

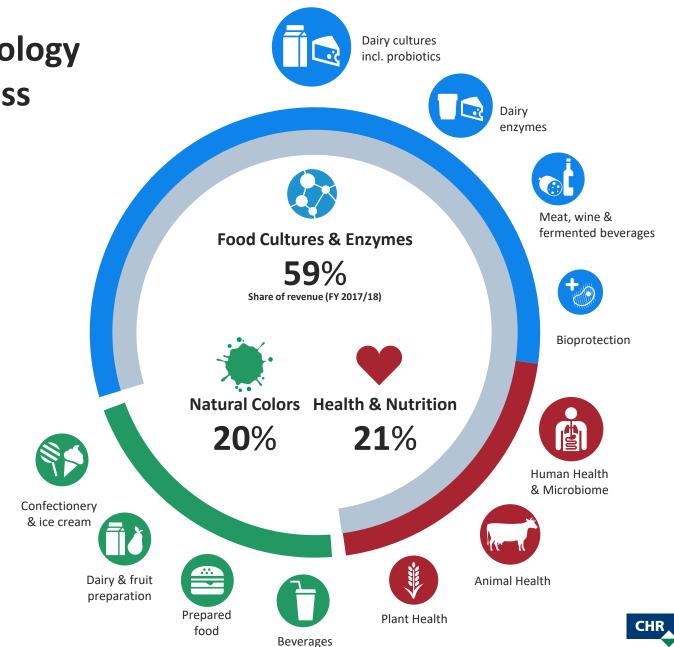
AT A GLANCE

We are market and technology leaders in our core business



Food Cultures & Enzymes and Health & Nutrition share a common research platform, and production method. The R&D platform is a process of screening, developing and upscaling of microbes. Production is the optimization of recipes, flows and infrastructure for the fermentation of microbes.

Together: The Microbial Platform.





AT A GLANCE

We develop natural solutions that help to reduce sugar, ensure food safety, improve health, replace artificial ingredients and much more!



Sweety® reduces added sugar in yogurt by up to 20% without losing sweetness





Substitute artificial ingredients with our e-number free labeling coloring foodstuffs range **FRUITMAX**®

QUARTZO[®] and **PRESENCE**[®] are probiotic plant health solutions that help sugar cane and other crops fight off attacks from nematodes





With **CHY-MAX Supreme**® dairies can increase cheese output by up to 1% compared to the market leading coagulant

LGG® has been studied in +300 clinical studies that indicate that the strain may have beneficial effects on immune and gastrointestinal functions





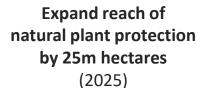
AT A GLANCE

Sustainability is at the core of what we do – 82% of our revenue contributes to the UN Global Goals



Better farming

We help feed the growing population by promoting sustainable agriculture

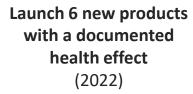






Good health

We improve global health through healthier, safer and more products







Less waste

We help customers reduce food waste and improve yield and productivity



Reduce global yogurt waste by 1.2m tons (2022)







STRATEGY

Our Nature's no.1 strategy: evolution since 2013 - now Sustainably





FOCUS AREAS FOOD CULTURES & ENZYMES

Leverage the

full potential



FOCUS AREAS HEALTH & NUTRITION



Develop the microbial platform

Create further value

Drive penetration of new innovation

- Continue to prioritize core dairy business
- Develop adjuncts and adjacencies
- Drive Bioprotection lighthouse to EUR 200m by 2025
- Drive new products for Human Health (incl. Microbiome) and Animal Health
- Invest in Plant Health platform to unlock potential of EUR 100m by 2025
- Expand FruitMax® range of coloring foodstuffs

Reinforce position in growth markets

- Further strengthen global market presence
- Application support in core adjacencies

- Human Health: Expansion into emerging markets and growth segments
- Strengthen route-to-market in Ag businesses
- Drive US conversion and secure APAC growth

Generate fuel for growth

- Drive scalability in supply chain
- Digitalize core processes

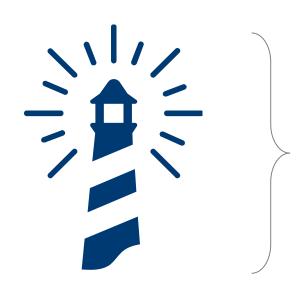
▶ Reinvest in future growth

Continue drive to restore profitability



STRATEGY

Our three lighthouses address challenges within food safety, agriculture and public health







Bioprotection

Bacterial solutions for food safety and freshness – target of EUR 200m by 2025

Designated as lighthouse in 2016





Plant Health

Bacterial cultures for crop protection – target of EUR 100m by 2025



Human Microbiome

Joint venture with Lonza in live biotherapeutic products (LBP) contract manufacturing

- EUR 150-200m market potential by 2025

Designated as lighthouse in 2013

Designated as lighthouse in 2013

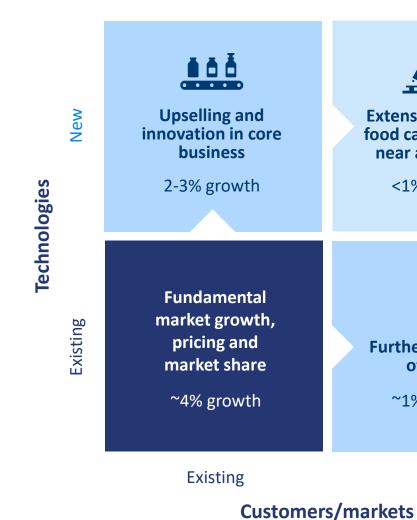
Potential revenue
of minimum
EUR 100m per year

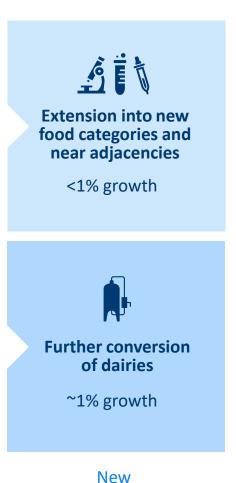


FOOD CULTURES & ENZYMES

We retain our long-term growth guidance with majority of growth coming from core customers and markets











We will continue to grow in China despite slower yogurt market growth

Yesterday

Dairy a new category for Chinese consumers

Double-digit market growth driven by ambient boom

China
~50% of APAC
FY 2017/18 sales

Today

Customers looking for differentiation

Growth slowing due to saturation in tier-1/2 cities



Q3 FY19 drivers

Customer dynamics

Consumers downtrading (product mix)

Going forward

Focus on innovation, premiumization & new concepts

Penetration beyond tier-1/2 cities

SME segment

Cheese travelling East

Expansion outside of Chinese home market

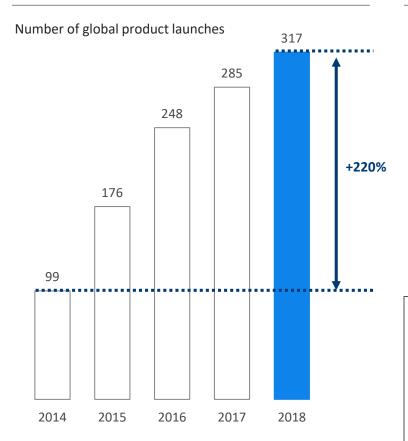
Expected mid-single digit fermented milk market growth in China support long-term growth ambition for FC&E





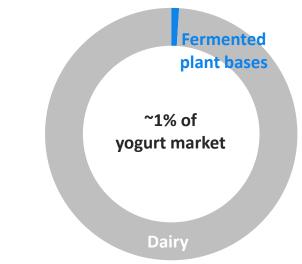
Rising customer interest in new fermented plant bases in NA and EMEA

Fermented plant-based products is a rapidly growing category...



Source: Mintel GNPD (Dec 2018)

... though still a niche with certain dilemmas to be solved!



Almond yogurt label

INGREDIENTS: ALMOND MILK, CANE SUGAR,
ORGANIC TAPIOCA STARCH; NATURAL FLAVOR;
LOCUST BEAN GUM, CITRIC ACID, VANILLA BEAN,
XANTHAN GUM, AGAR, LIVE ACTIVE CULTURES:
S.THERMPOHILUS, L.BULGARICUS, L.ACIDOPHILUS
AND BIFIDOBACTERIA

For illustration only

Chr. Hansen well positioned to capture business opportunity

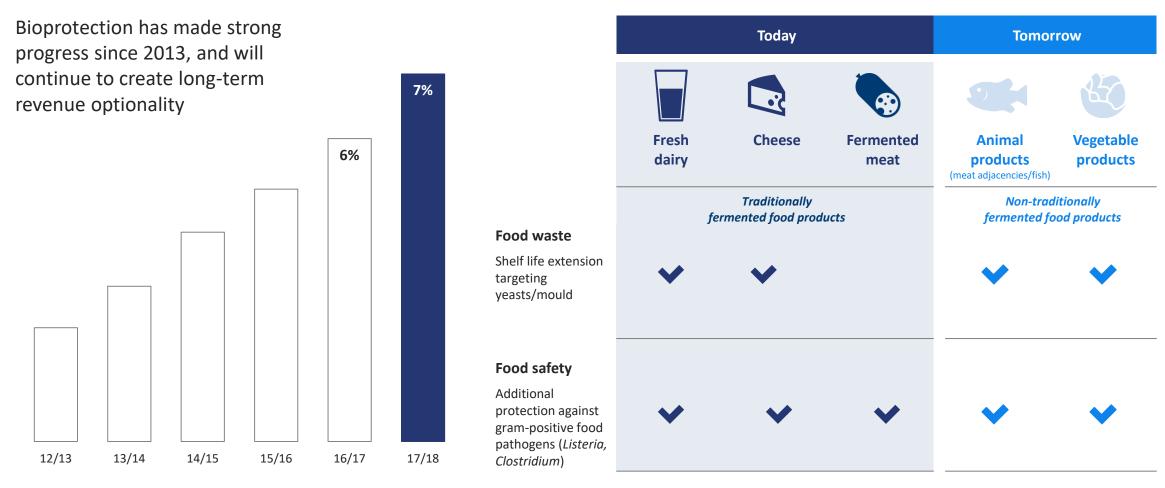
- ▶ Chr. Hansen active in fermented plant bases since 2008
- Dedicated culture range for different plant bases such as soy, almond, coconut and oat
- Cross-selling opportunity with probiotics to serve health & wellness trend
- Premium segment allows for premium pricing







We continue to roll out our 2nd generation bioprotection and are confident in our EUR 200m lighthouse by 2025





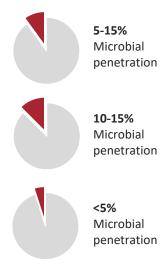


Potential to increase penetration of microbial solutions

Attractive market growth driven by megatrends

7%-9% 7%-9% 13%-17% Mega-**Increasing scientific Growing world Resource scarcity creates** Need to reduce antibiotic Pressure to curb trends population and evidence of health benefits productivity squeeze for growth promoter usage in chemicals usage in crop from "good bacteria" (and livestock production rapid urbanization production customers **KOL/consumer awareness)**

Opportunities to increase penetration

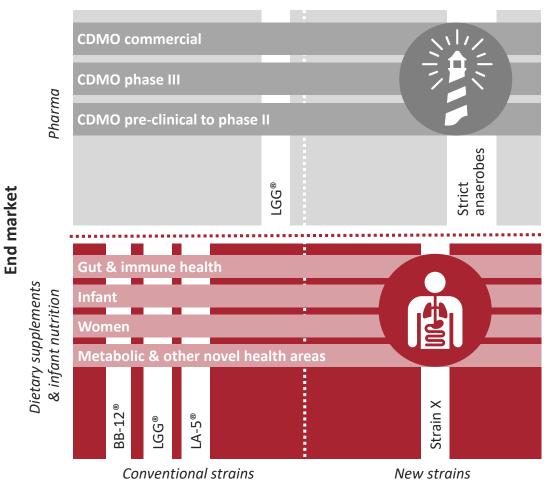


Source: Euromonitor and management estimates





Human Health and Microbiome lighthouse to operate twofold going forward



Type of bacteria

Joint venture with Lonza to pioneer market for bacteria-based pharmaceuticals

- ► End-to-end contract manufacturing for live biotherapeutics (LBP)
- ► Full supply chain offering from development to commercial CDMO including strict anaerobic capabilities
- ► Market potential of EUR 150-200m for clinical supply by 2025 and of > EUR 1bn for clinical and commercial supply combined by 2035

Human Health

to bring microbiome-based probiotic health solutions to life in dietary supplements and infant nutrition

- ► Execute product pipeline and develop new concepts for dietary supplements and infant formula
- ▶ Development and commercialization of strain X
- ► Drive R&D for other application areas such as women's health and infant microbiome



Lonza/Chr. Hansen JV to become partner of choice for LBP manufacturing



Emerging market

- ► +200 preclinical to phase III trials ongoing in different indication areas
- ► USD1.6bn+ investments into microbiome companies (2005-2017)
- ► EUR 150-200m market potential for clinical supply by 2025; > EUR 1bn for clinical and commercial supply combined by 2035



Perfect fit

- ➤ Two leading players with strong execution track record
- Best-in-class complementary capabilities and unrivalled know-how in strict anaerobes



Strong value proposition

- ▶ First pharma contract manufacturer (CDMO) with full supply chain offering for LBP¹
- ► Large scale pharma- grade manufacturing capabilities
- ► Faster route-to-market



Attractive risk-return profile

- Phased investment of EUR
 90m to be shared equally
 between the partners over 3
 years
- ► JV expected to be largely selffunding <u>after</u> production setup has been established



Fully in line with strategy

- No changes to 2018/19 outlook and 2021/22 longterm financial ambition²
- Capacity to distribute excess cash to shareholders modestly reduced for the next 3 years

Closing expected for Q1 2019/20 subject to merger control clearance

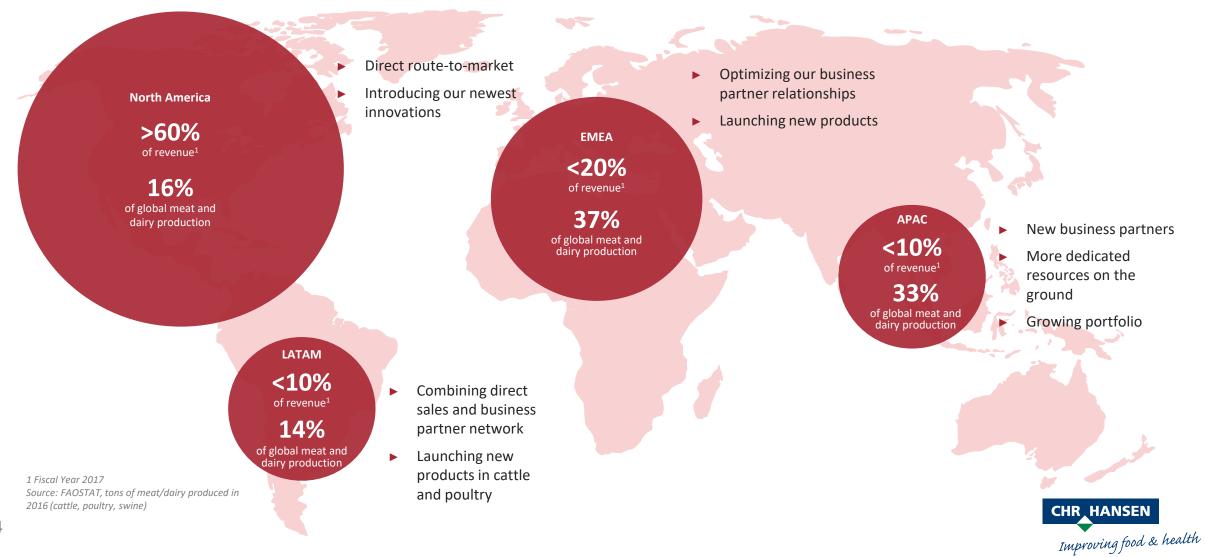


¹ LBP = Live biotherapeutic products

² Chr. Hansen will account for the JV interest using the equity method in its consolidated financial statements



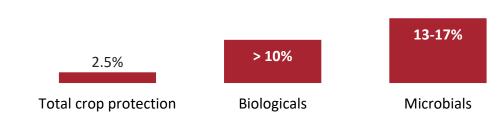
Animal Health to further strengthen route-to-market globally





Plant Health to unlock a potential of EUR 100m revenue by 2025

Market opportunity in crop protection, % growth (CAGR 2018-21)



>EUR 50bn total global crop protection sales

Penetration in % ≈5% ≈2%	
~270	

Focus crops, m hectares (MH) harvested in 2017



Source: Phillips McDougall, FaoStat, Markets&Markets

Ambitions of Plant Health

- Today: On market primarily in South America (Brazil)
- ▶ 2019/20: Expansion in North America
- ▶ 2024/25: Presence in all major geographies
- Ramping up investments in capacity, discovery, and tech support



Unlocked potential by 2025





Natural Colors presents an attractive growth opportunity

Key messages

Attractive growth potential from conversion and coloring foodstuffs

Transformation project completed

Limited synergies between Natural Colors and our microbial platform

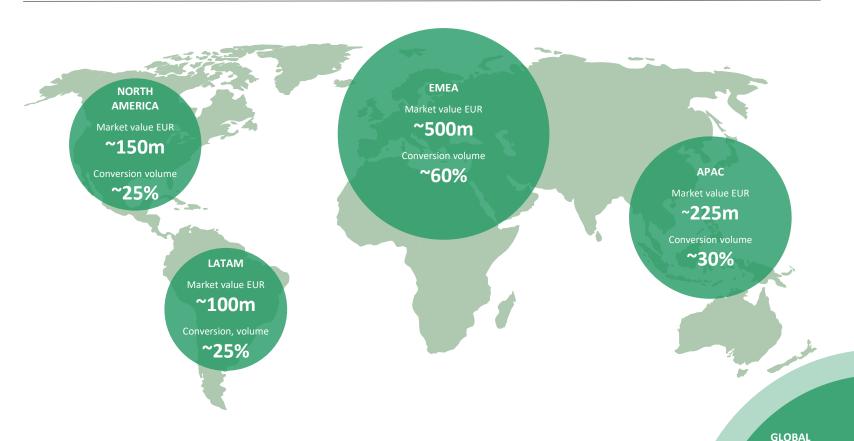
Main trend and projected value



Demand for cleaner, healthier and more natural products

Projected 2030 market value of EUR 2.0 - 2.5bn

Current market overview



Source: Euromonitor and management estimates.

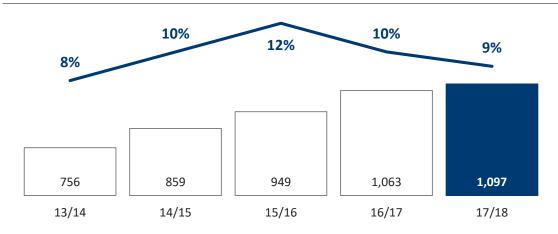
Note: Market value measured as Food & Beverages Natural Colors including Coloring Foods, and excluding Caramel colors (approximately EUR 200m)

5-7% Global market growth Market value EUR ~1,000m Conversion volume ~35%

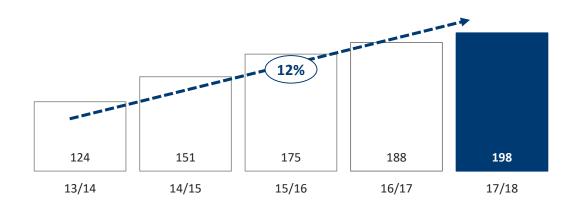
FINANCIAL PERFORMANCE

Great track record of financial performance

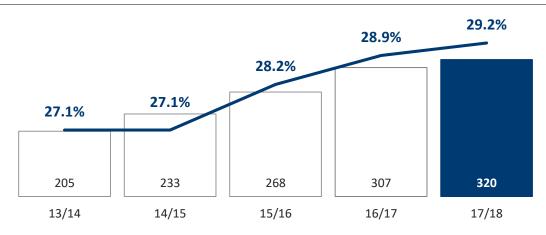
Revenue in EUR m / organic growth, %



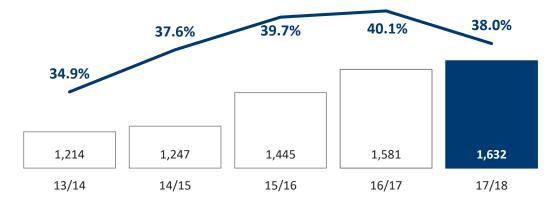
Free cash flow before special items and acquisitions in EUR m / CAGR, %



EBIT before special items and acquisitions in EUR m / margin, %



Return on invested capital in EUR m / ROIC, %





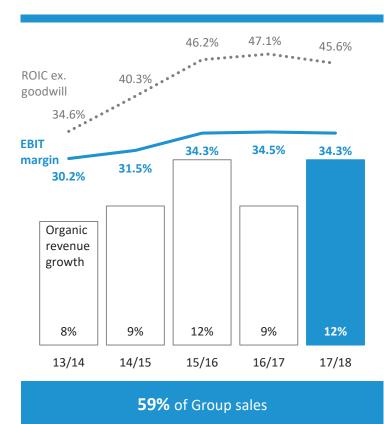
FINANCIAL PERFORMANCE

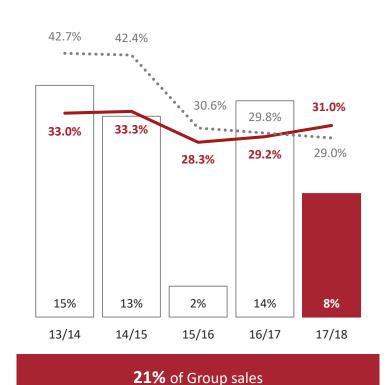
Three complementary businesses with strong fundamentals

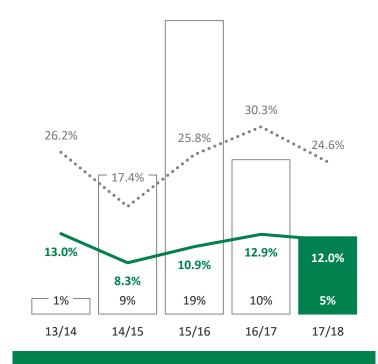










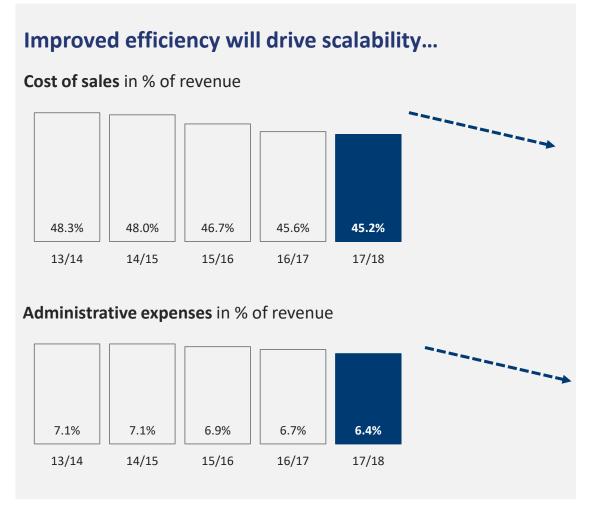


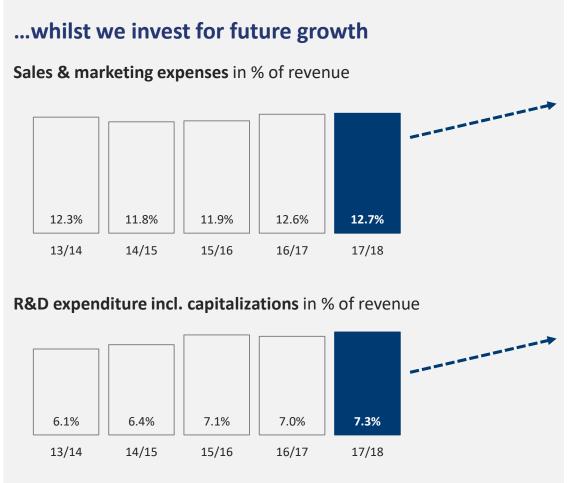
20% of Group sales



FINANCIAL PERFORMANCE

We will drive scalability and invest for future growth





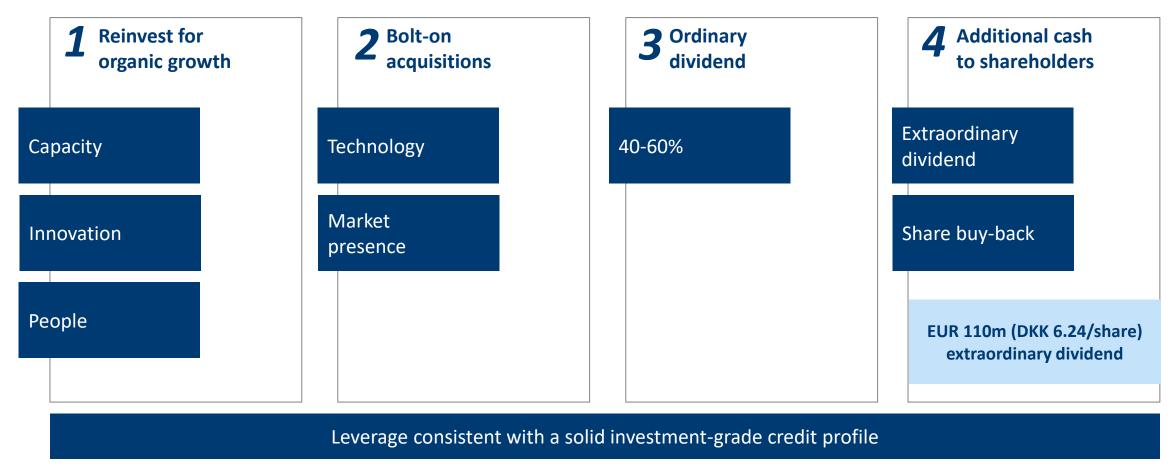


We will continue to pursue profitable growth through 2021/22





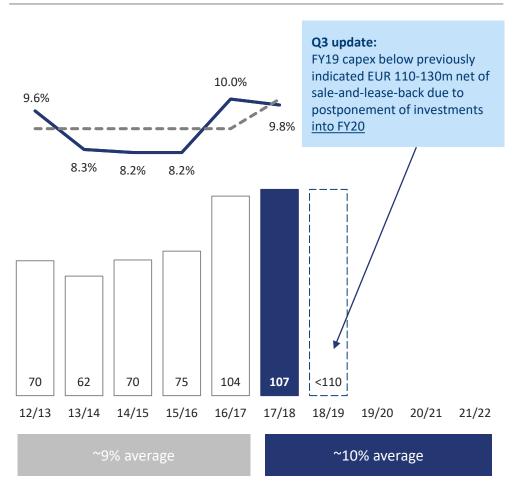
Capital allocation priorities remain unchanged; extraordinary dividend of DKK 6.24 per share to be distributed to shareholders





Investing into capacity expansions to support future growth

Capex projection in EUR m and % of revenue



Selection of major investment projects	Expected year of completion	
Freeze dried & powder packaging 🚱 🧡	19/20	
Natural Colors US footprint & Montpellier R&D upgrade 🐙	19/20	
Capacity expansion in Health & Nutrition	20/21	
× ·• ·		
R&D facility 🛂 🖥 🐧	21/22	
Dairy expansion 🐯	Beyond 21/22	
~10% of net revenue capex p.a. 2017/18 - 21/22		



Our microbial powerhouse supports 80% of the business

Organizational set-up



Analytical Solutions

Development

Process

250+

employees working in R&D

(ex. application)

Emerging Technologies



















Application development

R&D strategy fully aligned with Nature's no. 1

CSO priorities



Increase speed of commercialization of new products



Drive efficiencies in scale-up and production



Leverage new technologies to increase R&D speed



Invest in new state-of-the-art R&D facility



Nurture and retain talent in R&D



Embed sustainability into thinking



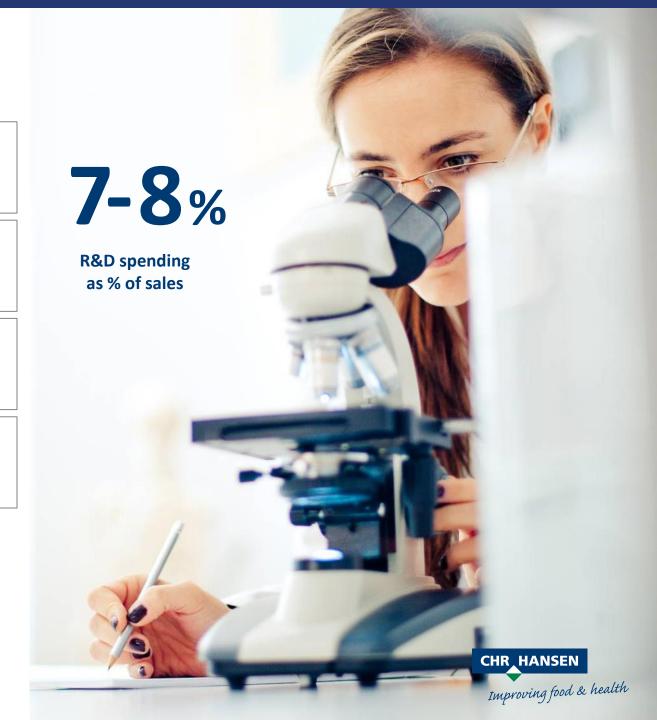
Focus on delivering tangible results

R&D pipeline fully aligned with Nature's no. 1

Clear portfolio governance with close link to sales

Strong network of external partners

Tight R&D controlling



EXECUTIVE COMPENSATION

Closely aligned to key metrics and with strong incentive component

SHORT TERM

Annual incentive program for CEO and CFO

- ▶ Based on group financial targets and discretionary, personal goals
- ▶ Bonus is paid as 1/3 of the payout in Restricted Stock Units, and 2/3 in cash; normally accounts for 25-30% of total remuneration package

LONG TERM

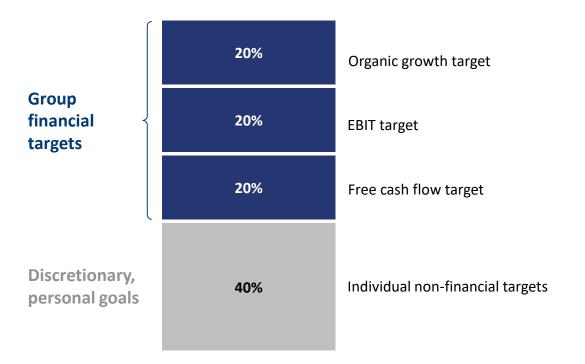
Group

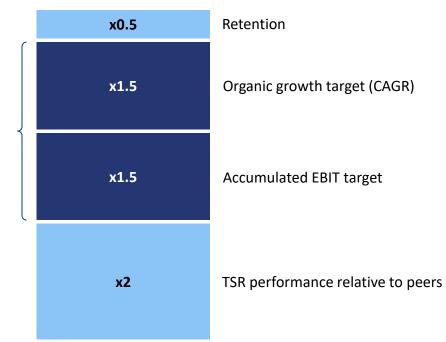
financial

targets

Progressive three-year incentive program

- ▶ Requires personal investment in Chr. Hansen shares to participate
- ▶ Grant value estimated (based on Black-Scholes) at 20-25% of the remuneration package





Matching shares per 1 invested share



OUR SUSTAINABILTY TARGETS

Ranked 'most sustainable company in the world' by Corporate Knights

	Target dimensions		Goal	KPI	Progress 17/18	Target 21/22 ¹
<u>ie</u>				Hectares of farmland treated (cumulative) ²	6.7m hectares	25m hectares
Commercial	0			Number of products (cumulative)	3 products	6 products
Ö		Less waste	Reduce global yogurt waste	ice global yogurt waste Tons of yogurt saved (cumulative) ³		1.2m tons
		Workplace	Improve work safety	LTIF ⁴	2.46	≤1.8
		responsibility	Increase diversity of workforce	% of diverse corporate teams ⁵	78%	80%
		Climate and environment	Reduce environmental footprint in:			
-			Energy	Efficiency in % compared	9%	20%
ons			Water	to base year 13/14 ⁶	6%	20%
Operational			CO_2		22%	25%
Ope			Waste recycled		42%	40%
		Business and product integrity	Ensure fair, transparent and ethical standards of business conduct	Completion of Code of Conduct training	99%	100%
	to	Human rights and responsible sourcing	Respect human rights and ensure responsible practices in supply chain	On site sustainability assessment of high risk suppliers	Supplier requirements and internal training	

¹ For better farming the target is to be reached by 24/25.



 $^{^{2}}$ Based on sales numbers and application rates of Plant Health solutions and silage inoculants.

 $^{^3}$ Based on 7 days extended shelf life and sales numbers for FreshQ $^{\otimes}\!.$

⁴ Frequency of Lost Time Incidents per million working hours.

⁵ Defined as corporate management teams reporting to VP level and above that include at least one woman and one non-local.

⁶ Efficiency relative to production units.





FINANCIAL HIGHLIGHTS

Solid sales growth and profitability in Q3 despite more challenging trading conditions

YTD 2018/19

9% organic growth

YTD 2017/18: 9%

28.2% EBIT margin b.s.i.

YTD 2017/18: 27.5%

EUR 57 m FCF b.s.i.a.

YTD 2017/18: EUR 75m

Q3 2018/19

8% organic growth Q3 2017/18: 9%

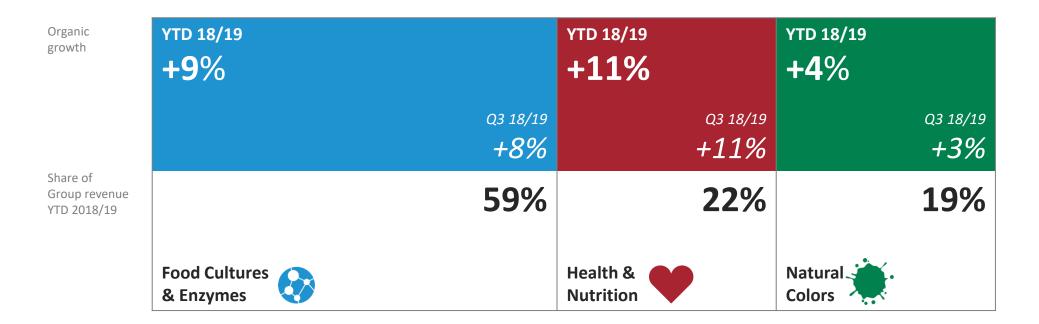
30.4% EBIT margin b.s.i. Q3 2017/18: 29.7%

EUR 49m FCF b.s.i.a. Q3 2017/18: EUR 64m



FINANCIAL HIGHLIGHTS

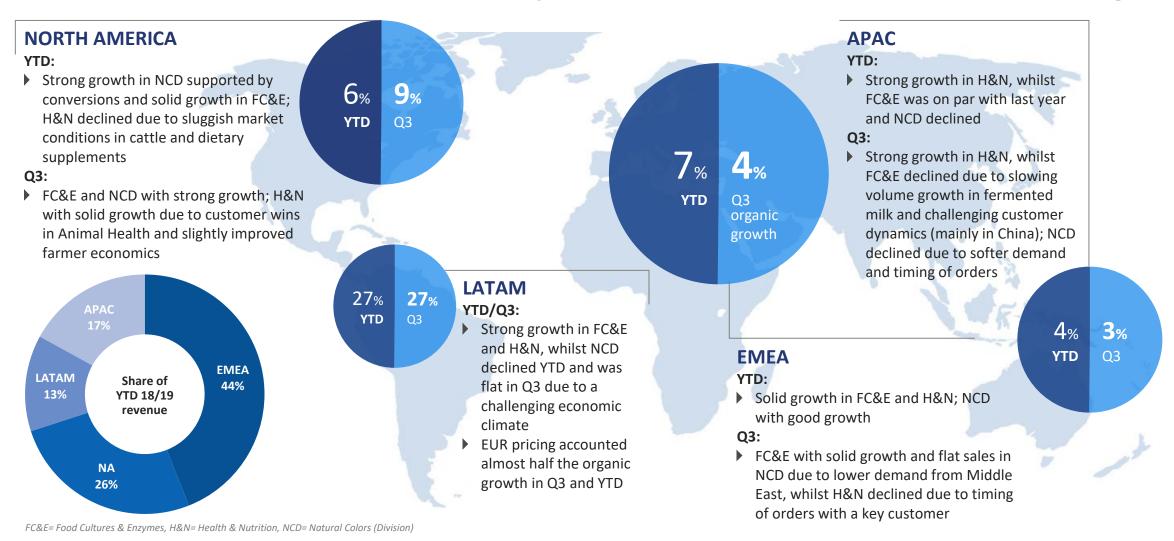
Natural Colors, Animal Health and emerging markets below expectations





REGIONAL PERFORMANCE

Growth in NA increased but softer quarter for EMEA, and APAC still challenged







Cheese and bioprotection strong, but lower momentum in yogurt in APAC

9% ORGANIC GROWTH YTD 18/19

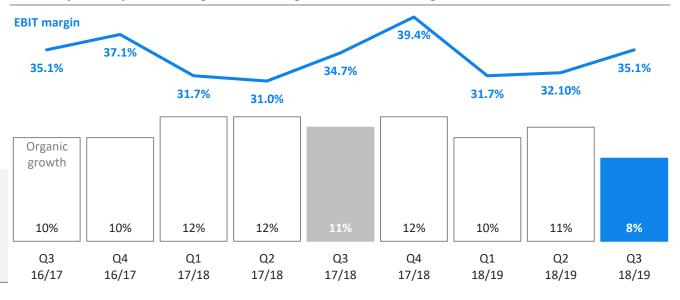
YTD Strong growth in cheese and meat cultures and enzymes, fermented milk with solid and probiotics with slight growth

▶ Bioprotection with ~15% organic growth driven by fermented milk and meat categories and 2nd generation products

Strong growth in cheese and meat cultures and enzymes; fermented milk with good momentum, probiotics declined outside of North America

▶ Bioprotection accelerated to ~15% organic growth

Quarterly development of organic revenue growth and EBIT margin, %



33.0% EBIT MARGIN YTD 18/19 (+0.5%-point yoy)

YTD Scalability benefits, mainly from Copenhagen expansion, of around 1%-point on gross margin partly offset by investments in strategic initiatives

• Margin improvement mainly driven by Copenhagen ramp-up

EUR million	Q3 17/18	Q3 18/19
Revenue	165.9	176.7
Organic growth	11%	8%
Volume/mix	6%	5%
EBIT margin	34.7%	35.1%
ROIC ex. goodwill		

YTD 17/18	YTD 18/19
474.7	503.8
12%	9%
9%	5%
32.5%	33.0%
41.6%	41.1%





Continued strength in infant and PH, AH behind despite better momentum

11% ORGANIC GROWTH YTD 18/19

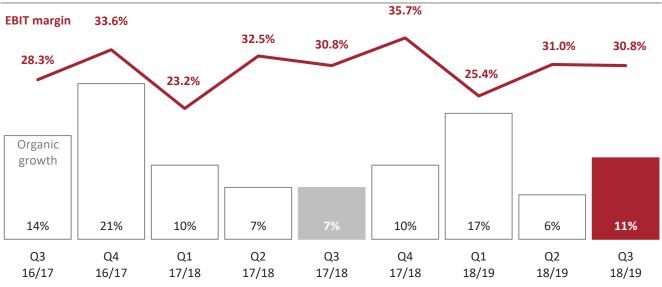
YTD HH with strong growth driven by infant formula in all regions and slight growth in dietary supplements, mainly in APAC

- ▶ AH with good growth driven by poultry & swine
- ▶ PH with very strong growth, albeit from modest base

Q3 HH with solid growth driven by infant formula, whilst dietary supplements was on par with last year

- ▶ AH with solid growth driven by poultry & swine; cattle sales were flat and thus below expectations despite customer wins and somewhat improved farmer economics
- ▶ PH with strong momentum in LATAM driven by both sugar cane and soy

Quarterly development of organic revenue growth and EBIT margin, %



29.2% EBIT MARGIN YTD 18/19 (0%-point yoy)

YTD EBIT margin on par with last year

Q3 ► EBIT margin on par with last year; lower gross margin offset by relatively lower growth in operating expenses

EUR million	Q3 17/18	Q3 18/19
Revenue	59.1	66.5
Organic growth	7%	11%
Volume/mix	7%	10%
EBIT margin	30.8%	30.8%
ROIC ex. goodwill		

YTD 17/18	YTD 18/19
164.6	184.6
8%	11%
8%	10%
29.2%	29.2%
26.0%	26.7%





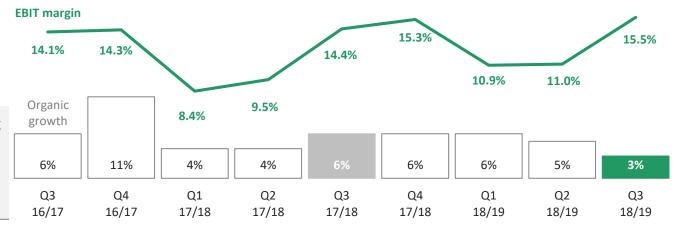
NCD below expectations due to increased headwinds in emerging markets

4% ORGANIC GROWTH YTD 18/19

Quarterly development of organic revenue growth and EBIT margin, %

- **YTD** Strong growth in coloring foodstuffs
 - Declining annatto and carmine prices impacted pricing negatively; largely offset by increases in other pigments
 - NA with strong growth due to conversion wins and EMEA with good growth; LATAM and APAC declined due to lower raw material prices and challenging economic climate

- Strong growth in coloring foodstuffs offset by flat or declining sales in traditional natural colors pigments
- ▶ Regionally growth was driven by conversion wins in NA; LATAM and EMEA flat (adverse conditions in Middle East), APAC declined due to softer demand and timing of orders



12.5% EBIT MARGIN YTD 18/19 (+1.6%-points yoy)

YTD Increase in EBIT margin driven by operating efficiencies, soft baseline and declining raw materials, partly offset by currencies

▶ 1.1%-points improvement in EBIT margin driven by operating efficiencies and declining raw materials, partly offset by FX

EUR million	Q3 17/18	Q3 18/19
Revenue	57.7	58.8
Organic growth	6%	3%
Volume/mix	4%	4%
EBIT margin	14.4%	15.5%
ROIC ex. goodwill		

YTD 17/18	YTD 18/19	
161.6	166.8	
5%	4%	
2%	5%	
10.9%	12.5%	
20.1%	21.7%	



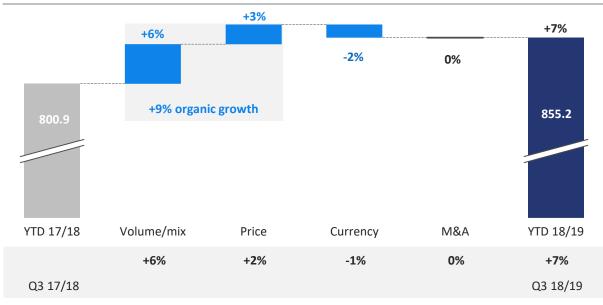
INCOME STATEMENT

Scalability benefits from Copenhagen site partly offset by NN1 investments

Comments YTD 2018/19

- ▶ Gross margin improvement of 1.5%-points mainly driven by FC&E and NCD; H&N with slight improvement
- ▶ Operating expenses increased to 27.2% of revenue (compared to 26.4% last year) due to strategic initiatives related to Nature's no. 1
- ▶ EBIT margin b.s.i. increased by 0.7%-point; immaterial impact from currencies
- ▶ Special items of EUR 1m related to Hundsbichler acquisition and Lonza JV

Group revenue growth YTD 2018/19



EUR million	YTD 17/18	YTD 18/19
Revenue	800.9	855.2
Cost of sales	(369.2)	(381.4)
Gross profit	431.7	473.8
Gross margin	53.9%	55.4%
R&D expenses	(56.2)	(59.4)
% of sales	7.0%	6.9%
Sales and marketing expenses	(102.1)	(117.4)
% of sales	12.7%	13.7%
Administrative expenses	(54.4)	(57.5)
% of sales	6.8%	6.7%
Other operating income/expenses	0.9	1.8
EBIT b.s.i.	219.9	241.3
EBIT b.s.i. margin	27.5%	28.2%
Special items	-	(1.4)
EBIT	219.9	239.9
EBIT margin	27.5%	28.1%
Net financial items	(14.6)	(11.8)
EBT	205.3	228.1
Income taxes	(47.2)	(52.5)
Tax rate	23.0%	23.0%
Profit for the year	158.1	175.6



CASH FLOW & BALANCE SHEET

Growth in CF from operations offset by higher taxes paid and capex

Comments

- Increase in cash flow from operating activities was driven by growth in operating profit and a favorable impact from higher non-trade payables relating to the discontinued export credit scheme last year, largely offset by higher taxes paid due to absence of acquisition-related benefits
- ▶ Increase in cash flow used for operational investing activities from 9.1% to 11.3% of revenue, primarily driven by capacity expansion of freeze-dried packaging in Copenhagen facility
- ▶ Cash flow used for acquisitions of EUR 10m related to the Hundsbichler acquisition

In EUR m	YTD 17/18	YTD 18/19
Cash flow		
Taxes paid	(42.7)	(65.7)
CF from operating activities	147.9	151.8
CF from operational investing activities	(72.6)	(96.7)
Free cash flow b.s.i.a.	75.4	56.5
Acquisition activities	-	(9.8)
Free cash flow	75.3	45.3
Balance sheet		
Total assets	1,848.2	1,974.9
Equity	809.5	837.0
Net interest-bearing debt	672.6	740.0
Key ratios		
Net working capital	21.9%	23.2%
Capital expenditure	9.1%	11.3%
ROIC excluding goodwill	34.2%	34.3%
NIBD/EBITDA	1.8x	1.8x



OUTLOOK

Reduced organic growth outlook and adjusted FCF guidance

	YTD 2018/19	Outlook 2018/19 As per Apr 3, 2019	Outlook 2018/19 As per June 26, 2019	Long-term financial ambition ²
Organic revenue growth	9%	9-11%	7-8%	8-10%
Food Cultures & Enzymes	9%	Above long-term ambition	Above long-term ambition	7-8%
Health & Nutrition	11%	10% or above	Around 10%	n.a.
Natural Colors	4%	5-7%	4-5%	n.a.
EBIT margin b.s.i.	28.2%	Around 29.5%	Around 29.5%	+30%
Free cash flow b.s.i.a.	EUR 57m	Around the same level as in 17/18 ³	Above 17/18 level ³	~10% CAGR

¹ The outlook is based on constant currencies and stable raw material prices and assumes no acquisitions. The outlook is also based on the current political and economic environment, although there is a risk of increased political and economic uncertainty – e.g. the economic climate in the Middle East and Latin America, the risk of a 'hard' Brexit, and trade tensions between large economies. Any deterioration in these situations might impact the outlook.

² Baseline 2016/17, updated at Capital Market Day on April 18, 2018.

³ Assumes lower growth in cash flow from operating activities than growth of EBIT before special items, due to a higher level of taxes to be paid in 2018/19, mainly related to the absence of acquisition-driven tax benefits realized in 2017/18.



