

Ecolab Inc. Specialist in water treatment and hygiene

Equity Research Division

Target Price: \$ 121.02 Current Price: \$ 169.82 Downside Potential 28.7%

Recommendation: SELL

Vienna, 10th of June 2022

Team Overview

Equity Research





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- Task distribution
- Story guideline







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EUROPEAN YOUTH PARLIAMENT PARLEMENT EUROPEEN DES JEUNES

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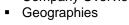
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- Company Overview

<u> 7</u>



HORVÁTH

pwc

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■ BSc. (WU) – 2nd Sem.



 M.A. (LBS) – 2nd Sem. MSc. (UW) – 4th Sem.

BSc. (WU) – 4th Sem.

Agenda

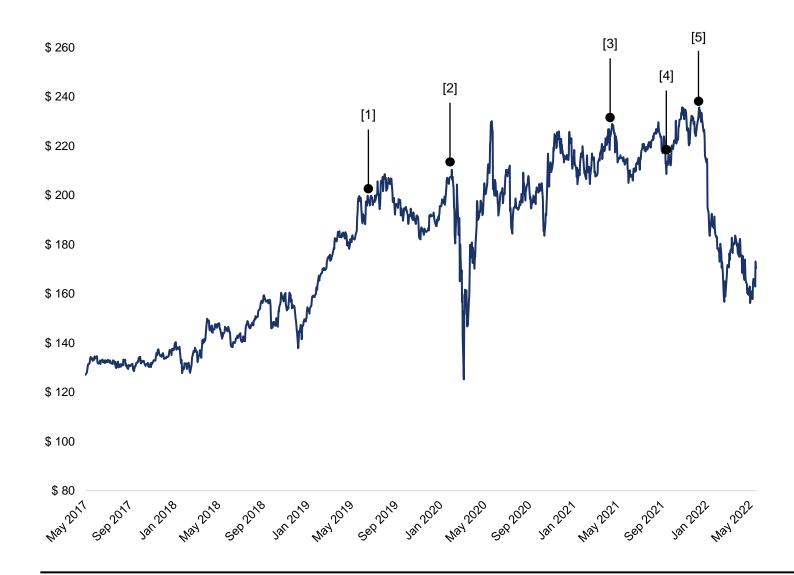


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Share Price Performance



The share price development shows constant investor expectations, recently severly harmed by crisis



Share Price – Major Events

- [1] Jul 2019 (-11.5%) Dropped from Russell Value-Defensive Index, leading to Index-tracking funds excluding Ecolab from their portfolios
- [2] Feb 2020 (-40.5%) COVID-19 shutdowns cause instability and shock the global economy which leads to massive drops in the stock market
- [3] Apr 2021 (-9.5%) Ecolab announces the closing of several facilities (e.g., Mississippi)
- [4] Oct 2021 (+6.6%) Acquisition of Purolite to boost life sciences exposure in the purification industry and enlarge the market presence
- [5] Jan 2021 Jun 2022 (-27.7%) Downward economy due to Russia/Ukraine war and all-time high inflation

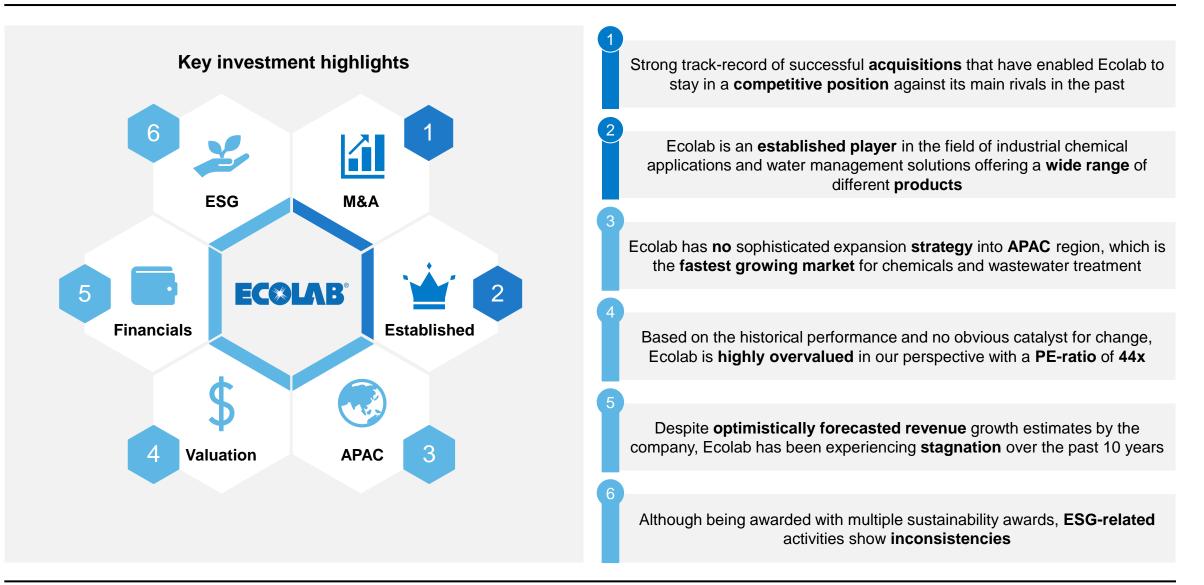
Key Stats

- 52 week range: \$ 154.31 \$ 238.93
- IPO: Jan 1957 at \$ 15
- Market Cap: \$ 48.62 bn
- Shares Outstanding: 286 mn

Investment Thesis



A supposed global leader failing to fulfill ESG hopes and stuck with a lofty valuation





Company Overview

W U T I S

A global player with \$ 12.7 bn revenue in the water treatment and purification industry

Company Description

Ecolab is a **chemical company**, offering products and solutions ranging **from chemicals** with an industrial application **to water management solutions**



Founded in 1923



Headquarters in St. Paul, MN, USA

- 47 000 employees
- S Operations in more than 170 countries

Management



Christophe Beck Chairman, President & CEO Since 2007



Scott Kirkland CFO Since 2005



Shareholder Structure

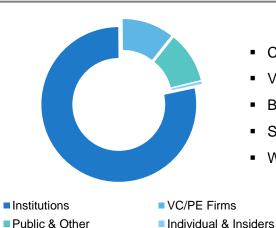
Nicholas Alfano Executive VP & GM Since 1996



Dr. Larry Berger Executive VP & CTO Since 2008

Financials

USD mn	2018	2019	2020	2021
Revenue	14 668	12 562	11 790	12 733
Revenue Growth (%)	6.02%	-14.36%	-6.14%	8%
EBITDA	1 947	1 845	1 395	1 598
EBITDA Margin (%)	13.27%	14.69%	11.84%	12.55%
Net Income	1 429	1 558	-1 205	1 129
Net income Margin (%)	9.74%	12.41%	-10.22%	8.87%



- Cascade Investment LLC (10.74%)
- Vanguard Group (7.62%)
- BlackRock (7.11%)
- State Street Corp. (3.99%)
- Wellington Management LLP (3.24%)

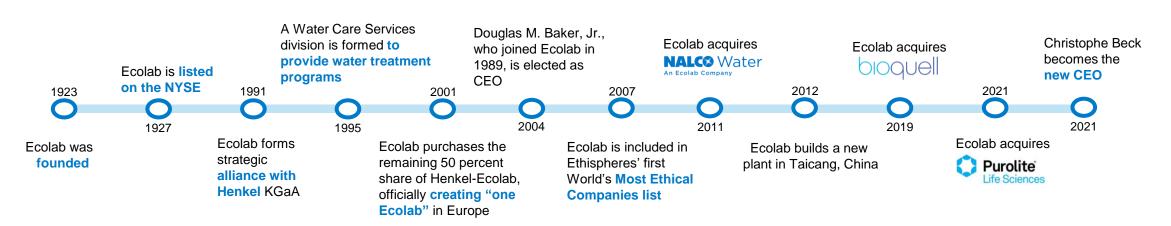
Sources: Annual Report, Bloomberg

Company Timeline

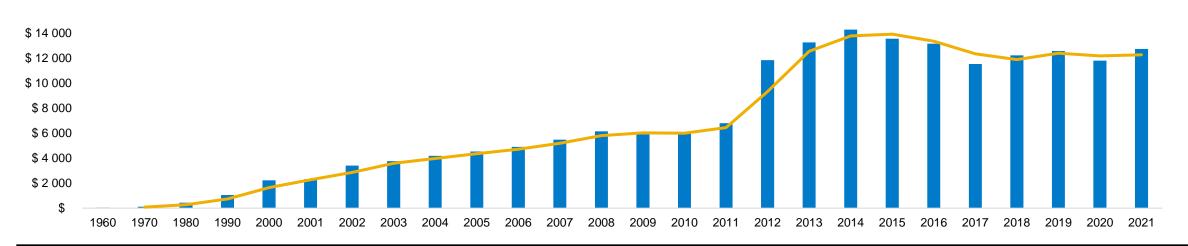


An established player in a niche market with a rich history, struggling with stagnating growth recently

Ecolab's history



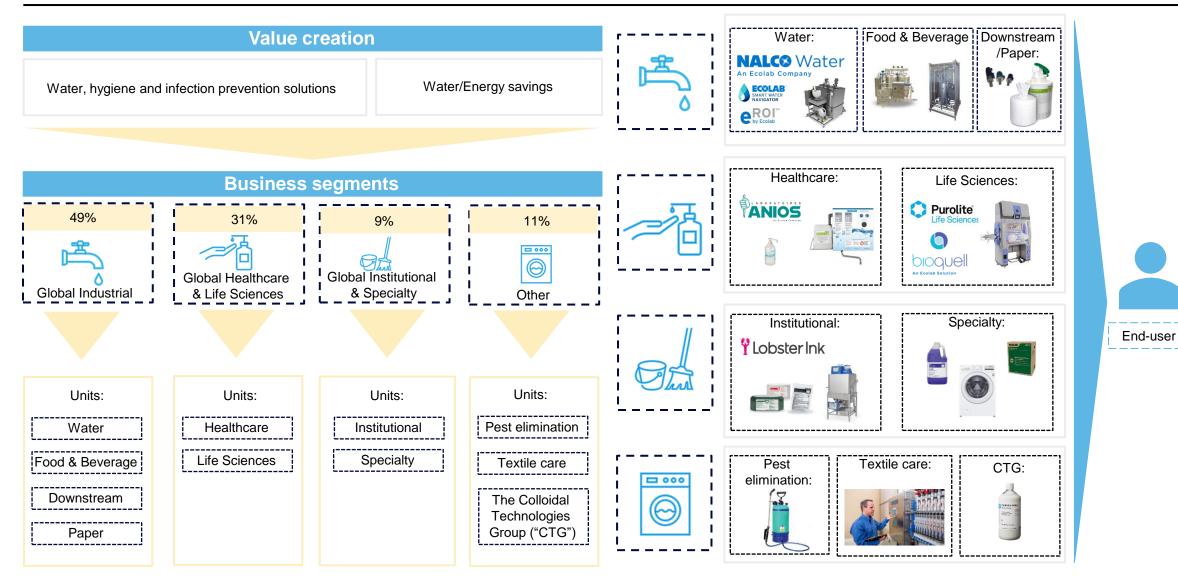
Revenue growth throughout history (in mn)



Value Creation



Providing water, hygiene and infection prevention solutions and services for a variety of customers

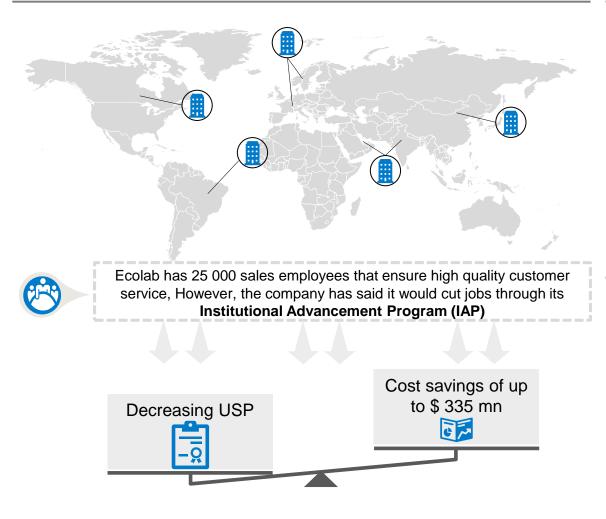


Customer Relations & Investment Strategy

W U T I S

Strategic inconsistencies make it hard for Ecolab to follow through with its business model's potential

Customer Relations & IAP

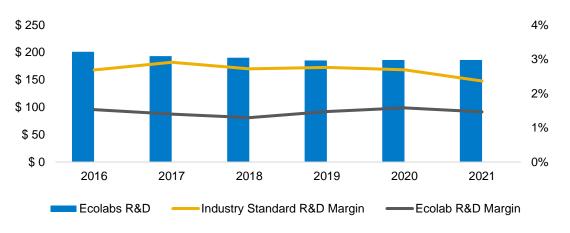


Innovation through M&A

Ecolab **added the most innovative products** in its portfolio such as Water Treatment Solutions (TRASAR) and Resin Technology **via M&A activity**



In order to remain competitive, Ecolab relies on significant funds to fuel M&A activity

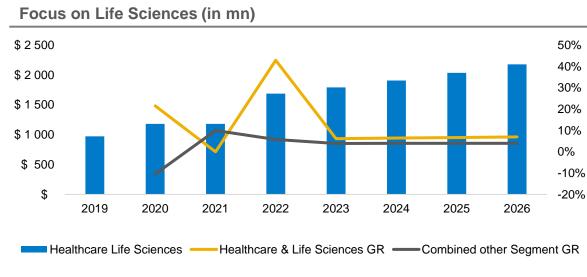


Ecolab's Research & Development – Industry Comparison (in mn)

Segment Focus & Expansion

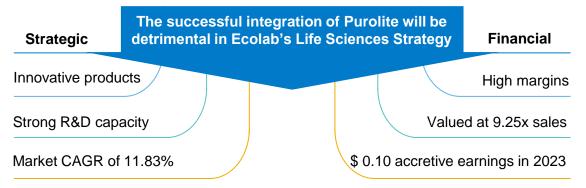


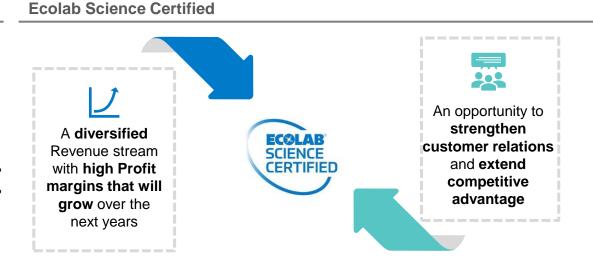
Ecolab is looking to set a strong focus on the development on its Healthcare & Life Science segment



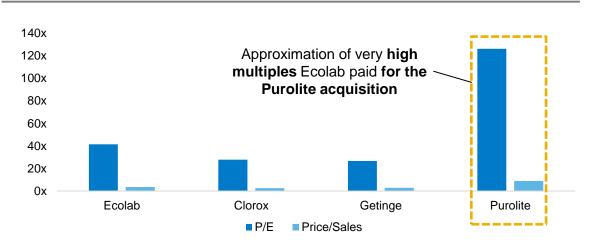
Integration of Purolite

Purolite is a **medical company** focusing on clinical applications of resin technology in areas such as mRNA and will **add to Ecolab's Life Science Business**





Purolite acquisition – a closer look

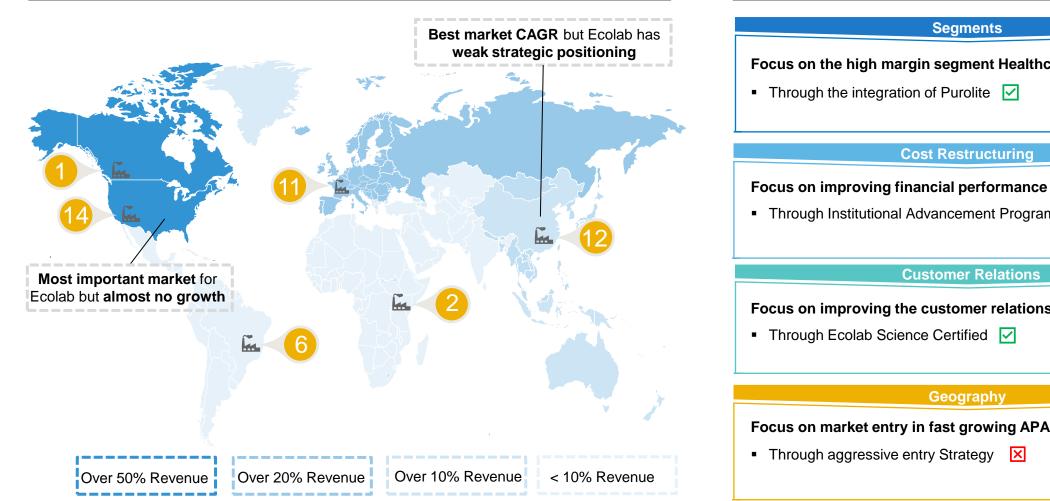


Geographies & Strategy Overview

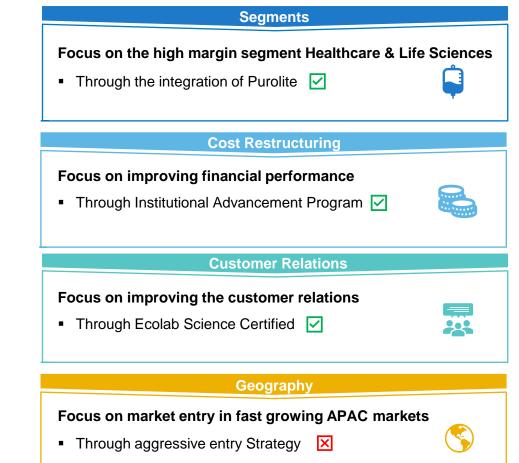


Ecolab is lacking diversification in terms of its geographic distribution amongst other shortfalls





Strategy Overview & Business Needs

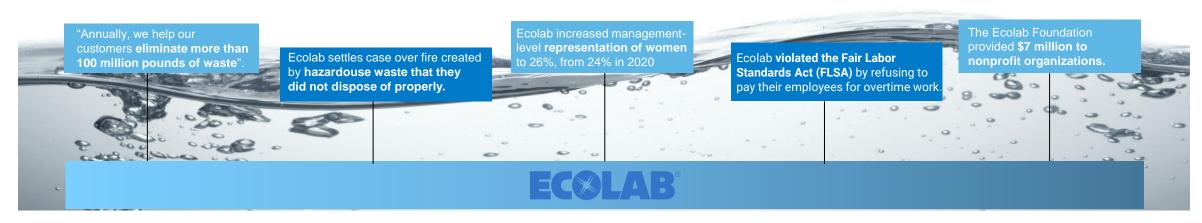


ESG Evaluation



Despite proclamations for ESG importance, Ecolab repeatedly fails to keep up with expected standards

Ecolab's ESG Journey



Awards & Recognitions

Organization	Description	Year				
WORLD'S MOST ETHICAL COMPANIES	The World's Most Ethical Company For the 15th consecutive year, Ecolab was named one of the World's	2019	Ecc 201			
WWW.ETHISPHERE.COM	Most Ethical Companies by the Ethisphere Institute.					
FORTUNE World's Most Anniden	ANMIDEN For the seventh consecutive year, Ecolab was named to Fortune's list of		thre Oxy			
COMPANIES	the World's Most Admired Companies.		Ecc			
UUST Bay	The Most Just Company Ecolab was named one of America's Most Just Companies by Forbes,	2021	Sta pay			
	ranking 22nd on the 2021 list.		Ecc			

News & Reality

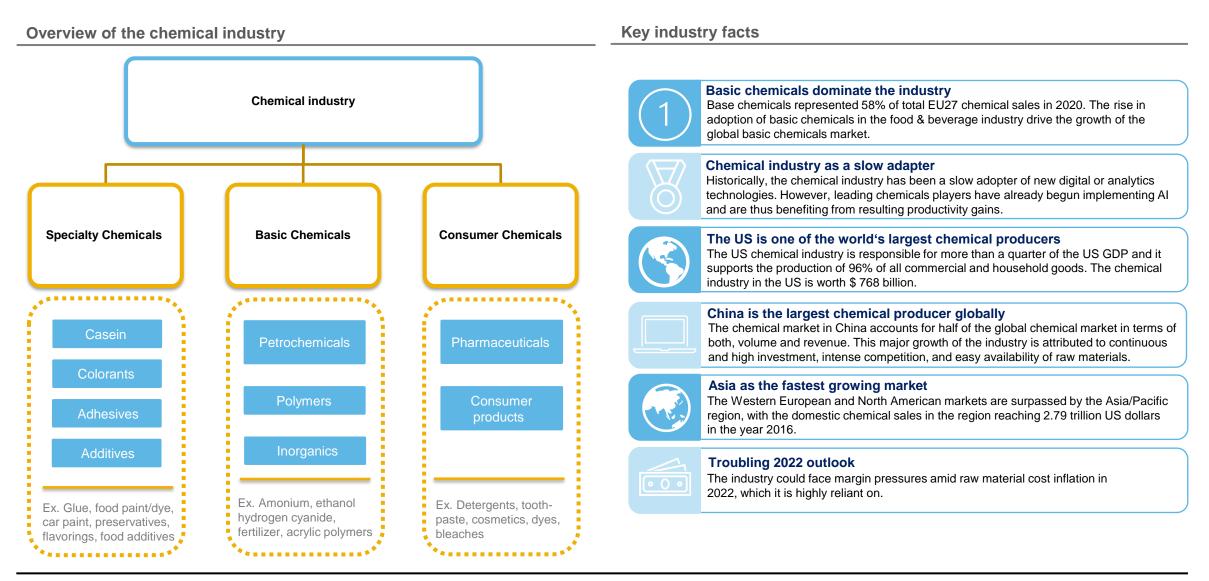
Year	News
2019	Ecolab pays \$ 214K penalty for hazardous waste, pesticides violations and 2019 Tacoma Tideflats fire.
2020	A California law firm has filed a class action lawsuit against Ecolab on behalf of three plaintiffs alleging they sustained personal injuries through use of OxyCide.
2021	Ecolab settled a case where it was accused of violating the Fair Labor Standards Act (FLSA) and state wage and hour laws by withholding overtime pay.
2022	Ecolab accused of firing whistleblower employees

Market and Industry Overview

Chemical industry - Market Drivers & Trends



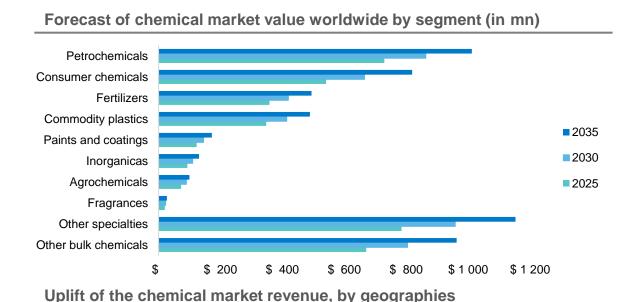
Expected margin pressure in the chemicals industry might prove to be an obstacle



Chemical industry - Market Drivers & Trends

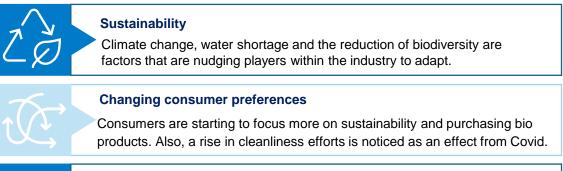


Despite market growth, Ecolab might fail to exploit the right market trends within chemicals



North America Europe Asia 35% Q1 2020 Q1 2021 5 - Year Q1 2020 Q1 2021 5 - Year 5 - Year Q1 2020 Q1 2021 Q1 Q1 Q1 Average Average Average

Key trends within the chemical industry

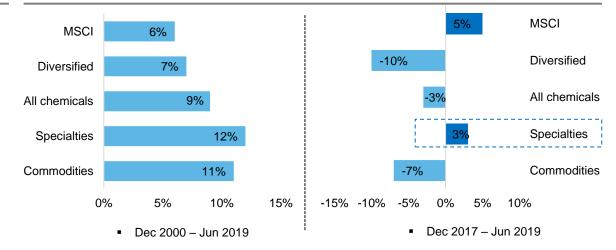




Demographics and geopolitical tensions

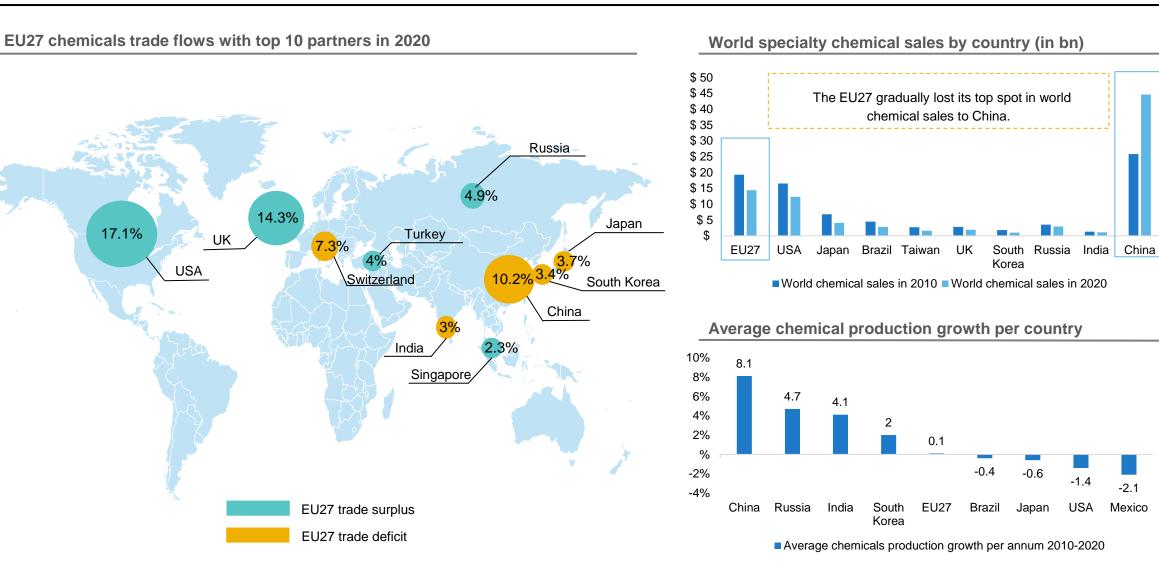
Challenging for Western players, who may find themselves partially being excluded from Eastern growth markets.

Total shareholder returns , compound annual growth rate



Chemical industry - Market

Chemical industry geographical overview with the focus on EU27

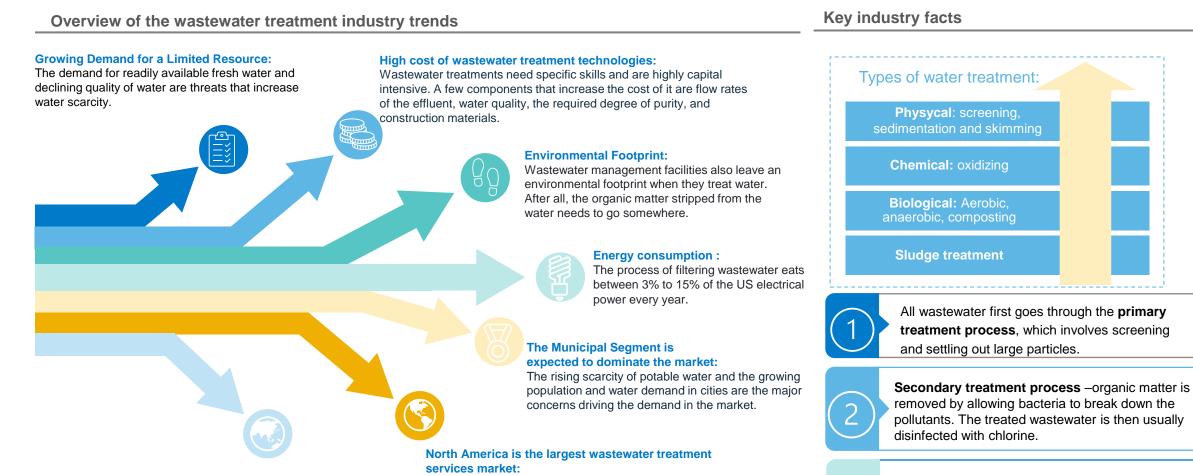




Wastewater treatment – Market Drivers & Trends



Growing demand for a limited resource could prove difficult to service for Ecolab and other players



APAC is the fastest-growing wastewater treatment services market:

However, establishing new plants and creating a value supply chain in the APAC are expected to be a challenge for industry players as there is low urbanization and industrialization.. North America has always been a major market due to the

presence of developed industrial sector in the region. This

market is growing more due to adoption of stringent

regulations towards the environment.

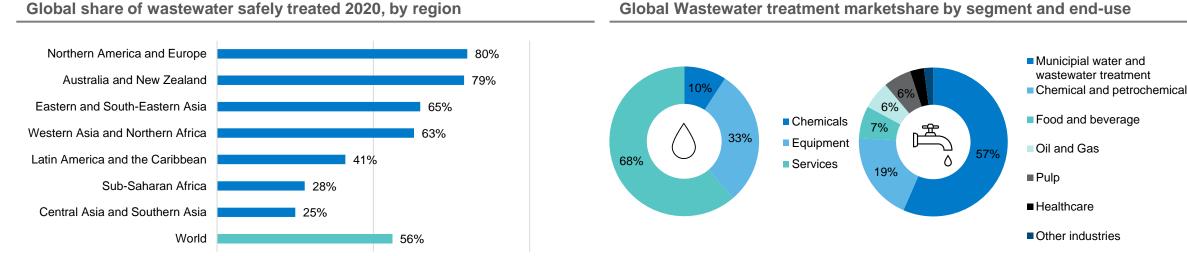
Lastly, there is an advanced treatment process to

the local waterbody, such as nitrogen or phosphorus

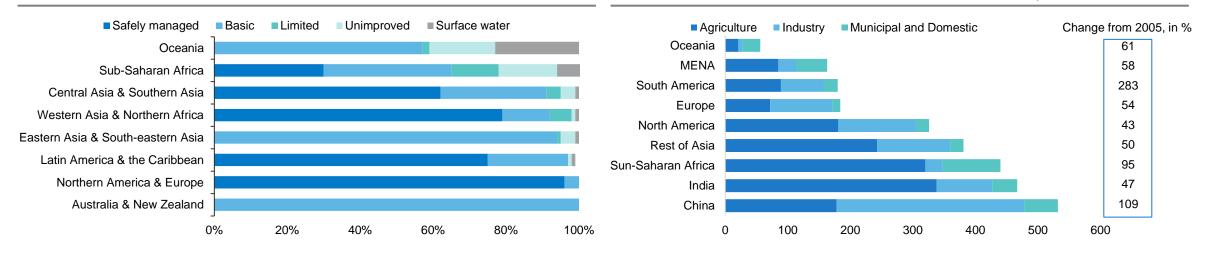
reduce the level of pollutants of special concern to

Wastewater treatment – Market Drivers & Trends

Wastewater treatment mostly needed in the APAC region and Sub-Saharan Africa in the upcoming years



Water and Wastewater treatment marketsize worldwide



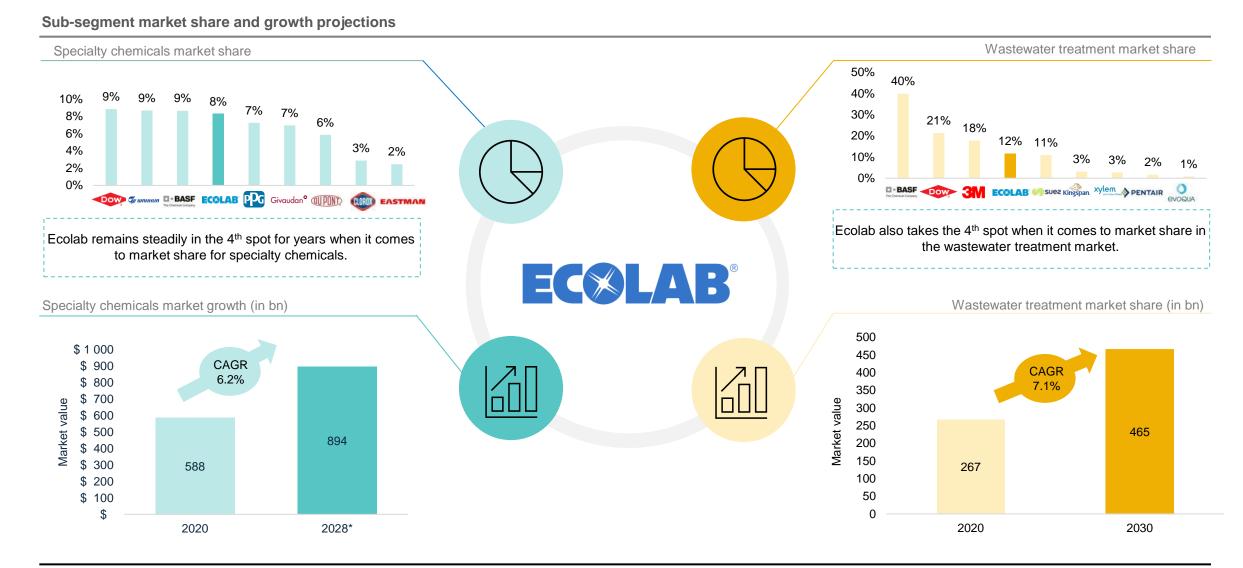
Increase in annual water demand 2005-2030 worldwide, in billion m^3



Specialty Chemicals and Wastewater Treatment – Market



Ecolab lands the 4th spot in terms of market share in both industries



Source: 2030 Water Resources Group, Fortune Business Insights,

ECOLAB Digital Center

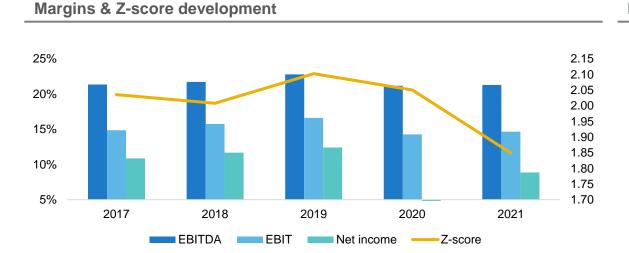
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Financial Analysis and Valuation

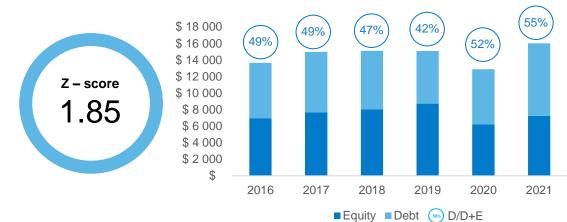
Financials/KPI's I



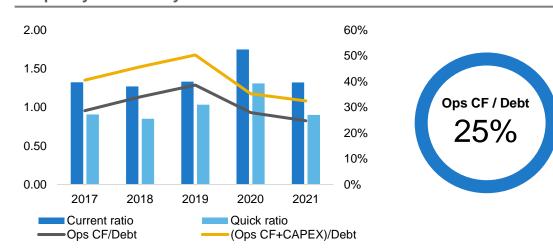
Profitability and liquidity are on the decline for Ecolab, possibly resulting in solvency issues



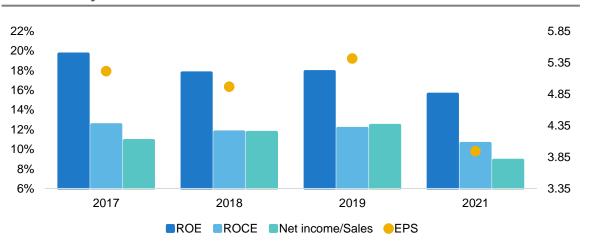
Funding structure (in mn)



Liquidity & Solvency



Profitability

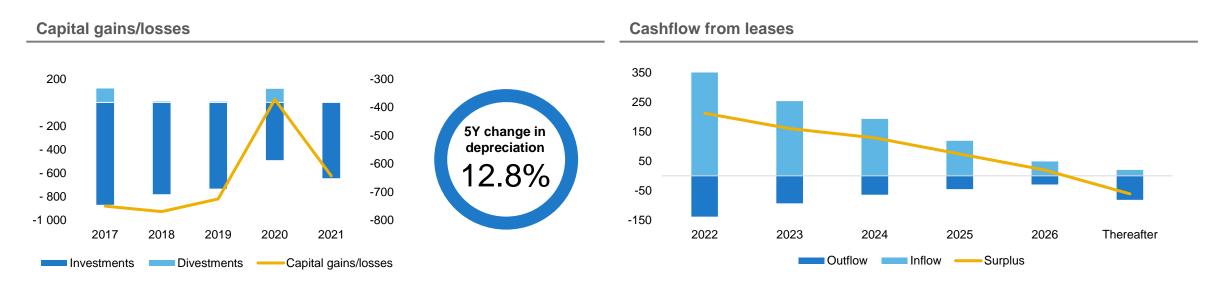


Source: Annual reports, Team analysis

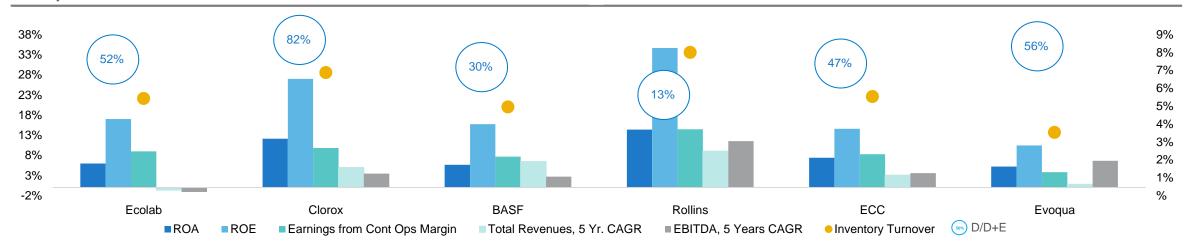
Financials/KPI's II



Compared to competitors, Ecolab does not stand out in terms of return



Competitors' KPI's



DCF Analysis



After thorough valuation, we do not see a buy recommendation in any case at the current share price

Bullish Scenario

- Successful integration of Purolite acquisition & revenue in line with historical growth
- Increase in revenue share from fast growing economies (China, India, Africa & Middle East)

Successful integration of Purolite acquisition & bellow historical growth

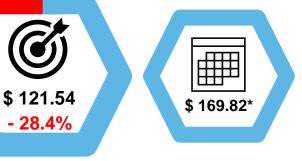
Steady revenue share from fast growing economies (China, India, Africa

Slight increases in efficiencies with slightly higher than expected inflation

Increase in production efficiencies and "back to normal" inflation rates



Current Share Price



Bearish Scenario

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Base Scenario

rate

& ME)

rates

- Unsuccessful integration of Purolite acquisition & significantly lower than historical revenue growth rate
- Loss of market access to China, India, Africa & ME due to rising political and economic conflicts between the US and China
- Slightly decreasing production efficiencies and 1% higher than expected long-term inflation rates

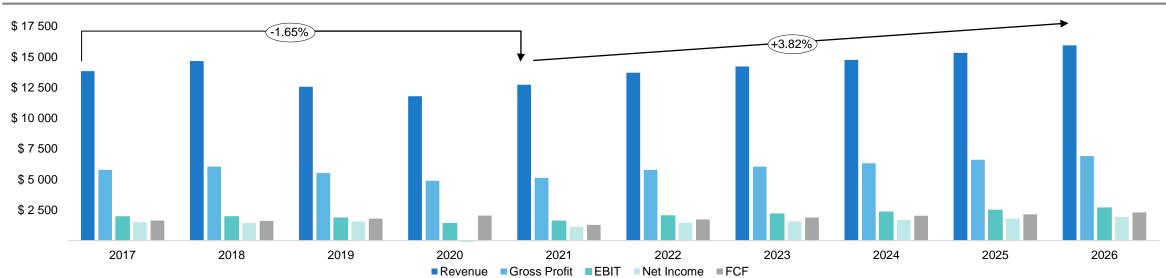


DCF Analysis



Despite overvaluation, we recognize likely growth in financials for Ecolab

Key financials forecast (in mn)



Key Top-Line Drivers



Demographic trends: Expectations of increase in population and thereby increased demand for everyday products and services



Successful integration of acquisitions: Historical track record of successful acquisitions and integration of the product – see Nalco and Purolite



Historical performance: Ecolab's 6-year historical financial performance and growth rates

Operating Assumptions



Revenue: Ecolab fails to additionally expand their market share and revenue in fast growing economies, due to competition and economic restrictions



Gross Profit: Slight decrease in Cost of Sales, based on trends in historical data and assumptions of increased efficiency – especially in sales

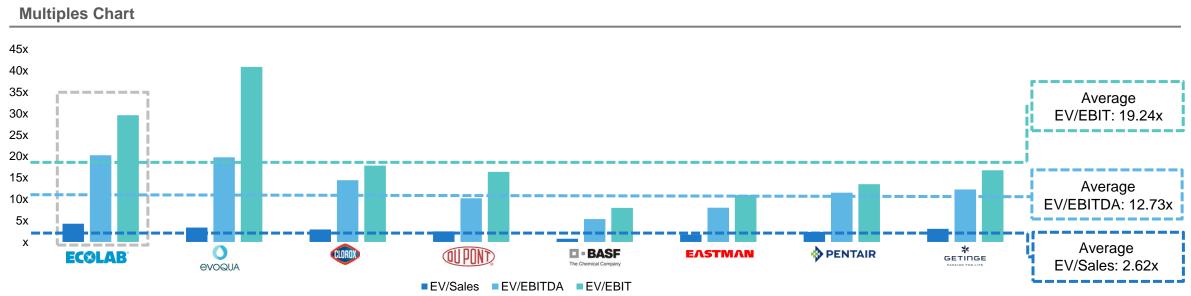


Acquisitions: Assumption of additional successful acquisitions and integrations, based on Ecolab's historical track record

Comparable Companies Analysis



Ecolab is valued significantly higher than its peers according to key metrics and multiples



Multiples Table

Multiples	Price/Sales	P/E	P/EBIT	EV/Sales	EV/EBITDA	EV/EBIT
Ecolab	3,60	41,41	24,98	4,26	20,26	29,58
Evoqua	2,96	81,20	35,82	3,38	19,78	40,86
Clorox	2,60	27,75	15,86	2,92	14,41	17,81
Dupont de Nemours	1,90	19,30	12,63	2,47	10,18	16,38
BASF SE	0,56	8,16	5,87	0,77	5,35	7,97
Eastman Chemical	1,25	16,43	8,04	1,71	8,01	10,98
Pentair	2,14	14,57	12,27	2,35	11,49	13,48
Getinge AB	2,92	26,61	15,97	3,06	12,25	16,74
Mean	2,24	29,43	16,43	2,62	12,73	19,24

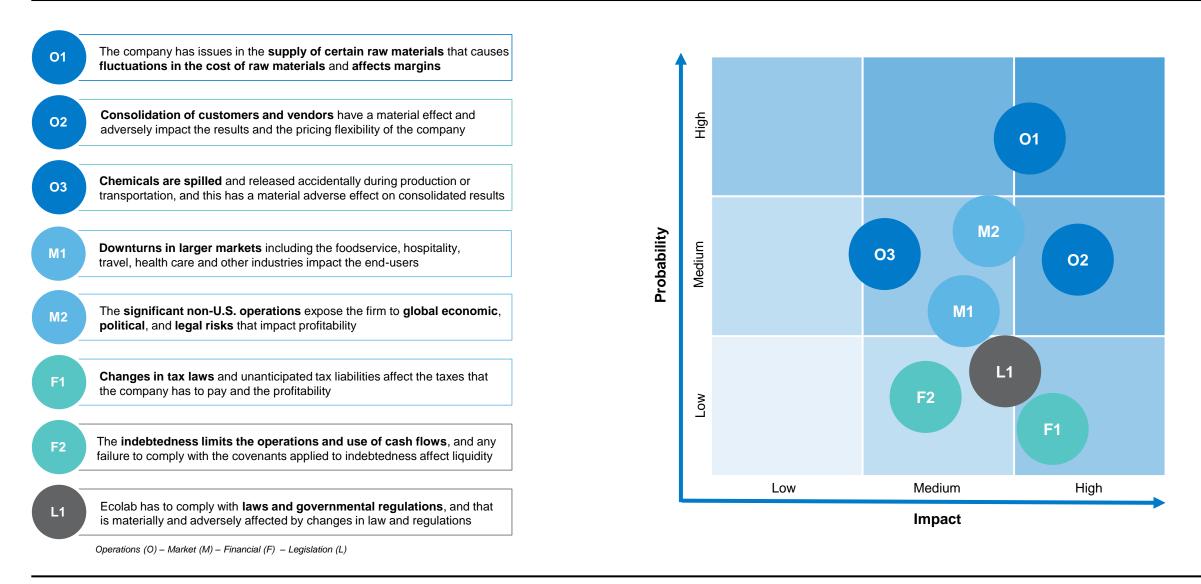
Risk Matrix

ECOLAB

Company Specific Risks



The company faces a number of medium- to high- impact and probability risks



Catalysts



Catalysts mainly represent a potential downturn in the company's share price

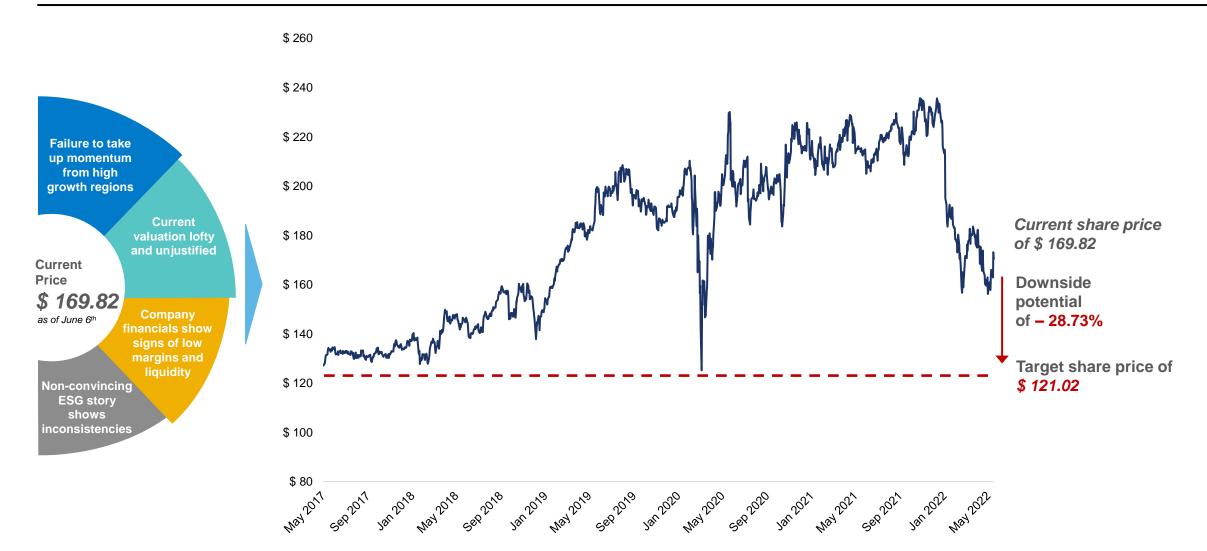
Catalyst	Туре	Probability	Estimated impact on share price
Chinese government intervention	Hard	Medium	 Loose access to fastest growing markets such as China & Africa
Ongoing Covid-19 lockdowns	Hard	Medium	 Closure of hotels, restaurants and educational facilities might lead to significantly lower revenue
Unsuccessful acquisitions	Hard	Low/Medium	 Failing to close successful acquisitions might lead to Ecolab loosing out on competitors in terms of innovation
Loss of Customer Relations	Hard	Low	 Loss of customer engagement and therefore loss of orders due to the Institutional Advancement Program (IAP)
Financing difficulties	Soft	Low	 Failure to raise funds for M&A activity which Ecolab relies on for innovation due to rising debt levels
Environmental Regulation	Hard	High	 Increased demand for water management products due to improvements in environmental regulation



Conclusion



In conclusion we recommend a SELL rating with a downside potential of 28.73%



Appendix

Appendix: M&A



Acquisitions & Divestures as an integral path towards innovation for Ecolab with a focus on intangibles

Mergers and acquisitions

Nalco	Purolite	Permian Mud Service, Inc.	Laboratoires Anios	CID Lines NV	Adams Healthcare		atech ional LLC
				Acquired for \$ 506.9 mn.	Acquired for \$ 25 mn.		Inspect Inc.
				Bioquell	Jianghai Environmental Protection Co.,		
					Ltd.		
Acquired for \$ 5.40 bn	Acquired for \$ 3.70 bn	Acquired for \$ 2.2 bn	Acquired for \$ 850 mn	Acquired for \$ 178 mn	Acquired for \$ 190 mn		

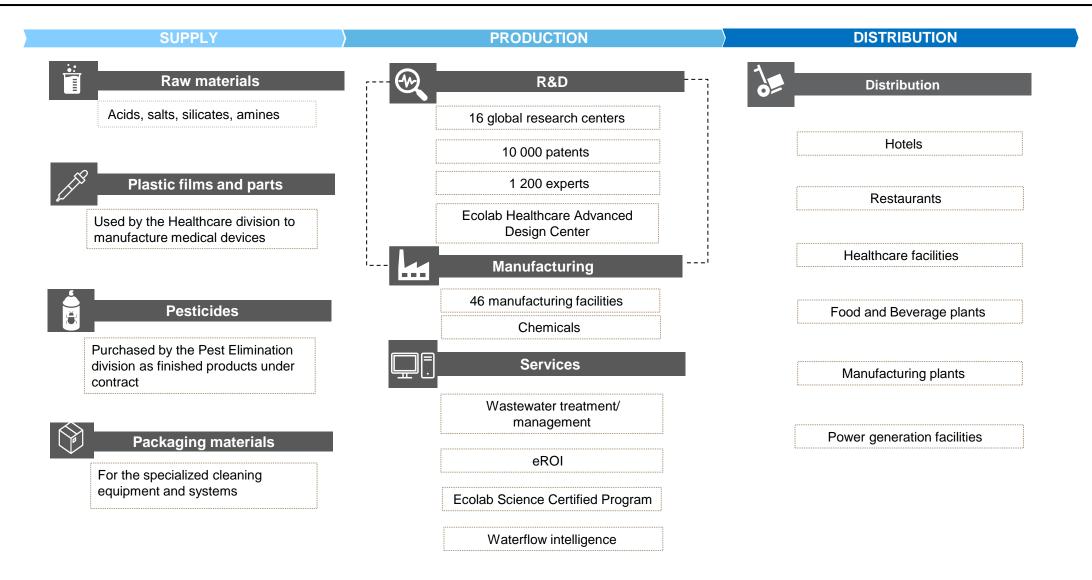
Divestures

Changzhou Jiayou Chemical Co., Ltd.	Fab-Tech Business Unit Of Ecolab Inc.	Ecolab Inc., Equipment Care Business	Ecolab Inc., Restroom Cleaning Business	Krofta Technologies, LLC and Anaerobic Biological Wastewater Treatment Business of Ecovation, Inc.	ChampionX	Ecolab NL 5 BV	Ecolab Inc., Vehicle Care Division
Undisclosed	\$ 8.90 mn	Undisclosed		Undisclosed	\$ 7.20 mn	Undisclosed	\$ 120 mn

Appendix: Supply chain



Research and development represents an integral part of production within Ecolab's value chain



Appendix: PESTLE Analysis



Legislative changes play in favor of the wastewater treatment sector

			Impact			
High	Medium	Low		Low	Medium	High
	narket for wastewater treatment ifficult market for Western pla		Р		d strict norms against illegal d rtunities for wastewater treatme	
	ressures and strong fluctuatior the chemical industry that is high		E		nomically the fastest-growing in chemicals and wastewater tre	
	products surged during the pan However, as the pandemic fade standard.		S		e desire for a good life are two otain more clean water/treate	
	e sets of data —such as producti chemical industry is a slow adop				on push caused by the corona ge in demand for services offe	
investments required to	stry Transition Pathway create to meet the objectives of the EU ages to legislation in the coming	Green Deal, will bring		-	ive, China's 5-year plan, U.S Sustainable Development Go	••
	ted, the question remains of hov environmental footprint of the che chemical waste is handled.	-	E	safe water for everyda	ean and safe water", emphasiz Iy use amidst growing populati pollution in the recent years.	

Appendix: SWOT



OPPORTUNITIES

Weaknesses and threats outweigh strengths and opportunities

STRENGTHS

- Established company with solid track record
- The stable cash flows enables the firm to improve in the future
- Ongoing M&A activity helps the company stay competitive
- The company has a **good reputation** in the markets that they are operating in

- Potential acquisitions could serve as an entry into new markets
- Increasing appearance and operations in China could drive the revenues and enable market access to other regions
- Sensitivity towards sanitizers since COVID-19 pandemic
- Climate change and water shortages could drive the demand
- Changes in legislation

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- Stagnant revenue development
- Weak financials signal a rather negative outlook for the future
- Falling behind in R&D efforts could lead to losing market share
- ESG inconsistencies and fines could question the firm's reputation
- Strategic inconsistencies & lacking agility

- Lawsuits can threaten the company and hurt the brand
- Global **supply chain** instabilities effects the financial performance of the company
- Consolidation of customers and vendors makes the firm lose market share
- Dependence on few individual suppliers
- Increasing competition could lead to a decrease of revenues

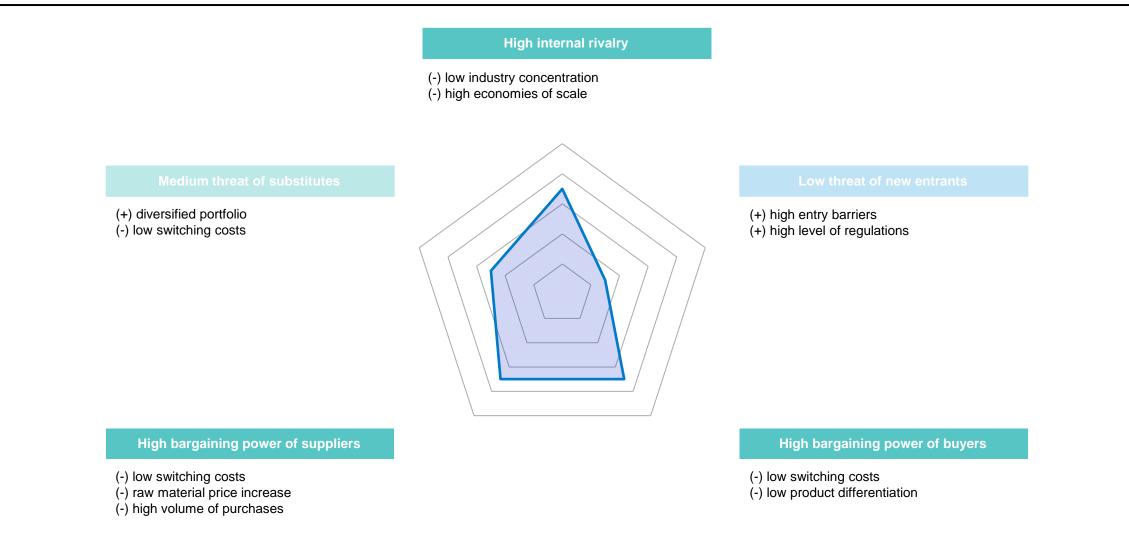
WEAKNESSES

THREATS

Appendix: Porter's Five Forces



While there is a low threat of new entrants, Ecolab faces rivalries and high bargaining power from buyers and suppliers



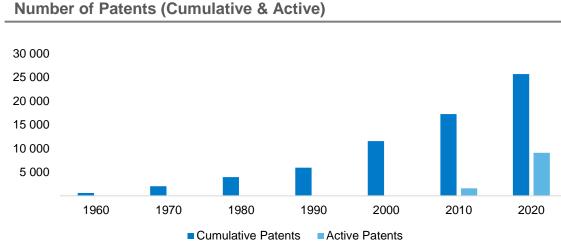


Ecolab has to uphold investment in R&D in order to create new IP and remain competitive

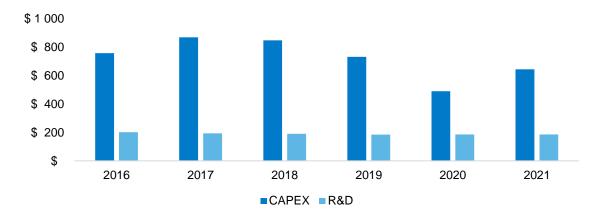
Strategic Challenges & Opportunities

Current Challenges	Mid-term Strategy	Long-term Strategy
 Stagnating revenues Increasing costs Integration of Purolite Acquisition 	 Institutional Advancement Program (cost savings) Grow healthcare operations with Life Sciences Embracing commercial digital offerings Strengthen Ecolab Science Certified Program 	 R&D and IP related to TRASAR technology Emphasis on resin technology products by Purolite M&A activity to supplement organic growth
	Conclusion	

Ecolab has to maintain high R&D efforts as well as IP-Protection to remain competitive in existing markets and when entering new ones



CAPEX & R&D (in mn)

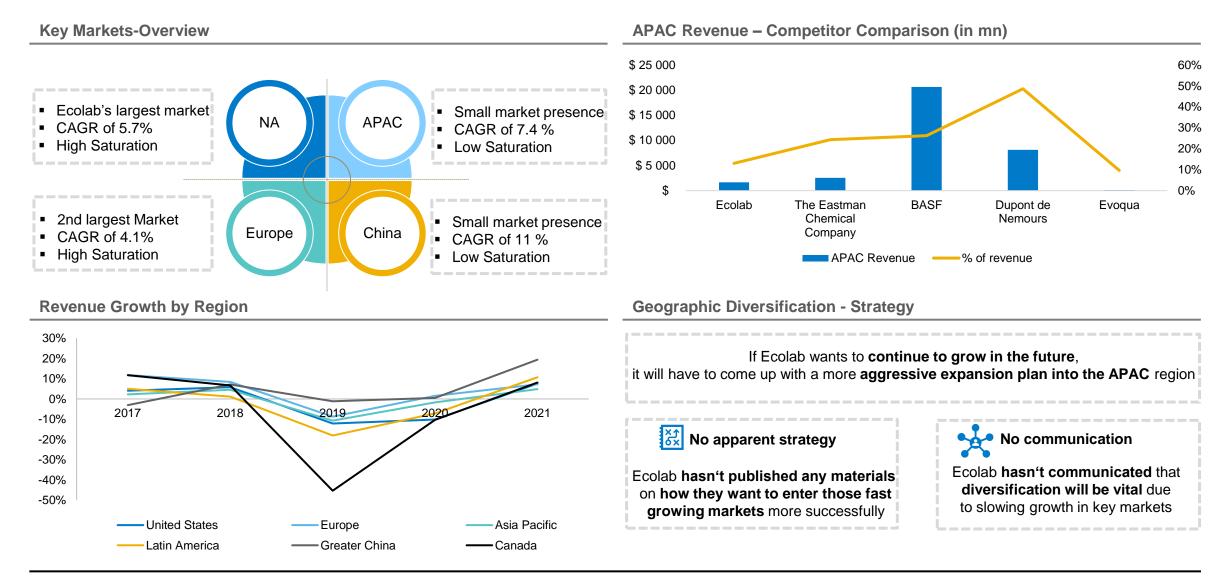


Sources: Annual Report, Ecolab Website

Appendix: Geographic positioning



Ecolab faces difficulties and weak strategic positioning regarding changing geographic market developments

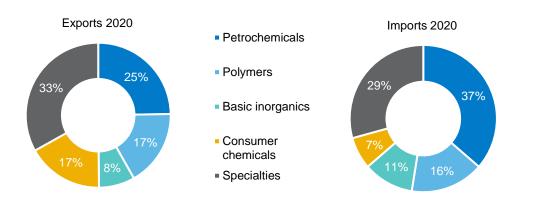


Appendix: Chemical market overview

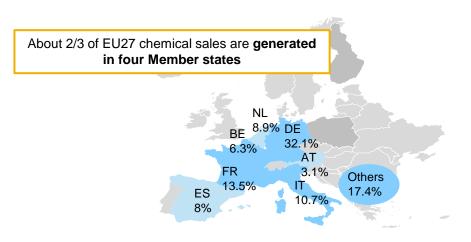


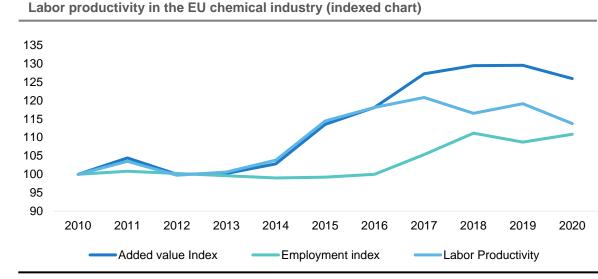
An overview of the EU27 chemical industry market

EU27 chemicals exports and imports in 2020

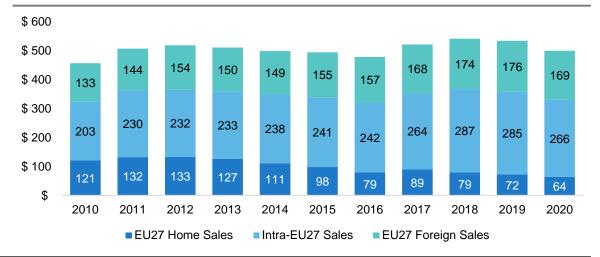


Global Wastewater treatment market-share by segment and end-use





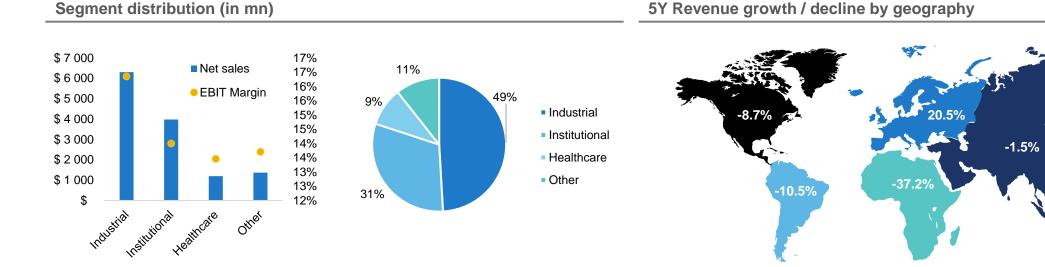
EU27 chemical sales structure (in bn)



Source: Cefic Chemdata International

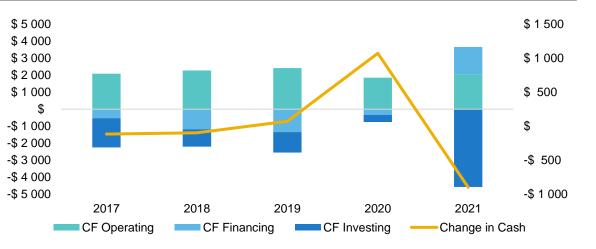
Appendix: Key performance indicator's overview

In terms of segment and geographic distribution, growth is not convincing enough to justify valuation



Financials/KPI's

(in millions USD)	2017	2018	2019	2020	2021
Sales	13.8	12.2	12.6	11.8	12.7
Net Income	1.5	1.4	1.6	-1.2	1.1
Gross profit margin	42.0%	43.8%	44.2%	41.8%	40.9%
ROA	7.5%	7.1%	7.5%	-6.6%	5.3%
Sales/TA	69.3%	60.9%	60.2%	65.0%	60.0%



5Y Revenue growth / decline by geography

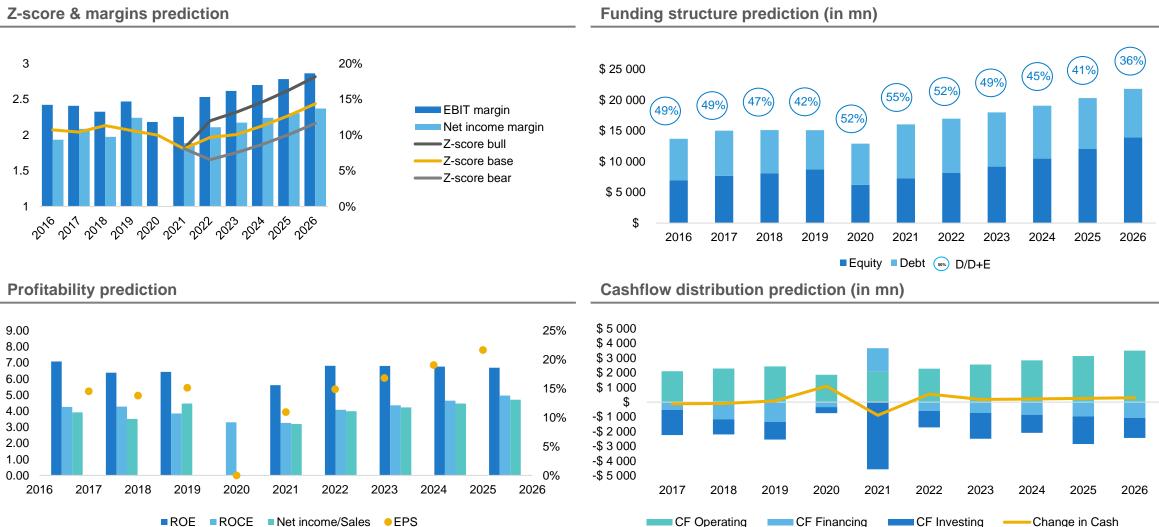
Cashflow distribution (in mn)



23.2%

Appendix: Performance prediction

A stabilizing financial future ahead

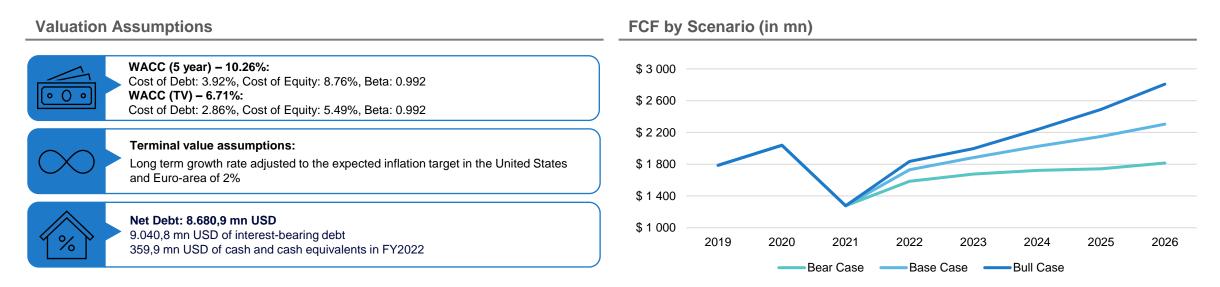




Appendix: DCF Analysis



Even with stable financials and revenue growth in each of the three scenarios, Ecolab fails to live up to its hype



Valuation and Revenue Drivers

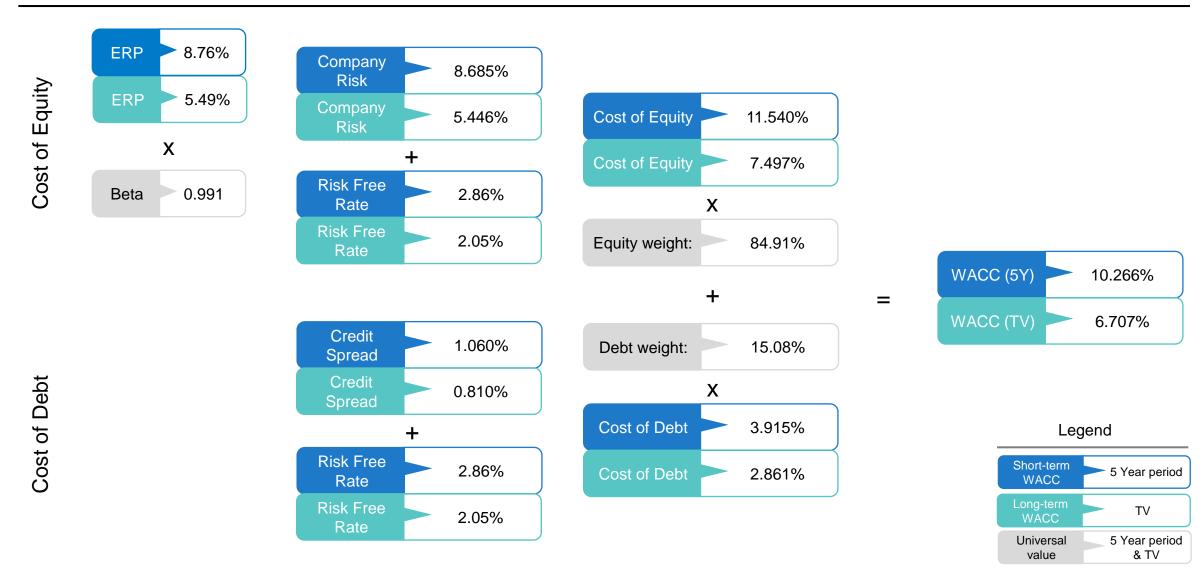
Performance Indicators Population growth Oil consumption Healthcare infrastructure Restaurant growth Acquisitions Paper consumption Education levels
Revenue Segments Global Industrial Global Institutional Healthcare & Life Sciences Other
Revenue

Sensitivity Analysis

WACC (TV)			WACC (5 Years))	
	9.26%	9.76%	10.26%	10.76%	11.26%
5.71%	163.89	163.53	163.18	162.83	162.50
6.21%	140.55	140.19	139.84	139.49	139.15
6.71%	122.25	121.89	121.54	121.19	120.86
7.21%	107.55	107.18	106.83	106.49	106.15
7.71%	95.48	95.12	94.77	94.42	94.08

Appendix: DCF Analysis

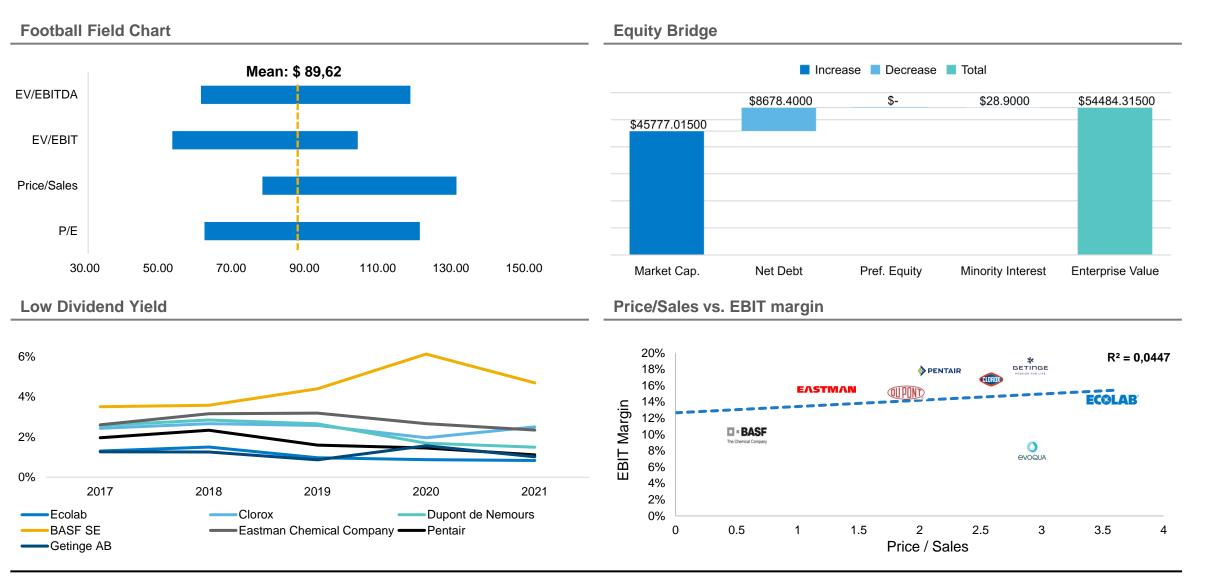
WACC Tree





Appendix: Comparable Companies Analysis

Every peer based metric indicates Ecolab's lofty valuation



Sources: Bloomberg



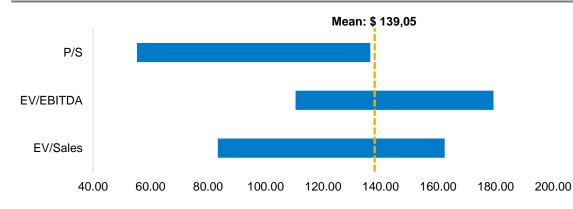


The chemicals industry showed a significant increase in M&A activity in 2021

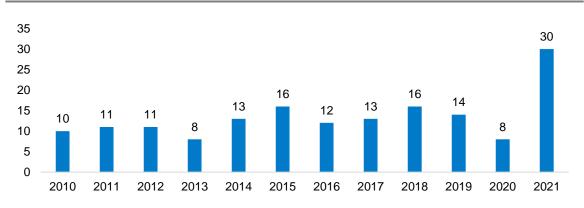
Key financials forecast

Target	Bidder	EV/Sales	EV/EBITDA	P/S
Trecora Resources	Balmoral Funds	0,88x	10,91x	0,82x
Maronne Bio Innovations	Bioceres Crop Solutions	5,92x	n.m.	5,51x
Hexion	American Securities	1,38x	27,35x	0,80x
CMC Materials	Entegris	5,52x	19,11x	4,86x
GCP Applied Technologies	Compaigne de Saint Gobain SA	3,02x	8,25x	3,11x
Kraton Corp.	DL Chemical	1,65x	n.m.	1,05x
Ferro Corp.	Prince Int. Corp,	2,08x	19,03x	1,83x
W.R. Grace Corp.	Standard Industries Inc.	3,59x	28,14x	2,64x
Corning Inc.	Corning Inc.	3,37x	19,14x	2,91x
Lanxess AG	American Securities	2,50x	11,79x	2,42x
Dupont Nutrition & Bioscience	International Flavours & Fragrances	3,69x	15,15x	n.m.
Mean		3,05x	17,65x	2,60x
Median		3,02x	19,03x	2,53x

Football Field







Appendix: Valuation

Overview



General Infor	nation					Company Information	on				
Project Members Team Head: Associates: Analysts:	Valentin Horak Christopher Schulz Nevena Vujovic Bence Pataki Emil Wolner Joseph Schiedlbauer Matous Ryska		aate of submission: Wednesday, 8 Jaate of valuation: Tuesday, 7. Ju			DECOLAB INC. (XNYS:ECL) Ticker: Last price: 52 week high: 52 week low: Stock Exchange:	ECL \$ 169,82 \$ 238,93 \$ 154,31 New York Stock Exchange	driven insights and pers and Global Healthcare & and sanitizing solutions chemical, primary metals Institutional & Specialty government, education	btion: r, hygien earl in fection prevention solar onliked services that various industries. Its if eSciences. Its Global industrial segment primarik to industrial customers within and mining power generation.global art igement provides specialized calening and and retail industries. Its Global Healthcare are, personal care and pharmaceutical ind	egments include Global Industrial, Glo provides water treatment and proce the manufacturing, food and bever ining, petrochemical, pulp and paper is annitizing products to the foodservi & Life Sciences segment provides speci	obal Institutiona ss applications, a age processing, tr industries. Its Glo ice, hospitality, lo
Contents						Valuation Outcome					
Overview Historical Data Operating Model Revenue Forecast DCF Model Multiples CTA	Coverpage with Key Fij Historical Data extracte Calculations and Assu Revenue drivers in eac DCF Model, incl. valu Comparable Company Comparable Transactio	ed from Annual Rep umtions used for DC ch of the operating s ation & share price y Valuation	orts CF Model			Scenario Base Case Final share Price Ta Downside Potent			Target Share Price 121,54 98,87 139,05	Downside Potential: -28,43% -41,78% -18,12%	
Key Data						Key Visualizations					
CCF Financials tevenue BIT BIT Margin Net Income CCF Multiples //E //E //E	\$12.562 \$11. \$1.845 \$1. 14,69% 11,8 \$1.59 -\$1. \$1.787 \$2. 25% Range 61,79 58 77,59 53	396 \$1.599 84% 12,55% 205 \$1.130 039 \$1.278 ye 75% 3,83 120,61 3,02 130,61	2022 2023 2024 \$13.698 \$14.203 \$14.733 \$2.024 \$2.167 \$2.318 14.783 \$15.26% \$15.74% \$1.449 \$1.556 \$1.670 \$1.731 \$1.883 \$2.023	2025 \$15.293 \$2.479 16,21% \$1.790 \$2.146	2026 \$15.885 \$2.650 16.68% \$1.919 \$2.299	18.000 16.000 14.000 12.000 8.000 6.000 4.000 2.000 00 2.019	2020 2021	Key Financial	2023 202	4 2025	2026
EV/EBIT EV/EBITDA		0,90 102,89 7,23 117,02	P/Ke P/E 40,00 60,00 80,00	100,00 1	20,00 140,00	2000 1800 1600 14000 12000 2019 2020 2021	2002 2003 2004 2005 Ber - Bull	2026	70.00x 60.00x 50.00x 30.00x 20.00x 10.00x	Normalized EPS (averag	

Appendix: Valuation



				Hist	toricals			Average			Forecasts		
		ended Deco 2016		2010	2010	2020	2021		2022E	20225	20245	2025E	20265
		2016	2017	2018	2019	2020	2021		2022E	2023E	2024E	2025E	2026E
Income Statement													
Total	\$	13.151,80	\$ 13.835,90	\$ 14.668,20	\$ 12.562,00	\$ 11.790,20	\$ 12.733,10		\$ 13.698,14	\$ 14.203,32	\$ 14.733,49	\$ 15.293,01	\$ 15.884,67
Growth in %			5,20%	6,02%	-14,36%	-6,14%	8,00%		7,58%	3,69%	3,73%	3,80%	3,87%
Global Industrial	\$					\$ 5.870,80	\$ 6.237,80		\$ 6.441,02	\$ 6.648,86	\$ 6.863,70	\$ 7.088,39	\$ 7.324,49
Growth in %			4,75%	7,49%	13,12%	-1,83%	6,25%		3,26%	3,23%	3,23%	3,27%	3,33%
Global Institutional & Specialty	\$	4.482,90	\$ 4.776,20	\$ 5.098,50			\$ 3.955,90		\$ 4.291,32	\$ 4.423,66	\$ 4.561,39	\$ 4.704,73	\$ 4.853,86
Growth in %			6,54%	6,75%	-13,67%	-19,27%	11,33%		8,48%	3,08%	3,11%	3,14%	3,17%
Global Healthcare & Life Sciences	\$	-	\$-	\$-			\$ 1.181,60		\$ 1.680,07				
Growth in %						21,49%	-0,03%		42,19%	5,60%	5,79%	5,99%	6,19%
Global Energy	\$	3.092,90	\$ 3.230,00	\$ 3.421,10		\$-	\$-		\$-	_\$ -	_\$ -	_\$ -	\$-
Growth in %			4,43%	5,92%	0,00%	0,00%	0,00%		0,00%	0,00%	0,00%	0,00%	0,00%
Other	\$	880,80	\$ 911,70	\$ 862,10	\$ 1.207,50	\$ 1.084,30			\$ 1.285,74				
Growth in %			3,51%	-5,44%	40,06%	-10,20%	12,39%		5,51%	5,51%	5,51%	5,52%	5,52%
Corporate	\$	-	\$-	\$-	\$-	\$ 100,00	\$ 139,20		\$-	\$-	\$-	\$-	\$-
Growth in %							39,20%		0,00%	0,00%	0,00%	0,00%	0,00%
Total Cost of Sales		7 533 66	£ 0.054.20	¢ a car aa	6 7 04F 00	¢ _ c _ c _ c _ c _ c _ c _ c _ c _ c _	A 7 615 00		4 7 004 44	4 0.17F C1	ć 0.420.27	A	¢ 0.000 05
% of Total sales	Ş	7.533,90 57,28%	\$ 8.064,20 58.28%	\$ 8.625,90 58.81%	\$ 7.045,80 56,09%	\$ 6.905,80 58,57%	\$ 7.615,80 59,81%		\$ 7.924,44 57.85%				
% of Fotalsales		J7,∠870	58,28%	56,61%	50,09%	50,5770	59,8170		57,85%	57,507	0 57,27%	50,997	0 50,707
Gross Profit	\$	5.617,90	\$ 5.771,70	\$ 6.042,30	\$ 5.516,20	\$ 4.884,40	\$ 5.117,30		\$ 5.773,70	\$ 6.027,71	\$ 6.295,11	\$ 6.577,97	\$ 6.877,72
Gross Profit margin		42,72%	41,72%	41,19%	43,91%	41,43%	40,19%		42,15%	42,449	6 42,73%	43,019	6 43,309
Selling, general and administrative expenses	\$	3.708,20	\$ 3.825,30	\$ 3.968,60	\$ 3.550,80	\$ 3.309,10	\$ 3.416,10		\$ 3.648,59	\$ 3.755,95	\$ 3.868,14	\$ 3.986,18	\$ 4.110,63
% of Total		28,20%	27,65%	27,06%	28,27%	28,07%	26,83%		26,64%	26,449	6 26,25%	26,079	6 25,889
Special (gains) and charges	\$	39,50	\$ (3,70)	\$ 126,70	\$ 120,20	\$ 179,60	\$ 102,60		\$ 100,98	\$ 104,71	\$ 108,62	\$ 112,74	\$ 117,10
% of Total		0,30%	-0,03%	0,86%	0,96%	1,52%	0,81%		0,74%	0,74%	6 0,74%	0,749	6 0,74%
EBIT	\$	1.870,20	\$ 1.950,10	\$ 1.947,00	\$ 1.845,20	\$ 1.395,70	\$ 1.598,60		\$ 2.024,13	\$ 2.167,05	\$ 2.318,35	\$ 2.479,05	\$ 2.649,99
EBIT margin		14,22%	14,09%	13,27%	14,69%	11,84%	12,55%		14,78%	15,269	6 15,74%	16,219	6 16,689
-													

Operating Model I (Income Statement)

W U T I S

\$	-0,33% 264,60 2,01%	-0,49% \$ 255,00 1,84%	\$ 222,30	\$ 190,70	\$ 29),20 \$	-0,27% 218,30 1,71%	\$	252,6	0\$	-0,45% 261,92 1,84%	\$ 271,0	69 \$	-0,45% 282,01 1,84%	-0 \$ 29 1
\$		\$ 1.762,40	\$ 1.804,60	\$ 1.731,50	\$ 1.16	,40 \$	1.414,20	\$			1.969,46				\$ 2.42 15
\$	402,90	\$ 243,80					270,20	\$							
\$	24,43% 1.246,50	13,83% \$ 1.518,60	20,19%				19,11%	\$			21,00%			21,00% 1.790,38	\$ 1.9
\$ \$	17,50 1.229,00	\$ 14,00 \$ 1.504,60		\$ 1.425,60	\$ 96	,40 \$	14,10 1.129,90			- •				1.790,38	\$ \$ 1.9
\$	-	\$-	\$ -	\$ 133,30	\$ (2.17)	2,50) \$		\$	-	\$	•	\$ -	\$	-	\$
	\$ \$ \$ \$ \$ \$ \$	\$ 264,60 2,01% \$ 1,649,40 12,54% \$ 402,90 24,43% \$ 1,246,50 \$ 17,50	 -0,33% -0,49% 264,60 \$ 255,00 2,01% 1,84% 1.649,40 \$ 1.762,40 12,54% 12,74% \$ 402,90 \$ 243,80 24,43% 13,83% \$ 1.246,50 \$ 1.518,60 \$ 17,50 \$ 14,00 	-0,33% -0,49% -0,54% \$ 264,60 \$ 255,00 \$ 222,30 2,01% 1,84% 1,52% \$ 1.649,40 \$ 1.762,40 \$ 1.804,60 12,54% 12,74% 12,30% \$ 402,90 \$ 243,80 \$ 364,30 24,43% 13,83% 20,19% \$ 1.246,50 \$ 1.518,60 \$ 1.440,30 \$ 17,50 \$ 14,00 \$ 11,20 \$ 1.229,00 \$ 1.504,60 \$ 1.429,10	-0,33% -0,49% -0,54% -0,61% \$ 264,60 \$ 255,00 \$ 222,30 \$ 190,70 2,01% 1,84% 1,52% 190,70 1,52% 190,70 1,52% \$ 1.649,40 \$ 1.762,40 \$ 1.804,60 \$ 1.731,50 12,54% 12,74% 12,30% 13,78% \$ 402,90 \$ 243,80 \$ 364,30 \$ 288,60 24,43% 13,83% 20,19% 16,67% 16,67% \$ 1246,50 \$ 1,518,60 \$ 1,442,90 \$ 17,50 \$ 14,00 \$ 11,20 \$ 17,30 \$ 1,229,00 \$ 1,504,60 \$ 1,429,10 \$ 1,425,60	-0,33% -0,49% -0,54% -0,61% -0, \$ 264,60 \$ 255,00 \$ 222,30 \$ 190,70 \$ 290 2,01% 1,84% 1,52% 1,52% 1,52% 2,20 \$ 190,70 \$ 290 \$ 1.649,40 \$ 1.762,40 \$ 1.804,60 \$ 1.731,50 \$ 1.161 12,54% 12,74% 12,30% 13,78% 9, \$ 402,90 \$ 243,80 \$ 364,30 \$ 288,60 \$ 176 \$ 402,90 \$ 243,80 \$ 364,30 \$ 288,60 \$ 176 \$ 402,90 \$ 12,33% 20,19% 16,67% 15,9 15,9 \$ 1246,50 \$ 1,518,60 \$ 1,440,30 \$ 1,442,90 \$ 984 \$ 17,50 \$ 14,00 \$ 11,20 \$ 17,30 \$ 17 \$ 1,229,00 \$ 1,504,60 \$ <td>-0,33% -0,49% -0,54% -0,61% -0,47% \$ 264,60 \$ 255,00 \$ 222,30 \$ 190,70 \$ 290,20 \$ \$ 1.649,40 \$ 1.762,40 \$ 1.804,60 \$ 1.731,50 \$ 1.161,40 \$ 12,54% 12,74% 12,30% 13,78% 9,85% \$ 402,90 \$ 243,80 \$ 364,30 \$ 288,60 \$ 176,60 \$ \$ 402,90 \$ 243,80 \$ 364,30 \$ 288,60 \$ 176,60 \$ \$ 12,54% 12,74% 12,30% 13,78% 9,85% 9,85% \$ 12,54% 12,74% 12,30% 13,78% 9,85% 15,21% \$ 12,46,50 \$ 1,518,60 \$ 1,440,30 \$ 14,42,90 \$ 984,80 \$ \$ 1,750 \$ 14,00 \$ 11,20 \$ 17,30 \$ 17,40 \$ \$ 1,229,00<</td> <td>-0,33% -0,49% -0,54% -0,61% -0,47% -0,27% \$ 264,60 \$ 255,00 \$ 222,30 \$ 190,70 \$ 290,20 \$ 218,30 2,01% 1,84% 1,52% 1,52% 1,52% 2,46% 1,71% \$ 1.649,40 \$ 1.762,40 \$ 1804,60 \$ 1,71% 1,71% \$ 1.649,40 \$ 1.762,40 \$ 1804,60 \$ 1.713,50 \$ 1.161,40 \$ 1.414,20 12,54% 12,74% 12,30% 13,78% 9,85% 11,11% \$ 402,90 \$ 243,80 \$ 364,30 \$ 288,60 \$ 176,60 \$ 270,20 24,43% 13,83% 20,19% 16,67% 15,21% 19,11% 19,11% \$ 1.246,50 \$ 1.518,60 \$ 1.440,30 \$ 1.442,90 \$ 984,80 \$ 1.144,00 \$ 17,50 \$ 14,00 \$ 11,20 \$ 17,30</td> <td>-0.33% -0.49% -0.54% -0.61% -0.47% -0.27% \$ 264,60 \$ 255,00 \$ 222,30 \$ 190,70 \$ 290,20 \$ 218,30 \$ \$ 1,649,40 \$ 1,72% 1,52% 1,52% 2,46% 1,71% \$ \$ \$ 1,649,40 \$ 1,72,40 \$ 1804,60 \$ 1,71% \$ 1,414,20 \$ \$ 12,54% 12,74% 12,30% 13,78% 9,85% 11,11% \$ \$ \$ 402,90 \$ 243,80 \$ 364,30 \$ 288,60 \$ 176,60 \$ 270,20 \$ \$ 402,90 \$ 243,80 \$ 364,30 \$ 288,60 \$ 176,60 \$ 270,20 \$ \$ 12,64% 1,518,60 \$ 1,440,30 \$ 1,442,90 \$ 984,80 \$ 1,144,00 \$ \$ 12,750 \$ 14,00 \$ 11,20 \$ 17,30<td>-0.33% -0.49% -0.54% -0.61% -0.47% -0.27% -0.45% \$ 264,60 \$ 255,00 \$ 222,30 \$ 190,70 \$ 290,20 \$ 218,30 \$ 252,6 \$ 1,84% 1,52% 1,52% 2,46% 1,71% \$ 1,84% \$ 1,649,40 \$ 1,72,40 \$ 1,84% \$ 1,71% \$ 1,84% \$ 1,84% \$ 1,2,30% \$ 1,71% \$ 1,414,20 \$ \$ 1,833,5 \$ 12,54% 12,74% 12,30% 13,78% 9,85% 11,11% 13,33 \$ 402,90 \$ 243,80 \$ 364,30 \$ 288,60 \$ 176,60 \$ 270,20 \$ 385,0 210,00 21,000 \$ 1,440,30 \$ 1,442,90 \$ 9,85% 11,11% 21,000 \$ 1,448,5 \$ 1,448,5 \$ 1,448,5 \$ 1,448,5 \$ 1,448,5 \$ 1,448,5 \$</td><td>-0,33% -0,49% -0,54% -0,81% -0,47% -0,27% -0,45% \$ 264,60 \$ 255,00 \$ 222,30 \$ 190,70 \$ 290,20 \$ 218,30 </td><td>-0.33% -0.49% -0.54% -0.81% -0.47% -0.27% -0.45% -0.45% -0.45% \$ 264,60 \$ 255,00 \$ 222,30 \$ 190,70 \$ 290,20 \$ 218,30 \$ 252,60 \$ 261,92 2,01% 1,84% 1,82% 1,52% 1,52% 2,46% 1,71% \$ 1,84% 1,84% \$ 1,649,40 \$ 1,762,40 \$ 1,804,60 \$ 1,7150 \$ 1,414,20 \$ 1,84% 1,84% \$ 1,84% 12,74% 12,30% 13,78% 9,85% 11,11% 13,39% 13,87% \$ 402,90 \$ 243,80 \$ 364,30 \$ 288,60 \$ 176,60 \$ 270,20 \$ 385,05 \$ 413,59 24,43% 13,83% 20,19% 16,67% 176,60 \$ 270,20 \$ 385,05 \$ 413,59 21,00% \$ 1,440,30 \$ 1,442,90 \$ 984,80 \$ 1,144,00</td><td>-0,33% -0,49% -0,54% -0,61% -0,47% -0,27% -0,45%</td><td>-0.33% -0.49% -0.54% -0.81% -0.47% -0.27% -0.45%</td><td>-0,33% -0,49% -0,54% -0,61% -0,47% -0,27% -0,45% 221,04% 1,82% 1,84% 1,82% 1,84% 1,84% 1,8</td></td>	-0,33% -0,49% -0,54% -0,61% -0,47% \$ 264,60 \$ 255,00 \$ 222,30 \$ 190,70 \$ 290,20 \$ \$ 1.649,40 \$ 1.762,40 \$ 1.804,60 \$ 1.731,50 \$ 1.161,40 \$ 12,54% 12,74% 12,30% 13,78% 9,85% \$ 402,90 \$ 243,80 \$ 364,30 \$ 288,60 \$ 176,60 \$ \$ 402,90 \$ 243,80 \$ 364,30 \$ 288,60 \$ 176,60 \$ \$ 12,54% 12,74% 12,30% 13,78% 9,85% 9,85% \$ 12,54% 12,74% 12,30% 13,78% 9,85% 15,21% \$ 12,46,50 \$ 1,518,60 \$ 1,440,30 \$ 14,42,90 \$ 984,80 \$ \$ 1,750 \$ 14,00 \$ 11,20 \$ 17,30 \$ 17,40 \$ \$ 1,229,00<	-0,33% -0,49% -0,54% -0,61% -0,47% -0,27% \$ 264,60 \$ 255,00 \$ 222,30 \$ 190,70 \$ 290,20 \$ 218,30 2,01% 1,84% 1,52% 1,52% 1,52% 2,46% 1,71% \$ 1.649,40 \$ 1.762,40 \$ 1804,60 \$ 1,71% 1,71% \$ 1.649,40 \$ 1.762,40 \$ 1804,60 \$ 1.713,50 \$ 1.161,40 \$ 1.414,20 12,54% 12,74% 12,30% 13,78% 9,85% 11,11% \$ 402,90 \$ 243,80 \$ 364,30 \$ 288,60 \$ 176,60 \$ 270,20 24,43% 13,83% 20,19% 16,67% 15,21% 19,11% 19,11% \$ 1.246,50 \$ 1.518,60 \$ 1.440,30 \$ 1.442,90 \$ 984,80 \$ 1.144,00 \$ 17,50 \$ 14,00 \$ 11,20 \$ 17,30	-0.33% -0.49% -0.54% -0.61% -0.47% -0.27% \$ 264,60 \$ 255,00 \$ 222,30 \$ 190,70 \$ 290,20 \$ 218,30 \$ \$ 1,649,40 \$ 1,72% 1,52% 1,52% 2,46% 1,71% \$ \$ \$ 1,649,40 \$ 1,72,40 \$ 1804,60 \$ 1,71% \$ 1,414,20 \$ \$ 12,54% 12,74% 12,30% 13,78% 9,85% 11,11% \$ \$ \$ 402,90 \$ 243,80 \$ 364,30 \$ 288,60 \$ 176,60 \$ 270,20 \$ \$ 402,90 \$ 243,80 \$ 364,30 \$ 288,60 \$ 176,60 \$ 270,20 \$ \$ 12,64% 1,518,60 \$ 1,440,30 \$ 1,442,90 \$ 984,80 \$ 1,144,00 \$ \$ 12,750 \$ 14,00 \$ 11,20 \$ 17,30 <td>-0.33% -0.49% -0.54% -0.61% -0.47% -0.27% -0.45% \$ 264,60 \$ 255,00 \$ 222,30 \$ 190,70 \$ 290,20 \$ 218,30 \$ 252,6 \$ 1,84% 1,52% 1,52% 2,46% 1,71% \$ 1,84% \$ 1,649,40 \$ 1,72,40 \$ 1,84% \$ 1,71% \$ 1,84% \$ 1,84% \$ 1,2,30% \$ 1,71% \$ 1,414,20 \$ \$ 1,833,5 \$ 12,54% 12,74% 12,30% 13,78% 9,85% 11,11% 13,33 \$ 402,90 \$ 243,80 \$ 364,30 \$ 288,60 \$ 176,60 \$ 270,20 \$ 385,0 210,00 21,000 \$ 1,440,30 \$ 1,442,90 \$ 9,85% 11,11% 21,000 \$ 1,448,5 \$ 1,448,5 \$ 1,448,5 \$ 1,448,5 \$ 1,448,5 \$ 1,448,5 \$</td> <td>-0,33% -0,49% -0,54% -0,81% -0,47% -0,27% -0,45% \$ 264,60 \$ 255,00 \$ 222,30 \$ 190,70 \$ 290,20 \$ 218,30 </td> <td>-0.33% -0.49% -0.54% -0.81% -0.47% -0.27% -0.45% -0.45% -0.45% \$ 264,60 \$ 255,00 \$ 222,30 \$ 190,70 \$ 290,20 \$ 218,30 \$ 252,60 \$ 261,92 2,01% 1,84% 1,82% 1,52% 1,52% 2,46% 1,71% \$ 1,84% 1,84% \$ 1,649,40 \$ 1,762,40 \$ 1,804,60 \$ 1,7150 \$ 1,414,20 \$ 1,84% 1,84% \$ 1,84% 12,74% 12,30% 13,78% 9,85% 11,11% 13,39% 13,87% \$ 402,90 \$ 243,80 \$ 364,30 \$ 288,60 \$ 176,60 \$ 270,20 \$ 385,05 \$ 413,59 24,43% 13,83% 20,19% 16,67% 176,60 \$ 270,20 \$ 385,05 \$ 413,59 21,00% \$ 1,440,30 \$ 1,442,90 \$ 984,80 \$ 1,144,00</td> <td>-0,33% -0,49% -0,54% -0,61% -0,47% -0,27% -0,45%</td> <td>-0.33% -0.49% -0.54% -0.81% -0.47% -0.27% -0.45%</td> <td>-0,33% -0,49% -0,54% -0,61% -0,47% -0,27% -0,45% 221,04% 1,82% 1,84% 1,82% 1,84% 1,84% 1,8</td>	-0.33% -0.49% -0.54% -0.61% -0.47% -0.27% -0.45% \$ 264,60 \$ 255,00 \$ 222,30 \$ 190,70 \$ 290,20 \$ 218,30 \$ 252,6 \$ 1,84% 1,52% 1,52% 2,46% 1,71% \$ 1,84% \$ 1,649,40 \$ 1,72,40 \$ 1,84% \$ 1,71% \$ 1,84% \$ 1,84% \$ 1,2,30% \$ 1,71% \$ 1,414,20 \$ \$ 1,833,5 \$ 12,54% 12,74% 12,30% 13,78% 9,85% 11,11% 13,33 \$ 402,90 \$ 243,80 \$ 364,30 \$ 288,60 \$ 176,60 \$ 270,20 \$ 385,0 210,00 21,000 \$ 1,440,30 \$ 1,442,90 \$ 9,85% 11,11% 21,000 \$ 1,448,5 \$ 1,448,5 \$ 1,448,5 \$ 1,448,5 \$ 1,448,5 \$ 1,448,5 \$	-0,33% -0,49% -0,54% -0,81% -0,47% -0,27% -0,45% \$ 264,60 \$ 255,00 \$ 222,30 \$ 190,70 \$ 290,20 \$ 218,30	-0.33% -0.49% -0.54% -0.81% -0.47% -0.27% -0.45% -0.45% -0.45% \$ 264,60 \$ 255,00 \$ 222,30 \$ 190,70 \$ 290,20 \$ 218,30 \$ 252,60 \$ 261,92 2,01% 1,84% 1,82% 1,52% 1,52% 2,46% 1,71% \$ 1,84% 1,84% \$ 1,649,40 \$ 1,762,40 \$ 1,804,60 \$ 1,7150 \$ 1,414,20 \$ 1,84% 1,84% \$ 1,84% 12,74% 12,30% 13,78% 9,85% 11,11% 13,39% 13,87% \$ 402,90 \$ 243,80 \$ 364,30 \$ 288,60 \$ 176,60 \$ 270,20 \$ 385,05 \$ 413,59 24,43% 13,83% 20,19% 16,67% 176,60 \$ 270,20 \$ 385,05 \$ 413,59 21,00% \$ 1,440,30 \$ 1,442,90 \$ 984,80 \$ 1,144,00	-0,33% -0,49% -0,54% -0,61% -0,47% -0,27% -0,45%	-0.33% -0.49% -0.54% -0.81% -0.47% -0.27% -0.45%	-0,33% -0,49% -0,54% -0,61% -0,47% -0,27% -0,45% 221,04% 1,82% 1,84% 1,82% 1,84% 1,84% 1,8

DCF Output

t	1	2	3	4	5	τν
(in millions, USD)	2022	2023	2024	2025	2026	
Revenue	13.698	14.203	14.733	15.293	15.885	
COGS	7.924	8.176	8.438	8.715	9.007	
Gross Profit	5.774	6.028	6.295	6.578	6.878	
SG&A	3.649	3.756	3.868	3.986	4.111	
Special (gains) and charges	101	105	109	113	117	
EBIT	2.024	2.167	2.318	2.479	2.650	
- Tax	(385)	(414)	(444)	(476)	(510)	
EBIAT	1.639	1.753	1.875	2.003	2.140	
+ Depreciation	558	651	675	700	726	
+ Amortization	309	313	340	343	369	
- CAPEX	749	777	806	837	869	
+/- Change in NWC	25	57	60	64	68	
Unlevered FCF	1.731	1.883	2.023	2.146	2.299	49.806
Discount rate	91%	82%	75%	68%	61%	72%
Present Value of FCF in t=0	1.570	1.549	1.509	1.452	1.410	36.000

Enterprise Value	43.489
Net debt	8.678
Minority interest (noncontrolling interest):	29
Equity Value	34.782
Total shares outstanding (in thousands):	286
Target price per share	121,49
Current price per share	170,85
Upside potential in %	-29%

General Info	rmation
Beta	0,99
Risk-free Rate	2,9%
D/(D+E)	15%
Debt	8.678
Equity	48.914
D/E	18%

Cost of equity	11,54%
WACC	10,27%

WACC (5 Years)	10,27%
WACC (TV)	6,71%
Terminal Value	49.806
FCF	2.299
g	2,00%
WACC (TV):	6,71%

	Sensitivity Analysis										
	9,26%	9,76%	10,26%	10,76%	11,26%						
5,71%	163,89	163,53	163,18	162,83	162,50						
6,21%	140,55	140,19	139,84	139,49	139,15						
6,71%	122,25	121,89	121,54	121,19	120,86						
7,21%	107,55	107,18	106,83	106,49	106,15						
7,71%	95,48	95,12	94,77	94,42	94,08						



CCA

	Peer Benchn	narking Sheet												Multiples			
ompany		Shareprice	Market Capitalization	Interest bearing Debt	Cash and Cash Equivalents	Minority Interest	Preferred Equity	Enterprise Value Sales	EBITDA	EBIT	EPS	Price/Sales	P/E	P/EBIT	EV/Sales	EV/EBITDA	EV/EB
colab	\$	160,25 \$	\$ 45.777,02 \$	9.038,30 \$	359,90	\$ 28,90 \$	- \$	54.484,32 \$ 12.733,10 \$	2.675,40 \$	1.832,30 \$	3,87	3,60x	41,41x	24,98x	4,28x	20,36x	29,74
voqua	\$	35,73 \$	\$ 4.334,05 \$	754,51 \$	146,20	\$ 1,50 \$	- \$	4.943,86 \$ 1.464,40 \$	250,00 \$	121,00 \$	0,44	2,96x	81,20x	35,82x	3,38x	19,78x	40,86
lorox	\$	154,86 \$	\$ 19.063,27 \$	2.484,00 \$	319,00	\$ 181,00 \$	- \$	21.409,27 \$ 7.341,00 \$	1.486,00 \$	1.202,00 \$	5,58	2,60x	27,75x	15,86x	2,92x	14,41x	17,81
upont de Nemours	\$	62,34 \$	\$ 31.699,89 \$	10.782,00 \$	2.011,00	\$ 617,00 \$	- \$	41.087,89 \$ 16.653,00 \$	4.035,00 \$	2.509,00 \$	3,23	1,90x	19,30x	12,63x	2,47x	10,18x	16,38
ASF SE	\$	51,02 \$	\$ 46.098,74 \$	17.871,36 \$	2.728,96	\$ 1.340,56 \$	- \$	62.581,70 \$ 81.741,92 \$	11.687,52 \$	7.853,04 \$	6,25	0,56x	8,16x	5,87x	0,77x	5,35x	7,97
astman Chemical Com	npany \$	101,86 \$	\$ 13.119,57 \$	5.159,00 \$	459,00	\$ 84,00 \$	- \$	17.903,57 \$ 10.476,00 \$	2.236,00 \$	1.631,00 \$	6,20	1,25x	16,43x	8,04x	1,71x	8,01x	10,98
Pentair	\$	48,68 \$	\$ 8.051,67 \$	894,10 \$	94,50	\$-\$	- \$	8.851,27 \$ 3.764,80 \$	770,10 \$	656,40 \$	3,34	2,14x	14,57x	12,27x	2,35x	11,49x	13,48
Getinge AB	\$	28,71 \$	\$ 7.820,60 \$	737,95 \$	403,43	\$ 42,27 \$	- \$	8.197,40 \$ 2.677,85 \$	669,34 \$	489,75 \$	1,08	2,92x	26,61x	15,97x	3,06x	12,25x	16,74
Minimum	\$	28,71 \$	\$ 4.334,05 \$	737,95 \$	94,50	\$-\$	- \$	4.943,86 \$ 1.464,40 \$	250,00 \$	121,00 \$	0,44	0,56x	8,16x	5,87x	0,77x	5,35x	7,97>
5%-Percentille	\$	45,44 \$	\$ 7.993,91 \$	859,20 \$	275,80	\$ 22,05 \$	- \$	8.687,80 \$ 3.493,06 \$	744,91 \$	614,74 \$	2,69	1,74x	15,97x	11,21x	2,19x	9,64x	12,86>
Median	\$	56,68	\$ 16.091,42 \$	3.821,50 \$	381,66	\$ 63,14 \$	- \$	19.656,42 \$ 8.908,50 \$	1.861,00 \$	1.416,50 \$	3,61	2,37x	22,95x	14,25x	2,69x	11,87x	16,56>
/lean	\$	80,43	\$ 21.995,60 \$	5.965,15 \$	815,25	\$ 286,90 \$	- \$	27.432,41 \$ 17.106,51 \$	2.976,17 \$	2.036,81 \$	3,75	2,24x	29,43x	16,43x	2,62x	12,73x	19,24
5%-Percentille	\$	115,11 \$	\$ 35.219,17 \$	9.474,23 \$	847,00	\$ 290,00 \$	- \$	44.437,00 \$ 13.713,08 \$	3.015,30 \$	2.001,48 \$	5,74	2,93x	31,17x	18,22x	3,14x	15,75x	20,79
Aaximum	\$	160,25 \$	\$ 46.098,74 \$	17.871,36 \$	2.728,96	\$ 1.340,56 \$	- \$	62.581,70 \$ 81.741,92 \$	11.687,52 \$	7.853,04 \$	6,25	3,60x	81,20x	35,82x	4,28x	20,36x	40,86>

Share Price Calculated with	<u>P/E</u>	EPS	Implied Shareprice
25%-Percentille	15,97x	\$ 3,87	\$ 61,79
Median	22,95x	\$ 3,87	\$ 88,83
Mean	29,43x	\$ 3,87	\$ 113,89
75%-Percentille	31,17x	\$ 3,87	\$ 120,61

Share Price Calculated with	Price/Sales	Shares Out	Implied Shareprice
25%-Percentille	\$ 22.165,17	285,66	\$ 77,59
Median	\$ 30.148,76	285,66	\$ 105,54
Mean	\$ 28.538,94	285,66	\$ 99,91
75%-Percentille	\$ 37.311,29	285,66	\$ 130,61

EV calculated with	EV/EBIT	Equity Value	Shares Out.	Implied Shareprice
25%-Percentille	12,86x	\$ 14.851,85	285,66	\$ 51,99
Median	16,56x	\$ 21.630,11	285,66	\$ 75,72
Mean	19,24x	\$ 26.553,01	285,66	\$ 92,95
75%-Percentille	20,79x	\$ 29.390,61	285,66	\$ 102,89

EV calculated with	EV/EBITDA	Equity Value	Shares Out.	Implied Shareprice
25%-Percentille	9,64x	\$ 17.080,60	285,66	\$ 59,79
Median	11,87x	\$ 23.050,60	285,66	\$ 80,69
Mean	12,73x	\$ 25.348,12	285,66	\$ 88,74
75%-Percentille	15,75x	\$ 33.428,50	285,66	\$ 117,02

Weighted Shareprice	
Mean of Means	\$ 98,87
Mean of Medians	\$ 87,70

CTA



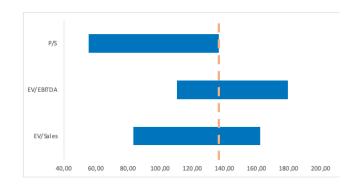
Compar	able Transaction Analysis-Transaction O	verview								Multiples	
Target	Bidder		Implied Equity Value	Net Debt	EV	Revenue	EBITDA	Deal Value	EV/Sales	EV/EBITDA	P/S
Trecora Resources	Balmoral Funds	\$	188,43	\$ 13,16	\$ 201,59	\$ 229,68	\$ 18,48	\$ 201,59	0,88x	10,91x	0,82x
Maronne Bio Innovations	Bioceres Crop Solutions	\$	180,59	\$ 13,38	\$ 193,98	\$ 32,76	\$ (8,78)	\$ 193,98	5,92x	n.m.	5,51x
Hexion	American Securities	\$	1.470,44	\$ 1.070,51	\$ 2.541,95	\$ 1.837,08	\$ 92,95	\$ 2.541,95	1,38x	27,35x	0,80x
CMC Materials	Entegris	\$	4.312,00	\$ 557,07	\$ 4.900,07	\$ 888,11	\$ 256,48	\$ 4.900,07	5,52x	19,11x	4,86x
GCP Applied Technologies	Compaigne de Saint Gobain SA	\$	2.056,16	\$ (60,00)	\$ 1.996,15	\$ 661,06	\$ 241,82	\$ 1.774,84	3,02x	8,25x	3,11x
Kraton Corp.	DL Chemical	\$	1.199,00	\$ 693,55	\$ 1.892,55	\$ 1.144,08	\$ (150,45)	\$ 1.892,55	1,65x	n.m.	1,05x
Ferro Corp.	Prince Int. Corp,	\$	1.286,02	\$ 177,32	\$ 1.463,34	\$ 701,86	\$ 76,90	\$ 1.463,34	2,08x	19,03x	1,83x
W.R. Grace Corp.	Standard Industries Inc.	\$	3.336,72	\$ 1.213,05	\$ 4.549,78	\$ 1.266,05	\$ 161,68	\$ 4.549,78	3,59x	28,14x	2,64x
Corning Inc.	Corning Inc.	\$	24.092,52	\$ 3.821,20	\$ 27.913,71	\$ 8.272,71	\$ 1.458,03	\$ 1.097,44	3,37x	19,14x	2,91x
Lanxess AG	American Securities	\$	751,23	\$ 25,28	\$ 776,51	\$ 311,06	\$ 65,87	\$ 776,51	2,50x	11,79x	2,42x
Dupont Nutrition & Bioscience	International Flavours & Fragrances		n.a.	n.a.	\$ 19.657,86	\$ 5.333,28	\$ 1.297,80	\$ 19.657,86	3,69x	15,15x	n.m.
	Minimum	\$	180,59	\$ (60,00)	\$ 193,98	\$ 32,76	\$ (150,45)	\$ 193,98	0,88x	8,25x	0,80x
	25%-Percentille	\$	863,17	\$ 16,36	\$ 1.119,93	\$ 486,06	\$ 42,17	\$ 936,98	1,87x	11,79x	1,24x
	Median	\$	1.378,23	\$ 367,19	\$ 1.996,15	\$ 888,11	\$ 92,95	\$ 1.774,84	3,02x	19,03x	2,53x
	Mean	\$	3.887,31	\$ 752,45	\$ 6.007,95	\$ 1.879,79	\$ 319,16	\$ 3.549,99	3,06x	17,65x	2,59x
	75%-Percentille	\$	3.016,58	\$ 976,27	\$ 4.724,92	\$ 1.551,56	\$ 249,15	\$ 3.545,86	3,64x	19,14x	3,06x
	Maximum	\$	24.092,52	\$ 3.821,20	\$ 27.913,71	\$ 8.272,71	\$ 1.458,03	\$ 19.657,86	5,92x	28,14x	5,51x

Share Price Calculated with	EV/Sales	Sales	Implied Shareprice
25%-Percentille	1,87x	\$ 12.733,10	\$ 83,35
Median	3,02x	\$ 12.733,10	\$ 134,61
Mean	3,06x	\$ 12.733,10	\$ 136,40
75%-Percentille	3,64x	\$ 12.733,10	\$ 162,25

Share Price Calculated with	EV/EBITDA	EBITDA	Implied Shareprice
25%-Percentille	11,79x	\$ 2.675,40	\$ 110,42
Median	19,03x	\$ 2.675,40	\$ 178,23
Mean	17,65x	\$ 2.675,40	\$ 165,30
75%-Percentille	19,14x	\$ 2.675,40	\$ 179,26

Share Price Calculated with	P/S	Sales	Implied Shareprice
25%-Percentille	1,24x	\$ 12.733,10	\$ 55,27
Median	2,53x	\$ 12.733,10	\$ 112,77
Mean	2,59x	\$ 12.733,10	\$ 115,45
75%-Percentille	3,06x	\$ 12.733,10	\$ 136,40

Weighted Shareprice	
Mean of Means	\$ 139,05
Mean of Medians	\$ 141,87



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