

# Circular economy and the role of Energy (from Waste)

Paris, 10 January 2017



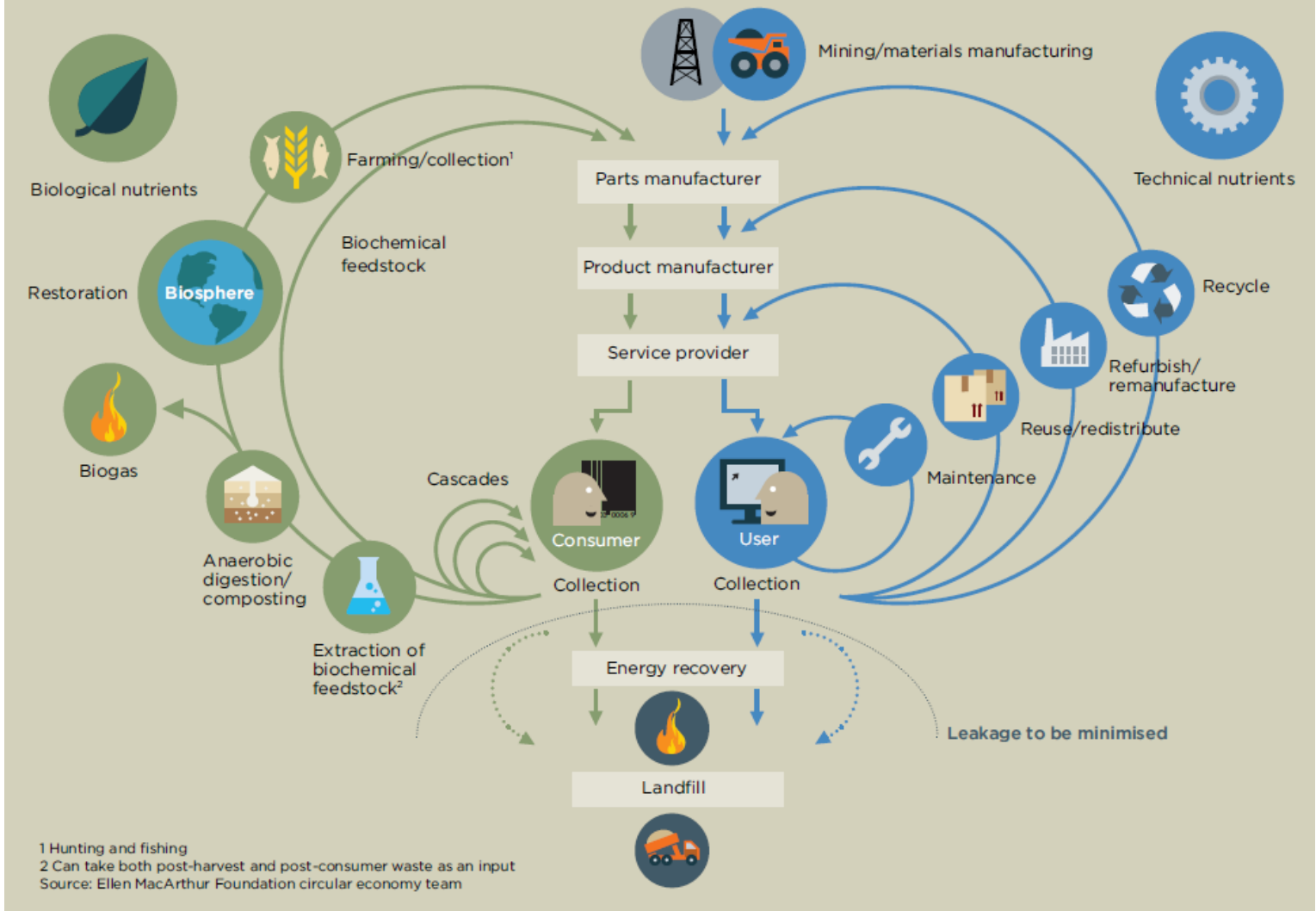
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Task leader

# Circular economy- what's that?



FIGURE 6 The circular economy—an industrial system that is restorative by design



# It's a buzz...

Last year 7 out of 42 words introduced as “new” were related to circular economy/environmental stress

- Circular economy
- Lending wardrobe
- Uberization
- Packaging free
- Waste food store
- Protein shift
- Vegetable milk

# EU has started to awaken...

- In december 2015 the EC presented their package around circular economy after withdrawing the previous package.
- It contains a number of actions to be taken to move towards a more circular economy
  - Production (design and production process)
  - Consumption (make information available, facilitate repair and reuse, green public procurement)
  - Waste management (increased recycling targets, decreased landfill)

- Increase recycling/re-use of municipal waste to 60% (2025) and 65% (2030)
- Increase recycling/re-use of packaging material (material specific) by 2025 and 2030
- Reduce landfilling to maximum 10% by 2030
- Harmonize and streamline the calculation methods for the targets
- Promote the use of economic instruments at national level to provide incentives for better implementation of the waste hierarchy.
- ... and more

# ...BUT

It remains to be seen what parts that actually will be realised...

# So why are we here?

- To share experiences/inspiration from different countries and organisations
- To have open and constructive discussions about circular economy in general and on the role of energy (from waste) in particular.



# Agenda

Introduction (Inge Johansson, Task leader of IEA Bioenergy task 36)

- The Role of Biomass, Bioenergy and Biorefining in a Circular Economy, Presentation from Task 42, Harriëtte Bos, Wageningen Food and Biobased Research
- The role of biogas in circular economy, Presentation from Task 37 , Mattias Svensson, Energiforsk
- Circular economy from the WtE operators point of view Marta Gurin, CEWEP
- Circular economy in different countries, status, policy and legislation
  - o Singapore, Lim Siak Heng, National Environmental Agency of Singapore
  - o France, Adrian Deboutiere, Institut de l'économie circulaire
  - o Germany, Dieter Staph, Karlsruhe Institute of Technology
  - o Italy, Vito Pignatelli, ENEA/ITABIA
  - o Sweden, Inge Johansson, RISE
- Time for discussion (including 2 group challenges) and conclusions

*Thank you!*

IEA Bioenergy



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