



CONFIDENCE BUILT  
ON **EXPERIENCE**



**LUÍS COSTA**  
Executive Board Member

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Key messages from BIC members:  
A4F & Biotrend

CBE JU Info Day Portugal  
Palmela, 22<sup>nd</sup> May 2024

The A4F Group of companies provides services in the **microalgae, macroalgae, fermentation and biorefinery sectors, specializing in the development of bioprocesses and in the design–build–operate–transfer (DBOT) of commercial scale algae production facilities.**



Marine and aquatic biomass sector  
Production and Biorefining

**biotrend**

Bioconversion and biotransformation  
of multiple biomass types and  
industrial side stream valorization

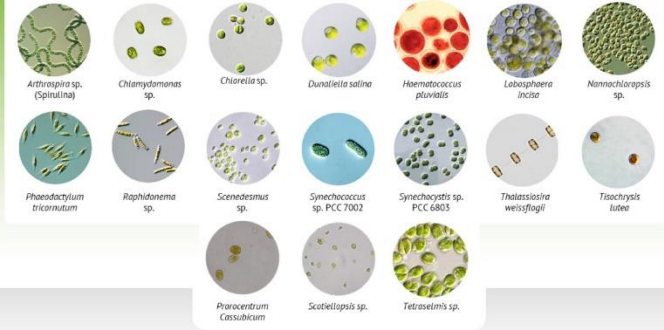
Leading companies in the national ranking for European innovation funding attraction, both in the Bioeconomy sector, and both BIC industry members.

## APPLIED R&D

### Applied R&D in Biotechnology



### Microalgae production expertise at pilot and industrial scale



## CONTRACT R&D TECHNOLOGY SUPPLY

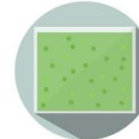
Lisbon Innovation Laboratory



Lisbon Experimental Unit



Tubular PBRs



Flat panel PBRs



Cascade Raceways



Raceways

## INDUSTRIAL PRODUCTION





## Process development and optimization

- Strategies aiming at maximizing productivities, yields and titers.
- Advanced process optimization.
- Integration with raw material pre-processing and downstream processing.



## Process scale-up, de-risking and validation

- 2L, 10L, 50L and 240L bioreactors available for thorough scale-up studies and process de-risking.
- Construction of facility with 1,000L and 10,000L.
- Connection to facilities with 1,000L to 200,000L fermentation capacity.



The Bio-based Industries Consortium (BIC) is a non-profit organisation connecting industry, academia, regions and citizens to transform bio-based feedstocks into novel sustainable products and applications, and create circular bioeconomy ecosystems through investments, innovation and know-how.

**290+** industry (full)  
members

large companies and SMEs

**230+** associate  
members

research organisations, academia and trade  
associations





Everything BIC does is geared towards making our members' bio-based businesses and innovations profitable and marketable. BIC's activities are divided into four pillars:

**1 CBE JU**

⑦ BIC represents the private sector in a public-private partnership with the European Commission called the Circular Bio-based Europe Joint Undertaking

**2 Business**

⑦ Facilitating connections and providing market intelligence through activities including networking events and commissioned reports/studies

**3 Finance**

⑦ Mobilising public and private finance and investors through services such as a regional funding platform and a pitching event

**4 Society**

⑦ Increasing awareness, knowledge, acceptance and education through activities such as a student competition (BISC-E) and positive impact stories on the BIC Investment Portal



BIC also carries out specific activities to achieve a favourable policy, regulatory and financing framework for the bio-based industries, such as representing our members interest vis-à-vis the EU Institutions.

More info:

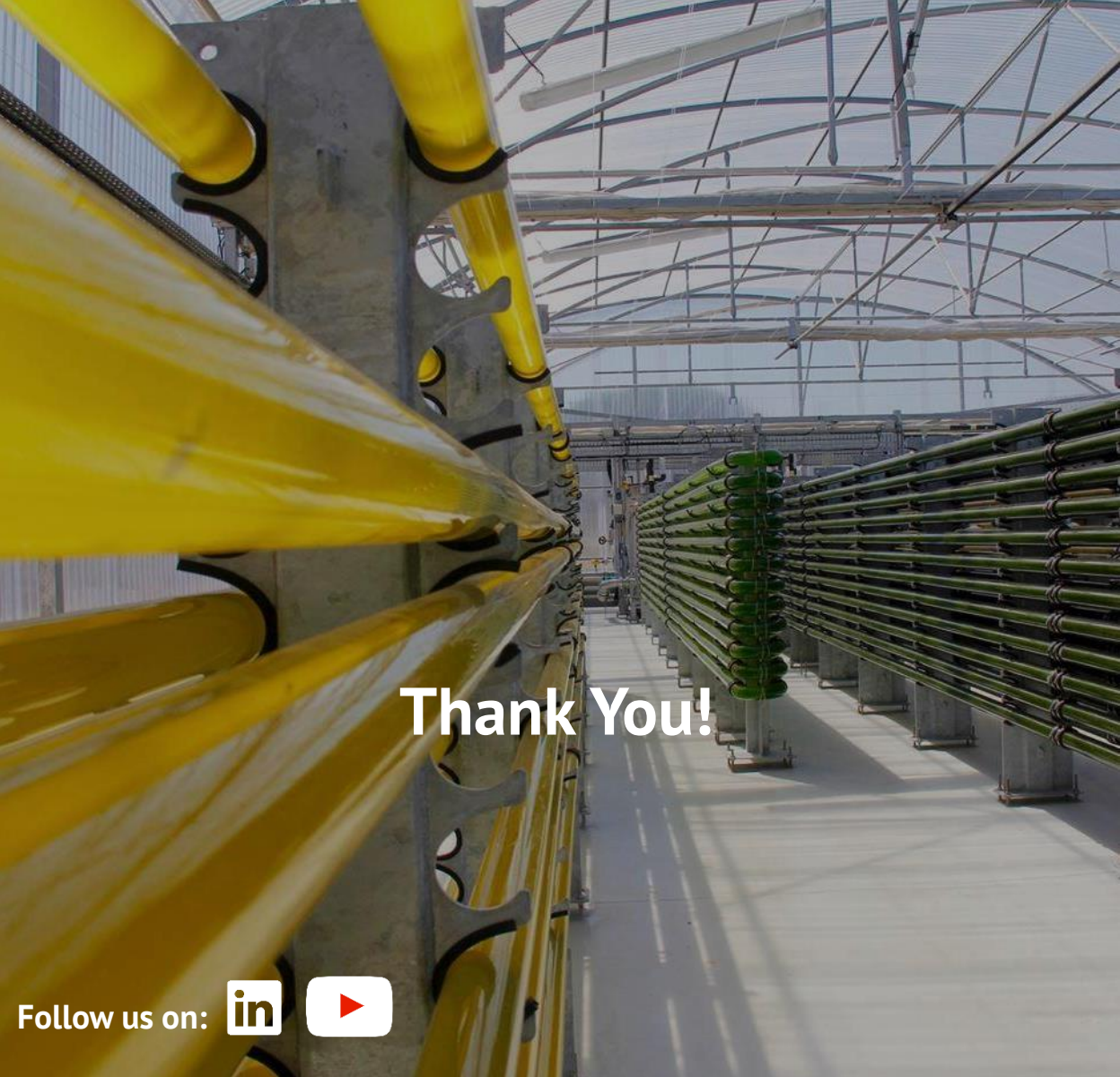


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1. Active participation in the **construction of the annual work programme** and European bioeconomy agenda;
2. **Matchmaking** for innovation funding and business opportunities with other bioeconomy sectors players;
3. Active participation in **awareness** generation activities and **education and training program** activities to promote sustainable development of the Bioeconomy;
4. **Access to innovation funding** under favorable conditions:
  1. A4F and Biotrend typically involved in RIAs and IAs (medium-high TRL) calls;
  2. A4F successful in projects ABACUS, Multi-str3am, REDWine, InnoProtein;
  3. Biotrend successful in projects Funguschain, CAFIPLA, NENU2PHAR, Ellipse, InnoProtein;



**Thank You!**



## Contacts

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