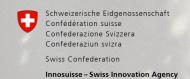
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# 

Mining tomorrow's Chemistry









## **Today**

Carbon is in almost every product around us.

Today, these products are derived from:

- ° Crude oil (majority)
- ° Edible biomass (minority)

In other words, there is **NO sustainable solution** for the most important chemical pillar of our society.



#### **Tomorrow**

Non-edible biomass (e.g. agroforestry waste) is an abundant source of carbon.

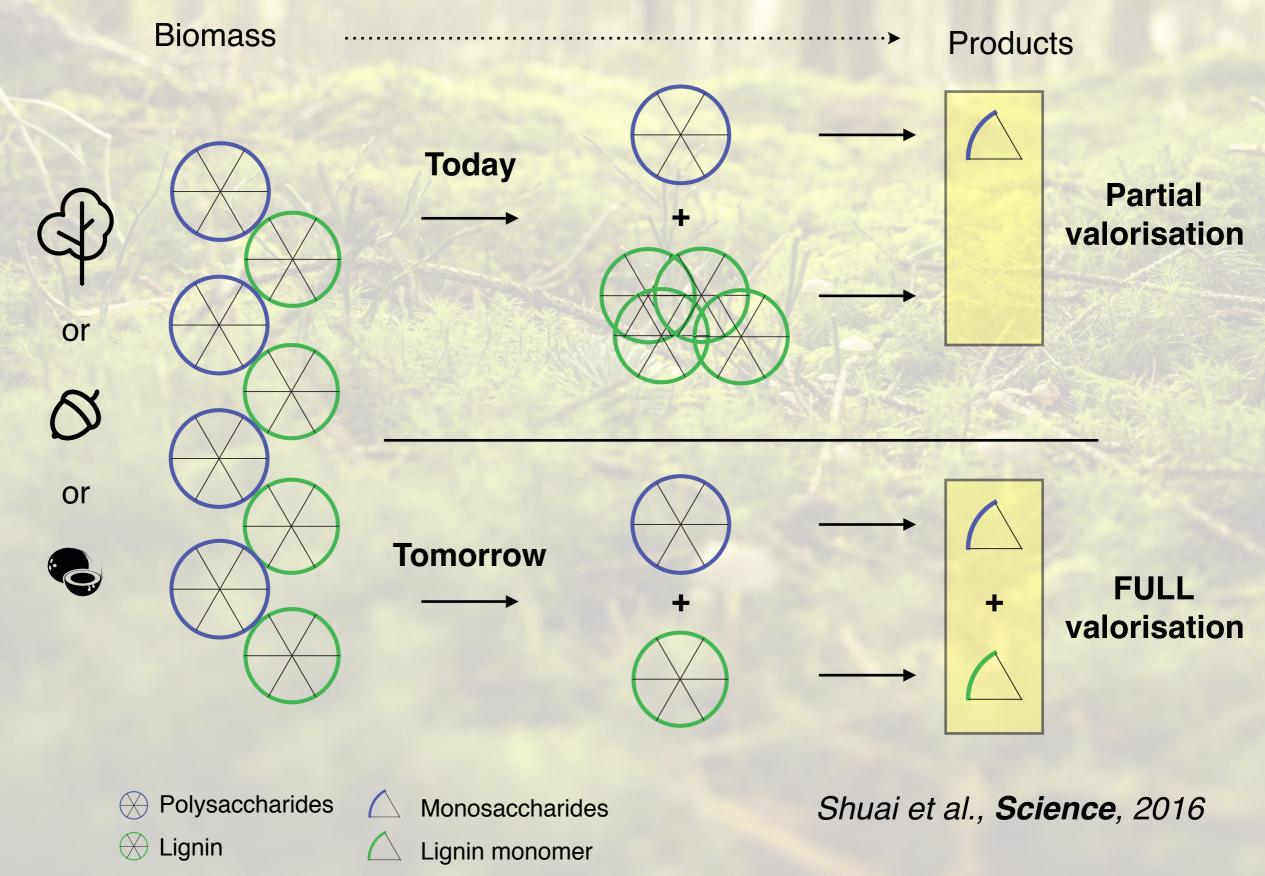
Yet, its utilisation is **not cost-competitive** due to the **lack of efficiency** of traditional valorisation processes.

#### **Bloom's Vision**

Bloom has developed the most efficient process to mine biochemicals in plant material.



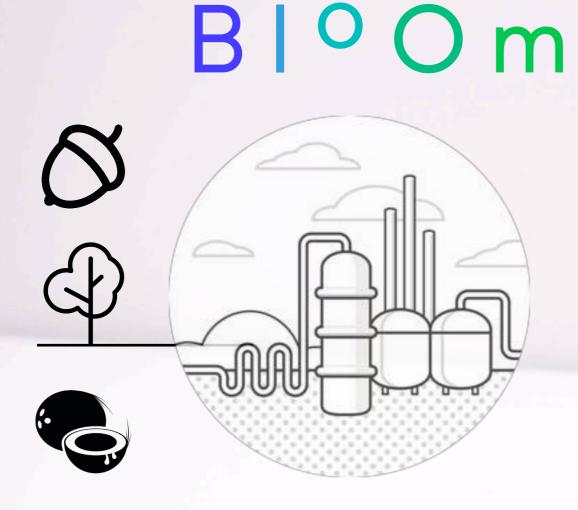
## Solution



## Value proposition

Potential application

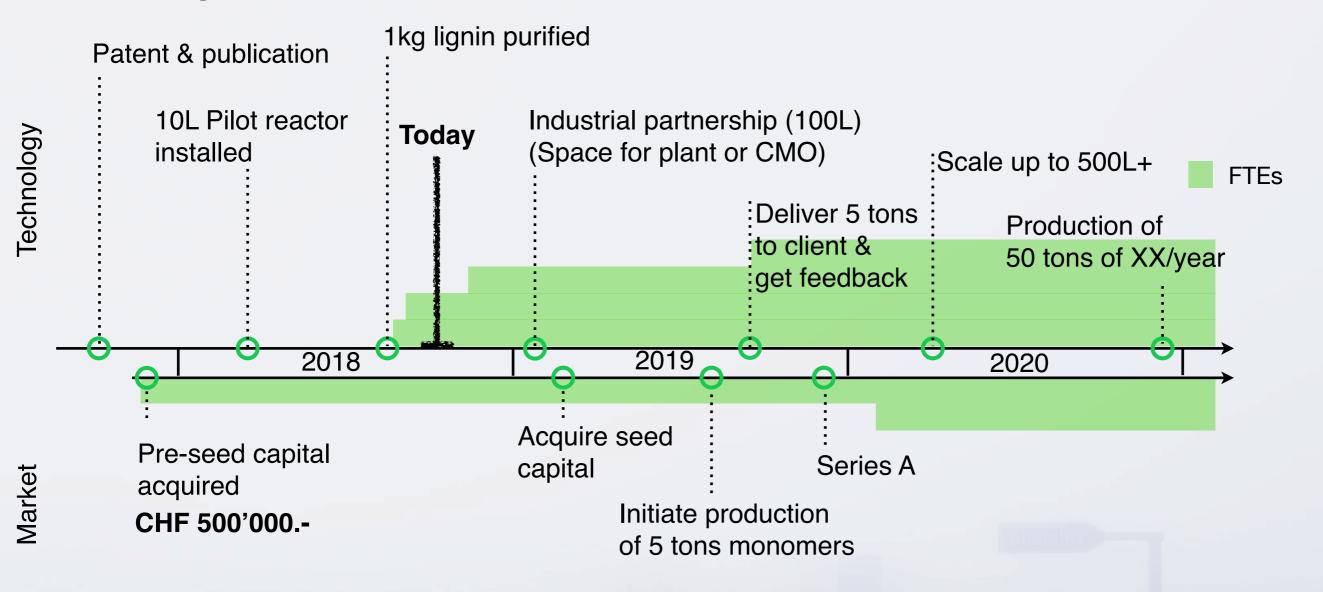
## Fragrance molecules



Cost-competitive Constant supply



### Roadmap





#### Next key milestones

- ° Establish collaboration with production partner
- ° Seed funding for pilot-scale production (CHF 0.5 mio)
- ° Deliver 5 tons of product to confirmed customer
- ° Series A funding of CHF 15 million for industrial plant
- ° Produce 50 tons of product/year

#### **Team**

## Executive



Dr. Remy Buser CEO & co-founder



Dr. Florent Héroguel COO & co-founder



Chloé Wegmann Lab head



Jean Behaghel CSO





Prof. Luterbacher EPFL - catalytic valorisation co-founder



Dr. Martin Riediker **Director Innosuisse** Ex-Ciba



Matthias Waehren Mentor Ex-CFO Givaudan

#### Main needs for collaborations

#### What can we provide:

- ° State-of-the-art technology to valorise biomass
- ° Solid network in the field of lignin valorisation
- ° Experienced and dedicated team
- ° Connection to Swiss actors of the chemical industry

#### What we are expecting:

- ° Access to chemical equipment for the scale-up 500L+
- ° Take part in a consortium to integrate our process into a more complete structure with different partners
- ° Network of investors in the bio-based industry and circular economy
- ° Regional support to build a pilot plant
- ° International visibility

Contact us!
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#### **Contact details**

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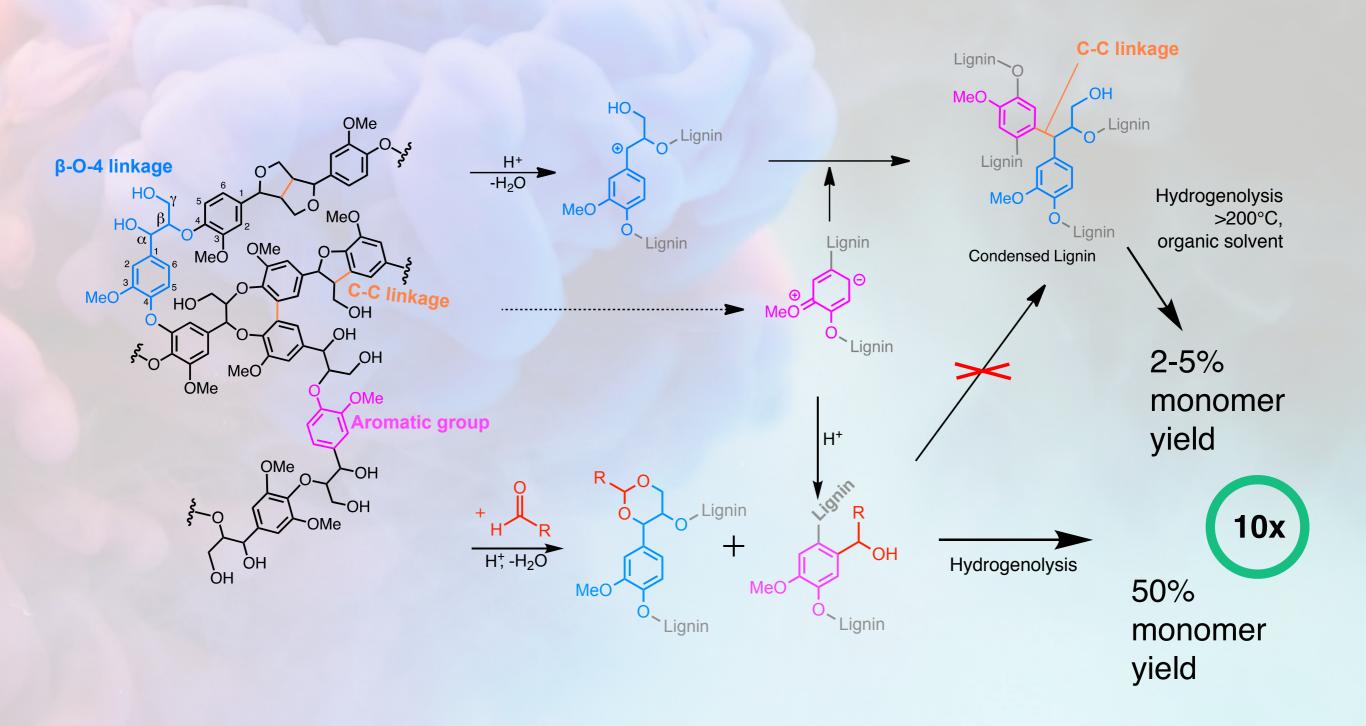
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### **Market potential**

#### A few example of fragrance markets







Global

CHF 395 million revenue in 2016 CAGR 8%

CHF 459 million in revenue in 2017 CAGR 6.2%

CHF 5 million revenue in 2017

Accessible

Synthetic vanillin CHF 10-20.-/kg CHF 5-10 millions

Synthetic eugenol CHF 10-20.-/kg
CHF 30 million

CHF <30.-/kg
CHF 1-2 millions
pre-order received

## **Growth potential**

The long-term vision is to enable the **first biorefinery** that fully valorises all fractions of biomass.



Polymers (bioplastics)



#### Global market sizes

CHF 1.4 billion revenue in 2016 CAGR 13%

CHF 21 billion revenue in 2017 CAGR 18.8%

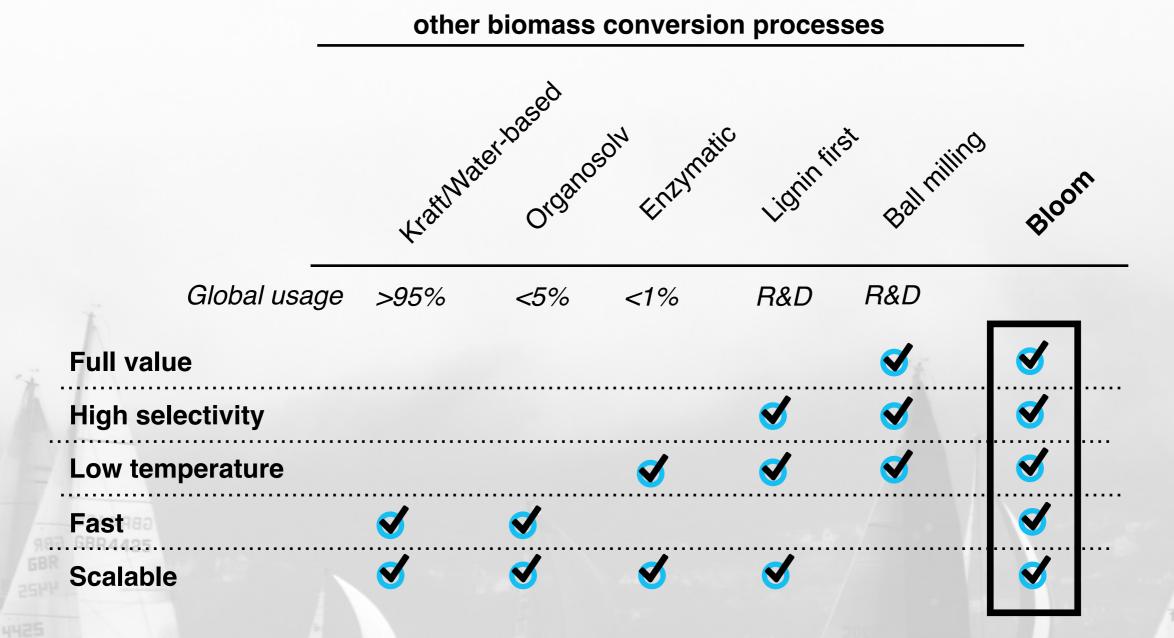
## **Technology IP**



The Bloom technology is internationally protected and we have a strong patent strategy in place (applications)

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## **Competition landscape**





Bloom leverages science to maximise impact.

Mantenha Sua Cidade Limpa

#### **Science**

Social

**Environmental** 

We generate more value from any type of lignocellulosic biomass and offer a unique solution of the increasing demand in bio-based materials.