



TRansition paths to sUustainable
legume-based systems in EEurope

Legumes: renewable-nitrogen sources in a ‘circular food-economy’?

Break-out session n^o. 3

Mediterranean-LIN workshop, Oct. 1st ‘20

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About the breakout session (45 min.)



- **Please introduce yourself (5')**
 - Identify the rapporteur.
- **Short presentation (5')**
 - What is a circular economy?
- **Discussion / Q&A (20')**
 - The roll for food- and feed-legumes in a circular economy
 - Potential benefits or opportunities? Risks?
- **Define (15')**
 - *Legumes role in helping to realise more sustainable circular food- and food-economies locally?*





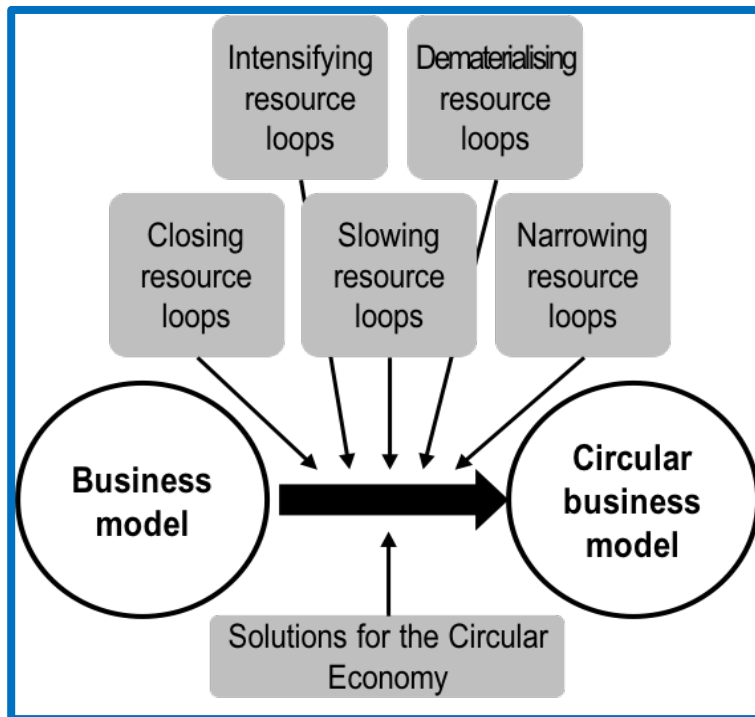
A “circular economy”: what is it?

- Eliminates waste, and realises the continual use of (renewable) resources
- Societal needs are only marginally addressed by the concept



Image: Sustainable Global Resources Ltd.
Recycling Council of Ontario

A circular economy is supported by specific business models



- **Does not displace capitalism**
 - profit maximisation OK
- **Improves efficiency/meets regulations**
 - where they exist/are enforced
- **Kalundborg Symbiosis**
 - Co-product of one industry is raw material of another
- **Existing CE models**
 - Agriculture?



Four levers towards a circular food economy



- Close-loops for nutrients (nitrogen) and other inputs

- Use renewable nitrogen
- return nutrients to farms
- Regenerate soils
- Minimise nutrient loss to waterways

- Optimise the value of co-product

- As alternative renewable feedstocks

- Diversify production and processing

- Shorter supply chains, farmers-consumer connectivity
- Create local job, strengthens resilience

- Utilise digital media – inform consumers

- Precision manage value chain
- Traceability / proving provenance

**SOURCE FOOD GROWN
REGENERATIVELY,
AND LOCALLY WHERE
APPROPRIATE**



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