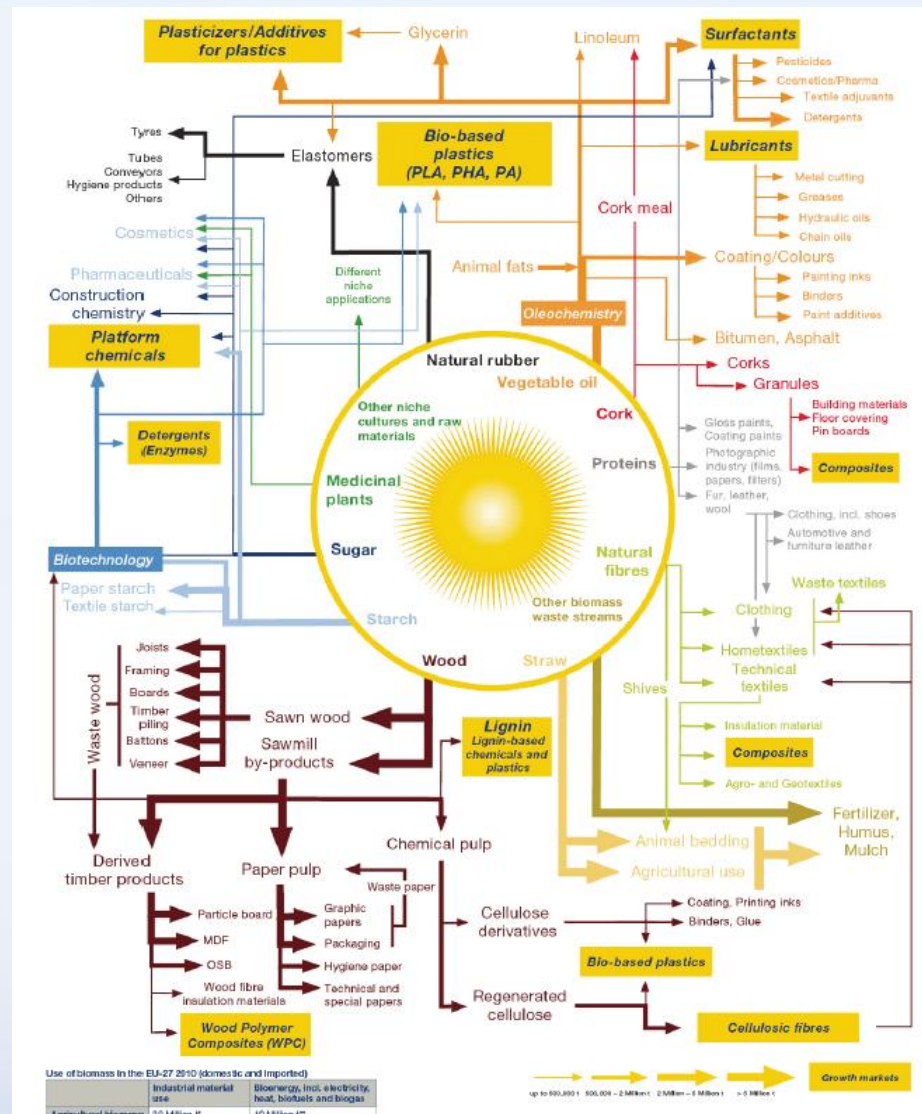


Green chemistry clusters: Key ingredients

**Daniele Colombo
Lombardy Green Chemistry Association**



What's the bio-economy?



Source: Nova Institut, 2012



**This is a
chemical cluster**



Source: Port of Antwerp

**This is also a
chemical cluster,
but it's green**



Source: BIC SIRA



Something about Lombardy

Robust research infrastructure

(14 universities, 12 CNR Institutes, 10 centres of excellence promoted by the Region)

Italian manufacturing stronghold

(25% of national sectoral employment)

High diversification of downstream industries

Largest agricultural region in Italy

(986.853ha Usable Agricultural Area, 7,7% of national UAA)

First chemical region in Europe

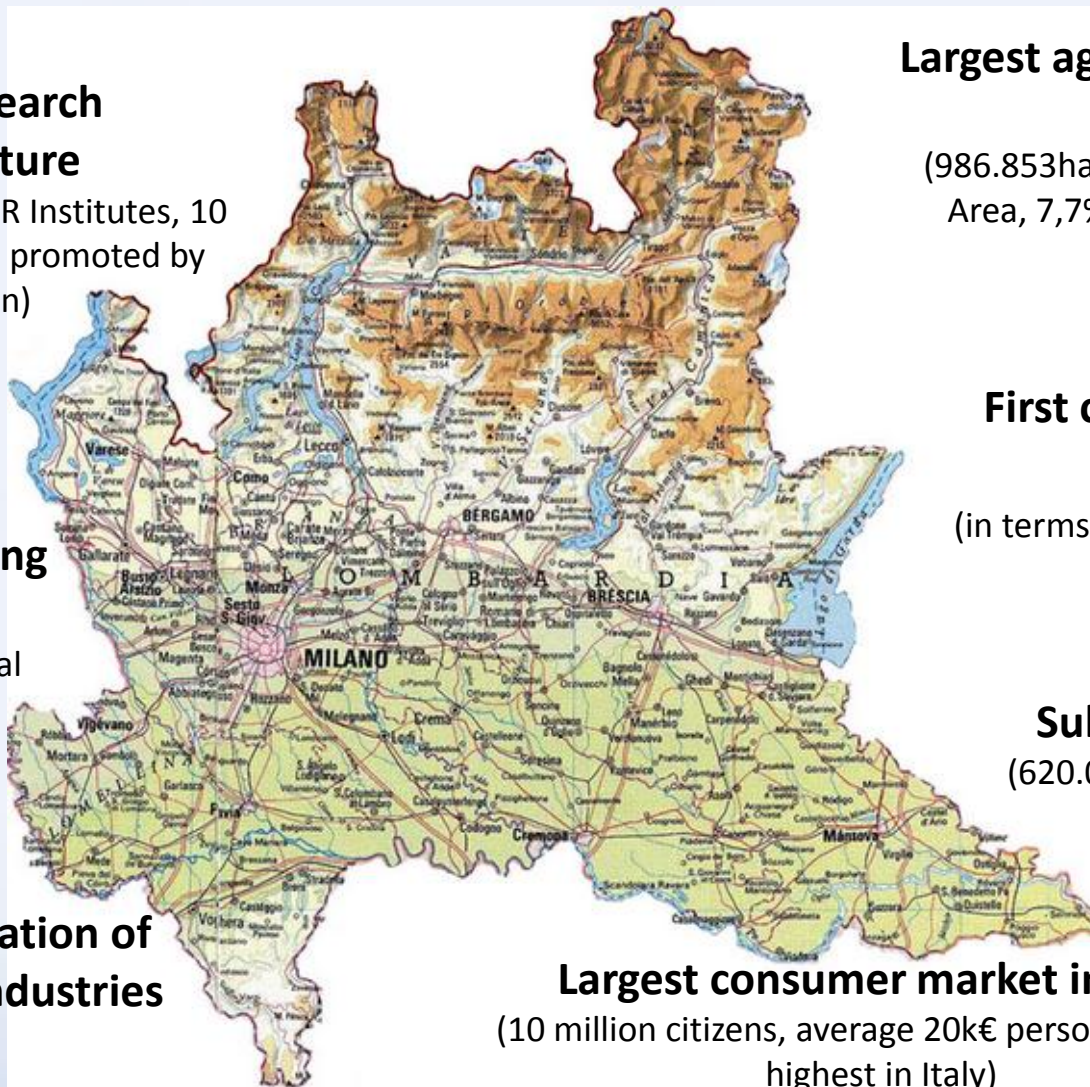
(in terms of number of employees)

Substantial forests

(620.000ha, 26% of regional territory)

Largest consumer market in Italy

(10 million citizens, average 20k€ personal income, highest in Italy)



The missing ingredient?



Networking!



The Green Chemistry Cluster



The Green Chemistry Cluster

Mission

To create the most favourable conditions for the development of the bio-economy in Lombardy

Goals

- to aggregate along the value chain(s) all relevant players, enterprises first
- to support regional authorities in the definition of bio-economy friendly policies and their implementation
- to become the link between the Lombardy bio-economy system and foreign partners

Founders

- Innovhub-SSI – Innovation Agency of the Chamber of Commerce of Milan
- Italtotec – Industrial Biotechnology Consotium
- Polytechnic of Milan – Faculty of Chemistry
- University of Milan – Faculty of Agricultural Sciences

www.chimicaverdelombardia.it

