# **BRAIN Biotech AG**

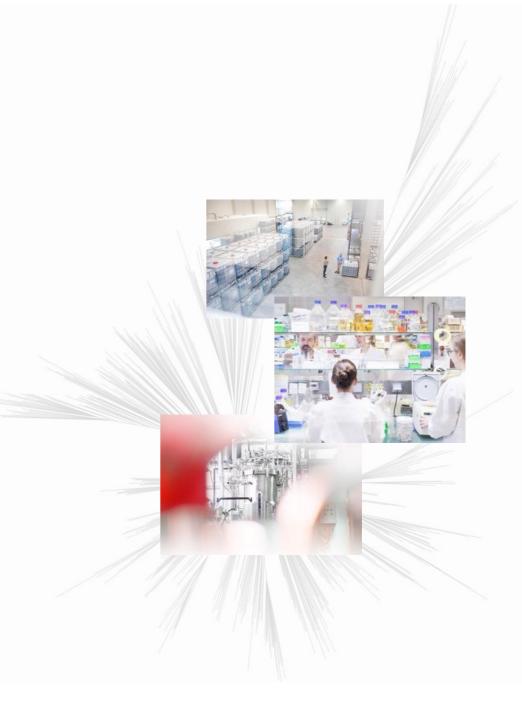
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## **Capital Markets Day 2023**

Zwingenberg, February 27, 2023



Since 2021 we have been committed to the UN Global Compact corporate responsibility initiative and its principles in the areas of human rights, labor, the environment and anti-corruption.



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## Multi-Niche Enzyme Champion: One BioProducts Rod Sears Black, MD BioProducts

**BRAIN BioProducts Division** 









### What is a multi-niche company?

how to create real value upside

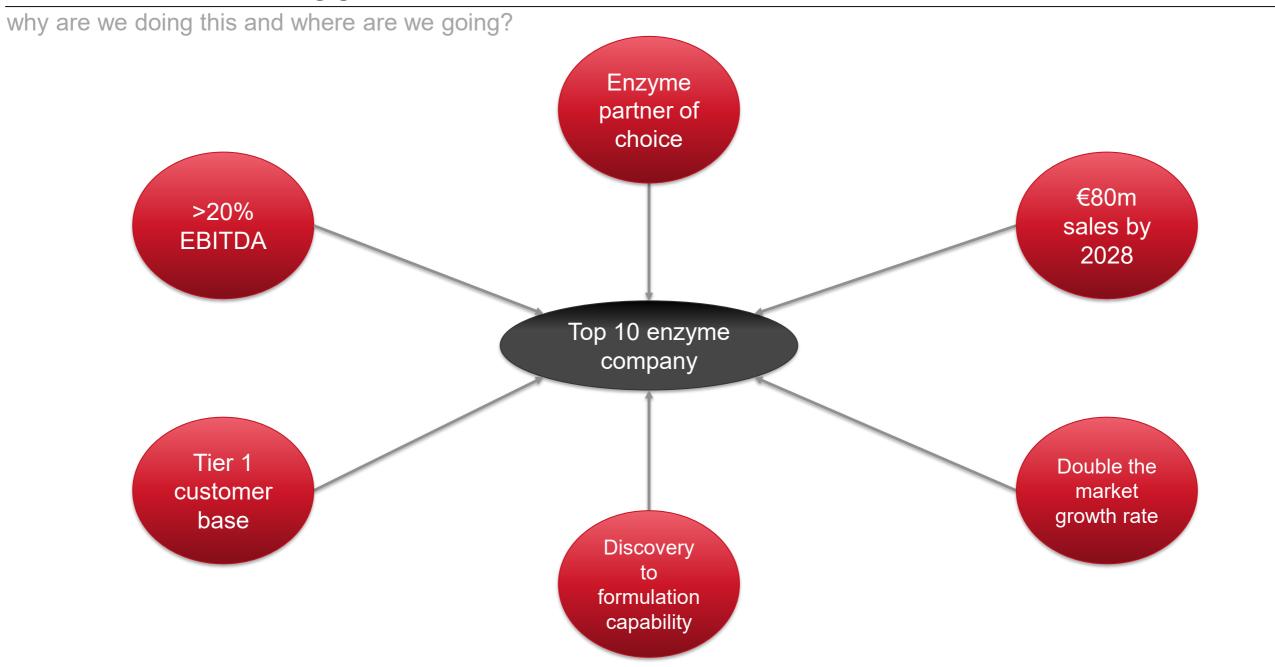
#### **Currently:** BioIndustrial "house of brands"

- Adjacent sectors and/ geographies
- Very little overlap in product, sector and market
- Independently resourced
- Operating in defined niches, limited by sector, application and technology

#### Future: BioProducts an integrated multi-niche champion

- Shared platforms for manufacturing, technology, regulatory, NPD and procurement
- Portfolio alignment and cross selling of capabilities
- Harmonised manufacturing base second site reassurance for customers and cost base consolidation
- Single operating brand with aligned values and clear market positioning / alignment
- Best practice sharing, driven by the market and with cross category Key Account Management for single point accountability

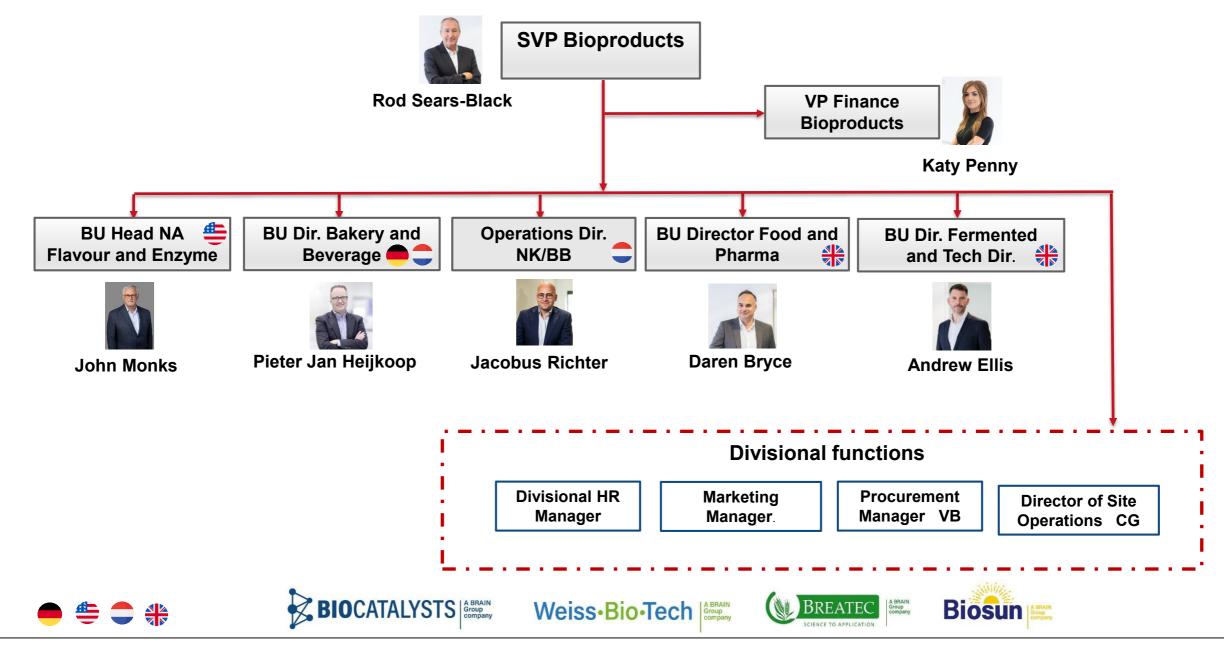
## One BioProducts: the big goals



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## **One BioProducts: The Structure**

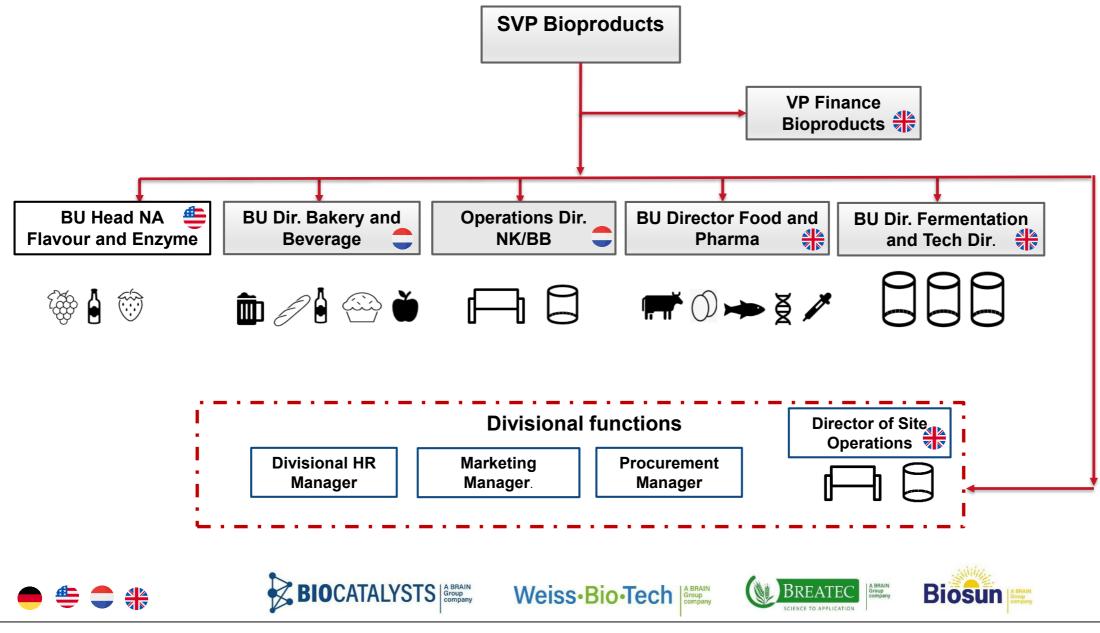
clear responsibilities driven by an experienced international management team



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### **One BioProducts: Market sector driven**

focussed, P&L driven commercial set up and flexible manufacture



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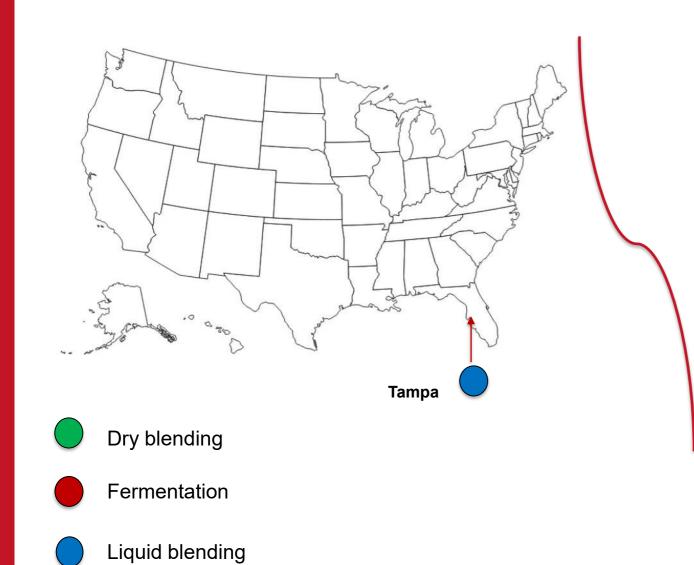
capability and partnership mindset

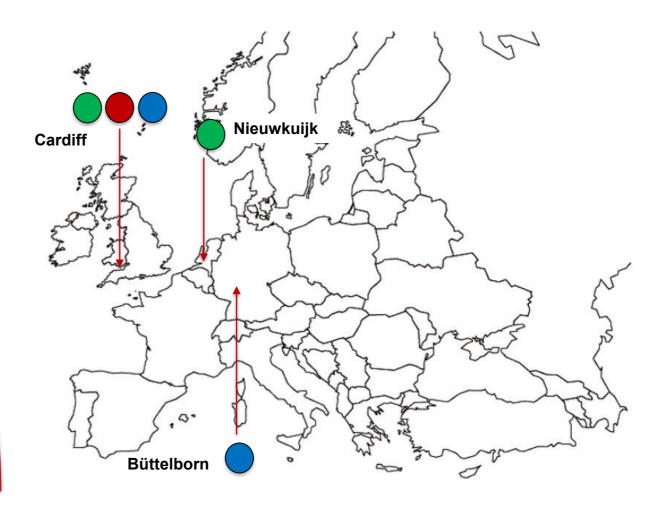
> Agile company with short communication lines and commercial and operational flexibility

- Focused on niches and happy to do so
- > Foundation in BioScience: Full Biotech toolkit and end to end capability from Discovery to Products
- Close connection to parent company BRAIN and access to its toolset
- Off the shelf premium products and best-in-class delivery reliability
- > Custom build solutions; blends, fermentations, concentrations
- > Application expertise aligned with market needs such as the test bakery in Nieuwkuijk

## Manufacturing footprint

growing international manufacturing and distribution setup



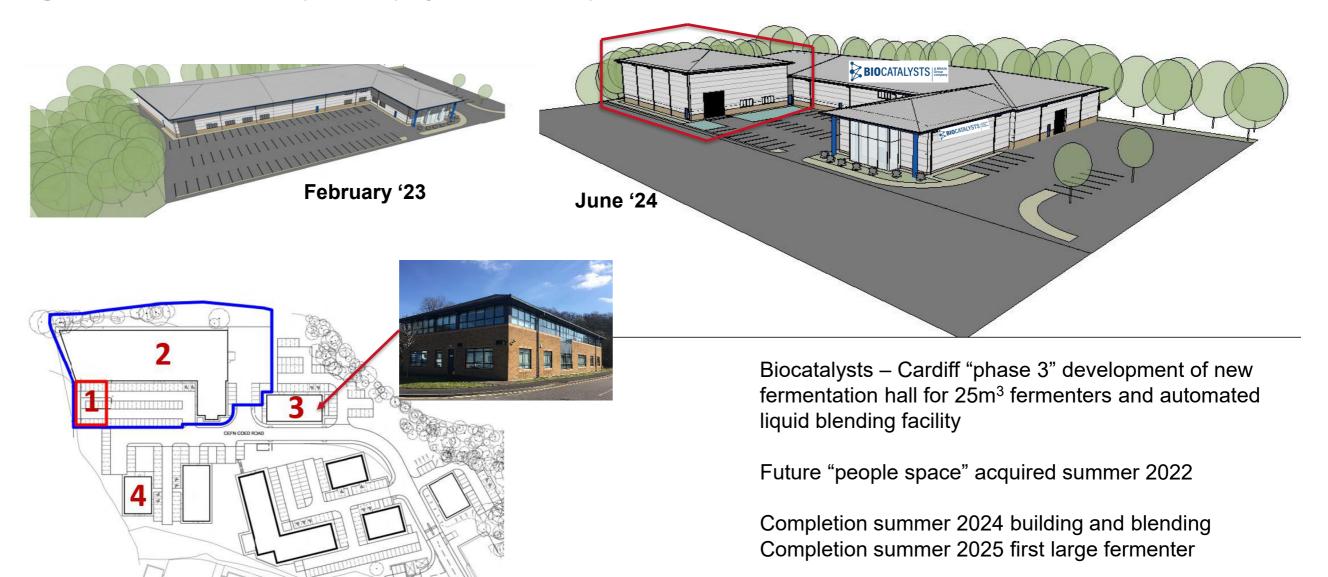


Numbers based on FY 2021/22

B•R•A•I•N

## **Growth Initiatives under way**

large scale fermentation expansion project and site expansion



Building fermentation revenue capacity to ~€30M

## **Future Opportunities**

growth challenges to master

#### Simplification and value add to all of our activities Elimination of duplication

Planned investment programme, expand to include all site development activity, reconsider the footprint The aggressive plan for maximum growth

Breatec expansion for the future What does this look like?

#### What can we do to accelerate WBT? Focus on routes to market

#### What do we require in the USA?

Is there any real value in local manufacture?

#### How would we future proof fermentation supply to the USA

Partnership, acquisition, investment

clearly identified drivers

## Control of input costs – group purchasing initiatives

Supplier and material rationalisation

**Fermentation expansion and management of processes** Plant utilisation

#### **Improvements to yield and recovery** Must do, every year

Site simplification

Can we consolidate?

#### Carry out complete cost comparison – Europe vs US for sales to NA and Latam

Does it make sense for local manufacture

## **Scales of fermentation**

#### a unique range of capabilities

Multiple small scale fermenters from 250ml to 3 litre

50I and 750I fermenters with full range of DSP including freeze drying and chromatography purification capability

10m<sup>3</sup> fermenter on site with plans for 25m<sup>3</sup> and partner scale to >50m<sup>3</sup>, DSP including drying at all scales



Mini 8s and 3l fermenters-Enzyme development, process evolution, first scale up step



**50I and 750I fermenters** – Enzyme development, process evolution Scale up step Diagnostic enzyme manufacture Speciality high value manufacture



**10m<sup>3</sup> fermenters and more** – Manufacturing processes Diagnostic enzyme manufacture High value manufacture of food enzymes Perfect pharma / life science scale

## **Breatec**

baking centre of excellence and state of the art dry blending facility







- Modern factory and offices
- Great application facility test bakery
- Highly efficient blending
- Advanced dust control, ready for future requirements
- Capacity to grow and potential for expansion to adjacent space

## Biosun

base for expanded US operations



- Good quality factory and offices
- Temperature controlled storage
- Liquid blending capability
- Entry point to US for Biocats products and onward distribution partner
- Legal entity in our main target market
- Capacity to grow will be challenged by overall site space in the future

## **Critical Success Factors**

#### we must deliver here

- Talent retention, development and attraction
- Innovation pipeline
- Key customer retention and acquisition of new ones
- Fermentation: Yields, capacity utilisation
- Maintain a solid core in blended enzymes, liquid and dry across all sites
- In-group collaboration with BRAIN Zwingenberg
- Extracting hard and soft synergies within the group
- Geographic expansion