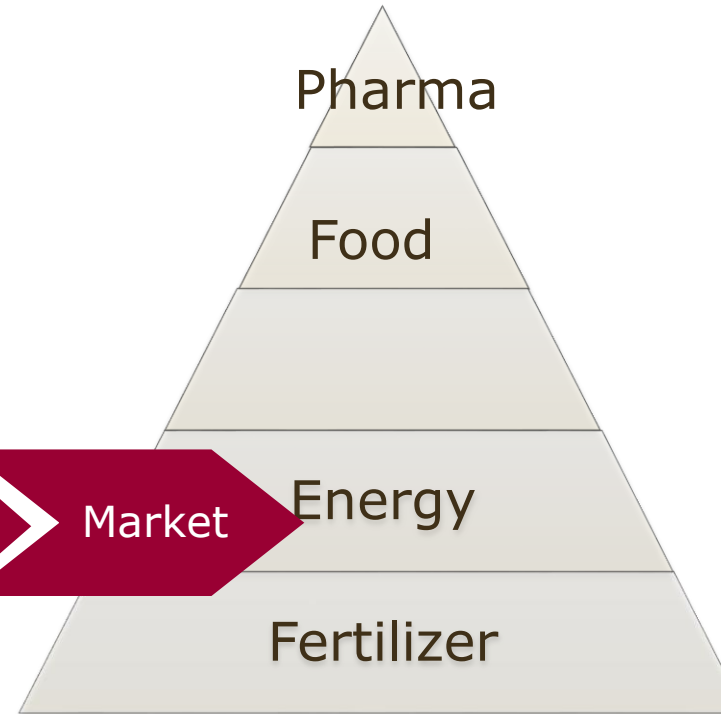
- Background
 - bioeconomy in present regional programmes

- What is bioeconomy

- The region's work on developing a bioeconomy programme

- Perspectives
 - development projects 2015
 - an overall regional bioeconomy strategy and action plan 2016 -

Bioeconomy in present programmes



Cluster initiatives



www.inbiom.dk



www.danishfoodcluster.dk



To the region, bioeconomy is



Source: www.forskningsradet.no

*A value system, which exploits and transforms biomass and biobased residuals, by-products and waste into commodities with **positive environmental, welfare and economic impacts.***

A systemic/holistic way of thinking that ensures sustainable renewal of natural resources, that is based on extracting high value substances first and on ensuring that that all parts of the biomass are used and reused.

Programme development

Stakeholders ask for the region's contribution to:

- Optimizing resources
- Strengthening collaboration in across value chains
 - Locally, nationally, internationally
- Market development for biobased products
- Long term reliability of policy conditions

Programme development – focus areas

Stakeholders invest in and point out need for:

- **Further development of established value chains**

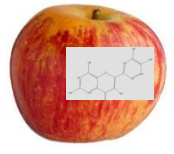
- fuel for transport – waste, residuals



- **fodder protein based - local biomasses**



- new ingredients for food based – residuals, by-products



- **Development of new possibilities**

- **marine biomass: macro algae, discard, ...**



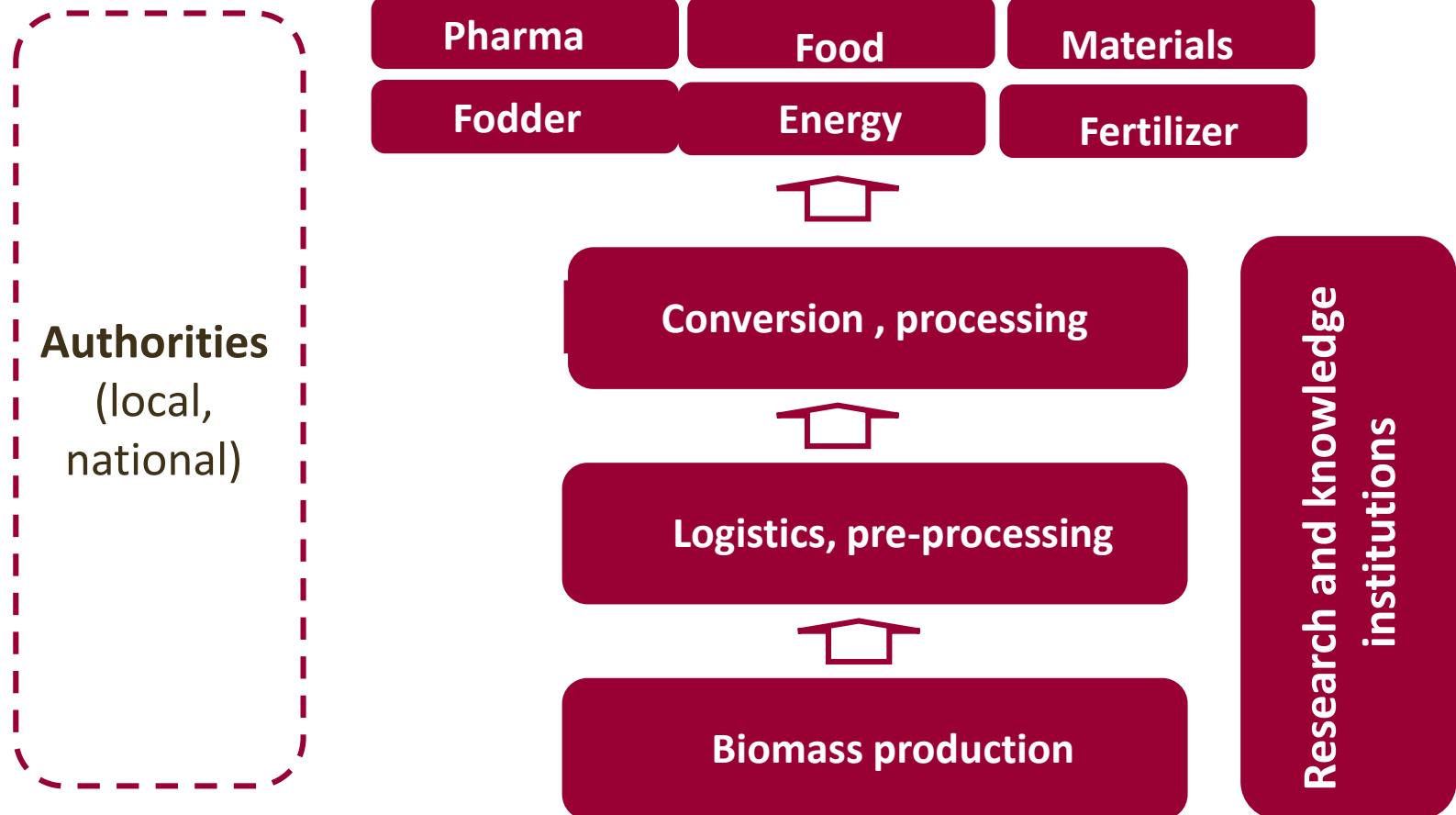
- food waste in all parts of the value chain



- biobased disposables; insulation, etc.

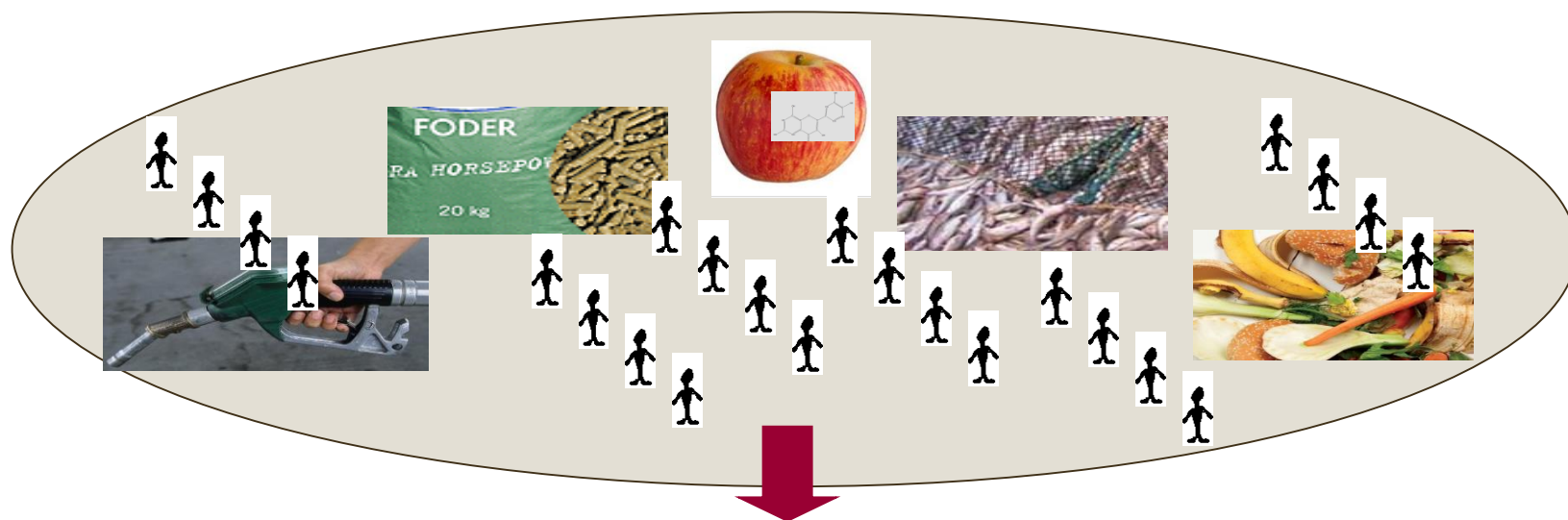


80 stakeholders now being invited for specification



Outputs from first workshops

November 13th 2014; January 8th 2015



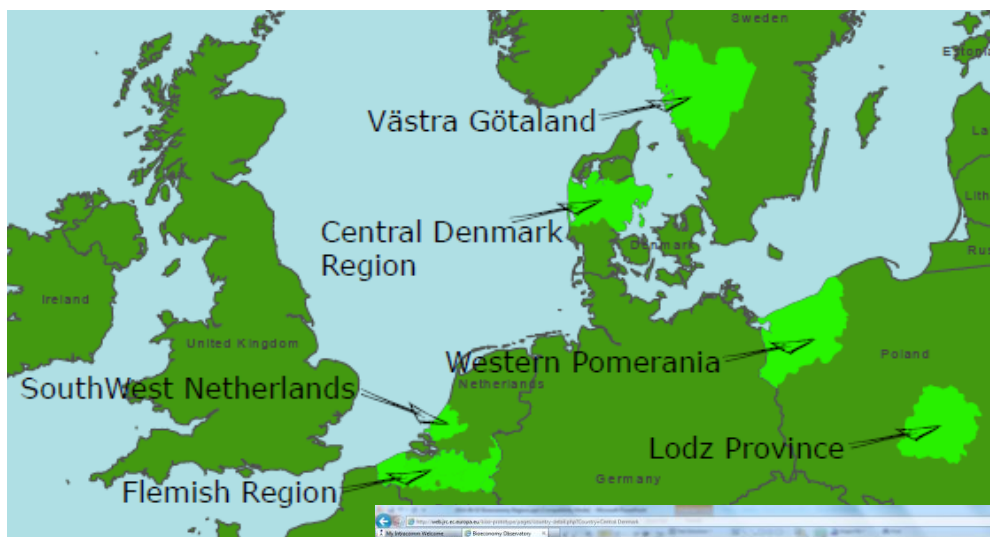
Visions for 2030 and initial roadmaps

Systemic demonstration projects (value chain focus)

Needs for investment

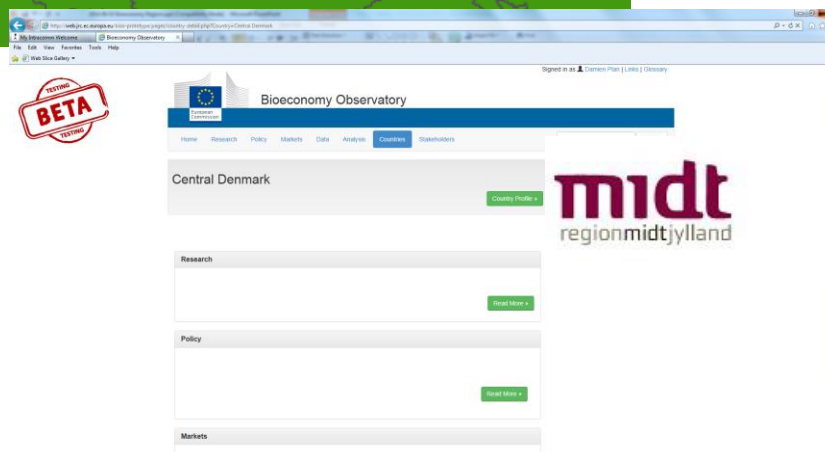
Need for partners

International partners, networks, etc.



Central Denmark
Region – a

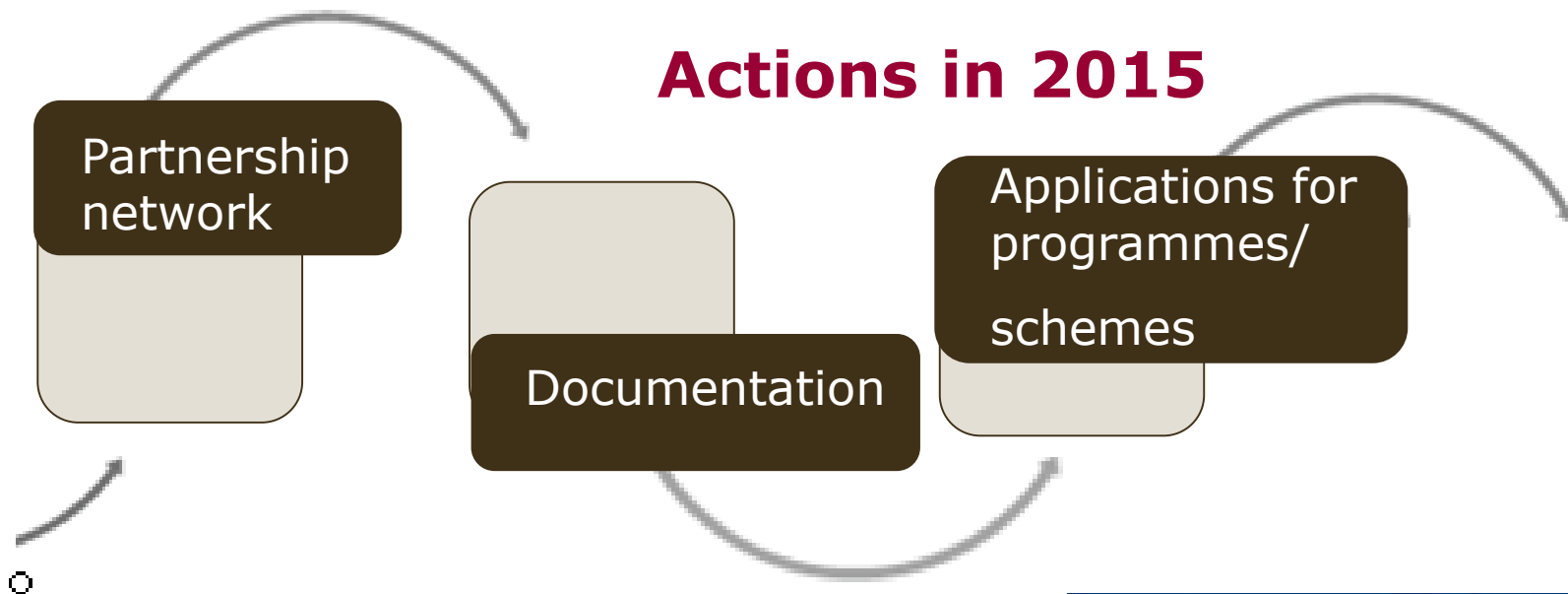
*“European bioeconomy
frontrunner region”*



Oct. 9th
profile launched
on EC homepage

International partners in demonstration projects

Actions in 2015



Positive impact on

- Environment
- Employment
- Turnover
- Earnings
- Export



e.g. regional match funding with Interreg

Bioeconomy strategy and action plan 2016-

Seaweed →?

Marine biomass based value chains →?

Regional bioeconomy strategy & action plan ?



Regional Growth and Development plan