





Bioprocessing



Downstream Processing

Cell disruption

- homogenisator

Solid-Liquid separation

- membrane filter press
- multiple centrifuges
- membrane filtration

Bioconversions

-60 l - 4 m³ vessels

Purification

- extraction
- UF/MF filtration
- chromatography

Electro dialysis

Concentration

- evaporation

Crystallization

Distillation

Drying

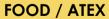
- bolz dryer
- spraydryer
- fluid-bed
- double cone
- ventilation
- vacuum plate

Formulation

- mixing
- sieving
- milling

Third party

unit operations











High flexibility

Batch or continuous









BPF knows the business...

Number of hours FERM:

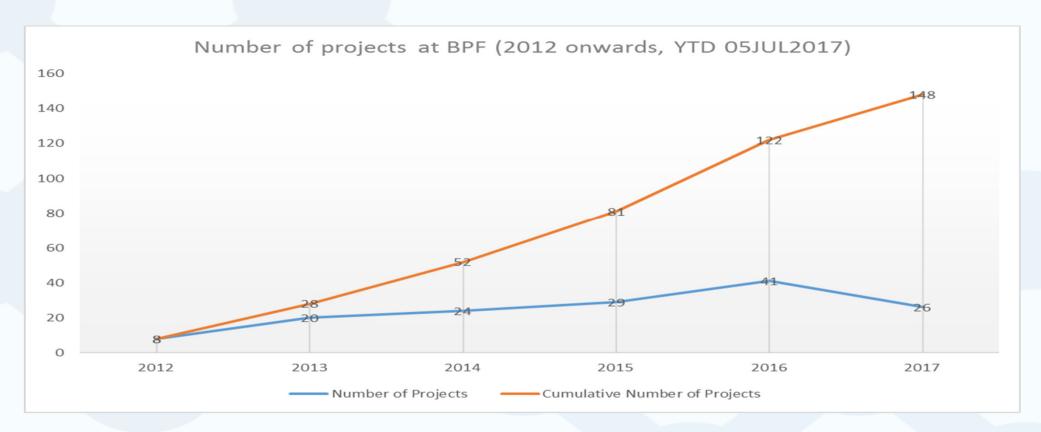
Number of hours DSP:

Number of hours PT&H:

Number of hours Food:

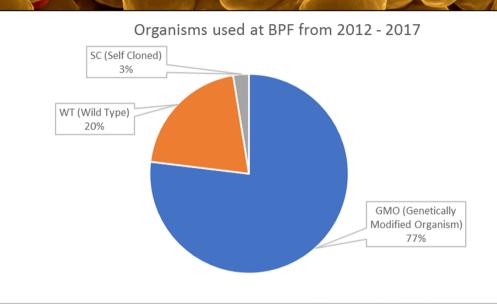


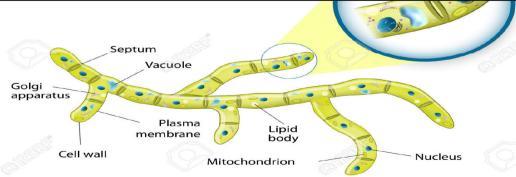
...and the business knows BPF

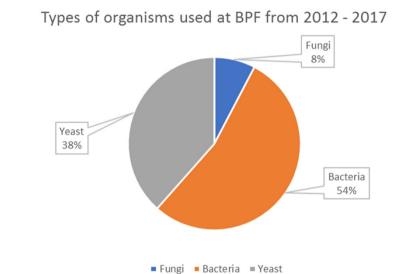




BPF has the licenses in place...









Track record

Customer base

- Young company
- Longstanding industrial experience
- Open access
- Growing customer base

Enablers

- Confidentiality
- IP remains with client



Trackrecord with startup's, SME's and corporates for wide range of applications (permission to be named)





And a Team that makes the difference





Summary

BPF is a truly multi-purpose pilot facility

Open access Confidential IP remains with client

technologies and unit operations

of scale,

(covering full supply chain from large variety biomasses to end product)

Large variety

Long-standing historical track record in bioprocess piloting

(Fermentation & DSP)



Hands-on, professional know-how and scaling up and scaling down experience of bio-processes



160

with GMP- and food quality regimes, resulting in reliable engineering as well as process/product data



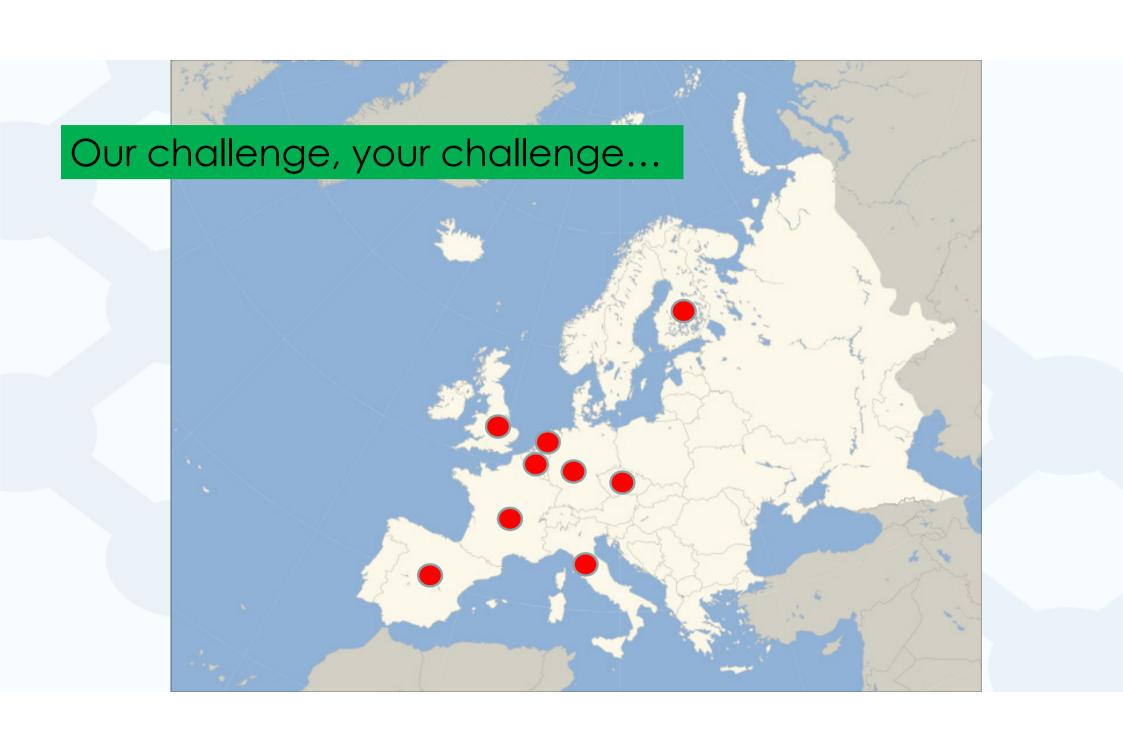
Biotech Campus Delft:

Perfect embedding in a strong knowledge infrastructure and perfect fit with regional developments

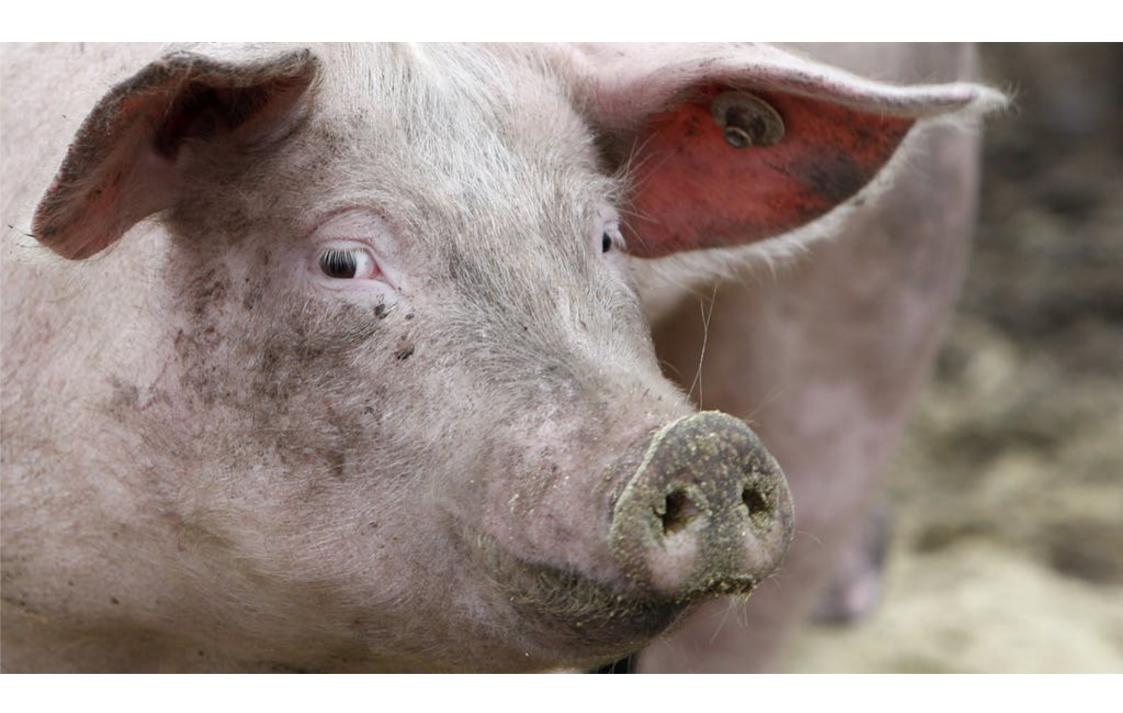
Benefits of scaling up / piloting at BPF

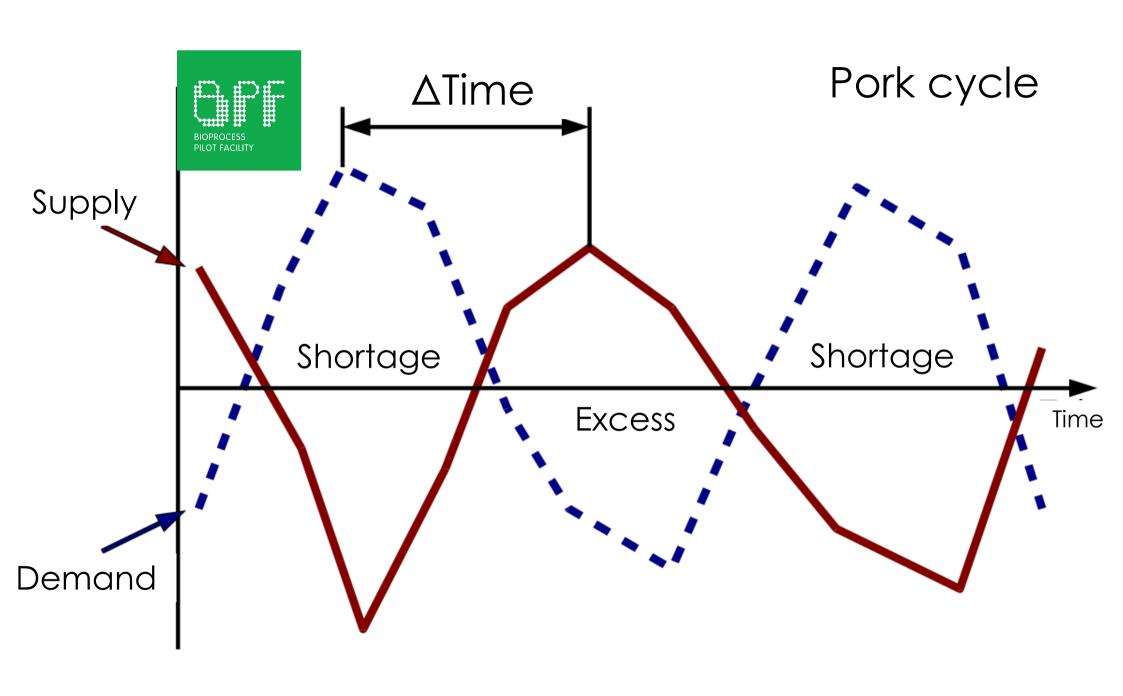
- Industrial scale knowledge
- Extensive and hands-on experience with multiple products and processes
- · High flexibility in equipment

The Future



So, what's the challenge?

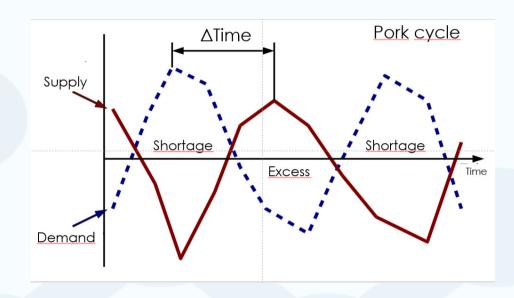




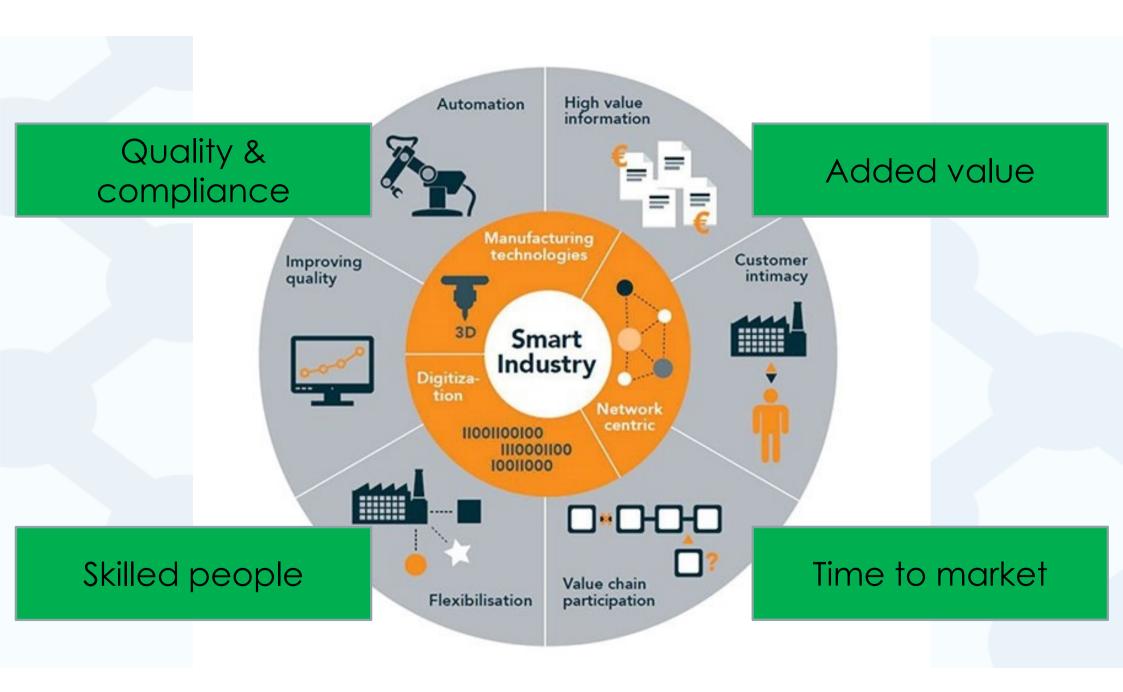


What will be the impact?

- Not only CAPEX.
- You need skilled people with a broad experience.
- There needs to be market potential to have a 'sound P&L'.



• So, we have to be smart!





Our challenge, your challenge...

 Smart Industries require → Smart Pilots require → Pilot Smart!

• Align capabilities.

Healthy competition.



Together for the future... Smart...

...workshop tomorrow.



Thank you!



BPF is a truly multi-purpose pilot facility



Backup



