BRAIN Biotech AG

Creating a #BiobasedFuture

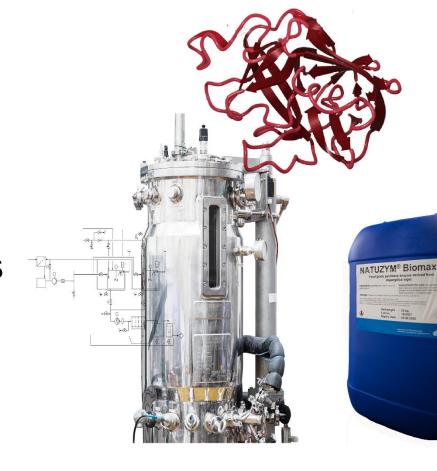
BRAIN CMD 2024

Adriaan Moelker, CEO

BRAIN Biotech Group Strategy and Priorities

our unique customer offering and five-year outlook

Zwingenberg, December 12th, 2024



WE SUPPORT



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



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Agenda: Fifth Capital Markets Day BRAIN Biotech AG

BRAIN Biotech Group strategy and priorities. Our unique customer offering and 5-year outlook

Adriaan Moelker, CEO

BRAINBiocatalysts' unique technology and production platforms

Alexander Pelzer, VP R&D
Andrew Ellis, VP Fermentation & Technology

R&D spotlight: Enabling Sustainable food by microbial fermentation

Esther Gabor, Unit Head Microbial Strain Development

BioProducts: Growth initiatives and margin drivers

Daren Bryce, VP Food & Pharmaceuticals

Executing Vision 100

Michael Schneiders, CFO



Today's Key Messages

BRAIN Biotech is well positioned for earnings growth

- Combination of BioProducts and BioScience Zwingenberg to form the growth segment BRAINBiocatalysts with Enzymes at its core
- Reduction of Group segments from three to two: BRAINBiocatalysts and BioIncubator
- Significantly improved liquidity and earnings position after completed transactions with Royalty Pharma and Akribion Therapeutics in November
- Successful commercialization of the BioIncubator segment's activities is to be systematically continued
- 5-year targets in the BRAINBiocatalysts segment: revenues of €100 million, 15% adjusted EBITDA margin and high R&D ratio

The World Is Facing Great Challenges

Biotechnology can play a key role in many of them









The Use of Enzymes Enables Sustainable Food Production

almost all commercial foods contain at least one ingredient produced with enzymes





Food waste reduction

increasing the shelf life of food fresh & edible for longer



Scarce resource savings



Improved production times and yields

faster ripening & improved flavor

Reduction in energy and water consumption



Reduction of CO₂ emissions



Digestibility of plant proteins

Whey protein: amino acid profile & digestible Plant proteins better bioavailable & digestible



More efficient resource use



Higher Sustainability of Industrial Production

Biotechnology will be a key to success

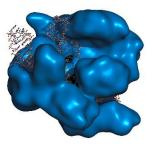
Materials will be more sustainable:

- Performance & functional proteins
- Natural polymers
- Biological recycling, e.g. **Bio**gold and plastics



Biomolecules will be produced:

- APIs via biocatalysis
- Natural preservatives
- Technical additives





Substitution of high-energy Chemical reactions with Biological Processes



Our Passion Is to Make a Difference: #BRAINimpact

we create solutions that address several UN SDG's in both our products and science businesses























Food security and improved nutrition







Minimizing pollutants in industrial processes





Promoting sustainable industrialization





New techniques for precise gene editing



Food enzymes (Beverage, Baking, Dairy)

- **Natural preservatives**
- **Animal protein replacement**
- **Plant-based proteins**
- Novel sweetener

Life Science solutions

- **Drug API development**
- Enzymatic wound care

Starch processing enzymes

Urban mining

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- Battery recycling
- Utilize food sidestreams

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Dairy replacing proteins

- CO₂ as feedstock
- Enzymatic syntheses
- **Biolubricants**

- High-yield industrial production microbes
- **Enabling technology**
- Fast & precise
- Novel mode of action

Introducing a New Combined Division

covering products, research and contract manufacturing



Simplification & Focus: The New Organization

creating focus on the enzymes business and integrating our science



Creating a #BiobasedFuture

BioProducts

Enzyme products, microorganisms & ingredients



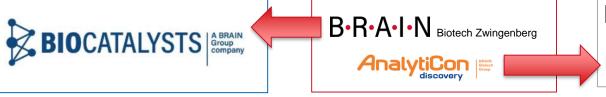


Biolncubator

Projects & participations to create highly innovative solutions









Focussed Business Organization With High Transparency

two pillar operational structure plus active holding



Creating a #BiobasedFuture

BRAIN BIOCATALYSTS

Enzyme products, microorganisms & ingredients



BRAINBioIncubator

Projects & participations with highly innovative solutions

BRAINBioIncubator Pipeline Projects





Royalty Pharma / deucrictibant



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BRAIN Biotech Is a Solutions Provider Across the Enzyme Value Chain

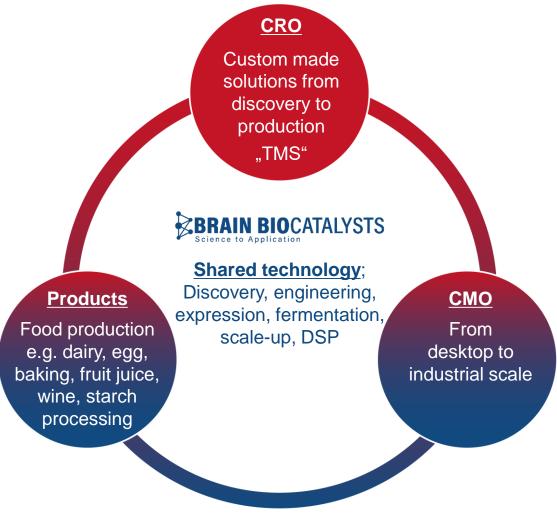
integrated solutions as well as modular customer assistance for specific challenges Sales Formulation and Blending Production in industrial scale Bioprocess development Strain development Expression technology Microbial strains Discovery Protein Engineering Rational selection **BRAINBio**catalysts **BRAINBio**Incubator —



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Our Unique Customer Offering: Enzyme Products, Contract Research and Manufacturing

we are the "Swiss army knife" solutions provider for specialized "White Biotech" challenges – Partnerships are key



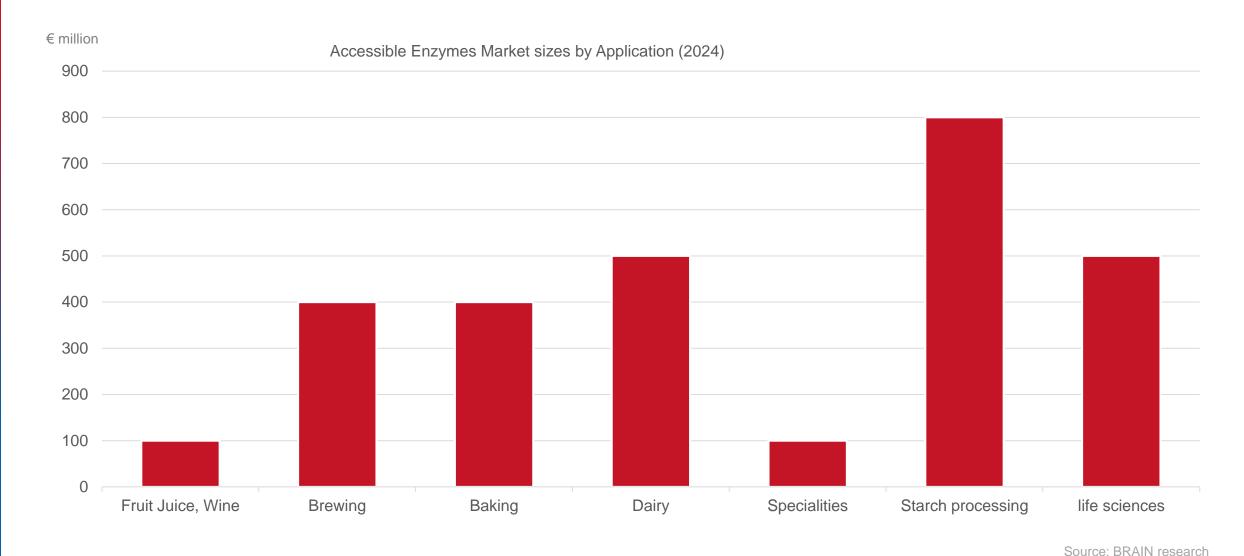
CRO = **C**ontract Research **O**rganization **CMO** = **C**ontract **M**anufacturing **O**rganization





BRAINBiocatalysts Accessible Market for Enzymes Alone is well over €2bn

our target markets are large and our market share is still low single digit

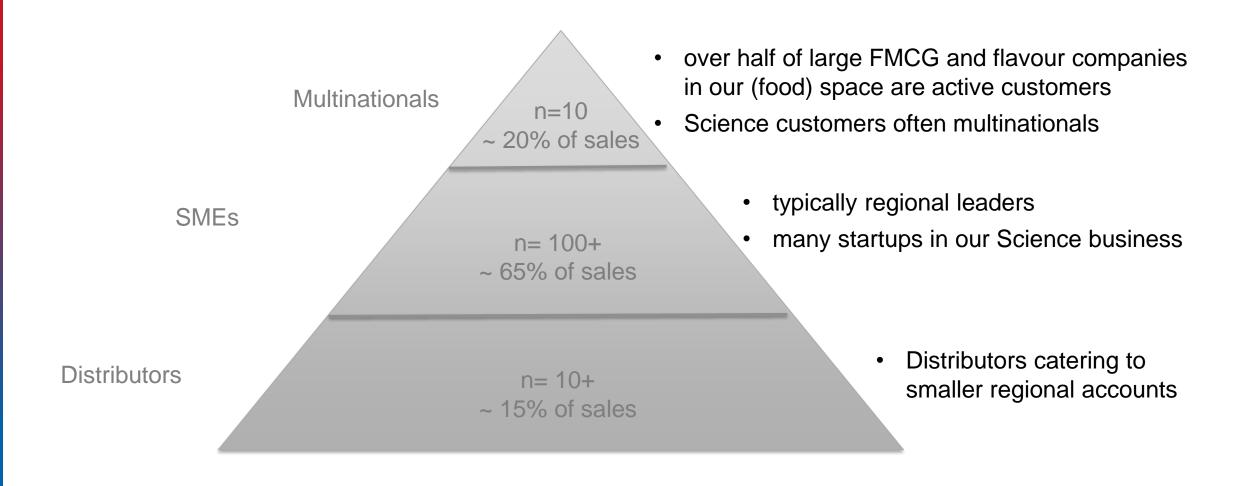




BRAIN BIOCATALYSTS

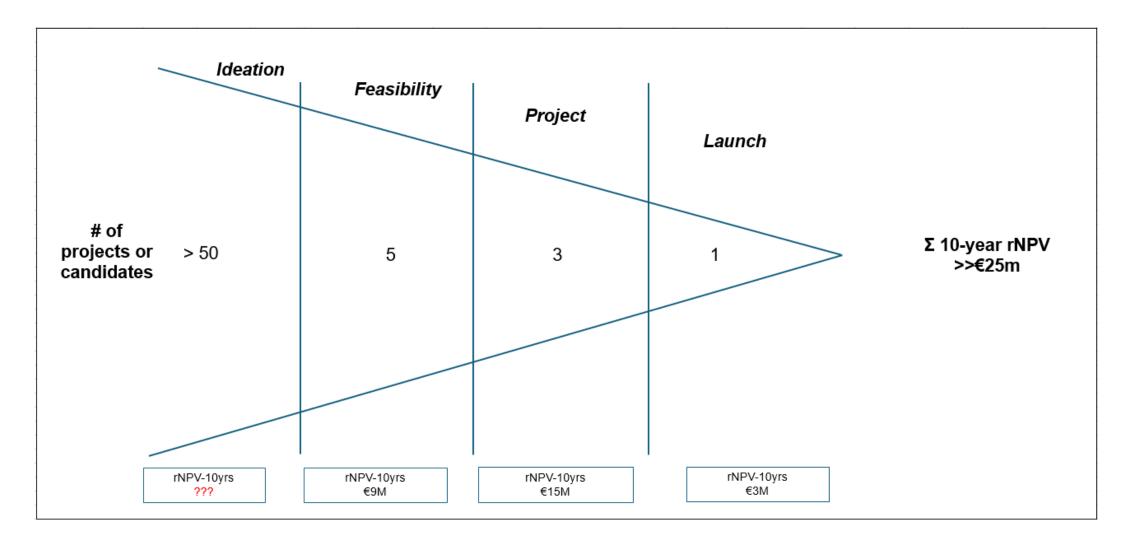
We Have a Strongly Diversified Customer Base

we partner intensively with segment leaders



BRAINBiocatalysts Pipeline of New Enzymes is Worth More than €25m – Even Risk Adjusted

we have been building the own enzymes pipeline for four years. New products will drive growth and profitability

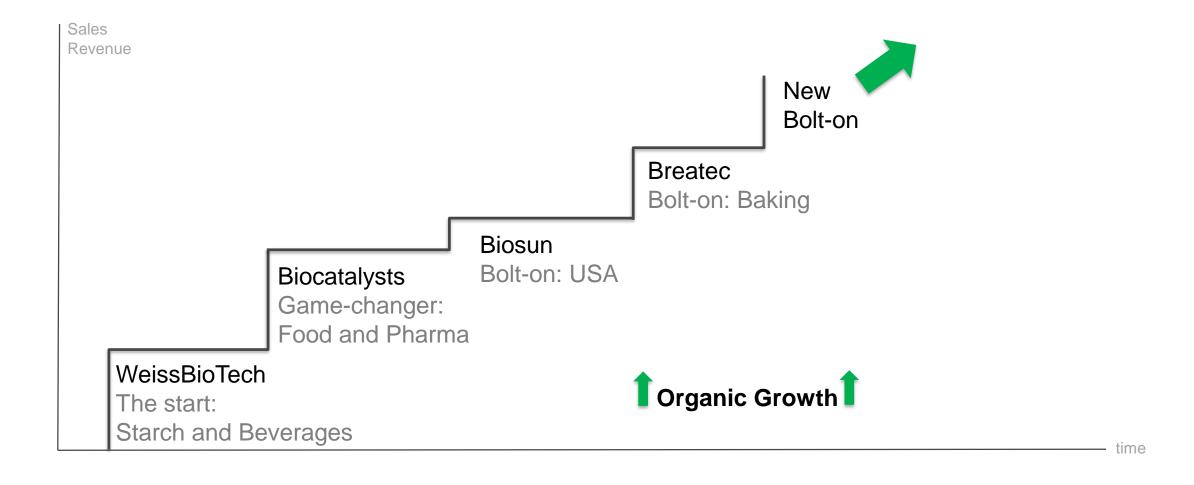


Note: Risk adjustment factors were 95% for ideation, 50% for feasibilities, 25% for project, 5% for launch. rNPV arrived at with a WACC of 8.8%.



We Envision a Bigger Future With Bolt-on M&A

our targets: grow fast, capture synergies, utilizing our technology and footprint



Our BioIncubator Strategy Is Focused on Harvesting and Commercialization

rNPV of the combined projects well over €100m



- Royalty Pharma/ Pharvaris (compound for rare disease "HAE"): successful royalty monetization; up to €138m cash-in
- Akribion Therapeutics (CRISPR-Cas for Oncology): company successfully founded. Up to €92m cash-in plus additional royalties at zero ongoing cost
- SolasCure (Enzyme for Wound healing): critical Phase IIa extension in 1H, 2025
- **BioGold (valorizing urban waste):** partner to be announced
- Brazzein (ultra potent sweet protein for sweetening): ongoing project
- **Pipeline of New projects:** will be announced when ready



BRAIN Biotech Is Unique: the Only Integrated Biosolutions & Bioproducts Company

with our customer offering, no single company competes directly with us

| Wide Capability White Biotech Leaders | Targeted Enzyme Specialists | Focused Biotechnology | Contract Manufacturing | BioEconomy Companies |
|--|--------------------------------|---|-------------------------------------|-------------------------------|
| novonesis | dsm-firmenich KERRY | GINKGO BIOWORKS CODEXIS® ArcticZymes Technologies | fermic Bio Base Europe Pilot Plant | Better Dairy Formo bonumose |
| "Products" | | "CRO" | "CMO" | "end-use" |

Summary

BRAIN is well positioned for earnings growth

Passion

Strategy

Uniqueness

Sustainability & Innovation

Enabling a bio-based future

Top 10 global enzyme company

Harvest and commercialize BioIncubator

Products, CMO & CRO

based on common technology platform

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- Focus on innovation and leading in targeted areas
- Partner with leaders in their fields
- Pipeline of new products is the basis for success
- Monetize our high-yielding microorganism hosts
- Develop our technology toolkit further: Bioinformatics,
 CRISPR-Cas, strains, scale-up
- Realize hard and soft synergies in the group
- Seek bolt-on M&A

Thank you very much for your interest.



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