This report has been issued for information purposes only and is not intended to constitute investment advice. It is based on estimates and forecasts of third parties regarding revenues, earnings and business developments. Such estimates and forecasts cannot be independently verified by reason of the subjective character. CPH Chemie + Papier Holding AG gives no guarantee, representation or warranty and is not responsible or liable as to its accuracy and completeness.

This report is not a prospectus within the meaning of art. 652a CO or art. 27 et seq. of the SIX Listing Rules. This document is neither an advice on investment, nor a recommendation or invitation for purchasing, holding or selling any securities, money market instruments or derivatives and no investment decision should be based on this report. This report speaks as of its date. Neither CPH Chemie + Papier Holding AG nor Dynamics Group AG assume any responsibility to up-date the report.

CPH Chemie + Papier Holding AG

Switzerland | Industrial Goods & Services

1H 2020 earnings update

23 July 2020

Company Data

 Price:
 CHF 71.4

 Market Cap:
 CHF 428.4mn

 Free Float:
 41.2%

 No. of shares:
 6.0mn

 Avg. traded volume (30 day):
 554

 Bloomberg:
 CPHN SW

 Reuters:
 CPHN-EB

 ISIN:
 CH0001624717

Source: SIX Swiss Exchange and Bloomberg

Share Price Development



Source: Bloomberg

Key Financial Data

	2018	2019	2020E	2021E
Sales	533.5	524.7	447.8	458.8
EBITDA %	15.6%	16.8%	11.4%	11.1%
EBIT %	9.7%	10.8%	4.5%	4.4%
Net Margin %	7.9%	9.2%	6.1%	3.6%
Basic EPS	7.05	8.06	4.58	2.72
Diluted EPS	7.05	8.06	4.58	2.72
DPS	1.80	1.80	1.80	1.80
Equity Ratio %	50.7%	62.6%	65.6%	66.0%
Capex	(18.2)	(22.0)	(20.9)	(31.4)
P/Sales	0.8x	0.8x	1.0x	0.9x
P/E	10.1x	8.8x	15.5x	26.1x
EV/EBITDA	5.9x	5.6x	9.7x	9.6x

Source: Research Dynamics, Company data

Next Events

ITCAL EVCIICS	
Investor Day	8 Sep 2020
ZKB Equity Conference 2020 in	4 Nov 2020
7urich	

Analysts

Doris Rudischhauser dru@researchdynamics.ch

Alexandre Müller amu@researchdynamics.ch

Tel: +41 43 268 3232 www.researchdvnamics.ch

Navigating a challenging environment

Muted 1H/20 results, with cautious short-term outlook

CPH reported a muted set of numbers, with the top-line decreasing by 13.3% YoY to CHF 231.8mn (-8.2% YoY ex-currency) due to the adverse impact of the coronavirus pandemic. The net sales erosion was mainly attributable to the weakness in the Paper division (-25.9% YoY). Group EBIT decreased to CHF 17.8mn from CHF 32mn in 1H/19, with the EBIT margin compressing to 7.7% from 12.0% in the same period last year. Despite the top-line and EBIT margin pressure, net profit attributable to shareholders grew by 1.0% to CHF 27.4mn, with the corresponding margin improving by 168bps to 11.8%. The bottom-line improvement mirrored an extraordinary income of CHF 12.0mn, attributable to the release of provisions for lower-than-expected costs for clean-up works required at the Chemistry division's former Uetikon operating site. Although all divisions reported positive EBIT for the period, the Paper division dragged Group EBIT. Amidst the pandemic, lower demand for printing paper has led to pressure on advertising income for media publishing houses, which forced them to reduce their publication sizes and print runs. The Paper division reported an EBIT of CHF 2.3mn, significantly lower compared to the CHF 19.0mn reported in 1H/19, and the corresponding margin decreased to 2.1% from 12.9% during the same period last year.

Segmental performance

Paper: The Paper division reported a 25.9% YoY decline in sales to CHF 108.8mn, primarily due to the structural erosion amidst ongoing digitalization and lower advertising volumes. This forced media houses to reduce their publication sizes and print runs, which further impacted paper volume and prices. The demand decline for newsprint and magazine papers forced the company to keep both its paper machines idle for some days during the period. The divisional EBIT decreased significantly by 87.8% YoY to CHF 2.3mn from CHF 19.0mn in 1H/19, with the corresponding margin decreasing to 2.1% (1H/19:12.9%).

Packaging: The current pandemic crisis benefited the Packaging division through increasing demand for medication products for which the company supplies packaging products. Net sales at the Packaging division increased by 7.3% YoY to CHF 86.7mn from CHF 80.8mn on a half-yearly basis. The division which supplies films for blister packs used in the pharmaceuticals' industry experienced record levels of new product orders. The strategic geographical location of production plants in Asia, Europe and the Americas enabled the company to balance its capacities and ensure effective supplies during the period. The divisional EBIT improved to CHF 13.0mn from CHF 10.1mn, with the corresponding EBIT margin improving by approximately 260bps YoY to 15.0% to post a new record. The EBIT margin improved on the sizable decline in raw material prices during the period.

Chemistry: The Chemistry division reported a decrease of 8.8% YoY in net sales to CHF 36.2mn in 1H/20. The decrease in the top-line was due to dampened business trends in many industries which the Chemistry division serves by supplying molecular sieves, gels and deuterated compounds. The sudden uncertainty due to the pandemic has prompted companies in many sectors such as oil, gas and ethanol to defer their investment decisions. However, incoming orders for molecular sieves employed in the concentration of medical oxygen reached new record levels. The segment reported an 18.1% decrease in EBIT to CHF 2.5mn with the corresponding margin narrowing to 7.0% from 7.8% in 1H/19.

Full-year guidance lowered

Subsequent to the weak performance during the first half and the current situation, management sounded caution over the pace of the economic recovery. The Group expects a slowdown in the global economic activities due to the coronavirus crisis for FY2020 and lowered its guidance issued at the beginning of the year. The group expects full-year net sales and earnings to witness a fall, with the net result expected to be in the low-double digit millions.

Paper: The company expects additional pressure on paper prices due to existing overcapacities in the market. However, the demand for graphic papers is likely to recover slightly in Europe in the second half of 2020. Management expects net sales to be lower than 2019 level and EBIT to fall in negative territory.

Packaging: As the pandemic subsides gradually, management expects the demand for blister pack films to return to more normal levels. Additionally, management plans to further increase the share of products which are in the high barrier film segment. In FY2020, the company expects a substantial increase in net sales and is also confident of an improved EBIT result as compared to the previous year.

Chemistry: The company expects the size and pace of the global economic growth in 2H/20 to dictate the business trends in the Chemistry division. In FY2020, the company expects net sales to be lower and EBIT margin to be broadly in-line with 2019 levels.

Estimate change

The reported 1H/20 result is muted as expected due to the current coronavirus pandemic. For the second half of the year, the recovery in business activity is expected to be slower. Considering the prevailing operating environment, we have lowered our FY2020 estimates. The net sales and EBIT have been revised downwards to CHF 447.8mn and CHF 20.2mn from CHF 503.8mn and CHF 26.4mn, respectively. However, we raise our PAT estimate to CHF 27mn from CHF 22mn to primarily account for the extraordinary income from release of previous provisions in 1H/20.

Valuation and conclusion

We value CPH using DCF and relative valuation techniques. Our intrinsic value of CHF 87.2 per share is a slight reduction from our previous target price (CHF 90.0), implying an upside of 22.5% from current levels. For relative valuation, since the Group operates in three entirely different divisions, we compare each of CPH's divisions with different sets of relevant industry peers. We have employed three parameters – EV/EBITDA, P/S and P/E – to analyze the relative valuation of the Group. CPH currently trades at a P/S multiple of 0.9x (FY2020E), a significant 36% discount to the weighted average multiple of division peers.

In the short-term, we expect the uncertainty to continue in 2H2020 as economic activity is likely to pick up only gradually amidst the ongoing coronavirus pandemic. However, in the medium term, as business activity picks up steam, we expect the valuation discount to narrow and the stock to witness a revaluation. We opine that the company's growth prospects in key markets, improved operating efficiencies from new production facilities and expansion of the Packaging and Chemistry divisions should lead to a valuation improvement. The Paper division should benefit from local market, cost leadership, cost saving initiatives, advanced technology and continued operational improvements, although the business environment continues to remain challenging due to overcapacities and decreasing demand for newsprint paper. However, over time tough the operating environment may push marginal paper producers out of business which should lead to reduced capacities and aid a recovery in paper prices.

We remain encouraged by management's commentaries which did not include any major changes to the mid- to long-term goals. Moreover, we expect the group-level cost optimization initiatives to offer support to the company's stock price.

Exhibit 1: CPH – Comparison with division peers

Company	EV/EBITDA				P/S		P/E			
company,	3 year average	CY2020E	CY2021E	3 year average	CY2020E	CY2021E	3 year average	CY2020E	CY20218	
CPH Chemie & Paper	7.8x	7.8x	7.1x	0.9x	0.9x	0.8x	13.6x	17.8x	16.3	
Paper peers:										
Holmen	NA	18.2x	16.6x	NA	3.2x	3.2x	NA	30.3x	26.8	
Stora Enso	7.9x	9.9x	8.1x	1.0x	1.0x	1.0x	13.7x	24.2x	14.2	
Altri	7.1x	10.5x	7.7x	1.7x	1.4x	1.3x	10.0x	29.6x	12.2	
Metsa Board	11.4x	9.7x	8.2x	1.2x	1.1x	1.1x	14.0x	19.6x	13.8	
UPM-Kymmene	8.5x	9.5x	8.2x	1.4x	1.5x	1.4x	12.8x	18.4x	15.3	
Norkse Scogindustrier	10.8x	NA	NA	0.0x	NA	NA	2.8x	NA	N	
James Cropper	16.8x	NA	NA	1.3x	NA	NA	35.3x	NA	N.	
OJI Holdings	8.4x	852.7x	822.8x	0.4x	0.3x	0.3x	13.5x	9.2x	7.8	
Chemistry peers:										
Honeywell Int.	13.0x	15.6x	14.3x	2.8x	3.4x	3.2x	21.0x	22.0x	19.5	
Clariant	10.9x	NA	NA	1.4x	NA	NA	33.0x	NA	N.	
Arkema	6.1x	8.0x	7.2x	0.8x	0.9x	0.8x	12.6x	17.7x	13.6	
WR Grace & Co.	14.4x	11.4x	9.2x	2.4x	1.9x	1.7x	30.3x	17.0x	12.1	
Packaging peers:										
Meadvestwaco	NA	NA	NA	NA	NA	NA	NA	NA	N.	
MacFarlane Group	10.5x	NA	NA	0.7x	0.0x	0.0x	16.7x	9.6x	9.4	
Gerresheimer	10.5x	13.1x	11.9x	1.6x	2.1x	2.0x	25.2x	24.0x	21.1	
West Pharmaceutical Services	24.7x	41.4x	37.4x	5.3x	9.4x	8.8x	41.9x	70.2x	62.9	
Convertidora Industrial	5.0x	NA	NA	0.3x	NA	NA	41.9x	NA	N	
PSB Industries	4.7x	10.8x	4.3x	0.3x	0.3x	0.2x	15.3x	-7.9x	26.4	
Astrapak Ltd	NA	NA	NA	NA	NA	NA	NA	NA	N	
Bilcare Ltd	34.4x	NA	NA	0.0x	NA	NA	6.9x	NA	N	
Median	10.5x	11.1x	8.7x	1.2x	1.4x	1.3x	15.3x	19.6x	14.2	
High	34.4x	852.7x	822.8x	5.3x	9.4x	8.8x	41.9x	70.2x	62.9	
Low	4.7x	8.0x	4.3x	0.0x	0.0x	0.0x	2.8x	-7.9x	7.8	
Premium (disc) to peers	(26%)	(30%)	(18%)	(25%)	(37%)	(33%)	(11%)	(9%)	15	

Source: Thomson Eikon (as on 21 July 2020)

Exhibit 2: CPH – Comparison with weighted average of division peers

	EV/EBITDA				P/S		P/E		
	3 year			3 year			3 year		
	average	CY2020E	CY2021E	average	CY2020E	CY2021E	average	CY2020E	CY2021E
Weighted peer multiples	9.6x	11.2x	9.4x	1.1x	1.3x	1.2x	17.5x	19.8x	16.8x
CPH	7.8x	7.8x	7.1x	0.9x	0.9x	0.8x	13.6x	17.8x	16.3x
Premium (disc) to peers	(19%)	(30%)	(25%)	(19%)	(36%)	(32%)	NM	(10%)	(3%)

Source: Thomson Eikon (as on 21 July 2020)

DETAILED FINANCIAL STATEMENTS

Income Statement

Lincollic Statement							
CHF mn (except per share)	FY15	FY16	FY17	FY18	FY19	FY20E	FY21E
Chemistry sales	63	69	75	79	78	72	74
Paper sales	248	246	264	301	293	215	215
Packaging sales	110	119	130	153	153	161	170
Net Sales	420	435	470	534	525	448	459
Cost of Sales	(285)	(267)	(309)	(311)	(298)	(262)	(275)
Gross profit	135	168	161	222	227	186	184
Personnel cost	(86)	(89)	(84)	(92)	(93)	(93)	(93)
Outsourced maintenance/repairs	(16)	(18)	(17)	(19)	(20)	(17)	(16)
Other operating expense	(21)	(25)	(26)	(28)	(26)	(25)	(24)
Total operating costs	(123)	(131)	(127)	(139)	(139)	(135)	(132)
EBITDA	12	37	34	83	88	51	51
Depreciation	(34)	(31)	(30)	(30)	(30)	(30)	(30)
Amortisation	(0)	(1)	(1)	(1)	(1)	(1)	(1)
Operating profit (EBIT) before impairment	(22)	6	3	52	57	20	20
Impairment	0	0	0	0	0	0	0
Operating profit (EBIT)	(22)	6	3	52	57	20	20
Finance costs	(13)	(6)	(8)	(7)	(6)	(4)	(4)
Finance income	1	1	2	1	0	0	0
Total financial income (expenses)	(12)	(5)	(7)	(6)	(6)	(4)	(4)
Profit before taxes (before exceptional items)	(34)	1	(4)	46	51	16	16
Non-operating items	2	(4)	23	0	1	15	4
Income taxes	(1)	(4)	(3)	(3)	(3)	(3)	(4)
Profit attributable to the parent	(33)	(8)	16	42	48	27	16
Basic EPS	(5.5)	(1.3)	2.7	7.1	8.1	4.6	2.7
Diluted EPS	(5.5)	(1.3)	2.7	7.1	8.1	4.6	2.7
DPS	0.6	0.7	0.7	1.8	1.8	1.8	1.8

Source: Research Dynamics, Company data

Balance Sheet

CHF mn	FY15	FY16	FY17	FY18	FY19	FY20E	FY21E
Assets	F112	FY16	FY1/	- F118	FY19	FYZUE	LIZIE
Non-current assets							
PPE	404.3	384.6	384.1	376.1	366.4	356.5	357.2
· · =	2.4	384.6	384.1 4.8	5.8	5.6	5.6	5.6
Intangible assets		10.0	4.8 10.0	10.0	10.0	10.0	10.0
Long-term financial assets	10.0						
Long-term financial receivables	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other non-current assets	20.2	52.6	56.4	55.3	54.0	54.0	54.0
Total non-current assets	436.9	450.3	455.3	447.2	436.0	426.1	426.8
Current assets	F4.F	60.6	F0 3	60.6	70.5	75.0	76.2
Inventories	54.5	68.9	59.2	69.6	78.5	75.8	76.3
Trade accounts receivable	66.4	69.1	77.8	72.1	72.4	70.0	74.5
Other receivables	8.0	8.9	18.0	13.1	14.0	12.0	12.0
Prepaid expenses and accrued income	4.9	4.8	7.0	9.2	8.6	8.6	8.6
Short-term financial receivables	0.0	0.1	0.0	100.3	0.0	0.0	0.0
Liquid funds and Securities	53.2	70.4	80.2	89.0	93.1	102.7	101.2
Total assets	624.0	672.4	697.6	800.5	702.7	695.2	699.5
Shareholders' Equity and Liabi	lities						
Share capital	30.0	30.0	30.0	12.0	12.0	12.0	12.0
Capital reserves	8.4	4.8	0.8	15.0	4.2	4.2	4.2
Profit reserves	397.4	351.2	346.4	336.2	375.2	412.7	429.4
Net result for the year	(33.1)	(7.9)	16.0	42.3	48.3	27.5	16.3
Non-current liabilities							
Long-term financial liabilities	126.5	145.6	143.5	120.5	116.8	110.8	107.0
Pension scheme liabilities	1.0	1.1	0.6	1.3	0.7	0.7	0.7
Other long-term liabilities	2.3	0.1	0.0	0.8	0.6	0.6	0.6
Long-term provisions	20.0	52.5	51.8	50.0	47.5	35.5	35.5
Current liabilities							
Trade accounts payable	46.7	53.1	69.5	69.7	66.3	60.1	62.8
Other payables	2.6	8.3	3.3	4.1	3.6	3.6	3.6
Accrued liabilities and deferred income	13.6	16.5	17.2	20.0	16.3	16.3	16.3
Short-term financial liabilities	6.8	7.0	9.8	125.8	5.9	5.8	5.6
Short-term provisions	1.5	7.6	5.6	1.2	3.8	3.8	3.8
Total liabilities	221.2	291.6	301.3	393.3	261.4	237.3	236.0
Total equity and liab.	624.0	672.4	697.6	800.5	702.7	695.2	699.5
Source: Research Dynamics, Compa	any data						

Source: Research Dynamics, Company data

Cash Flow Statemen	t						
CHF mn	FY15	FY16	FY17	FY18	FY19	FY20E	FY21E
Net profit for the period	(33.1)	(7.7)	16.2	42.3	48.5	27.5	16.3
Non-cash adjustments:	35.3	33.9	(1.5)	26.3	31.2	30.8	30.7
Change in CA and CL:							
(Increase)/ decrease in inventories	8.4	(13.1)	13.6	(8.6)	(10.2)	2.8	(0.5)
Decrease in trade accounts receivable	8.1	(0.5)	(7.7)	5.0	(1.3)	2.3	(4.5)
Increase/ (decrease) in trade accounts payable	(6.8)	1.6	15.8	(1.1)	(2.8)	(6.1)	2.7
Other changes in working capital	11.5	7.7	(4.2)	0.4	(4.3)	(10.0)	-
Cash flows from operating activities	23.3	21.9	32.2	64.3	61.0	47.3	44.7
Investments in tangible fixed assets	(21.9)	(20.7)	(32.3)	(22.3)	(21.9)	(19.8)	(30.3)
Disposals of tangible fixed assets	1.6	20.5	15.4	6.3	0.8	-	-
Investments in intangible assets	(1.6)	(1.2)	(2.4)	(2.2)	(1.0)	(1.1)	(1.1)
Investments in business activities	-	(18.5)	-	(27.9)	-	-	-
Repayment of long-term financial receivables	-	-	-	-	100.9	-	-
Cash flow generated		(40.0)	(40.0)	(45.5)		(22.0)	(54.4)
(used) in investment activities	(22.0)	(19.9)	(19.3)	(46.0)	78.9	(20.9)	(31.4)
Increase/ (Decrease) in short-term financial liabilities and receivables	(15.3)	0.1	1.0	(4.3)	(123.4)	(0.1)	(0.2)
Increase/ (Decrease) in long-term financial liabilities	(1.1)	19.0	(0.6)	(3.0)	(1.1)	(5.9)	(3.8)
Increase in other long- term liabilities	(0.1)	(0.4)	0.2	2.1	(0.2)	-	-
Dividends to shareholders	(3.9)	(3.6)	(3.9)	(3.9)	(10.9)	(10.8)	(10.8)
Cash flow generated (used) in financing	(20.4)	15.2	(3.3)	(9.1)	(135.6)	(16.8)	(14.8)
Exchange (losses)/gains	2.3	0.1	0.2	(0.3)	(0.2)	-	-
Net change in cash	(16.7)	17.2	9.8	8.9	4.1	9.6	(1.5)
Opening cash balance	69.9	53.1	70.3	80.1	89.0	93.1	102.7
Closing cash balance	53.1	70.3	80.1	89.0	93.1	102.7	101.2

Source: Research Dynamics, Company data

Key	Ratios
-----	--------

Rey Ratios							
	FY15	FY16	FY17	FY18	FY19	FY20E	FY21E
Growth Ratios							
Sales Growth	(15%)	4%	8%	14%	(2%)	(15%)	2%
Chemistry division	4%	11%	9%	5%	(2%)	(8%)	3%
Paper division	(21%)	(1%)	7%	14%	(3%)	(27%)	0%
Packaging division	(7%)	9%	9%	17%	0%	5%	6%
Operating Profit Growth	NM	NM	(51%)	NM	10%	(64%)	1%
Net Income Growth	NM	NM	NM	165%	14%	(43%)	(41%)
Profitability Ratios (%)							
Operating margin (before impairment) (%)	(5%)	1%	1%	10%	11%	5%	4%
Chemistry division	(3%)	2%	5%	8%	6%	5%	4%
Paper division	(11%)	(2%)	(5%)	10%	12%	(2%)	(2%)
Packaging division	5%	8%	7%	10%	11%	13%	13%
EBITDA Margin %	3%	8%	7%	16%	17%	11%	11%
Net Margin (%)	(8%)	(2%)	3%	8%	9%	6%	4%
Return Ratios							
Profit Margin	(8%)	(2%)	3%	8%	9%	6%	4%
Asset Turnover	0.6x	0.7x	0.7x	0.7x	0.7x	0.6x	0.7x
Financial Leverage	1.6x	1.7x	1.8x	1.9x	1.8x	1.6x	1.5x
Dupont ROE (%)	(8%)	(2%)	4%	11%	11%	6%	4%
ROCE (%)	(4%)	1%	1%	10%	10%	4%	4%
ROA (%)	(5%)	(1%)	2%	6%	6%	4%	2%
Leverage Ratios							
Debt - Equity Ratio	0.3x	0.4x	0.4x	0.6x	0.3x	0.3x	0.2x
Net Debt - Equity Ratio	0.2x	0.2x	0.2x	0.4x	0.1x	0.0x	0.0x
Interest Coverage	(5.5x)	1.4x	0.7x	11.8x	9.1x	4.6x	5.1x
Liquidity Ratios							
Current Ratio	2.6x	2.4x	2.3x	1.6x	2.8x	3.0x	3.0x
Quick Ratio	1.9x	1.7x	1.7x	1.3x	2.0x	2.2x	2.1x
Valuation Ratios							
EV/EBITDA	25.8x	13.3x	14.6x	5.9x	5.6x	9.7x	9.6x
P/E	NM	NM	26.7x	10.1x	8.8x	15.5x	26.1x
P/BV	0.6x	1.1x	1.1x	1.1x	1.0x	0.9x	0.9x

Source: Research Dynamics, Bloomberg, Company data

DISCLAIMER

CPH Chemie + Papier Holding AG ("CPH") is a client of Research Dynamics. The equity research report(s) are prepared for informational purposes only and are paid for by the company portrayed in the report. Research Dynamics is a division of Dynamics Group AG. Dynamics Group is an independent consultancy firm focused on strategic advisory, communication management and research and analysis.

This report (henceforth known as "document") has been drafted by the authors concerned as a non-binding opinion on the market situation and on the instruments of investment in question and compiled by Dynamics Group in order to provide background information about the companies. It is intended exclusively for the purpose of information.

Dynamics Group has not individually verified the information and data on which this document is based. All information and data in this document originate from generally available sources which the author concerned or Dynamics Group viewed as reliable at the time of drafting this document. However, no liability can be assumed for their correctness, accuracy, completeness and appropriateness – neither expressly nor tacitly. The contents of this document do not represent an assurance or guarantee by the authors concerned or Dynamics Group. Forward-looking information or statements in this document contain information that is based on assumptions, forecasts of future results, estimates of amounts not yet determinable, and therefore involve known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements of their subject matter to be materially different from current expectations

Dynamics Group shall not be liable for any consequential damage to properties - on whatever legal grounds it may be. Liability of Dynamics Group on account of premeditation or gross negligence shall remain unaffected by this.

Dynamics Group has no permission to provide assurances or assume guarantees on behalf of the companies or a third party mentioned in this document. Neither the companies mentioned in this document nor any other individual assumes liability for any loss, damage or detriment that may result from the use of this document, especially when taking decisions on investments, or from other reasons. Dynamics Group cannot be held responsible for detrimental consequences that occur or may occur due to the use or its omission based on the views and inferences contained in this document. Past performance trends of value, price or rates do not provide any indications to the future trends for an investment. Dynamics Group does not provide any guarantees for the suggested yield or the achievement of referred targets.

This document does neither represent an offer of purchase, holding or sale of any securities, money market instruments or of derivatives, nor does it contain the basis for a contract or a commitment of any kind. Every investment, for example, in debentures, shares and options, is associated with enormous risks. A decision on investment with regard to any security may not be based on this document. This document is neither an advice on investment, nor a recommendation or invitation for purchasing, holding or selling any securities, money market instruments or derivatives.

Dynamics Group does not conduct any investment business and, accordingly, does not itself hold any positions in the securities mentioned in this document. However, the respective directors, employees and contractors of Dynamics Group may hold positions in the described securities and/or options, futures and other derivatives that are based on these securities.

This document has been provided to you for information only. It may not be reproduced or distributed to others or published in any other form partially or fully.

The distribution of this document and the information contained therein may be restricted in other jurisdictions by law and persons who may come into possession of this document must be aware of possible restrictions and adhere to the same. Failure to comply with such restrictions may constitute an infringement of the laws in USA or Canada governing the securities or of the laws of any other jurisdiction.

This study is protected by the copyright laws. It may be used only for the purpose as defined in this disclaimer. Portions of the study, if quoted, must be acknowledged by indicating the source. Any use other than this shall require prior written permission by Dynamics Group. Reproduction, circulation, publication and provision of online access to the document shall be regarded as its use and the same shall require permission. Circulation of this document, especially in a foreign country, may be permitted only under the provisions of the disclaimer and the applicable regulations. Unauthorized use of the study or omission of details of the source or the acknowledgement of copyright may lead to initiation of a civil suit for damages and be liable for prosecution.

If any part or individual formulations of this disclaimer are found to be unsustainable or become unsustainable at a future date, the rest of the contents and their validity shall not be affected by it.

Dynamics Group AG

Utoquai 43 CH-8008 Zürich Tel. +41 43 268 32 32 Fax +41 43 268 32 39

contact@dynamicsgroup.ch

Zeughausgasse 22 CH-3011 Bern Tel. +41 31 312 28 41 Fax +41 31 312 28 49

21, rue des Caroubiers CH-1227 Carouge/GE Tel. +41 22 308 62 20 Fax +41 22 308 62 36