



Biomethane in the frame of the European and Italian Bioeconomies

Fabio Fava

School of Engineering, *Alma Mater Studiorum*-Università di Bologna & CTS Ecomondo
&

Italian Representative for Bioeconomy at the EU Commission in i) Horizon2020, SC2
programming committee, ii) "States Representatives Group", Public-Private Partnership
Biobased industry (BBI JU)
(E-mail: fabio.fava@unibo.it)

CON IL PATROCINIO DI



PARTNER



MAIN SPONSOR

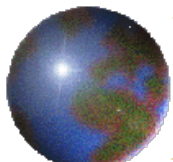


SPONSOR

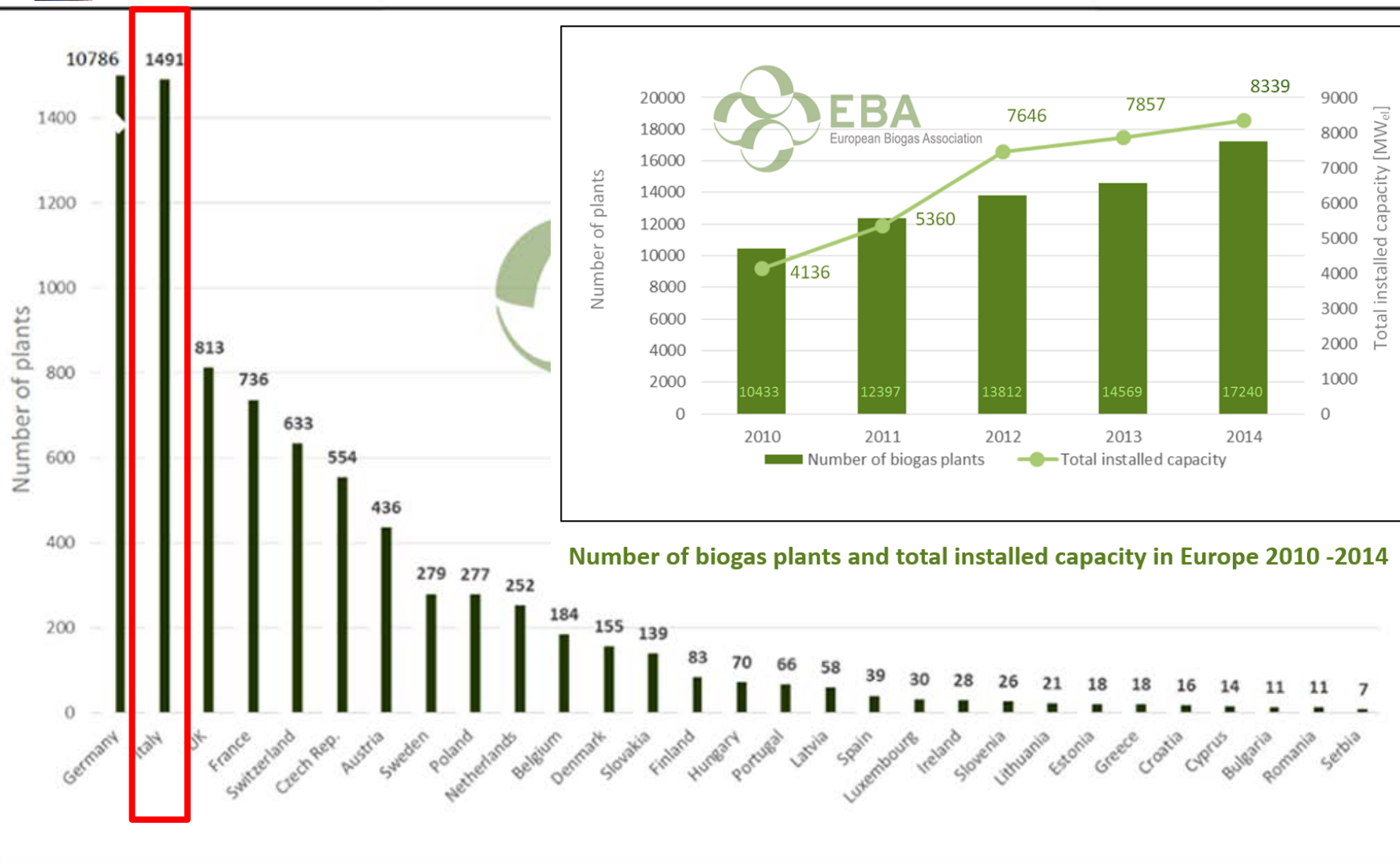


MEDIA PARTNER



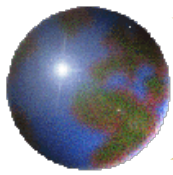


Biogas in Europe and in Italy

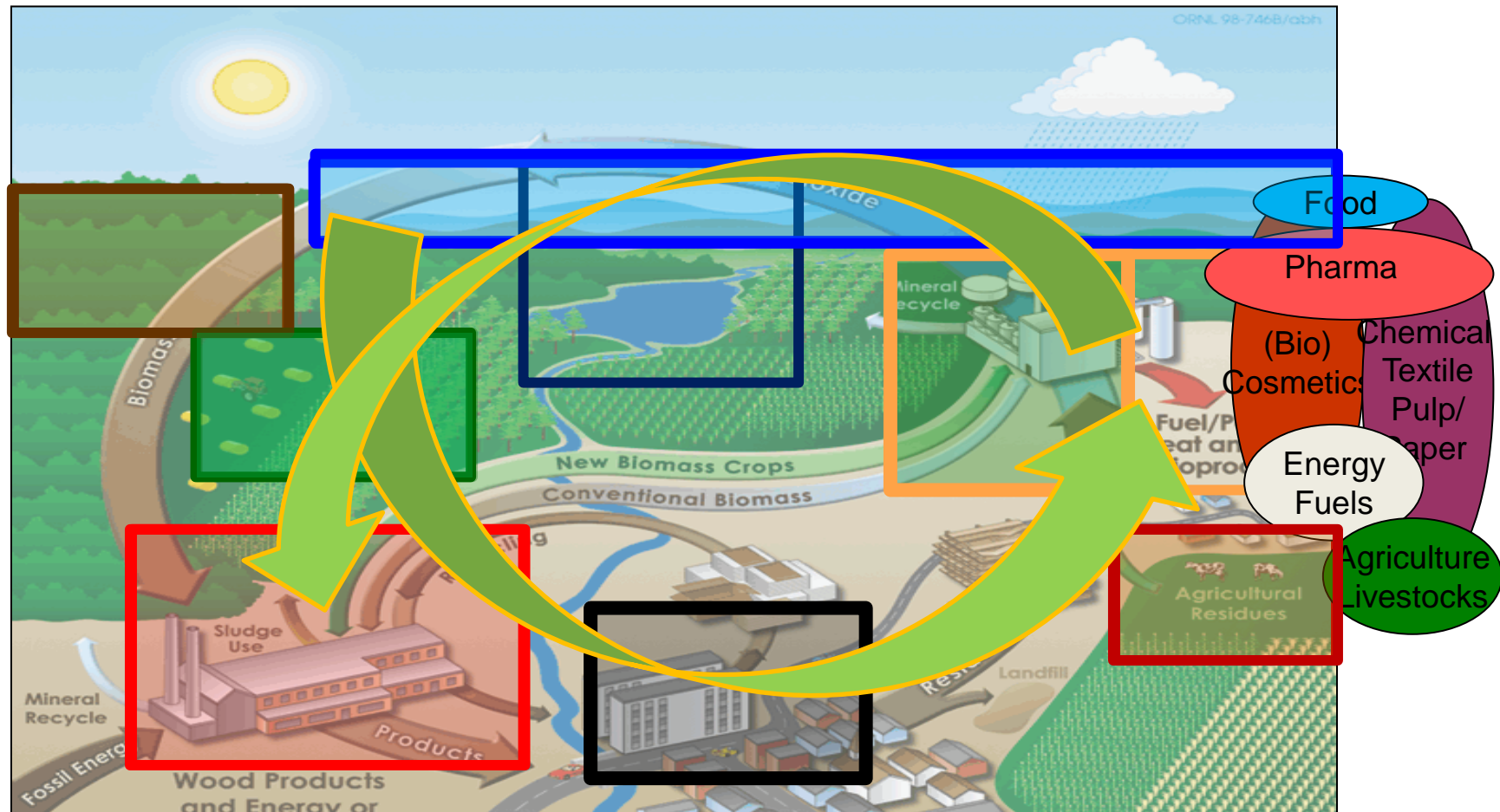


17 240 biogas plants in Europe(31/12/2014)

Total installed capacity of 8 293 MW_{el}



The European & Italian Bioeconomy

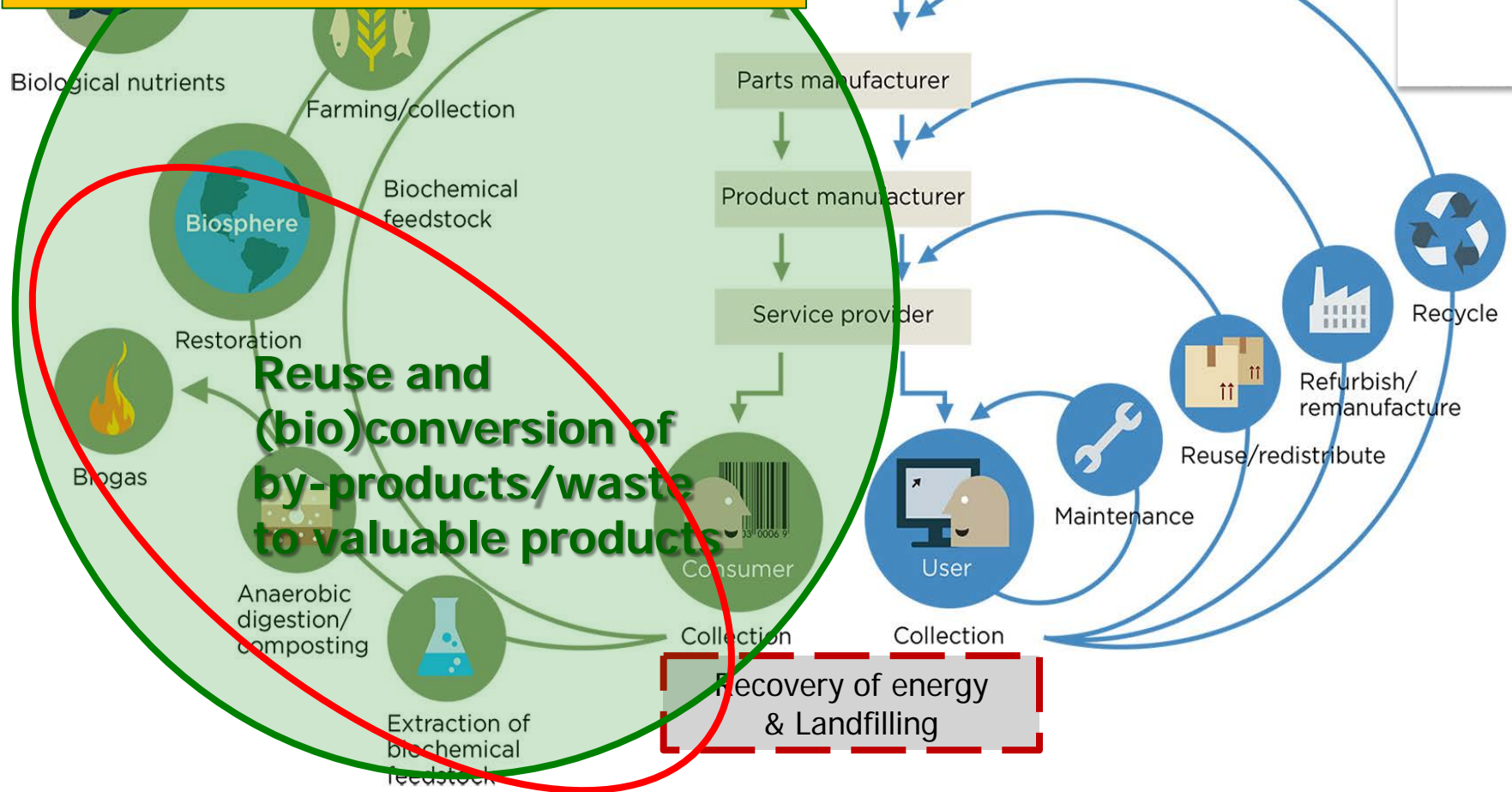


In Europe: about 2.000 Bil €/y and 20 Mil of jobs

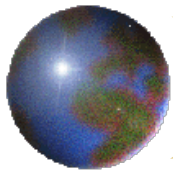
In Italy: about 255 Bil €/y and 1.7 Mil of jobs

Bioeconomy & Circular Economy

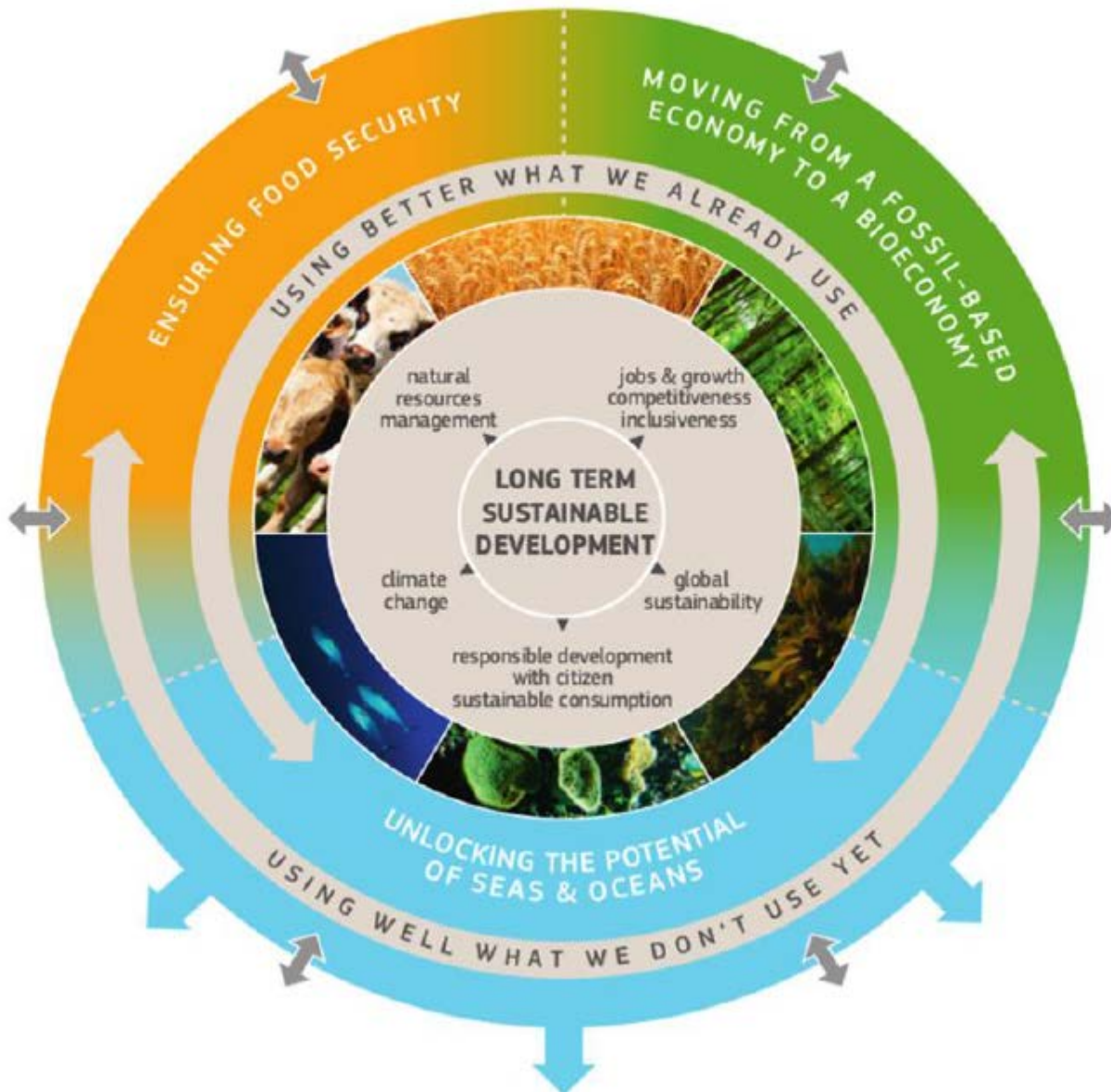
- Production of feedstocks;
- Socio-econ. growth in rural/costal areas;
- Regeneration of abandoned lands/sites



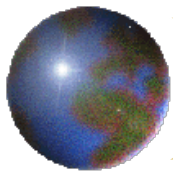
Parliament Resolution: Jul 9 2015; EU adoption of Circular Economy package: Dec 2, 2015
In EU by 2030: +30% resource saving; -50% CO₂ emission; +7% PIL; +2 M jobs



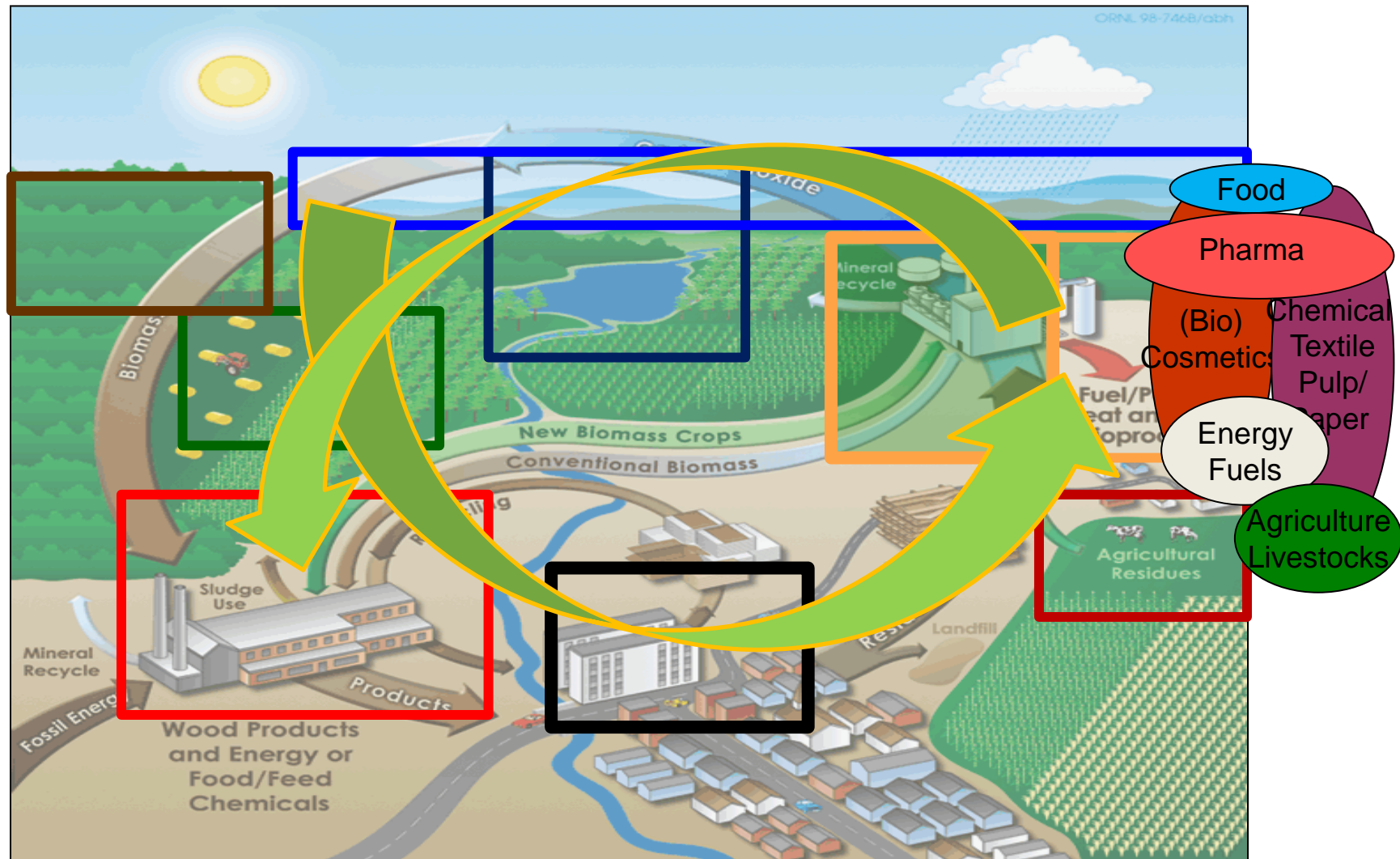
The European Bioeconomy Strategy (a) *(under revision)*



- Productive and resource-efficient primary production systems
- Sufficient supplies of safe and high quality food and bio-based products, including bioenergy
- Competitive and low carbon value chains.



The European Bioeconomy Strategy (b) *(under revision)*



In Europe: about 2.000 Bil €/y and 20 Mil of jobs

BIT

Bioeconomy in Italy

The Italian Bioeconomy strategy (*under finalization*)

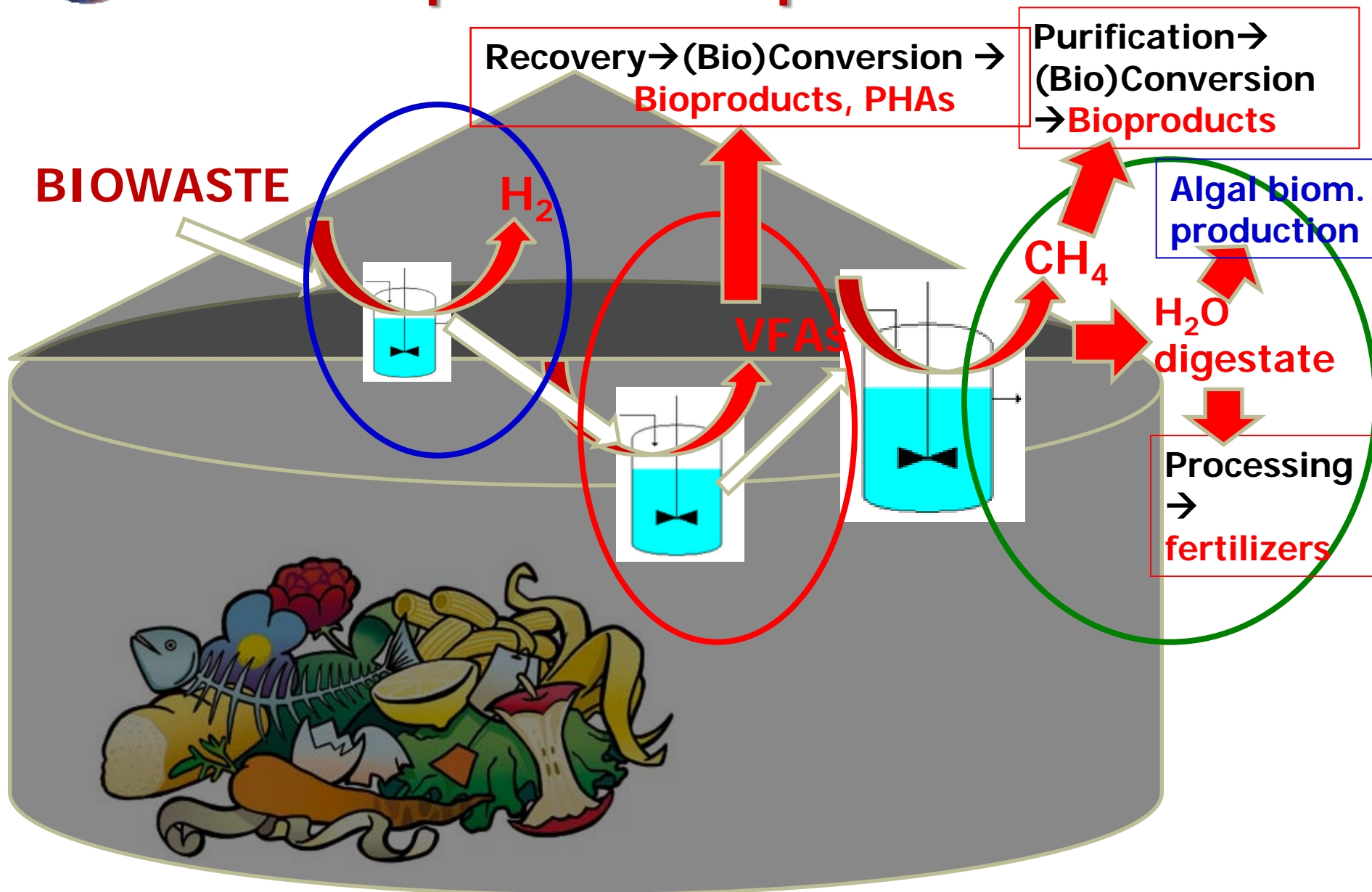
DRAFT AVAILABLE AT:

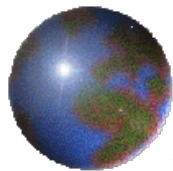
www.agenziacoessione.gov.it/it/Notizie_e_documenti/news/2016/novembre/Documento_0014



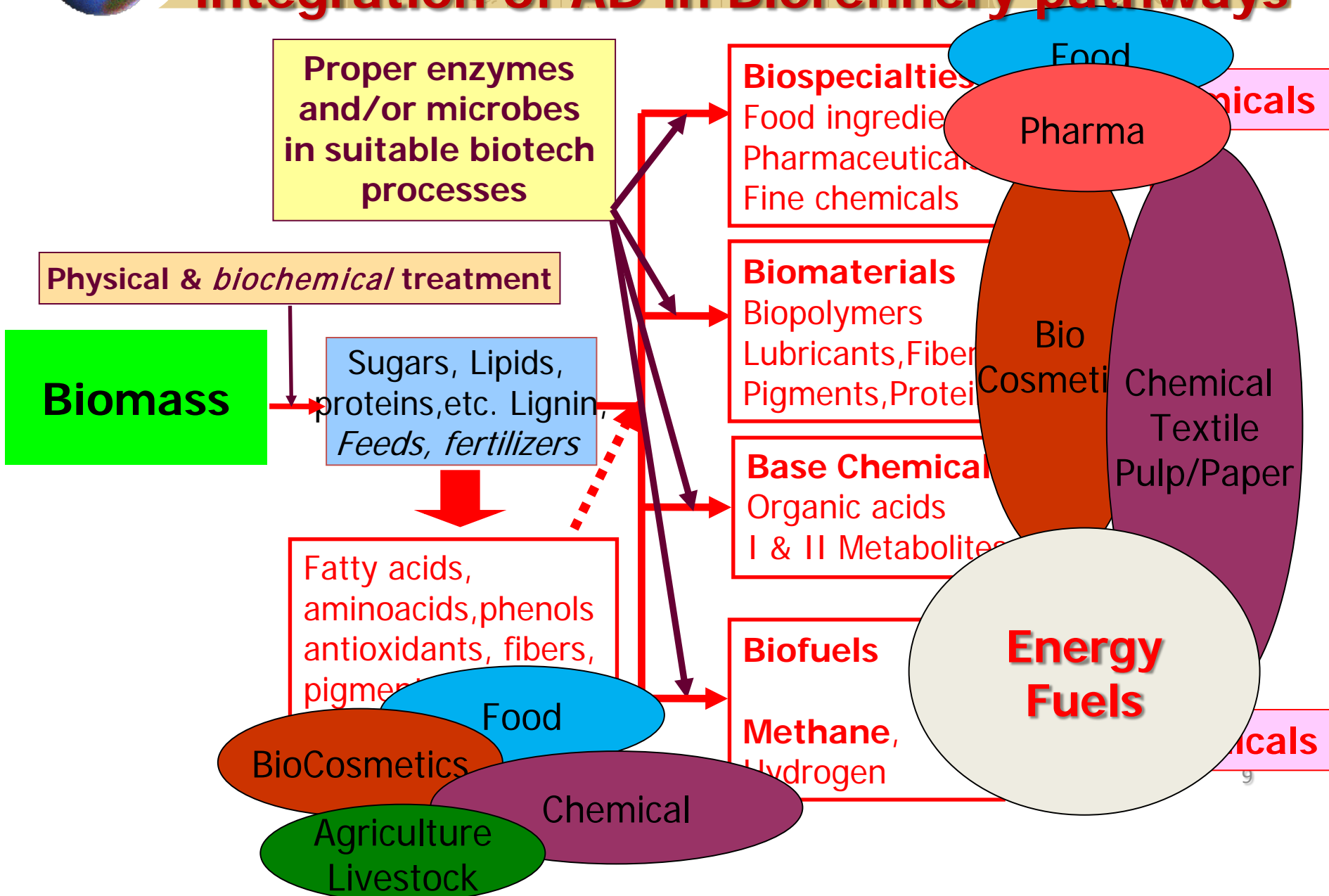
A unique opportunity to reconnect
ECONOMY, SOCIETY
and the **ENVIRONMENT**

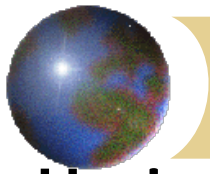
- a) Improve sustainably the productivity and quality of products of each of bioeconomy sectors and sectors interconnection with the creation of longer, locally routed value chains;
- b) Exploit national terrestrial/marine biodiversity, ecosystem services and circularity, and regenerate abandoned/marginal lands;
- c) Create: i) a wider and more coherent political commitment, ii) more investments in R&I, spin off/start up, education, training, communication, iii) a better coordination between regional, national and EU stakeholders/policies, iv) a better engagement of a public dialogue, and v) tailored market development actions.





Biomethane opportunities: better integration of AD in Biorefinery pathways





Horizon2020 & BioBased Industry

Horizon2020, the EU Commission research and innovation funding programme (~79 Billion, 2014-2020)

Excellent Science

- *European Research Council*
- *Future and Emerging Technologies*
- *Marie Curie Actions*
- *Research Infrastructure*

Industrial Leadership

- *Leadership in enabling and industrial technologies (NMPB)*
- *Access to risk finance*
- *Innovation in SMEs*

Societal Challenges

1. *Health, demographic change and wellbeing*
2. *Food security, sustainable agriculture, marine and maritime research & bioeconomy*
3. *Secure, clean and efficient energy*
4. *Smart, green and integrated transport*
5. *Climate action, resource efficiency and raw materials*
6. *Inclusive, innovative and reflecting societies*
7. *Secure societies*

A Public-Private Partnership on Bio-Based Industries



Realising the European Bio-economy Potential

**€ 3.7 Billion (75% private)
2014-2020**

WP2017, € 81 M. Deadline: Sept 7, 2017
http://www.bbi-europe.eu/sites/default/files/awp_

Supported by



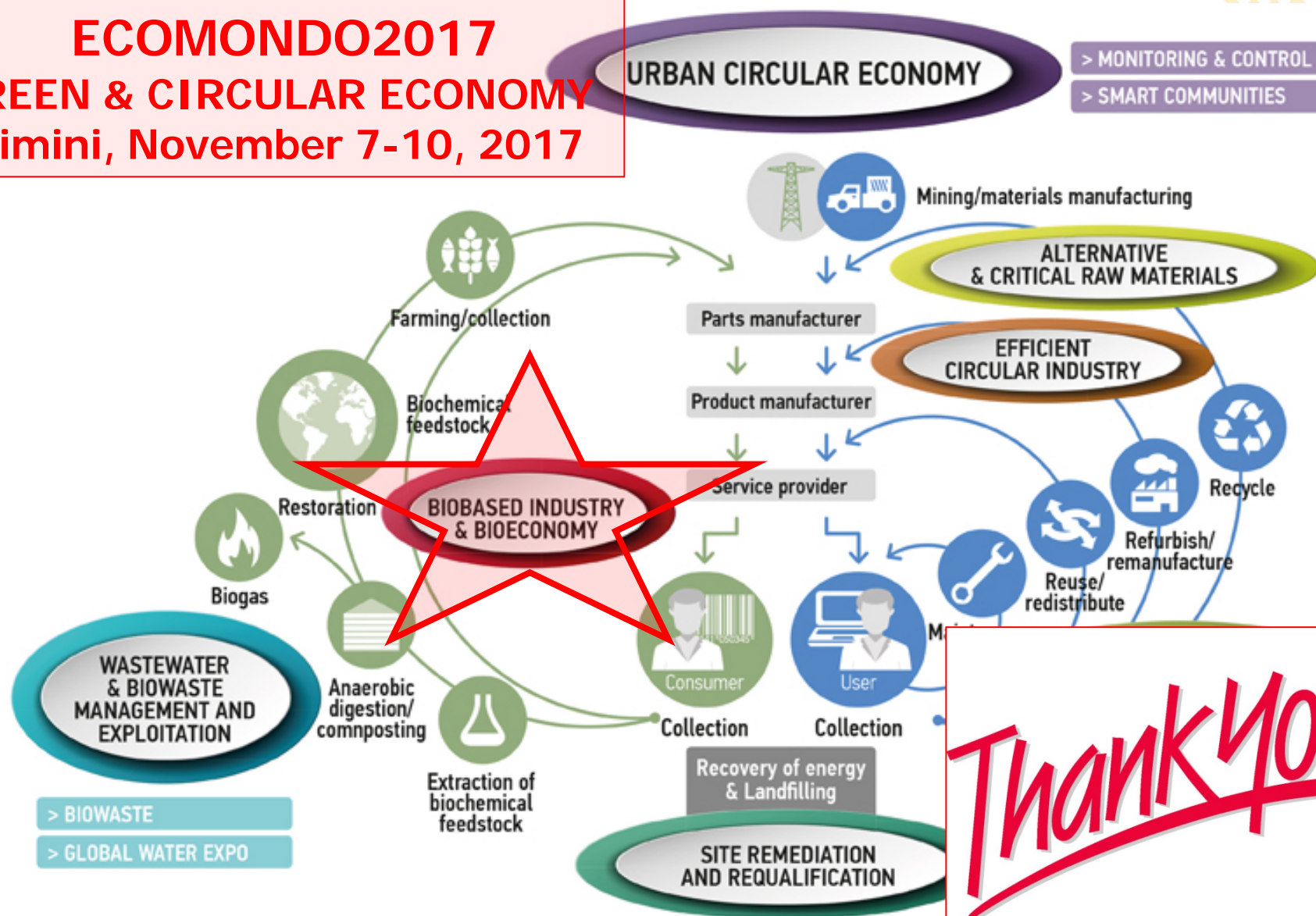
<http://www.bbi-europe.eu/>

 **Bio-based Industries
Consortium**

ECOMONDO2017

GREEN & CIRCULAR ECONOMY

Rimini, November 7-10, 2017



Thank You!