

**CELLS**  
**Circular Economy Lab**  
**for Life Sciences**  
**Activities & Thesis Projects**

# Activities

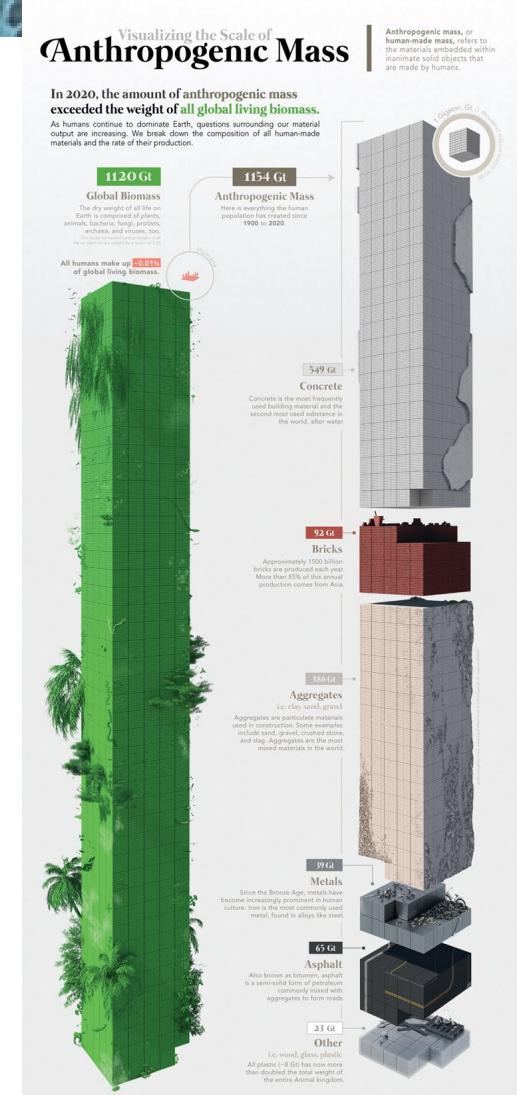
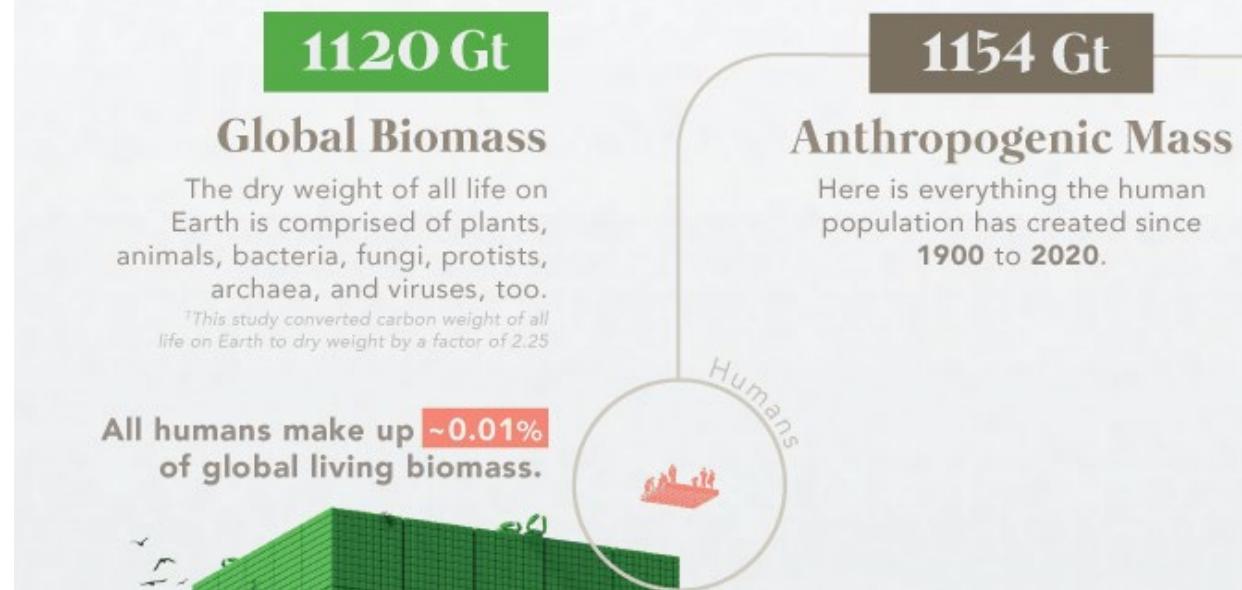
- Extraction
- Functionalization and analysis
- Shaping

**Of bio-based materials produced in different industrial side-streams**

# WHY?

## In 2020, the amount of anthropogenic mass exceeded the weight of all global living biomass.

As humans continue to dominate Earth, questions surrounding our material output are increasing. We break down the composition of all human-made materials and the rate of their production.



# CELLS the equipments



Spray dryer



SEM



Granulometer



Electrospinning machine

# Team



Simone Vesentini



Rony Aad



Ivana Dragojlov

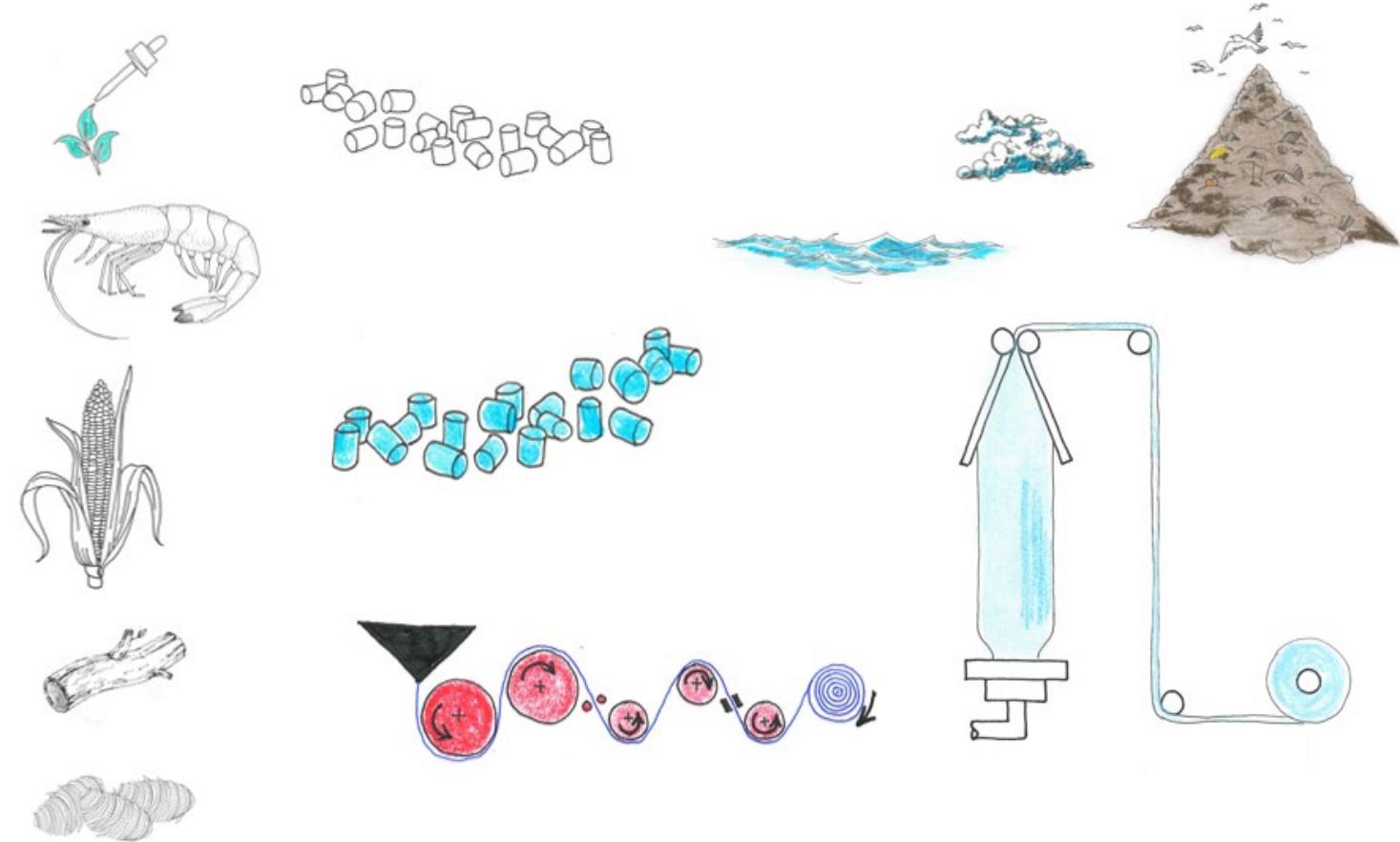
# THEMES



Reuse of industry by-products

## Activities

- Green degumming procedures
- Silk candy
- Sericin-Chitosan blends
- Sericin-Zein blends
- Sericin- Lignin blends



Contacts:

Simone.vesentini@polimi.it