



Mowi ASA Equity Research

Target Price: EUR 21.59 **Current Price:** EUR 18.05 *Upside Potential:* + 19.63%

Recommendation: STRONG BUY

Vienna, January 28, 2021

Team Overview

Equity Research









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- Task distribution
- Industry Analysis



■ BSc. (WU) – International **Business Administration**

MSc. – SIMC 1st Semester



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PEOPLE.PLANET.PROFIT.



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- **Demand Analysis**
- Valuation



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SORAVIA





- BSc. (WU) 5th Semester
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- BSc. (WU) International **Business Administration**
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- BSc. (WU) Business Administration

Agenda



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Stock Price Performance

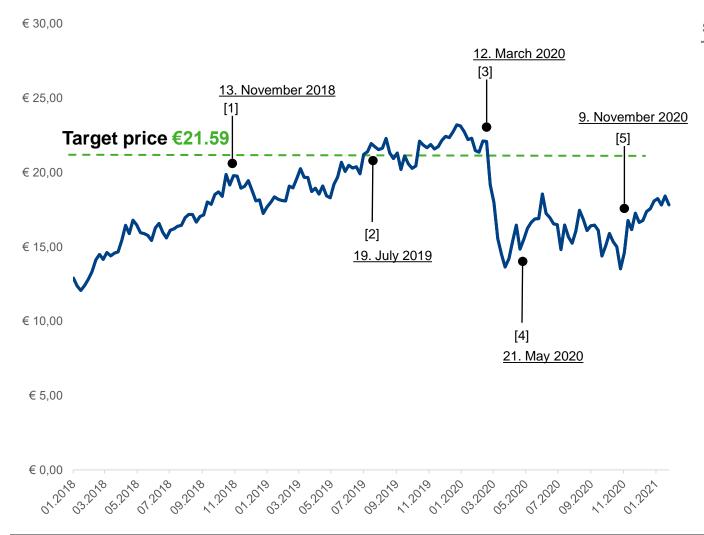






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After years of stable growth Mowi's share price fell as a result of the COVID-19 pandemic



Share price – Major Events

- [1] 13. November 2018 –
 Rebranding Marine Harvest to
 Mowi ASA and introducing new premium line of products
- [2] 19. July 2019 Mowi acquires K Strømmen Lakseoppdrett AS
- [3] 12. March 2020 \$2 billion wiped off value of farmed salmon producers in massive COVID-19 sell-off due to marked decline in the price of fresh salmon
- [4] 21. May 2020 Slow recovery after first lockdown wave, followed by readjusting after heading into the second wave of lockdowns
- [5] 9. November 2020 Breaking News of first "milestone' vaccine which offers 90% protection

Executive Summary





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Mowi profits from favourable macrotrends and strategic initiatives



Global population growth, a growing middle class and a shift in customer preferences boosting global demand

Upwards pressure on the price due to need for licenses, long life-cycle of production and climate change inhibiting rapid expansions of supply

Mowi is known for its shareholder-friendly dividend policy, characterised by a comparably high and stable dividend yield

Active pursuit for differentiation will enable Mowi to gain a competitive advantage in an otherwise commoditized market

Short-term demand for salmon and its price suppressed due to the restrictions on restaurants put in place to fight the current pandemic

History of alleged price-fixing across almost all major salmon producers and ongoing investigation by the European Commission without any results or compelling evidence in the public sphere

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Company Overview











Business description

 Mowi ASA is the world's largest producer of farm-raised salmon, both by volume and revenue, offering seafood products to approximately 70 countries and providing customers with 7.4 million meals a day

Mowi is the world-leading producer of farm-raised salmon

• Foundation: 1964

Headquarter: Bergen, Norway

Employees: 14,537

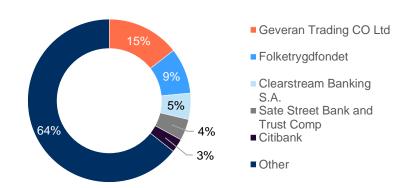
Market Cap in € millions: 9.449,7

• Ticker: Mowi ASA (OSE), MNHVF (Nasdaq OTC)

Key financial metrics

In € millions	2017	2018	2019	LTM
Revenue	3,626.1	3,749.8	4,074.2	3,805.9
% YoY growth	3.52%	3.28%	7.98%	(7.07%)
COGS	2,071.7	1,823.9	2,300.0	2,260.7
Gross Profit	1,577.7	1,988.0	1,835.6	1,606.6
% Margin	43.5%	53.0%	45.1%	42.2%
EBIT	666.0	889.8	590.0	352.2
% Margin	18.4%	23.7%	14.5%	9.3%
Net Profit	462.5	566.6	477.6	273.2
% Margin	12.8%	15.1%	11.7%	7.2%
Net debt (BV)	917.0	1,107.3	1,763.7	1,970.5
Equity (BV)	2,315.4	2,878.9	2,892.6	2,721.9

Shareholder structure



Senior leadership team



Ivan Vindheim Chief Executive Officer (since 2012)



Kristian Ellingsen Chief Financial Officer (since 2015)



Per-Roar Gjerde
Chief Operating
Officer Farming
Americas and the
Faroes
(since 2007)



Øyvind Oaland Chief Technology Officer/Head of Global R&D (since 2000)

Strategy









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Mowi is actively pursuing differentiation to compete in a competitive commodity market



Mowi Pure Brand Roll-out

- 2019: launch of new global brand MOWI
 Pure in Poland
- Premium brand with finest salmon from Norway targeting younger audience
- 2020: continued the roll-out of the brand in France and USA
- Higher margins through excluding thirdparty sellers and direct selling to restaurant chains, stores and ecommerce stores such as AmazonFresh, leading to independency against spot prices (unique quality product)



Traceability and Transparency

- Safe seafood, as consuming farmraised salmon is both safe and healthy
- Increasing customer trust through transparency and operational excellence
- Integrated value chain (from the parental broodstock to sales) allows full control and integrity of their products
- "Blue Revolution" as a sustainable strategy to operate an eco-efficient value chain and raise salmon in harmony with nature (aligns with 10 SDGs of United Nations)



R&D Capabilities

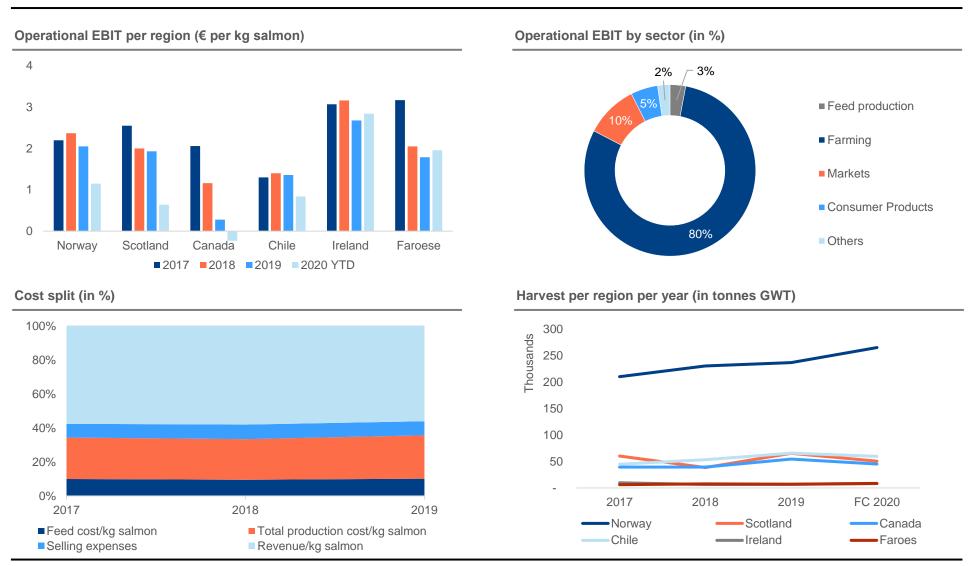
- Global presence and company size allow Mowi to invest heavily in potential biological and technological research fields and innovative ideas
- Recent collaboration with X to increase sustainable salmon farming
- R&D activities are categorized in
 - Fish welfare and robustness
 - Footprint
 - New growth
 - Production efficiency
 - Product quality and safety

Mowi aims to actively differentiate themselves in order to de-commoditize their products

Financials / KPI's



Maintaining a stable cost structure and growing harvest volumes are key to Mowi's success

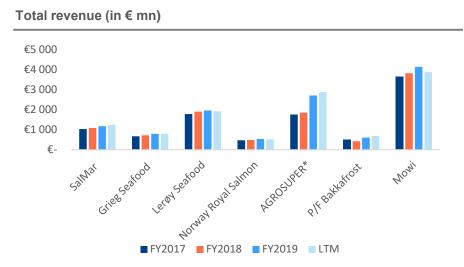


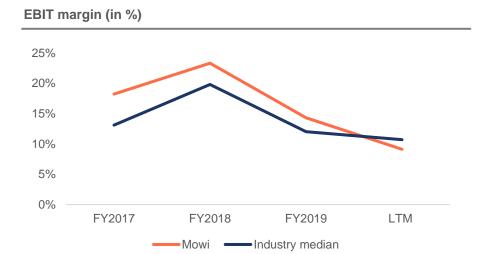
Source: Annual Reports, Team Analysis, Capital IQ

Competitor Benchmarking

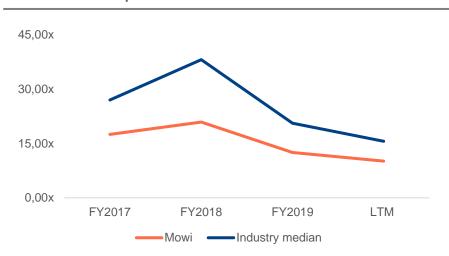


Mowi offers a comparably low-risk capital structure and a high dividend yield

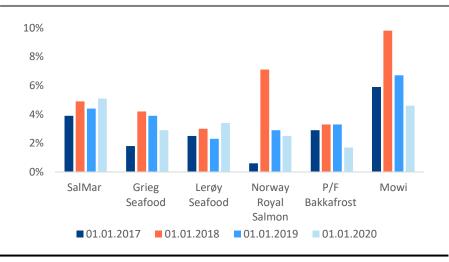




EBITDA/Interest expense



Yearly dividend yield (in %)



Source: Annual Reports, Team Analysis, Capital IQ

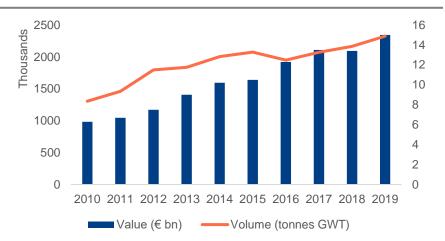


Industry Overview

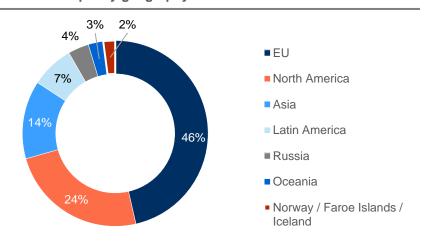


Stable growth and lots of large to medium sized players characterize the salmon market

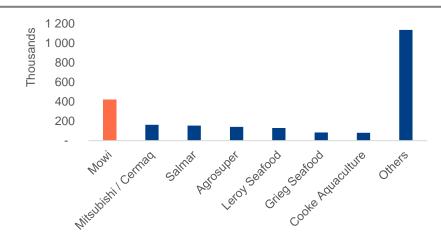
Global market size



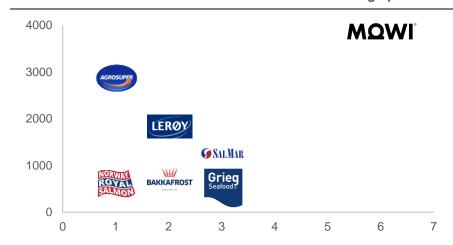
Current market split by geography



Industry structure (salmon tonnes GWT in 2019)



LTM revenue in € mn / # of countries with salmon farming operations



Supply: Geographies and Regulatory



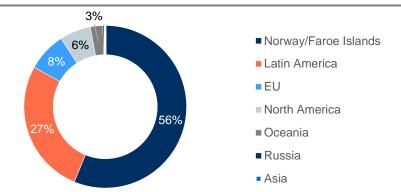




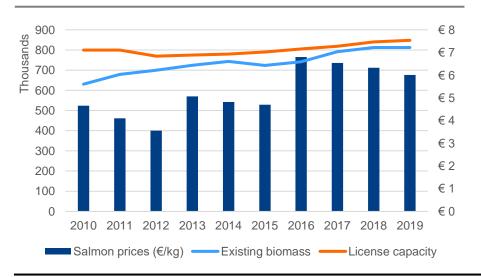


International activity leads to a strong impact of national farming policies

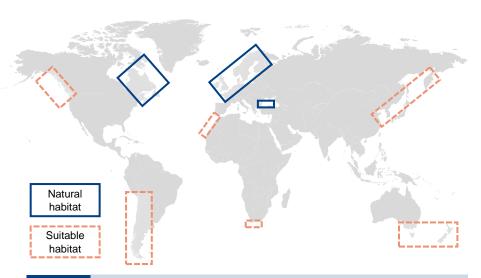
Global salmon supply per region 2019 (tonnes GWT)



Farming license capacity in Norway (tonnes GWT)*



Structural restrictions impede salmon farming





Steady water temperature and sheltered coastline

Salmon farms are very sensitive requiring between 8°C - 14°C and a sheltered coastline with limited sea streams



Climate change

Changing seawater temperature challenges current areas of production and makes (re-location) essential



Restriction to licenses

Amount of licenses possible in certain areas is heavily restricted due to biological risks

Supply: Population and Technology



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Despite inherent risks salmon production is continuously evolving

Lifestock at risk



Geographical differences

Disease and climate problems, vary with geographic location



Salmon lice

Costing farms approximately 9% of revenues per year



Excess feed and faeces

Causing algal blooms, toxic for fish and environment

Technology adds an increasing amount of value



November 2019:

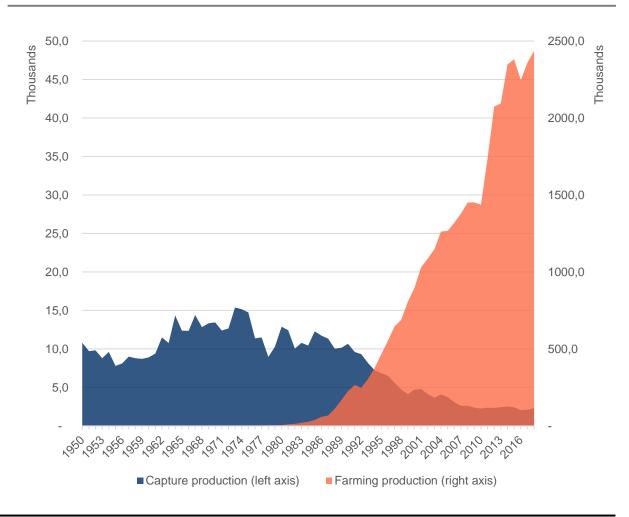
Construction plans for a fully automated underwater salmon plant for € mn 320



March 2020:

MOWI makes collaboration with Alphabet's X program public (data intelligence project in plants)

Commercial salmon production (in tonnes livestock)



Demand: Growth Trends









Various trends accelerate salmon demand growth globally

Demographic trends



Global population growth

World's population is expected to grow to almost 10 billion by 2050



Growing middle class

Middle class is growing as a result of income growth in emerging markets

Customer preferences



Climate change and resource efficiency

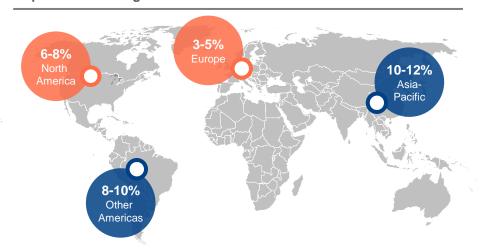
Concerns about climate change are influencing dietary choices and increased consumption of fish can reduce global GHG emissions



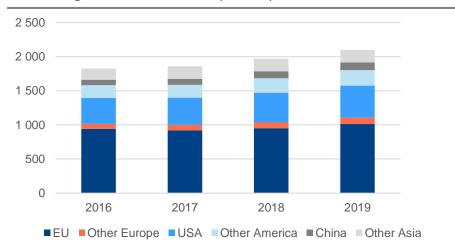
Health concerns

Increasingly being promoted by global health authorities and salmon is rich in omega-3 fatty acids, vitamins and minerals

Expected demand growth 2021-2025



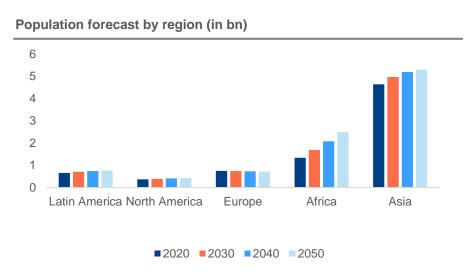
Historical global market demand (in GWT)



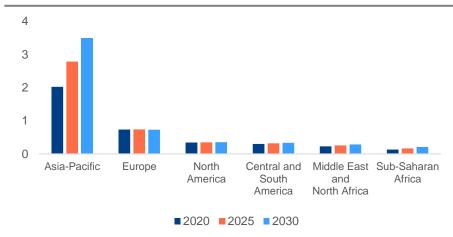
Demand: Demographic Trends



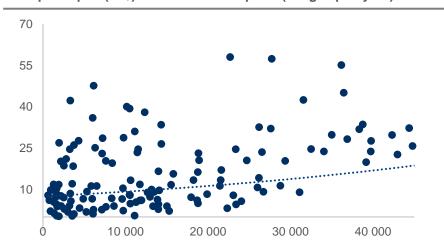
Stable global population growth in specific regions ensures continued steady demand



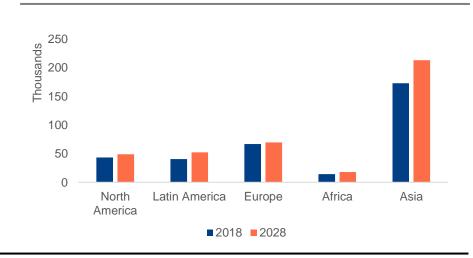
Global middle-class forecast (in bn)



GDP per capita (in \$) and fish consumption (in kg/capita/year)



Protein consumption forecast (in tonnes)



Demand: Consumer Preferences



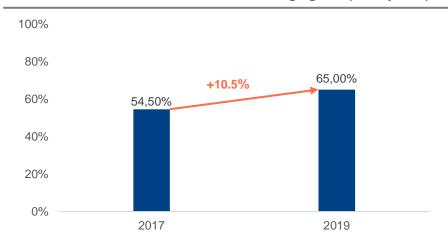




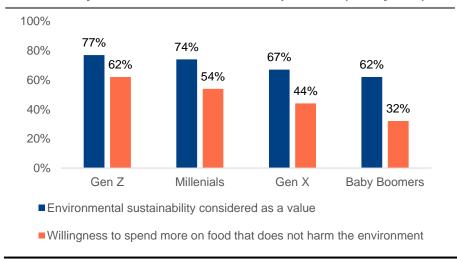


Younger generations foster salmon demand through health and climate concerns

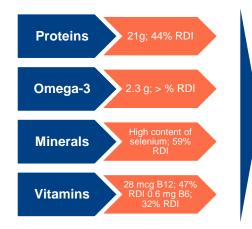
Health concerns as the main reason for changing diet (survey in %)



Sustainability concerns as a value for food purchase (survey in %)



A healthy product: for 100 g of salmon



Increasing number of national health organizations recommending increased oily fish consumption

Resource efficient protein

Carbon footprint	0.60	0.88	1.30	5.92
Land use	3.7	7.1	102	185
Feed conversion ratio	1.2-1.5	1.7-2	2.7-5	6-10
Protein retention (in %)	28%	37%	21%	14%
Calorie retention (in %)	25%	27%	16%	7%
Edible yield (in %)	68%	46%	52%	57%
Water consumption (I/kg)	2,000	4,300	6,000	15,400



Valuation Universe

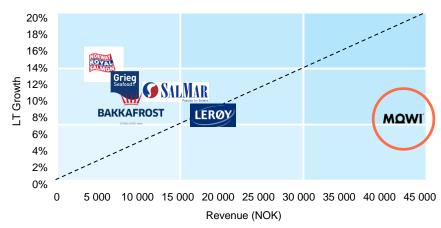


Mowi is dominating the salmon market with their 30% market share

Peers - overview



Peer group concentration



Peer group information



Salmon farming industry:

Concentrated market and few key players, clear geographical focus on Norway and Chile



Common theme:

Low Betas, wide range of multiples



Matching expectations:

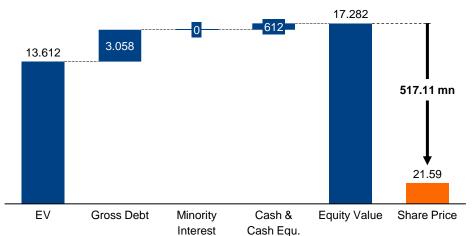
More demand for protein-rich sustainably farmed food; sustained moderate to high growth rates

Valuation Summary

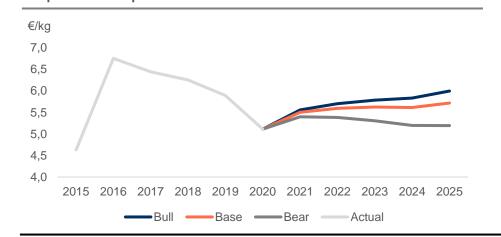


Mowi presents a strong upside, with their fair value at €21.59

Equity bridge 17.282



Implied salmon price scenarios



Outcome in different valuation scenarios



The bullish case scenario is mainly driven by a higher increase in global demand, led by stronger influence of climate change movements as well as a new health awareness of middle class from emerging markets



Mowi's base case scenario is based on the continuation of the current demographic and societal trends worldwide combined with the structural restrictions on supply



The bearish case scenario assumes longer than expected COVID-19 related restrictions as well as a slower increase in demand based on the trends outlined and unexpected supply expansion

Valuation approach

Salmon supply

Salmon demand

Implied salmon price + Forecasted operational scenarios

Fair value

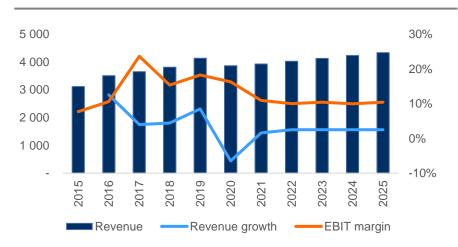
(Salmon price / Mowi correlation: 0.59)

DCF Analysis



Strong drivers will positively influence the share price

Revenue forecast in € mn



Operating assumptions



Revenue development:

Market leadership and rising sales of value-added products will lead to an increased revenue of 4-5 %



EBIT:

Mowi's integrated value chain will allow for resource and cost efficiency, leading to higher EBIT margins over time



Demand:

Macro trends will influence and further increase demand across the globe

Sensitivity analysis

Implied share price

EV/EBITDA

		7,0x	8,0x	9,0x	10,0x	11,0x
WACC	1.9%	18.0	20.2	22.4	24.5	26.7
	2.4%	17.5	19.6	21.7	23.8	25.9
	2.9%	16.9	19.0	21.6	23.1	25.1
	3.4%	16.4	18.4	20.4	22.4	24.4
	3.9%	15.9	17.8	19.8	21.7	23.7

Key inputs



WACC (2.89%):

Cost of Debt: 2.01%, Cost of Equity: 4.37%, Marginal Tax Rate: 22%



Terminal value:

Peer group EV/EBITDA multiple (adjusted for exceptional periods): 9.0x



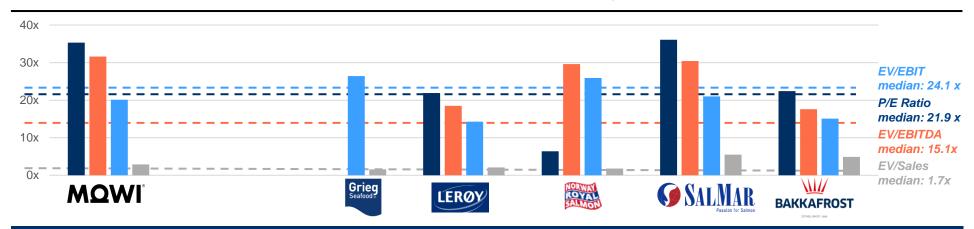
Beta (0.69):

Historical Equity Beta (OBX), target D/E: 1.5

CCA Analysis



Comparable companies analysis shows competitive advantage of Mowi



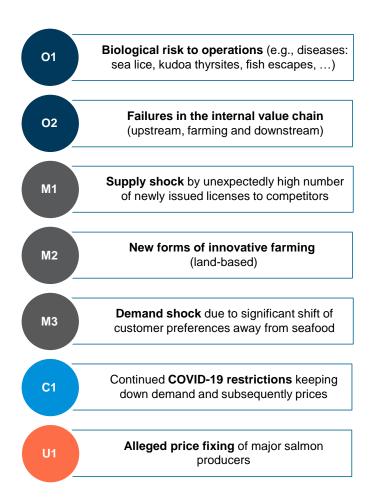
Peer Companies	Country	Currency	Value (mn)	P/E Ratio	EV/EBIT	EV / EBITDA	EV / Sales
MOWI ASA	NO	NOK	11,121.66	35.3x	31.6x	20.1x	2.9x
Alliance Select Foods International	PHL	PHP	2,860	NA	NA	NA	0.8x
Blumar SA	CL	CLP	506,933	NA	NA	NA	1.6x
Camanchaca SA	CL	CLP	449,640	NA	61.7x	10.9x	1.0x
Grieg Seafood ASA	NO	NOK	13,016	NA	NA	26.4x	1.6x
Lerøy Seafood Group ASA	NO	NOK	42,738	21.9x	18.5x	14.3x	2.1x
NEW Zealand King Salmon Invest	NZ	NZD	262	12.5x	11.7x	8.8x	1.7x
Norway Royal Salmon ASA	NZ	NOK	9,839	6.4x	29.6x	25.9x	1.8x
P/F Bakkafrost	NO	NOK	39,006	36.1x	30.4x	21.0x	5.5x
SalMar ASA	NO	NOK	63,601	22.4x	17.6x	15.1x	4.9x
Median			53,836	21.9x	24.1x	15.1x	1.7x
Average			67,454	19.8x	28.2x	17.5x	2.3x

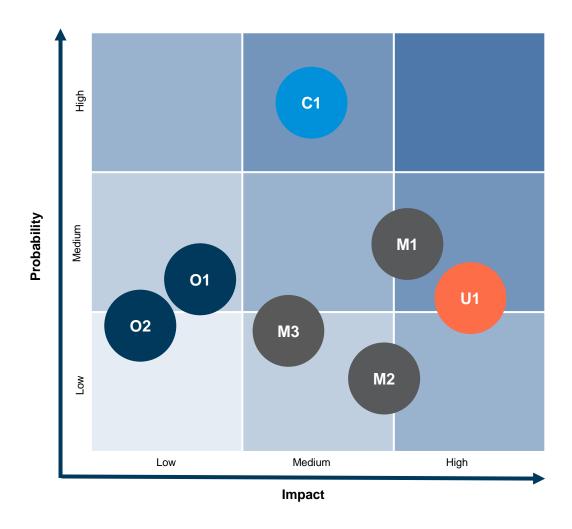


Company Specific Risks



Various risks could potentially impede Mowi's profitability





Operations (O) - Market (M) - COVID-19 (C) - Uncategorized (U)

Catalysts









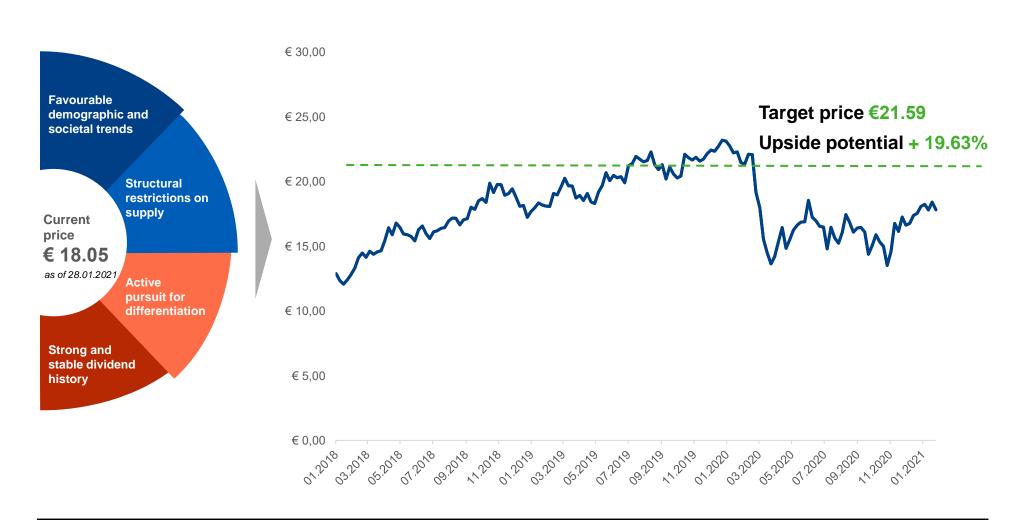
Variety of events which can influence Mowi's share price performance

Catalyst	Туре	Influenced factor	Estimated impact on share price
Earlier than expected end of COVID-19 related restrictions	Hard	Demand and salmon price	Strong – Mowi's share price is heavily affected by the current restrictions due to the decrease of the global salmon price
Sustainability pricing mechanisms	Hard	Demand and salmon price	Strong – Implementation of measures to price in sustainability of production into goods would significantly increase attractiveness of salmon to end consumers
Customer preference shift rendering salmon as a superfood	Soft	Demand and salmon price	Strong – As seen in various other agriculture products, customer preference shifts can heavily impact the price development, significantly increasing margins achieved
Successful differentiation strategy	Soft	Correlation to salmon price	Strong – Successfully implementing strategies to differentiate will enable Mowi to charge higher prices than what the market would pay for the commodity
Increased governmental support	Soft	Operational efficiency	Medium – Especially in Norway the salmon farming industry is an important part of the overall industry, deregulation would increase margins
Continued political unrest in Chile	Soft	Supply and salmon price	Medium – Increase in power by current opposition would result in significant decrease of new aquaculture license issuances

Conclusion



Mowi is significantly undervalued with an upside potential of 19.63%

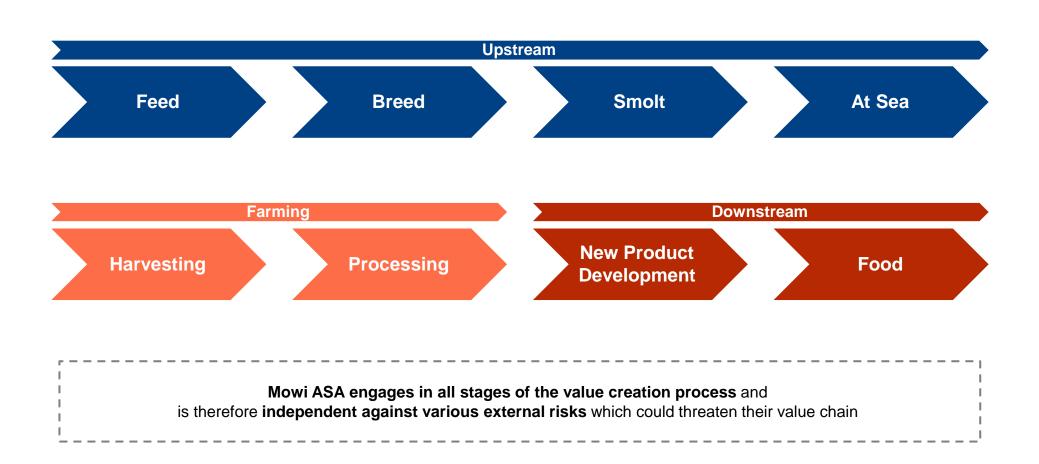




Fully integrated value chain



Mowi enjoys full control of their products: from the parental broodstock to sales



SWOT analysis



Strengths predominate weaknesses, fostering Mowi as a value investment

STRENGTHS

- Focus on quality, receiving a wide variety of certifications
- High level of vertical integration, resulting in a strong operational partner network
- Economies of scale, market leader and worldwide presence
- Strong R&D capabilities, creating a unique competitive advantage by being at the forefront of Innovation

OPPORTUNITIES

- Further establishment of key technological partnerships to boost R&D initiatives like with Alphabet's X
- Robust global demand growth for salmon
- Strategy to de-commoditize their products, decreasing reliance on global salmon spot prices
- Differentiation by further implementation of traceability initiatives

MQWI

- Highly dependent on European market
- Vulnerable to global salmon spot prices
- Poor performance and negative operational EBIT in Canada

- Continued COVID-19 impact on global demand due to shut-downs and further governmental activities
- Biological risks to operations, especially in the production process of their fish products
- Perishable nature of products
- Strict and changing regulations in various countries

WEAKNESSES

THREATS

Industry analysis









Industry characterized by varying degrees of strength of forces

Threat of new entrants

- Low product differentiation (+)
 - Robust growth (+)
- Importance of economies of scale (-)
- Highly capital-intensive industry (-)
 - High level of regulation (-)

MODERATE THREAT

Threat of substitution

Staple in many diets with robust demand growth (-)

Overfishing of oceans rendering fishing

as an unsuitable alternative (-)

High cost and low sustainability of

land-based salmon farming (-)

LOW THREAT



Rivalry for big supply contracts (+)
Small number of large-scale companies (+)
Undifferentiated product (+)
Differentiation by vertical integration (-)
Robust demand growth (-)

HIGH DEGREE OF COMPETITION

Bargaining Power of Buyers

Wide range of potential buyers (-) Low degree of backward integration potential (-) Rise of forward integration (-)

Relatively low switching cost (+)
Low product differentiation (+)

LOW POWER

Bargaining Power of Suppliers

Wide range of suppliers for equipment and labour (-)

For certain supply (e.g. feed) small number of suppliers (+)

Suppliers dependent from relatively small number of large customers (-)
Differences in operations making backward integration highly unlikely (+)

MODERATE POWER



DCF Model (Base Case)

	LTM forec									ecast		
EUR (m)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
Fractional years per period						0,75	1,00	1,00	1,00	1,00	1,00	
Cumulative fractional years from close						0,75	1,75	2,75	3,75	4,75	5,75	
Assumptions												
Assumptions												
Net debt 2.445,6												
Fully diluted shares outstanding 517.111.091												
Tax rate 22%												
Unlevered Free Cash Flow (UFCF)												
EBITDA	454,3	685,0	941,8	887,0	1.006,4	978,1	1.066,9	1.078,0	1.131,8	1.188,4	1.247,9	
EBITA would be correct (D&A not split tho so EBITI	454,3	685,0	941,8	887,0	1.006,4	978,1	1.066,9	1.078,0	1.131,8	1.188,4	1.247,9	
Taxes	91,8	219,9	59,9	165,0	131,1	52,8	163,9	162,7	170,9	179,4	188,4	
Unlevered net income	362,5	465,1	881,9	722,0	875,3	925,3	903,0	915,2	961,0	1.009,0	1.059,5	
Depreciation	139,8	142,5	150,4	153,4	287,1	324,6	322,1	338,2	355,1	372,8	391,5	
Capital expenditures	215,8	186,9	225,0	286,8	432,6	319,6	294,0	404,6	336,1	441,6	463,7	
Change in working capital		247,1	-305,3	497,3	-63,8	-136,6	9,3	225,9	42,2	92,9	97,6	
Unlevered free cash flow	286,5	173,6	1112,6	91,3	793,6	1066,9	921,8	622,9	937,8	847,3	889,6	
DCF Valuation												
Terminal cash flow (09x terminal multiple)											11.230,8	
Total cash flow - EBITDA Multiple	286,5	173,6	1.112,6	91,3	793,6	1.066,9	921,8	622,9	937,8	847,3	12.120,4	
Net present value 13.611,9												
Implied share price 21,6						ŧ						

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W U T I S

DCF Model (Bull Case)

						LTM	LTM forecast					
EUR (m)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
Fractional years per period						0,75	1.00	1,00	1,00	1.00	1,00	
Cumulative fractional years from close						0,75	1,75	2,75	3,75	4,75	5,75	
Assumptions												
Net debt 2.445,6												
Fully diluted shares outstanding 517.111.091												
Tax rate 22%												
Unlevered Free Cash Flow (UFCF)												
EBITDA	454,3	685,0	941,8	887,0	1.006,4	978,1	1.178,7	1.206,4	1.278,8	1.355,5	1.436,8	
EBITA would be correct (D&A not split tho so EBITI	454,3	685,0	941,8	887,0	1.006,4	978,1	1.178,7	1.206,4	1.278,8	1.355,5	1.436,8	
Taxes	91,8	219,9	59,9	165,0	131,1	52,8	196,7	199,1	211,0	223,7	237,1	
Unlevered net income	362,5	465,1	881,9	722,0	875,3	925,3	982,0	1.007,3	1.067,8	1.131,8	1.199,7	
Depreciation	139,8	142,5	150,4	153,4	287,1	324,6	284,5	301,6	319,7	338,9	359,2	
Capital expenditures	215,8	186,9	225,0	286,8	432,6	319,6	269,3	382,1	313,7	423,8	449,2	
Change in working capital		247,1	-305,3	497,3	-63,8	-136,6	24,5	245,2	61,0	114,7	121,6	
Unlevered free cash flow	286,5	173,6	1112,6	91,3	793,6	1066,9	972,8	681,7	1.012,8	932,2	988,1	
DCF Valuation												
Terminal cash flow (09x terminal multiple)											12.931,4	
Total cash flow - EBITDA Multiple	286,5	173,6	1.112,6	91,3	793,6	1.066,9	972,8	681,7	1.012,8	932,2	13.919,5	
Net present value 15.421,7												
Implied share price 25,1						· ·						

W U T I S

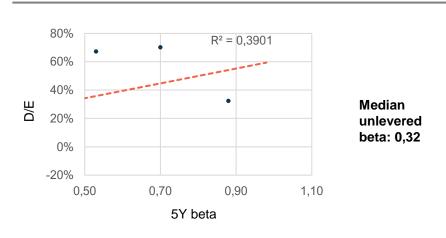
DCF Model (Bear Case)

						LTM			forecast		
EUR (m)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Fractional years per period						0,75	1,00	1,00	1,00	1,00	1,00
Cumulative fractional years from close						0,75	1,75	2,75	3,75	4,75	5,75
Assumptions											
Net debt 2.445,6											
Fully diluted shares outstanding 517.111.091											
Tax rate 22%											
14.14.0											
Unlevered Free Cash Flow (UFCF)											
· <i>'</i>											
EBITDA	454,3	685,0	941,8	887,0	1.006,4	978,1	858,8	843,9	869,2	895,3	922,2
EBITA would be correct (D&A not split tho so EBITI		685,0	941,8	887,0	1.006,4	978,1	858,8	843,9	869,2	895,3	922,2
Taxes	91,8	219,9	59,9	165,0	131,1	52,8	110,8	105,1	108,3	111,5	114,9
Unlevered net income	362,5	465,1	881,9	722,0	875,3	925,3	748,1	738,8	760,9	783,8	807,3
Depreciation	139,8	142,5	150,4	153,4	287,1	324,6	355,4	366,0	377,0	388,3	400,0
Capital expenditures	215,8	186,9	225,0	286,8	432,6	319,6	301,8	405,1	333,5	427,3	440,1
Change in working capital		247,1	-305,3	497,3	-63,8	-136,6	- 21,1	188,3	6,5	52,6	54,2
Unlevered free cash flow	286,5	173,6	1112,6	91,3	793,6	1066,9	822,8	511,4	797,9	692,2	712,9
DCF Valuation											
DCF Valuation											
Terminal cash flow (09x terminal multiple)											8.299,5
Total cash flow - EBITDA Multiple	286,5	173,6	1.112,6	91,3	793,6	1.066,9	822,8	511,4	797,9	692,2	9.012,5
. Stat. Stat. Heart Pre	200,5	275,0	,	31,3	. 55,0	2.000,5	522,0	511,1	. 31,3	332,2	5.522,5
Net present value 10.448,3											
Implied share price 15,5						1					

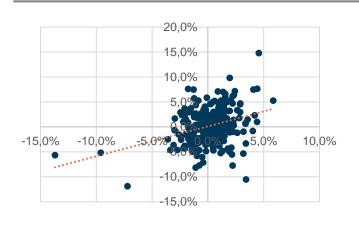


Quantitative analysis

Peer group beta

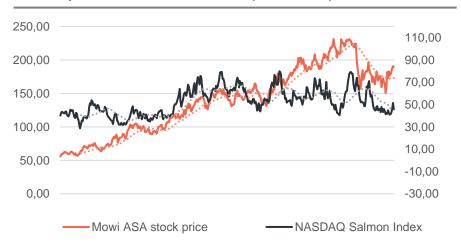


Historical equity beta (OBX)



Regression slope: 0,60

Salmon price / Mowi ASA corellation (2013 - 2020)



Salmon price forward prices





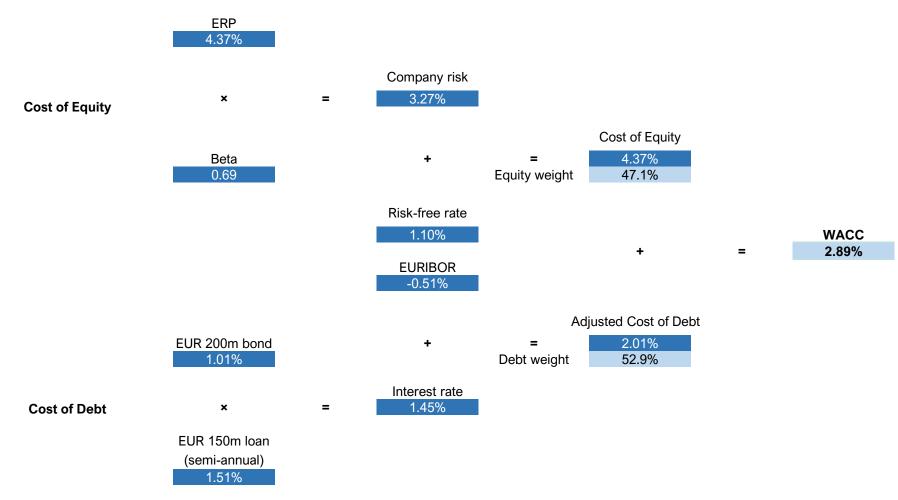






WACC Tree

Weighted Average Cost of Capital (WACC)



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