



Bio Base Europe  
Pilot Plant

# Pilot and demonstration facility for scale-up of your innovation

Open access

from  
**Lab**



to  
**Fab**



FSSC 22000

Our website: [www.bbeu.org](http://www.bbeu.org)  
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Biomass pretreatment  
Biocatalysis



## Fermentation

- 25 glass reactors up to 10 L
- 27 Stainless steel bioreactors:  
8 x 30 L; 10 x 150 L;  
5 x 1.5 m<sup>3</sup>; 3 x 15 m<sup>3</sup>;  
1 x 75 m<sup>3</sup>
- Bacteria, yeast, fungi, microalgae, methanol feed, high oxygen transfer rate: at all scales!
- (Fed-)Batch & continuous fermentation



## Gas fermentation

- 4 x 1L;  
1 x 10 L;  
1 x 150 L
- Mobile pilot unit for gas fermentation



## Green chemistry

- ATEX reactors
- Up to 5 m<sup>3</sup>
- Solvent extraction

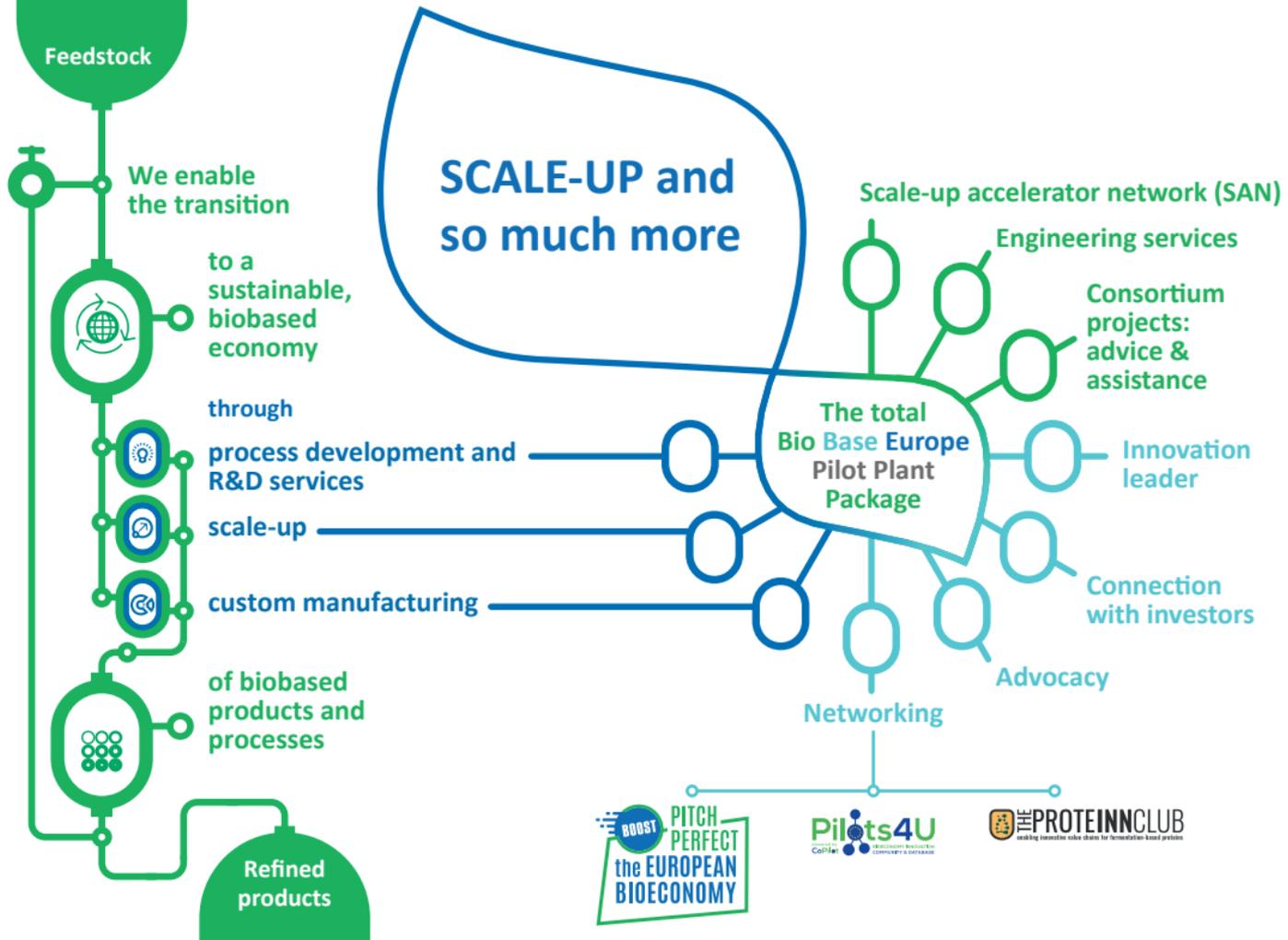


## Downstream purification

- Cell lysis
- Disc stack centrifuges
- Decanters
- Cross-flow filtration (MF, UF, NF)
- Ion exchange, chromatography
- Crystallisation, precipitation
- Solvent extraction (ATEX/ex-proof)
- Drying
- ...



Analytical lab: HPLC, UPLC, GC, Off-gas MS, Spectrophotometry, Assays ...



 **State-of-the-art infrastructure**

 **Expertise**

translates

**Laboratory scale processes**

into

**Industrially viable processes**

 **Ready to use**

 **Confidential**

 **Fee for service / public projects**

 **Multipurpose**

 **Process development**

 **Proof-of-Concept**

 **Scale-up and demonstration**

 **Custom manufacturing**



**save time & money**



**shorten the time to market**



**lower the financial risk**