



Felma

For sustainable protein production



**Analytical solution for protein
insect companies**



DeepTech



Pre-seed startup





Felma

For sustainable protein production

Sustainable protein source?



meat



egg



milk



soybean



plants



Sustainable protein source?



meat



egg



milk



soybean



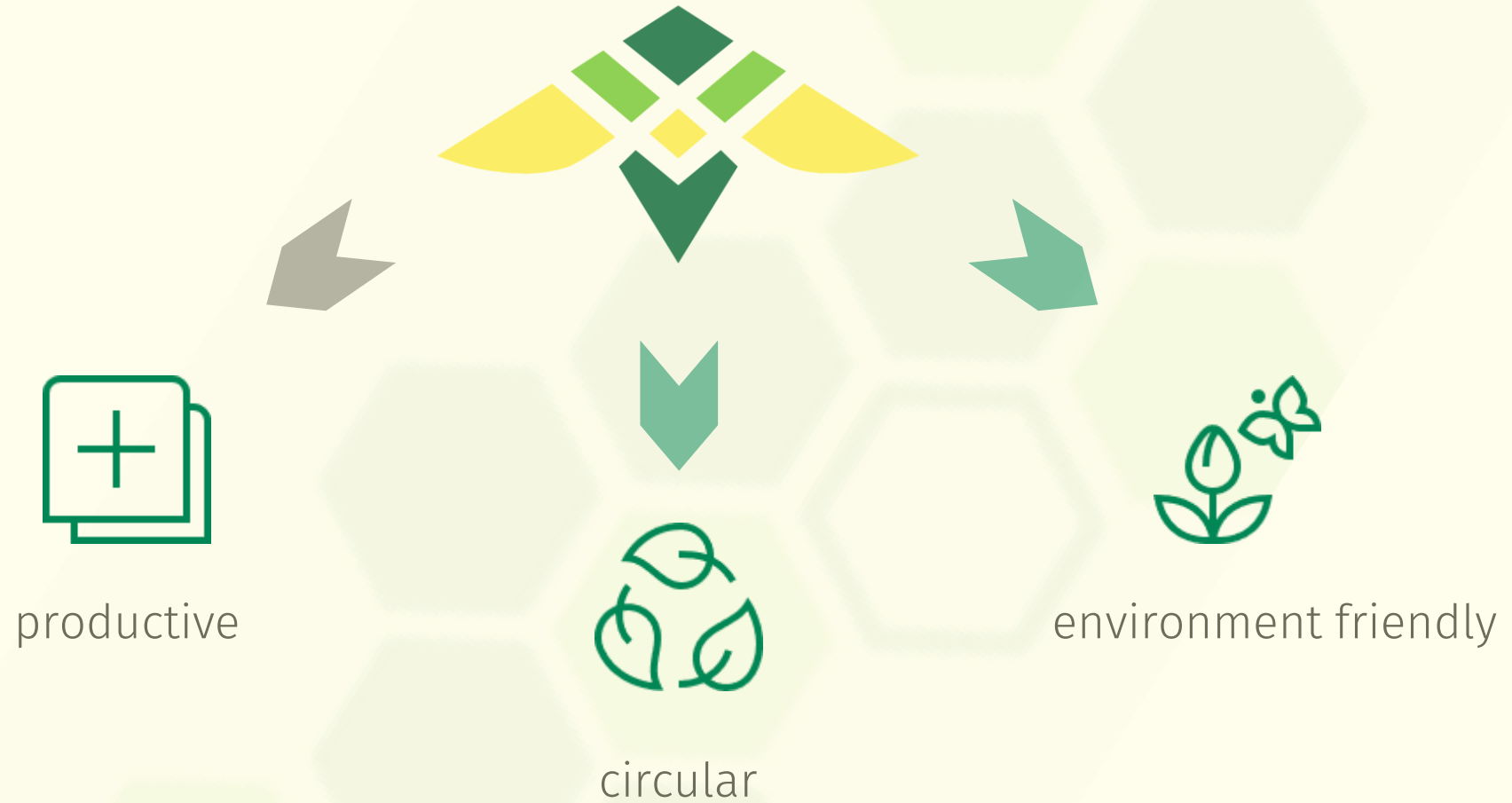
plants



insect



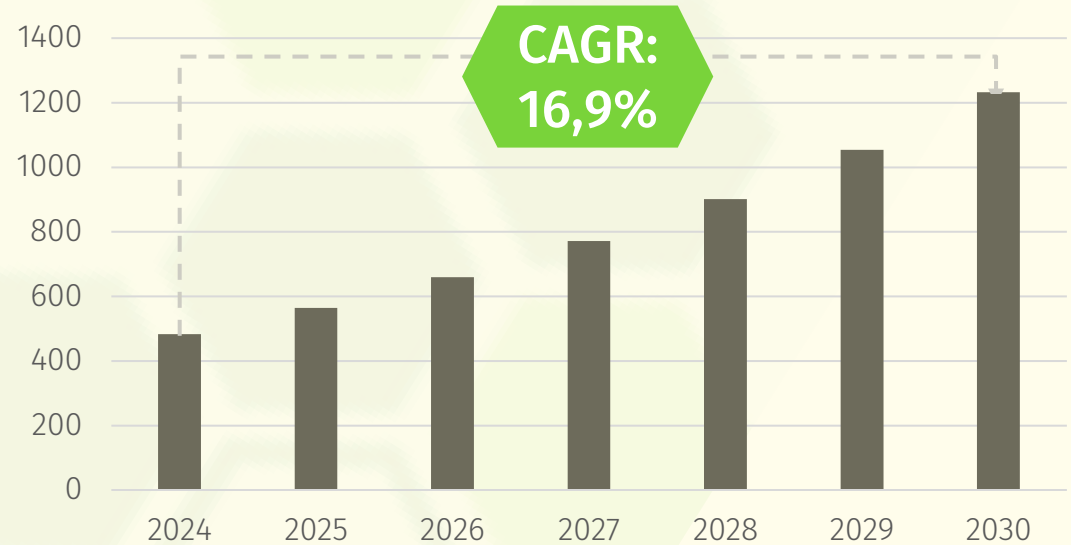
Insect protein:



The possibilities of a dynamically developing market:



Insect protein market analysis
(revenue estimation, 2027)



Insect protein market in the world
[M\$]

Major investors



Industrial purchasers



Feed



The quality assurance difficulties of insect protein production:



**Equipment
demand**



**Labor
demand**



Current methods



**Time
demand**



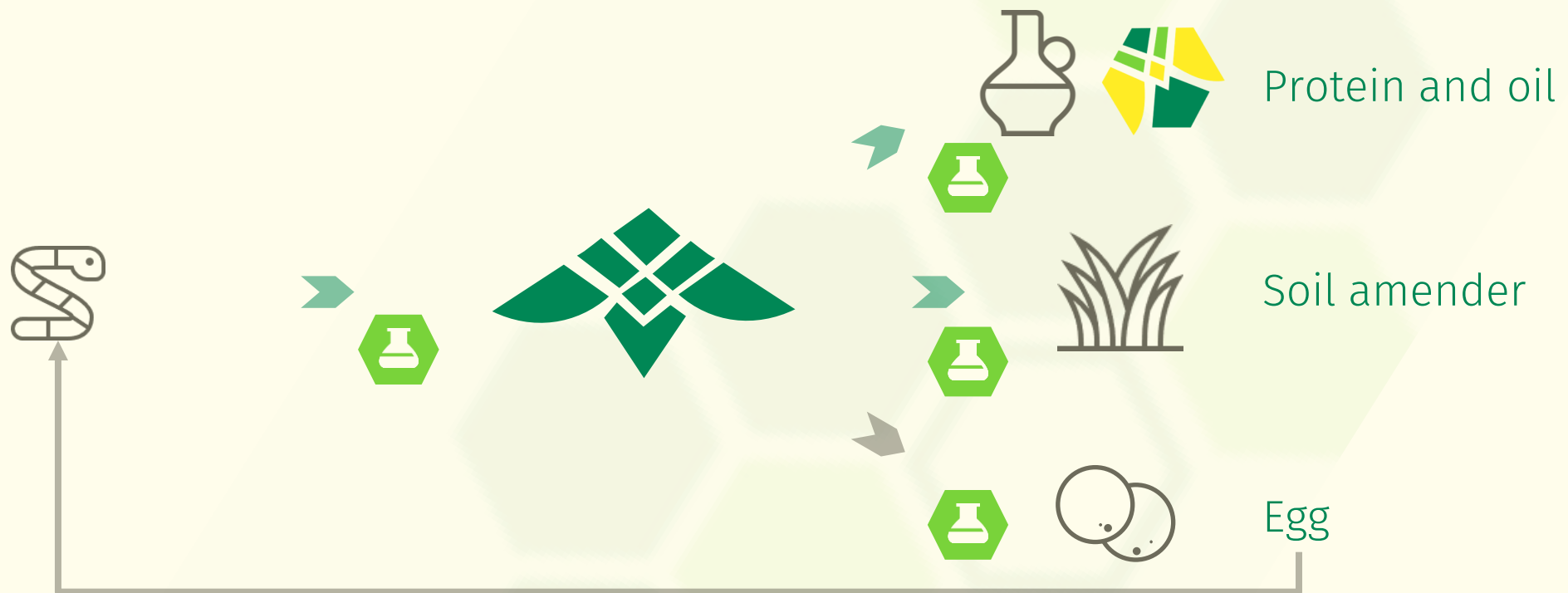
**High test
costs**



Necessary analytics for insect protein production must be developed!



Insect protein value chain:



Every step of the production requires special analytical solutions.



Our proposed analytical solution:

1



Product ingredients

-  DeepTech spectroscopy
-  Amino acid profiling
-  Integrated into continuous process operation

2



Safety




-  DeepTech metal-organic frameworks
-  Hazard assessment
-  Direct low concentration-high specificity solution

Execution plan

3

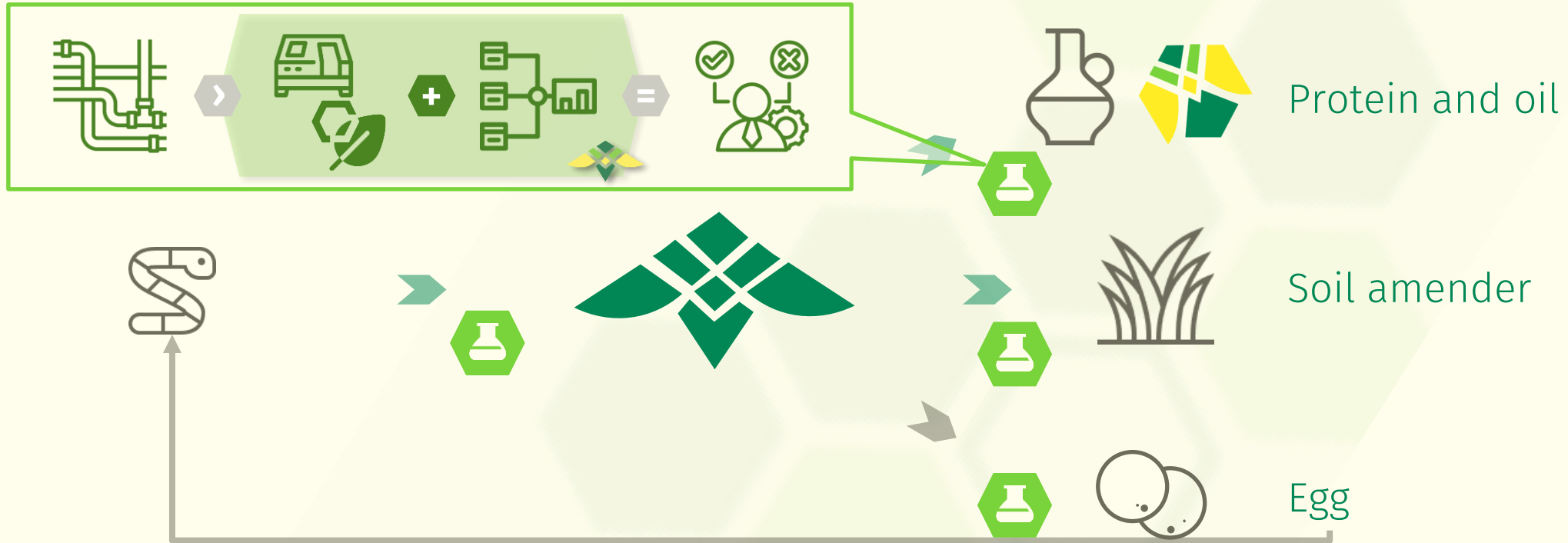


Decision support

-  Total autonomy
-  Actionable insights
-  More than statistics



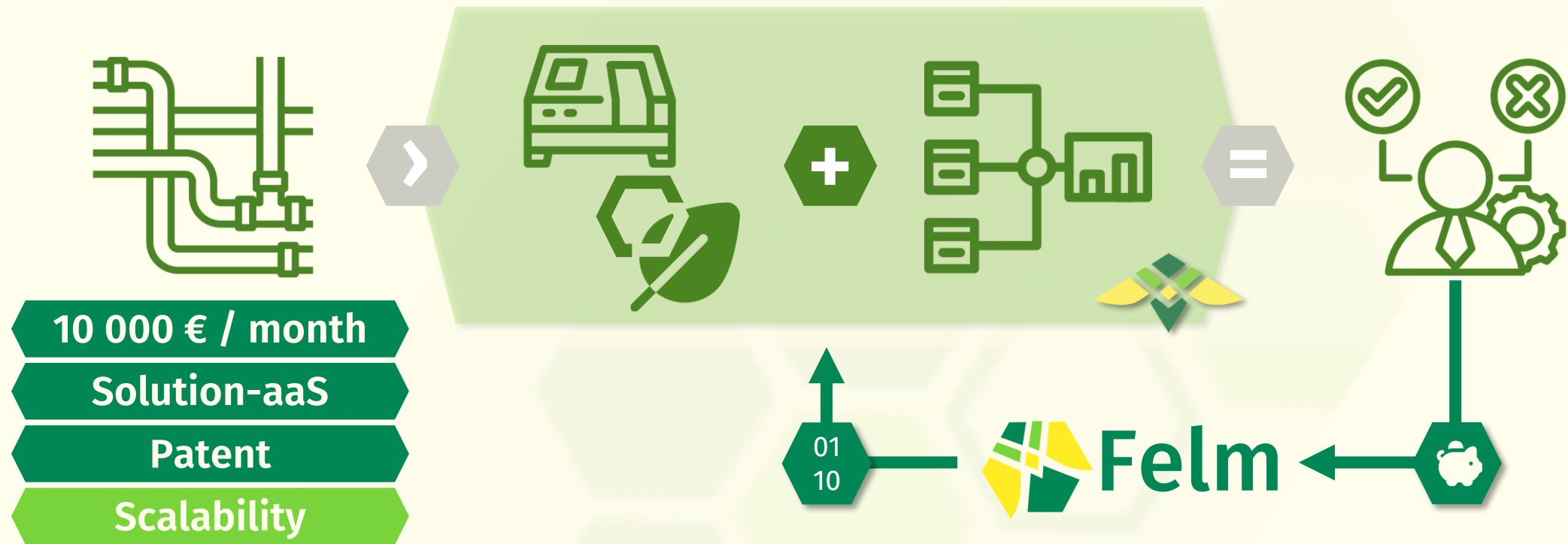
Felm-integration – example:



Every step of the production requires special analytical solutions.











Business model – outline:



 Every step of the production requires special analytical solutions



Competitors:

	 Felm	 BUHLER	 PROTENGA <small>MAKING INSECTS WORK FOR YOU</small>	ASPIRE
Automatised		✓	✓	(✓)
All types of pathogens		—	—	—
Protein quality examination		(✓)	—	—
Continuous operation		(✓)	—	—
Manufacturing technology		✓	✓	✓



The team of Felm:

Dániel Huszár

Finance +
Technology



co-CEO



Nikolett Madocsai-Tóth

Biology +
Technology



Eszter Morvay

Operation
+ Contact



co-CEO



Luca Honti

Sales +
Marketing



Miklós Murai

Analytics +
Technology



Technical and economic expertise



Market entry:



Impact + ESG – According to Impact 3.0 methodology

Impact goal

” Let’s help increase the recyclability of food waste by 20 times through insect protein. ”



2030



300 kt → 6000 kt

20x

Product sustainability

- Recycled components
- Repairable devices
- Retrofitting-first design & implementation
- Green chemistry principles
- Metal-organic frameworks in cycles

Circular

Main KPI-s

- Supported insect protein production [kg]
- CO₂ content [kg] of supported recyclable food waste
- Substituted feed crop yielding land [ha]
- Substituted inputs

Measurability

Product impact

- | | |
|-----------------------------|-----------------------------|
| Recycling 10% of food waste | 25 Mt CO ₂ /year |
| | |
| 1,6% (EU-agrar) | 12-14 kg/person/year |

Impactful

