

# **Q&A Report**

# **HBM Healthcare**

Switzerland | Pharma & biotech | MCAP CHF 1.3bn

22 July 2019

# Buy

Target Price Current Price Up/downside Change in TP Change in EPS

CHF 220.00 (151.00) CHF 184.80 19.0% 45.7% up nm 19E / up nm 20E



# Does the current discount to NAV hamper the potential of HBM's shares?

HBM's shares are up 20% since the beginning of the year, beating the performance of the US biotech market over the same period (+12%). This great performance relies on an improvement of the NAV, but most importantly on the gradual decline in HBM's share price discount to NAV. The current discount is therefore limited to 8%, well below its three-year average (16%). One might wonder whether this trend is sustainable.



# No, there is enough room for further appreciation

Pharma trends and dynamics remain solid, and HBM has demonstrated its ability to identify the value of promising biotechs early on. HBM has a well-balanced portfolio of public and private companies, and a successful long-term exit strategy (IPO or trade sale). Furthermore, shareholders benefit from an attractive return (a dividend in the range of 5% per year and share buyback), leading to sustainable performance. As a result, HBM's shares posted one of the best five-year performances among its peers. Despite this, the current share price discount to NAV is still 8%, while some laggards trade at a premium. Lastly, the non-listed investments could hide interesting value, as they are valued at their acquisition cost in our model. We update our model and henceforth apply a conservative 10% discount to NAV (vs. 20% previously) to take into account the portfolio's positive advancement. Accordingly, we lift our TP to CHF220, implying 19% upside, and maintain a Buy rating.

Kepler Cheuvreux and the issuer have agreed that **Kepler Cheuvreux** will produce and disseminate investment research on the said issuer as a service to the issuer.

#### **Main author**

#### **Arsene Guekam**

Head of Biotech

aguekam@keplercheuvreux.com +33 1 70 81 57 56

Pharma & biotech research team
Biographies at the end of the report

# Beyond the Q.

# **Investment Case**

### Pharma trends still set the pace

HBM Healthcare is a Swiss investment company managed by HBM Partners. Its investment focus is private and public healthcare companies, mainly in Europe and North America. Among the various segments of the healthcare industry, the biotech sector is well positioned to sustain its dynamic growth in the years ahead, thanks to its track record of innovation. Despite increasing pressure on healthcare, the sector offers solid fundamentals, supported by an ageing population, innovation, and emerging economies.

No other sub-sector in healthcare generates as high a return as the biotech sector. HBM has gradually built a strong track record of investment, targeting and delivering an annual return of at least 5% of net assets (+129% on the last five years). This regular outperformance gives the company an edge over peers.

### **Enough room for further appreciation**

Thanks to wise choices and relevant stock-picking, HBM's long-term performance (three to five years) is among the best of its peers. Hence, over the last year, due to an increase in investors' confidence in HBM's investment strategy, the fund's discount to NAV has decreased to 8%, well below the three-year average discount (16%). However, some of its peers with worse performances are currently trading at a premium to their NAV. Hence, we think that HBM's discount to NAV is likely to shrink again. Moreover, HBM Healthcare's portfolio of private companies that are still at a relatively early stage of development could hide promising value, as HBM has already demonstrated its ability to elicit the value from these investments (through an IPO or trade sale).

#### Valuation model

Our valuation of HBM Healthcare is based on the NAV of all investments, minus a discount. Henceforth, we use a conservative 10% discount to NAV (vs. 20% previously) to take into account the positive advancement of the portfolio and higher confidence from investors. We expect the NAV of HBM's public company portfolio to reach the value implied by analysts' and consensus' target prices. The valuation of investments in private companies and funds are included in our valuation, at their acquisition costs or the price of the last round of financing. Our valuation points to a NAV per share of CHF247, implying a target price of CHF220. Any IPO or trade sale of companies in the private equity portfolio offer upside to our scenario.

#### **Company summary**

HBM Healthcare is a Swiss investment company managed by HBM Partners. It was founded in 2001 and listed on the Swiss Stock Exchange in February 2008. Its investment focus is private and public healthcare companies, mainly in Europe and North America. The investment portfolio is made up of stakes in about 50 companies (its largest investment is less than 10% of the portfolio). It also has investments in healthcare-dedicated funds to diversify outside of its core expertise.

#### Management

Andreas Wicki, CEO Erwin Troxler, CFO

Hans Peter Hasler, Chairman of the Board

#### **Key shareholders**

Nogra Pharma Invest 15.0%

#### Market data HBMN SW Bloomberg Reuters HBMN.S Market cap (CHF) 1.3bn Free float (%) 100.0 No. of shares outstanding (m) 1.2 3m avg. daily vol (CHFm) YTD abs. performance 18.9% 52-week high (CHF) 186.40 147.60 52-week low (CHF)

#### Strengths

- Highly skilled investment team with long-standing expertise
- Diversified portfolio of late-stage assets, both private and public
- Active role in value creation within portfolio companies
- Listed private healthcare equity fund

#### **Opportunities**

- Invested in emerging and innovative therapies
- Substantial clinical newsflow from holding companies
- Intense M&A activity in the global healthcare sector
- Favourable environment for healthcare IPOs

#### Weaknesses

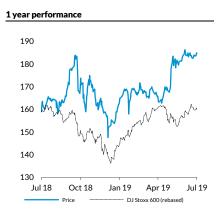
- Persistent wide discount to NAV
- Mature portfolio, which needs to be rebalanced
- Mixed performance over the years
- Size could be an obstacle to investing in small- and mid-caps

#### **Threats**

- Competition from listed healthcare equity funds or ETFs
- Venture is an industry that does not scale well
- The biotech boom coming to an end
- Sector rotation with healthcare outflows

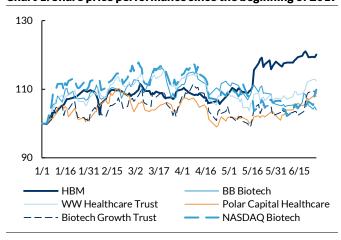
Key financials (please see the end of this report for full financials)

% Change         na         na         na         na         na         na           EBITDA adjusted         0.0 <t< th=""><th>Income Statement (CHFm)</th><th>2015</th><th>2016</th><th>2017</th><th>2018</th><th>2019E</th><th>2020E</th></t<>	Income Statement (CHFm)	2015	2016	2017	2018	2019E	2020E
EBITDA adjusted 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 EBIT adjusted 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Sales	0.0	0.0	0.0	0.0	0.0	0.0
EBIT adjusted Adjusted BIT margin (%) na	% Change	na	na	na	na	na	na
Adjusted EBIT margin (%)         na         na         na         na         na           Net profit reported         23.1         134.6         113.8         209.1         194.7         208.8           Net profit adjusted         23.1         134.6         113.8         209.1         194.7         208.8           Cash flow statement (CHFm)         Evered post tax CF before capex         -44.0         119.3         72.5         171.9         141.8         163.0           Capex         0.0         0.0         0.0         0.0         0.0         0.0         0.0           Free cash flow         -44.0         119.3         72.5         171.9         141.8         163.0           Balance sheet (CHFm)         Intraction of the company of the	EBITDA adjusted	0.0	0.0	0.0	0.0	0.0	0.0
Net profit reported   23.1   134.6   113.8   209.1   194.7   208.6     Net profit adjusted   23.1   134.6   113.8   209.1   194.7   208.6     Net profit adjusted   23.1   134.6   113.8   209.1   194.7   208.6     Net profit adjusted   23.1   134.6   113.8   209.1   194.7   208.6     Net profit adjusted   23.1   134.6   113.8   209.1   194.7   208.6     Net profit adjusted   23.1   134.6   113.8   209.1   194.7   208.6     Net profit adjusted and fully diluted   32.6   5.3   7.5   5.5   5.6   6.6   62.7     Per Slangton   20.1   20.1   20.1   20.1     Net profit adjusted and fully diluted   32.6   5.3   7.5   5.5   5.6   6.6   62.7     Per Slangton   20.1   20.1   20.1     Net profit adjusted and fully diluted   32.6   5.3   7.5   5.5   5.6   6.6   62.7     Per Slangton   20.1   20.1   20.1   20.1     Net profit adjusted and fully diluted   32.6   5.3   7.5   5.5   5.6   6.6   62.7     Per Slangton   20.1   20.1   20.1   20.1   20.1     Net profit adjusted and fully diluted   32.6   5.3   7.5   5.5   5.6   6.6   62.7     Per Slangton   20.1   20.1   20.1   20.1   20.1     Net profit adjusted and fully diluted   32.6   5.3   7.5   5.5   5.6   6.6   62.7     Per Slangton   20.1   20.1   20.1   20.1   20.1     Net profit adjusted and fully diluted   32.6   5.3   7.5   5.5   5.6   6.6   62.7     Per Slangton   20.1   20.1   20.1   20.1   20.1     Net profit adjusted and fully diluted   32.6   5.3   7.5   5.5   5.6   6.6   62.7     Per Slangton   20.1   20.1   20.1   20.1   20.1     Net profit adjusted and fully diluted   32.6   5.3   7.5   5.5   5.6   6.6   62.7     Per Slangton   20.1   20.1   20.1   20.1   20.1     Net profit adjusted and fully diluted   32.6   5.3   7.5   5.5   5.6   6.6   62.7     Per Slangton   20.1   20.1   20.1   20.1   20.1     Net profit adjusted and fully diluted   32.6   5.3   7.5   5.5   5.6   6.6   62.7     Per Slangton   20.1   20.1   20.1   20.1   20.1     Net profit adjusted and fully diluted   32.6   5.3   7.5   5.5   5.6   6.6   62.7     Per Slangton   20.1   20.1   20.1   20.1	EBIT adjusted	0.0	0.0	0.0	0.0	0.0	0.0
Net profit adjusted   23.1   134.6   113.8   209.1   194.7   208.8	Adjusted EBIT margin (%)	na	na	na	na	na	na
Cash flow statement (CHFm)           Levered post tax CF before capex         -44.0         119.3         72.5         171.9         141.8         163.0           Capex         0.0         0.0         0.0         0.0         0.0         0.0         0.0           Free cash flow         -44.0         119.3         72.5         171.9         141.8         163.0           Balance sheet (CHFm)           Intangible assets         0.0         0	Net profit reported	23.1	134.6	113.8	209.1	194.7	208.8
Levered post tax CF before capex	Net profit adjusted	23.1	134.6	113.8	209.1	194.7	208.8
Capex         0.0         0.0         0.0         0.0         0.0         0.0           Free cash flow         -44.0         119.3         72.5         171.9         141.8         163.0           Balance sheet (CHFm)           Intangible assets         0.0	Cash flow statement (CHFm)						
Precash flow   -44.0   119.3   72.5   171.9   141.8   163.0	Levered post tax CF before capex	-44.0	119.3	72.5	171.9	141.8	163.0
Balance sheet (CHFm)   Intangible assets   0.0	Capex	0.0	0.0	0.0	0.0	0.0	0.0
Intangible assets	Free cash flow	-44.0	119.3	72.5	171.9	141.8	163.0
Tangible assets 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Fin. & other non-current assets 1,007.6 1,126.8 1,193.6 1,262.4 1,507.0 1,766.8 1,193.6 1,262.4 1,507.0 1,766.8 1,193.6 1,262.4 1,507.0 1,766.8 1,193.6 1,262.4 1,507.0 1,766.8 1,193.6 1,262.4 1,507.0 1,766.8 1,193.6 1,262.4 1,507.0 1,766.8 1,193.6 1,262.4 1,507.0 1,766.8 1,193.6 1,262.4 1,507.0 1,766.8 1,193.6 1,262.4 1,507.0 1,766.8 1,193.6 1,262.4 1,507.0 1,766.8 1,209.0 1,	Balance sheet (CHFm)						
Fin. & other non-current assets	Intangible assets	0.0	0.0	0.0	0.0	0.0	0.0
Total shareholders' equity 1,019.9 1,086.9 1,150.5 1,302.6 1,596.5 1,919.3 Pension provisions 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Tangible assets	0.0	0.0	0.0	0.0	0.0	0.0
Pension provisions   0.0   0	Fin. & other non-current assets	1,007.6	1,126.8	1,193.6	1,262.4	1,507.0	1,766.8
Liabilities and provisions         102.7         259.4         266.8         229.0         229.0         229.0           Net financial debt         -15.9         36.6         40.6         -43.1         -92.4         -155.2           IFRS16 debt         0.0         0.0         0.0         0.0         0.0         0.0           Invested capital         -3.6         -3.3         -2.5         -2.9         -2.9         -2.9           Per share data (CHF)           EPS adj and fully diluted         3.06         19.01         16.40         30.05         27.99         30.02           Cash flow per share         -5.82         16.86         10.45         24.71         20.39         23.45           Book value per share         135.09         153.51         165.71         187.23         229.48         275.85           DPS         5.50         5.80         7.00         7.50         7.66         8.04           Ratios           ROE         2.2%         12.8%         10.2%         17.0%         13.4%         11.9%           ROIC         na	Total shareholders' equity	1,019.9	1,086.9	1,150.5	1,302.6	1,596.5	1,919.1
Net financial debt -15.9 36.6 40.6 -43.1 -92.4 -155.2 IFRS16 debt 0.0 0.0 0.0 0.0 0.0 0.0 0.0 lnvested capital -3.6 -3.3 -2.5 -2.9 -2.9 -2.9 -2.9 -2.9 -2.9 -2.9 -2.9	Pension provisions	0.0	0.0	0.0	0.0	0.0	0.0
FRS16 debt	Liabilities and provisions	102.7	259.4	266.8	229.0	229.0	229.0
Per share data (CHF)   EPS adj and fully diluted   3.06   19.01   16.40   30.05   27.99   30.02   23.44   20.39   23.45   24.71   20.39   23.45   23	Net financial debt	-15.9	36.6	40.6	-43.1	-92.4	-155.2
Per share data (CHF)           EPS adj and fully diluted         3.06         19.01         16.40         30.05         27.99         30.02           Cash flow per share         -5.82         16.86         10.45         24.71         20.39         23.45           Book value per share         135.09         153.51         165.71         187.23         229.48         275.85           DPS         5.50         5.80         7.00         7.50         7.66         8.04           Ratios           ROE         2.2%         12.8%         10.2%         17.0%         13.4%         11.9%           ROIC         na         na         na         na         na         na           Gearing         -1.6%         3.4%         3.5%         -3.3%         -5.8%         -8.1%           Valuation           P/E adjusted and fully diluted         32.6         5.3         7.5         5.5         6.6         6.2           P/CF         na         5.9         11.8         6.6         9.1         7.5	IFRS16 debt	0.0	0.0	0.0	0.0	0.0	0.0
EPS adj and fully diluted         3.06         19.01         16.40         30.05         27.99         30.02           Cash flow per share         -5.82         16.86         10.45         24.71         20.39         23.43           Book value per share         135.09         153.51         165.71         187.23         229.48         275.85           DPS         5.50         5.80         7.00         7.50         7.66         8.04           Ratios           ROE         2.2%         12.8%         10.2%         17.0%         13.4%         11.9%           ROIC         na         na         na         na         na         na         na           Gearing         -1.6%         3.4%         3.5%         -3.3%         -5.8%         -8.1%           Valuation           P/E adjusted and fully diluted         32.6         5.3         7.5         5.5         6.6         6.2           P/CF         na         5.9         11.8         6.6         9.1         7.5	Invested capital	-3.6	-3.3	-2.5	-2.9	-2.9	-2.9
Cash flow per share         -5.82         16.86         10.45         24.71         20.39         23.43           Book value per share         135.09         153.51         165.71         187.23         229.48         275.85           DPS         5.50         5.80         7.00         7.50         7.66         8.04           Ratios           ROE         2.2%         12.8%         10.2%         17.0%         13.4%         11.9%           ROIC         na         -8.1% <td< td=""><td>Per share data (CHF)</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Per share data (CHF)						
Book value per share         135.09         153.51         165.71         187.23         229.48         275.85           DPS         5.50         5.80         7.00         7.50         7.66         8.04           RATION           ROE         2.2%         12.8%         10.2%         17.0%         13.4%         11.9%           ROIC         na         e.8.1%         e.8.	EPS adj and fully diluted	3.06	19.01	16.40	30.05	27.99	30.02
Ratios         ROE         2.2%         12.8%         10.2%         17.0%         13.4%         11.9%           ROIC         na	Cash flow per share	-5.82	16.86	10.45	24.71	20.39	23.43
Ratios       ROE     2.2%     12.8%     10.2%     17.0%     13.4%     11.9%       ROIC     na     na     na     na     na     na       Gearing     -1.6%     3.4%     3.5%     -3.3%     -5.8%     -8.1%       Valuation       P/E adjusted and fully diluted     32.6     5.3     7.5     5.5     6.6     6.2       P/CF     na     5.9     11.8     6.6     9.1     7.5	Book value per share	135.09	153.51	165.71	187.23	229.48	275.85
ROE         2.2%         12.8%         10.2%         17.0%         13.4%         11.9%           ROIC         na         na </td <td>DPS</td> <td>5.50</td> <td>5.80</td> <td>7.00</td> <td>7.50</td> <td>7.66</td> <td>8.04</td>	DPS	5.50	5.80	7.00	7.50	7.66	8.04
ROIC         na         na         na         na         na         na           Gearing         -1.6%         3.4%         3.5%         -3.3%         -5.8%         -8.1%           Valuation           P/E adjusted and fully diluted         32.6         5.3         7.5         5.5         6.6         6.2           P/CF         na         5.9         11.8         6.6         9.1         7.5	Ratios						
Gearing         -1.6%         3.4%         3.5%         -3.3%         -5.8%         -8.1%           Valuation           P/E adjusted and fully diluted         32.6         5.3         7.5         5.5         6.6         6.2           P/CF         na         5.9         11.8         6.6         9.1         7.5	ROE	2.2%	12.8%	10.2%	17.0%	13.4%	11.9%
Valuation       P/E adjusted and fully diluted     32.6     5.3     7.5     5.5     6.6     6.2       P/CF     na     5.9     11.8     6.6     9.1     7.5	ROIC	na	na	na	na	na	na
P/E adjusted and fully diluted 32.6 5.3 7.5 5.5 6.6 6.2 P/CF na 5.9 11.8 6.6 9.1 7.5	Gearing	-1.6%	3.4%	3.5%	-3.3%	-5.8%	-8.1%
P/CF na 5.9 11.8 6.6 9.1 7.9							
		32.6	5.3		5.5		6.2
		na	5.9		6.6	9.1	7.9
							0.7
							4.4%
		-5.8%	16.8%	8.5%	15.1%	11.0%	12.7%
		na	na	na	na	na	na
		na	na	na	na	na	na
	-	na	na	na	na	na	na
EV/IC na na na na na	EV/IC	na	na	na	na	na	na



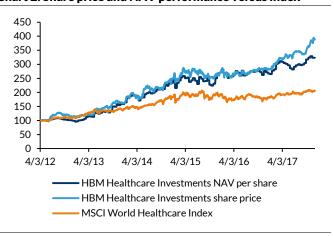
# **Q&A** in six charts

Chart 1: Share price performance since the beginning of 2019



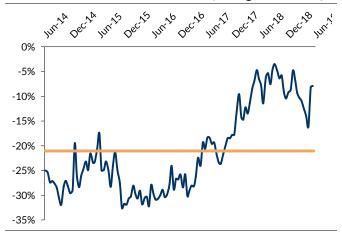
Source: Factset Partners

Chart 2: Share price and NAV performance versus index



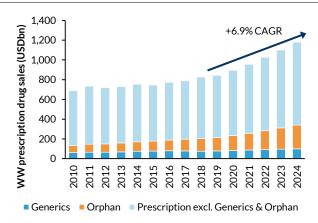
Source: Factset Partners, Kepler Cheuvreux

Chart 3: HBM's share discount to NAV (average level: -21%)



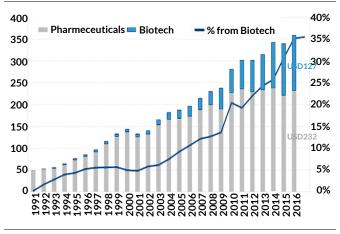
Source: HBM, Kepler Cheuvreux

Chart 4: Worldwide total prescription drug sales (2010-24)



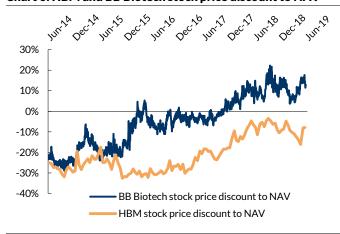
Source: Evaluate Pharma,

Chart 5: Revenue contribution from biotech (USDbn)



Source: S&P Capital IQ, HBM Research, 2017

Chart 6: HBM and BB Biotech stock price discount to NAV



Source: Factset Partners, Kepler Cheuvreux

# **Contents**

Q&A in six charts	4
Does the current discount to NAV hamper the potential of HBM's	
shares?	6
A strong performance since the beginning of the year	6
Discount to NAV has melted	6
Pharma trends remain solid	8
Increasing healthcare expenditures	8
Ageing demographics	9
Lifestyle and obesity	10
Make innovation great again	11
However, there are some headwinds	13
Biotechs are at the forefront	15
Enough room for further appreciation	18
A successful investment strategy backed by expertise	18
The best performance among its peer group	22
Investments in private companies could hide value	23
We update our model and lift our TP	26
NAV-based pricing model	26
Research ratings and important disclosures	34
Legal and disclosure information	37

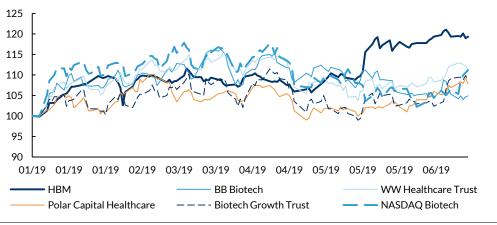
# Does the current discount to NAV hamper the potential of HBM's shares?

Since the beginning of the year, the stock has grown by more than 20%. This is well above the performance of the US biotech market. HBM's share price discount to NAV has shrunk and is currently well below its historical level (-21% on a long-term basis and -16% on a three-year basis). Regarding the current valuation, one might wonder if this trend can continue.

## A strong performance since the beginning of the year

HBM Healthcare Ltd was founded in 2001 and has been listed on the Swiss Exchange since 2008. The company has gradually developed expertise in investing in private and public companies with an exit-driven strategy, leading to an impressive performance over time. Since its inception, HBM's stock performance has regularly outpaced the market.

Chart 7: Share price performance of healthcare/biotech funds since the beginning of 2019



Source: Factset Partners

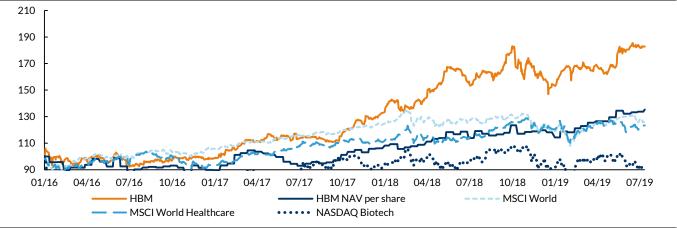
Since the beginning of the year, HBM's share price has increased by +20%, significantly more than the NASDAQ Biotech index (+10%) or its European peers such as BB Biotech (+8%) or American (+10% on average).

### Discount to NAV has melted

Despite its lower exposure to the US market compared to its peers, thanks to wise choices, HBM Healthcare's long-term performance (three to five years) is among the best of its peer group.

Accordingly (and thanks to an increase of investors' confidence in HBM's investment strategy since the beginning of the year), the fund's NAV increased by +14%, while HBM's share price increased by +19%, significantly more than the MSCI World (+16%) or the MSCI World Healthcare Index (+14%).





Source: Factset Partners, Kepler Cheuvreux

Moreover, nowadays HBM's stock price discount to NAV has reduced considerably to 8%, far below its average historical level (-21%).

Chart 9: HBM's stock price discount to NAV (average historical level: -21%)



Source: HBM, Kepler Cheuvreux

# Pharma trends remain solid

The healthcare industry represents annual expenditures worth an average of 9% of GDP across OECD countries (with large discrepancies between countries). Global demand for healthcare products and services will sustain this strong trend in the coming years, thanks to robust fundamentals. These include ageing populations (and the related increase in drug consumption), changes in lifestyle (eating habits and low levels of physical activity), emerging-country expansion, and the innovation cycle within pharma/biotech companies in a more favourable regulatory climate. This positive trend is led by the dynamism of biotech companies.

HBM has developed a strong expertise in investment along the healthcare value chain in private and public companies that are focused on biotech or medical devices.

### Increasing healthcare expenditures

The trend of the pharmaceutical industry's growth is astonishing. The OECD estimates that, in 2018, health spending accounted for 9% of GDP on average across OECD countries. Spending on inpatient and outpatient care combined represents the largest part of health spending. Medical goods (mainly pharmaceuticals) accounted for 19% of health spending, mostly driven by the US.

Looking at changes over time, average health spending grew at a faster rate than the overall economy in the 1990s and 2000s, with some discrepancies between countries. In the US, healthcare expenditures represented 16.9% of US GDP in 2018, but only 7.0% in Ireland.

Chart 10: Total health expenditure per capita and GDP per capita (2013), selected countries

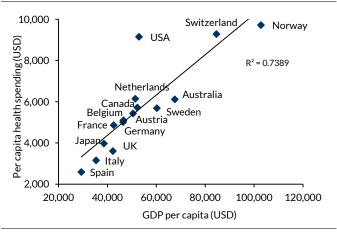
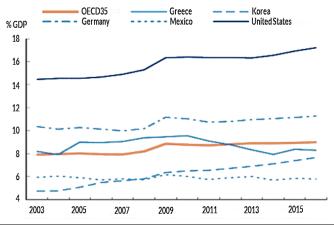


Chart 11: Healthcare expenditure as a share of GDP, selected OECD countries, 2003-16



Source: Kepler Cheuvreux

Source: OECD Health Statistics 2017

The Center for Medicare and Medicaid Services (CMS) expects healthcare spending in the US to represent c. 20% of GDP by 2022E. According to the World Bank, healthcare expenditure is growing in all countries regardless of income level.

Turning our attention to pharmaceutical spending, worldwide sales of prescription drugs are still growing faster than healthcare expenditures. This spending covers both prescription (Rx) and over-the-counter medication (OTC) corresponding to a USD827m market in 2018. According to EvaluatePharma, the pharmaceutical industry is set to post a 6.5% CAGR and is likely to reach USD1.2bn by 2024E.

1,400 WW prescription drug sales (USDbn) +6.9% CAGR 2019-24 1,200 1,000 Generics Orphan Prescription excl. Generics & Orphan

Chart 12: Worldwide total prescription drug sales (2010-24, USDm)

Source: Evaluate Pharma, May 2019

Underlying factors driving this growth include the ageing population, improvements in quality of life in emerging countries, a new cycle of innovation in pharma companies, and the new possibility of a shortened pathway to Food and Drug Administration (FDA) approval for treatments of specific diseases.

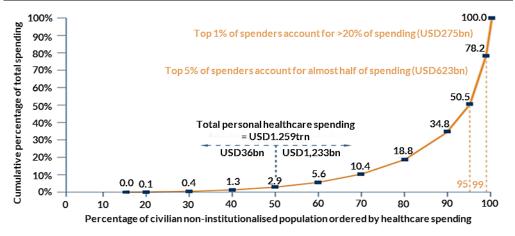
# **Ageing demographics**

Healthcare expenditure is concentrated on a relatively small number of people. According to data from the US Department of Health and Human Services, a small number of people account for a significant share of healthcare expenses. Conversely, a large portion of the population has very low levels of healthcare spending. Thus, almost half of healthcare spending was used to treat just 5% of the US population.

As the population ages, global healthcare consumption increases. Hence, high spending occurs near the end of many patients' lives. In the US, people over 64 years of age represent 13% of the population, but they account for 40% of the top 5% highest spenders on healthcare.

Chart 13: Distribution of personal healthcare spending, 2009

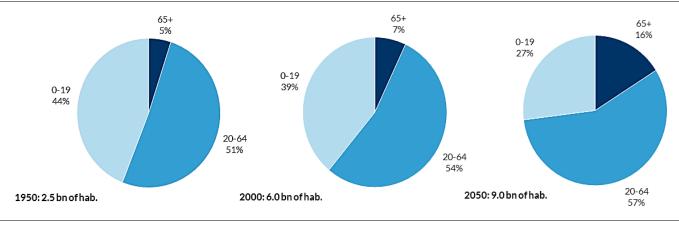
**HBM Healthcare** 



Source: NIHCM Foundation analysis of data from the 2009 Medical Expenditure Panel Survey

The population is ageing more than ever. According to the UN, the number of people aged 65 and over is set to double as a percentage of the global population, from 7% in 2000 to 16% in 2050. By then, the number of people over 85 years of age is set to have doubled from the current level of c. 2-4%.

Chart 14: The ageing of the world population 1950-2050



Source: OECD

Life expectancy across OECD countries increased by over five years between 1990 and 2012. According to OECD statistics, the share of the population aged over 65 is set to increase from 7% of the population to 16% in 2050. Hence, the growth in pharmaceutical spending is likely to continue in the coming years.

# Lifestyle and obesity

According to the World Health Organisation (WHO), low fruit and vegetable consumption and low levels of physical activity increase the risk factors in terms of years of healthy life lost.

Chart 16: Obesity increasing worldwide

The rise in sedentary lifestyles is raising obesity<sup>1</sup> rates, leading to increased risk of coronary heart disease, strokes, and certain types of cancer.

A study conducted by S. Sabharwal *et al.*<sup>2</sup> shows that obese patients have a 15% higher chance of musculoskeletal injury or fractured bones in their lifetime compared to people with healthy weights. According to the WHO, worldwide obesity rates almost doubled between 1980 and 2008. Moreover, a study from the Centers for Disease Control and Prevention (CDC) established that more than one-third of US adults (c. 36%) and c. 17% (12.5m) of children and adolescents aged 2-19 are obese. This global trend is set to continue, with significant shifts in eating habits and more sedentary lifestyles.

In 2014, more than 1.9bn adults over 18 years of age were overweight (39% of adults), and of these, over 600m were obese (13%).

Chart 15: Diabetes - the ongoing epidemic

Positive correlation betwwen diabetes prevalence and body weight 7.5 78 7 77 6.5 Prevalence (%) 76 6 75 5.5 Obesity and overweight 74 5 increased 73 4.5 27.5% in adults deaths caused 72 47.1% in children by overweight 1990 1992 1994 1996 1998 2000 since 1980 and obesity Diabetes Mean body weight

Source: Kepler Cheuvreux

Healthcare expenditure is significantly correlated with the rise in risk factors such as obesity, and the increased prevalence of chronic diseases linked to these risk factors such as hypertension, diabetes, and hypercholesterolemia.

Source: Kepler Cheuvreux, AH Mokdad et al, JAMA 1999

All regions are affected by this broad trend. Once considered a high-income-country issue, obesity today also affects lower- and middle-income countries. Due to the complications caused by obesity (diabetes, high cholesterol, high blood pressure, etc.), being obese kills more people than being simply overweight.

# Make innovation great again

Healthcare innovation can be evaluated by its impact on stakeholders as either non-disruptive or disruptive. While non-disruptive innovation refers to evolutionary or incremental improvements (improvements in something that already exists), disruptive innovations refer to innovations that fundamentally disrupt old systems or create new markets and deliver new value opportunities.

11

 $<sup>^{1}</sup>$  Obesity is characterised by a body mass index of over 30 (body mass index, or BMI, is a ratio between height and weight. BMI =  $kg/m^{2}$ 

<sup>&</sup>lt;sup>2</sup> S. Sabharwal et al., Impact of obesity on orthopaedics - Bone Joint, 2012

### Advanced medical device technology

Thanks to advanced technology, enormous progress has been made in the development of medical devices for different end-users. Some are used by healthcare professionals to treat patients (such as devices that emit low-level electrical pulses to treat ADHD or robotic surgical systems), while others are worn by patients (like insulin pumps) or operate inside their bodies (like artificial heart pumps and hip implants).

#### Immuno-oncology

Immuno-oncology (IO) refers to therapies that boost or restore the ability of the immune system to fight cancer. The four main active IO categories are immune checkpoint inhibitors (ICIs), therapeutic cancer vaccines, oncolytic viruses, and adoptive cell therapies (CAR T cell therapies). ICIs, which are by far the largest category of IO by value, aim to re-establish the anti-tumour activities of immune cells. ICIs do not work for all tumour types on their own, but combining them with other treatments to "turn cold tumours hot" (i.e. make tumours responsive to ICIs) looks promising and is leading to numerous developments.

IO's commercial history began in the early 2010s, but it really took off in 2014 with the launch of the ICIs Keytruda and Opdivo. Each recorded sales of more than USD7bn in 2018, leading to an IO market of over USD18bn. The number of developments in this field has been impressive, with more than 1,000 ongoing trials. Deal activity is twice that of any other class of cancer drugs.

#### Gene editing and gene therapies

Thanks to the rapid development of DNA sequencing, this field is likely to have the biggest impact in the coming years on the way physicians treat and categorise patients depending on their disease.

According to the WHO, more than 10,000 diseases are caused by a mutation in a single gene. Two approaches to treat such diseases show a lot of promise: gene editing and gene therapy.

- **Gene editing** is the insertion, deletion, or replacement of DNA at a specific site in the genome of an organism or cell. It is usually achieved in the lab using engineered nucleases, also known as molecular scissors. Gene editing treatment is not yet available to patients, but several biotechnology companies are developing gene editing treatments for various genetic diseases such as haemophilia, myopathy, and sickle cell disease.
- **Gene therapy** involves the insertion of a healthy gene into cells. Several gene therapies have proven successful in late-stage trials, while a few have already been approved in the US. Gene therapy is currently in vogue, leading to intense M&A activity. In February 2019, Roche acquired Spark Therapeutics for USD4.8bn (haemophilia). In March 2019, Biogen bought Nightstar Therapeutics for USD800m (choroideremia, a rare genetic form of blindness).

#### Other innovations

Autoimmune diseases and CNS drugs also represent a great investment opportunity, as the unmet medical needs for the related diseases are still important.

Autoimmune diseases encompass more than 80 chronic disabling conditions affecting between 7% and 9% of the global population, with a sharp increase over the last decades. They are caused by a dysfunction of the immune system, which produces an inappropriate response to its own cells, tissues, and/or organs, resulting in inflammation and damage.

### However, there are some headwinds

Beyond the outcomes of clinical trials and regulatory hurdles, a pharma/biotech company is sensitive to several themes, in particular the rise of healthcare costs, which has become a significant issue for both developed and developing countries. This situation leads to harsher price controls all over the world for every new drug, and fosters the promotion of generics/biosimilars. However, as pharma companies need to renew their pipeline, biotech companies represent key M&A targets.

#### Rise of healthcare costs...

The rapid growth of healthcare expenditure has become a great concern for both households and governments, leading to increased price pressure on pharmaceutical drugs.

According to Express Scripts, prescription costs have dramatically increased for US patients in recent years. The Affordable Care Act, which provides uninsured patients access to affordable drugs, is part of the reason for this rise.

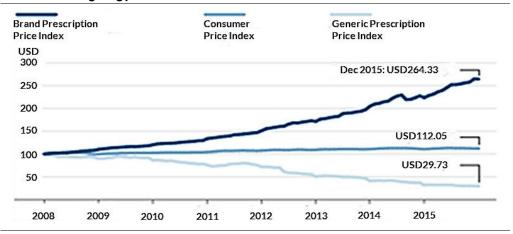


Chart 17: Soaring drug prices

Source: Express Scripts

Other reasons include the introduction of new drugs into the market which are sold at a higher price in some therapies (cancers, rare or chronic diseases). For instance, in less than 15 years, the average monthly price of cancer drugs has almost tripled to USD13,000, while insulin prices have spiked by 8x in 20 years.

#### ...leads to increased use of generics...

The introduction of generic medicines has helped sustain the US healthcare system by improving patient access and generating savings for taxpayers, employers, and insurance providers. Thus, the use of generics is growing when available. While their weight as a percentage of all prescription drugs is growing, they represent only a small percentage of total drug expenditure. For instance, in 2017, US generics accounted for only 13% of overall drug spending, but 86% of prescriptions dispensed by volume.

Chart 18: Volume share of generics (in %)

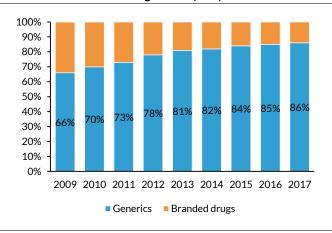
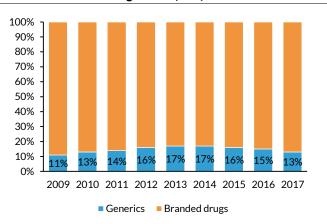


Chart 19: Value share of generics (in %)

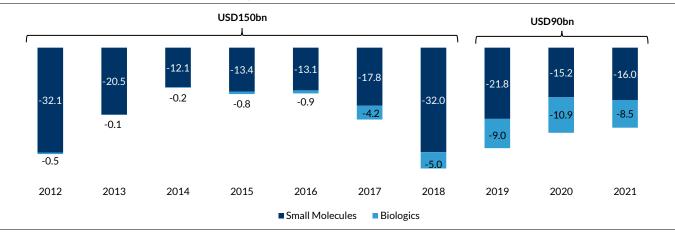


Source: IQVIA, National sales perspectives, National prescription Audit, 2018

Source: IQVIA, National sales perspectives, National prescription Audit, 2018

Patent cliffs and budgetary constraints are the main factors behind slower sales growth in the pharmaceutical sector. In ten years, the patent cliff is set to wipe c. USD240bn off pharma's revenues. The next wave will be the rise of biosimilars<sup>3</sup>.

Chart 20: Revenue loss due to loss of exclusivity (USDbn)



Source: Quintiles IMS Market Prognosis, National Sales Perspectives, March 2017, Kepler Cheuvreux

The expiration of the patents of various blockbuster biologics in the 2000s heralded the era of biosimilars, new drugs that mimic original biologic medicines. Because it is easier to copy than create, developing a biosimilar is cheaper, quicker, and less risky than developing a new biologic drug, although it is more complex than developing generics, due to their manufacturing process, which uses biological sources.

<sup>&</sup>lt;sup>3</sup> Biosimilars are biologic medicines that are highly similar in terms of structure, efficacy, safety, and immunogenicity profile (i.e. their ability to cause an immune response) but not identical to already approved drugs called "reference medicines"

As biosimilars are marketed at between 65% and 70% of the cost of branded biologics, we believe that they will increasingly play a crucial role in delivering more affordable treatments to patients while simultaneously providing much-needed savings to healthcare systems worldwide.

The global biosimilars market, estimated to be worth USD6.0bn in 2017, is projected to post a CAGR of c. 45.0% over the next five years, reaching USD36.0bn in 2022E. This trend is supported by the increasing number of blockbuster biologics coming off patent. From 2017, around USD75bn worth of biologic sales will lose exclusivity, including USD52.0bn between 2019E and 2022E.

All these patent expirations leading to a growing market for generics and biosimilars will put mounting pressure on pharma/biotech companies to innovate as cheaper versions of already approved molecules are launched.

### ...and tight price controls

The main consequence of these regular price increases is growing pressure on pharma/biotech companies to grant rebates to the Health Maintenance Organisation or Pharmacy Benefit Managers (PBM<sup>4</sup>).

The high price of drugs is one of the biggest hurdles to wide-ranging access to healthcare. This is as true in emerging countries as it is in developed ones, where payers consider high prices a real barrier to accessing new medicines, given budgetary constraints. Hence, many drugs are not available to all the patients who need them. In particular, the economic justification for orphan drug prices is difficult to validate (cost-effectiveness) unless we look at the small size of the population targeted.

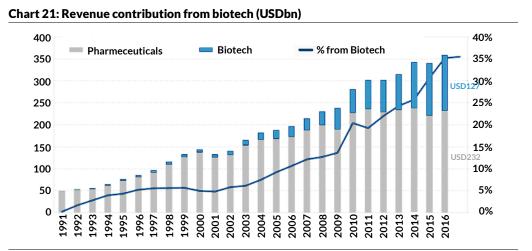
However, governments and payers are still willing to pay for innovation. Hence, the latest prices for innovative treatments like Opdivo (nivolumab, BMS) or Keytruda (pembrolizumab, Merck), which can cure specific cancers, were up to USD150.000 for a course of therapy.

#### Biotechs are at the forefront

While HBM Healthcare is a leading investment company in healthcare, the company invests mainly in biotechs with high visibility.

US revenues from publicly traded drug companies have been growing year after year. They now represent more than 35% of the healthcare industry's revenues.

<sup>&</sup>lt;sup>4</sup> PBM negotiates prices on behalf of private corporations (health insurers, Medicare, private unions) and ask for rebates and discounts which vary depending on the added value of a drug



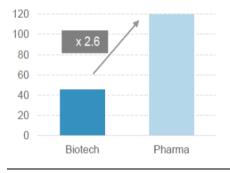
Source: S&P Capital IQ, HBM Research, 2017

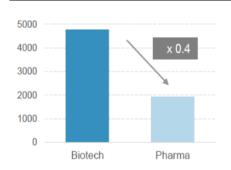
Innovation is crucial to pharma companies (particularly for biotechs) and will almost certainly continue to drive the sector. Despite constraints, there has been a clear acceleration in the number of drugs in development in recent years. However, biotech companies seem more agile than big players. Indeed, while they spend 2.6 times less money on average in R&D, they carry out most clinical trials, and they manage to get twice as many approvals as large pharma players.

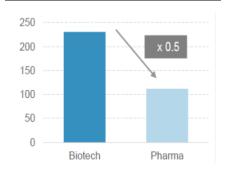
Chart 22: R&D spending (USDbn, 2017)

Chart 23: Pipeline (clinical trials)

Chart 24: Approvals by origin (count)







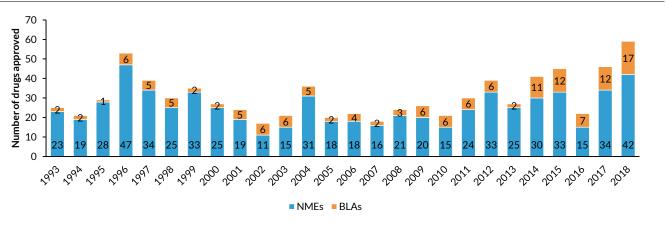
Source: Evaluate Pharma World Preview, 2018

 $Source: Biotechnology\ Innovation\ Organisation\ Report, 2018$ 

Source: HBM Biopharma Drug Approval Report, 2018

Recent years have seen the emergence of new tools that will facilitate the approval of upcoming innovative treatments (development incentives like breakthrough therapy designation, priority review vouchers, or the  $21^{st}$  Century Cures Act).

#### Chart 25: Novel FDA approvals since 1993



Source: FDA, CDER

One of the missions of the head of the FDA is to slash regulations and speed up drug approval at the agency. The Trump administration is set to increase the competitive environment for generic drugs while facilitating the approval of innovative drugs.

**TP CHF 220.00** 



# **Enough room for further appreciation**

HBM actively invests in private and listed biotech and pharmaceutical companies. HBM prioritises revenue-generating companies, companies with products at an advanced stage of development (phase II or phase III), and cash flow-neutral companies that require funding to expand leading to lower clinical risk. Moreover, HBM focuses on promising therapeutic areas where medical needs are unmet or unsatisfied (oncology, CNS, or autoimmune diseases). Thanks to its significant expertise and intelligent stock-picking, HBM has had a successful investment strategy with a regular return over 10% per year. Moreover, its well-balanced portfolio allows the fund to be less sensitive to single-company issues in its portfolio.

Moreover, HBM set up an attractive policy of returning cash to its shareholders through dividends (in the range of 5% per year) and share buybacks. Thus, in a five-year period HBM posted the best performance compared to its peers. Despite these outcomes, HBM's share discount to NAV is higher than some peers who performed worse over the same period. However, things appear to be changing, as investors seem to have more confidence in HBM's successful stockpicking strategy.

Lastly, part of the future performance will come from investments in private companies for which the value recorded in the fund (NAV) is the acquisition price. Hence, the exit-driven strategy (trade sales and IPOs) should help to materialise the hidden value of these investments.

# A successful investment strategy backed by expertise

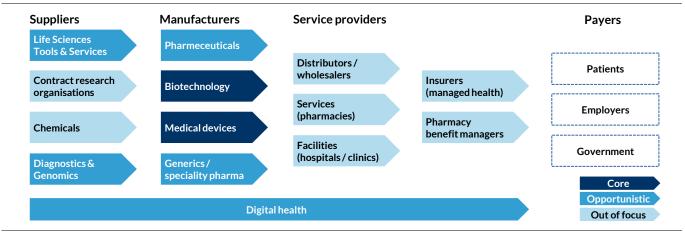
HBM Healthcare is a long-term shareholder in emerging healthcare companies and actively contributes to performance. Healthcare investing requires a multifaceted approach to understand the underlying drivers. HBM Healthcare Investments has many years of investment expertise with private and public companies. Its portfolio focus on biotechs and medical devices is diversified and well balanced (drug candidates at different stages of development).

#### Focus on healthcare

HBM Healthcare Investments invests primarily in more mature private companies with an attractive valuation and a convincing business model including its product pipeline, technology, and management.

The primary focus is on biotechs and medical devices, while the company can invest opportunistically in pharmaceuticals, speciality pharma, and diagnostic companies.

#### Chart 26: HBM's investment focus



Source: HBM Healthcare

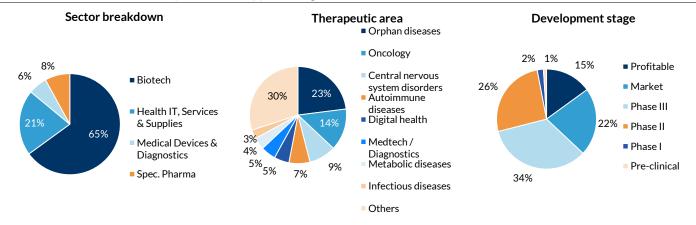
Once an investment opportunity is identified, the company conducts its due diligence and makes an evaluation of the investment potential.

### A well-balanced and diversified portfolio...

HBM Healthcare has a well-balanced and diversified portfolio of private and public companies. The US represents the lion's share of the portfolio, while Europe and Asia represent only 20%. Emerging countries and in particular Asia encompass several promising late-stage biotech companies.

HBM's portfolio has a clear focus on biotech companies, although it is well balanced in terms of therapeutics areas and development stages of drug candidates.

Chart 27: Portfolio breakdown by sector, therapy, and stage



Source: HBM Healthcare's portfolio as of 31/03/2019

#### **Sector**

As of the end of March 2019, biotech investments represented the main part of HBM Healthcare's portfolio (65%), while the company also invested in medical devices companies, health services companies, and health IT (digital health, which uses technology to help improve individuals' health and wellness).

#### Therapeutic area

HBM Healthcare invests in fast-growing healthcare areas where medical needs are important. Hence, more than one-third of HBM's portfolio is made up of companies involved in orphan diseases or oncology.

While half of the drugs approved in 2015 were developed for orphan diseases, more and more biotech companies are engaging in R&D related to such diseases. Indeed, this involvement in the rare disease business allows biotech companies to develop drugs more quickly (orphan drug designation) and charge higher prices for many rare disease drugs.

The rationale for oncology is different. Oncology is one therapeutic class where science has made huge progress in recent years, thanks to innovative IO treatment. Thus, numerous companies have developed targeted therapies for multiple solid and liquid tumours. However, despite all these medical advances, there are still huge unmet medical needs. Much of the growth in pharma is set to come from new cancer medicines, in particular immunotherapies expected to generate sales over USD130bn by 2022E.

#### **Development stage**

The value of a healthcare/biotech portfolio increases with the advancement of its underlying pipeline. Whereas the development of a new drug is a high-risk, high-reward business, the likelihood of approval (LOA) is defined for each stage of development. According to Bio and Biomedtracker, these probabilities of success are based on a statistical analysis of records from the last ten years for each new drug (from January 2006 to December 2015).

Table 1: Phase transition success rate and LOA, all modalities

	POS*(%)	LOA ** (%)
Ph. I> Ph. II	63.2%	9.6%
Ph. II> Ph. III	30.7%	15.2%
Ph. III> Regulatory	58.1%	49.6%
NDA/BLA> Market approval	85.3%	85.3%

\*Probability of success; \*\*LOA

Source: BIO Industry Analysis, Kepler Cheuvreux

Thus, on average, LOA increases from 9.6% for a new drug in phase I to 49.6% for a drug in phase III. The valuation of the drug increases as the LOA increases.

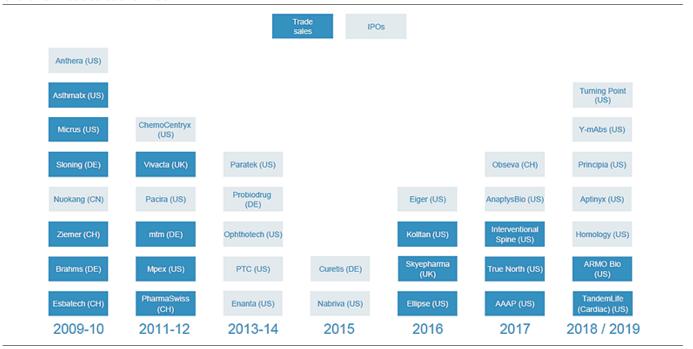
In HBM's portfolio, about half of all assets are exposed to companies with lead phase II and phase III drugs.

#### ...with a successful exit strategy

While HBM Healthcare is known as a long-term investor, an exit strategy mindset is always present. Hence, HBM Healthcare wants to be able to influence its portfolio companies, particularly with regard to an exit. However, HBM can increase its level of investment in subsequent financing rounds if the potential for value creation remains intact.

Thus, HBM has been a strong contributor to value creation for its portfolio companies, and the fund has a proven track record of exits, validated by over 50 trade sales or public offerings since 2001.

#### Chart 28: Trade sales and IPOs



Source: HBM Healthcare

### And attractive dividend policy

Since 2013, HBM's strategy has evolved, and the company has decided to set up an attractive dividend policy. Thus, on average the dividend yield is in the range of 3-5% per year.

**Table 2: Distribution** 

	2014	2015	2016	2017	2018	2019
Net dividend per share (CHF)	3.00	5.50	5.50	5.80	7.00	7.50
Shares outstanding	8.5	7.8	7.4	7.1	7.0	7.0
Distribution (CHFm)	25.5	42.9	40.7	41.2	49.0	52.5
Distribution yield (%)	4.0%	5.1%	5.1%	5.2%	4.9%	-

Source: HBM Healthcare, Kepler Cheuvreux

This policy allows HBM to gain shareholder loyalty and thus avoid a potential important sell-off in difficult periods.

### Share buyback programme

Besides dividends, HBM Healthcare regularly uses share buybacks as a way to return money to shareholders. Thus, on 24 June 2016, a share buyback programme of up to 730,000 shares was approved at the AGM. This programme ended in 23 June 2019.

In late June 2019, HBM Healthcare launched a new share buyback programme. This new programme was approved earlier in the month during the company's AGM and will lead to the potential cancellation of up to 696,000 shares (10% of the shares issued). This programme will last until 27 June 2022 at the latest.



## The best performance among its peer group

**HBM Healthcare** 

Despite its lower investment exposure to the US market (more dynamic, higher valuation) thanks to its wise choices, HBM Healthcare's medium- and long-term performance (one, three, and five years) is the best in its peer group. While some peers posted a better performance on a one-month basis, HBM has outperformed them over the long term.

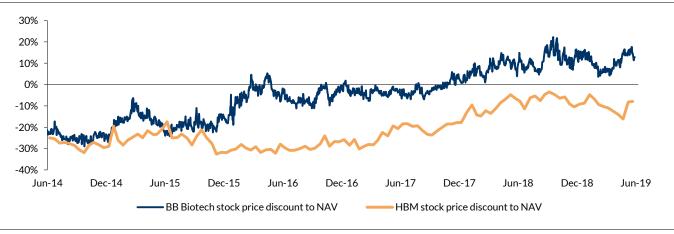
Table 3: Performance of peer group - as of 07 July 2019

	Country	Perf. 1M	Perf. 1Y	Perf. 3Y	Perf. 5Y	Price (LC)	NAV/share Pi	rice to NAV
BB Biotech	CH	2.5%	-0.8%	41.4%	122.6%	67.9	59.8	14%
Biotech growth trust	UK	9.8%	-10.7%	11.7%	31.1%	9.6	10.8	-10%
BlackRock Health Sciences	US	2.8%	-5.8%	8.0%	20.0%	38.6	38.2	1%
HBM Healthcare	CH	1.5%	18.4%	96.2%	128.8%	184.2	200.3	-8%
International Biotechnology Trust	UK	4.0%	-6.3%	27.7%	85.0%	8.1	8.2	0%
Polar Capital Global Healthcare	UK	3.5%	2.3%	10.1%	22.0%	2.8	3.0	-8%
Tekla Healthcare Investors	US	2.6%	-13.3%	-19.6%	-17.6%	19.7	22.1	-11%
Tekla Healthcare Opportunities	US	3.2%	0.1%	7.2%	na	17.7	19.5	-9%
Worldwide Healthcare Trust	UK	4.4%	-6.1%	30.2%	73.5%	34.3	34.3	0%
HBM Healthcare ranking versus peers		9	1	1	1		•	5

Source: Kepler Cheuvreux

Despite the fact that it regularly and solidly outperforms its peers, HBM's share price discount to NAV is still in the middle of our selected peers. This discount to NAV has decreased in the past ten months, resulting in growing investor confidence in HBM's management and investments. However, we think there is room for further improvement. Indeed, BB Biotech, a Swiss peer, trades at a double-digit premium to NAV, while its medium- and long-term performances are below that of HBM.

Chart 29: HBM Healthcare and BB Biotech stock price discount to NAV



Source: Eikon

With an 8% discount to NAV currently, HBM's shares are trading at the same level as Polar Capital Global Healthcare, despite the fact that its shares have risen 5-8x more than the latter's (depending on the period: one, three, or five years).

## Investments in private companies could hide value

HBM Healthcare invests in a mix of private and public companies involved in healthcare at different stages of development. In private companies, HBM acts as a lead or co-lead investor with board representation. The recent performance of the fund has been boosted by several successful exits (IPOs and M&A activity) from the private portfolio. The current average return on investment of exits coming from the private portfolio since 2017 is 106%. This indicates the relevance of HBM's strategy (a greater focus on private companies).

Table 4: An important return on investment

Year	Exit	Company	Activity	investment	Value at exit (EURm) va	Current lue (EURm) i	Return on nvestment	Remark
				(EURm)				
2019	IPO	Turning Point (US)	Oncology	14.5	31.9	46.7	222%	Still in portfolio
2018	Trade sale	TandemLife (US)	Cardiology	4.4	33.9	-	670%	Sold
2018	Trade sale	ARMO Bio (US)	Oncology	22.2	42.3	59.3	167%	Sold
2018	IPO	Homology (US)	Rare genetic diseases	10	16.8	17.4	74%	Still in portfolio
2018	IPO	Aptinyx (US)	Neurologic disorders	8.5	18.55	2.6	-69%	Still in portfolio
2018	IPO	Principia (US)	Immuno-oncology	19.2	41.1	29.9	56%	Still in portfolio
2018	IPO	Y-mAbs (US)	Immunotherapy	32.6	73.8	62.0	90%	Still in portfolio
2017	Trade sale	AAAP (US)	Oncology, neurology	85.3	164.9	-	93%	Sold
2017	Trade sale	True North (US)	Haematology	10	10.3	-	3%	Sold
2017	Trade sale	Interventional Spine (US)	Implantable devices	18	26.9	-	49%	Sold
2017	IPO	AnaptysBio (US)	Inflammatory diseases	7	21.0	14.3	104%	Still in portfolio
2017	IPO	ObsEva (CH)	Woman's reproductive	9.9	31.2	29.1	194%	Still in portfolio
			health and pregnancy					

Source: Kepler Cheuvreux, HBM Healthcare

On the flipside, it is always difficult to correctly assess companies from the private portfolio, due to the lack of information. The fair value of these investments is either equal to their acquisition price or the value determined during the last financing round. Hence, their real valuation potential is more difficult to estimate.

#### Increasing the weight of the private portfolio

HBM Healthcare's private portfolio has grown in recent years with the addition of new and follow-on investments.

Chart 30: Asset allocation over time

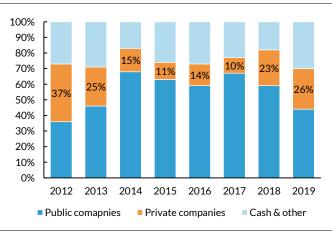


Chart 31: Largest private investment over the last five years



Source: Kepler Cheuvreux

Source: HBM

Currently, private companies represent 26% of HBM's asset allocation, and this is set to increase over the coming months.

#### An important bet in the private portfolio: Cathay Industrials Biotech

HBM Healthcare is a long-term shareholder. When an investment opportunity is identified, the company conducts its due diligence and evaluates the investment potential. The company regularly reassesses its investment and can be a long-term investor that supports value creation over several years if it considers the investment undervalued. However, in specific cases (disappointing clinical results, changes of control, etc.) the holding period may be shorter.

An interesting example of this long-term strategy is the investment in Cathay Industrial Biotech. HBM Healthcare invested in this innovative company more than ten years ago, and it currently owns 7.9% of Cathay. This investment represents the group's largest investment (12.1% of the entire investment portfolio and 30% of the private portfolio). Despite some setbacks at Cathay's inception, HBM Healthcare has strongly supported its management. Currently, HBM Healthcare is one of the main shareholders in the company. Cathay is likely to go public, which could lead to an interesting and significant exit for HBM Healthcare.

Table 5: A long-term investor

	03/2013	03/2014	03/2015	03/2016	03/2017	03/2018	03/2019
Valuation of Cathay's investment (USDm)	28	28	14	44	44	92	126
Ownership	12.6%	12.6%	12.6%	9.5%	9.3%	8.5%	7.9%
% of HBM's portfolio	4.4%	2.7%	1.3%	4.1%	4.0%	7.5%	12.1%

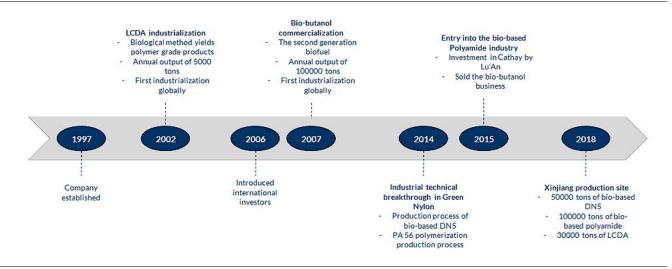
Source: Kepler Cheuvreux, HBM Healthcare

Cathay was founded in 1997. It was HBM Healthcare's first investment in China (Shanghai).

Cathay's goal is to replace conventional production processes with biotechnological methods. It uses biotechnological processes to produce chemicals, fuels, and polymers.

Cathay is an industrial biotechnology firm that produces long chain dibasic acids (LCDAs). LCDAs are mainly used as chemical replacements for nylons, polyesters, adhesives, and bio-solvents. Cathay offers environmental solutions, as the raw material for polyamide comes from renewable starchy plants. It is considered to be the most advanced bio-manufacturing material since the invention of petrol-based PA66 and PA6.

#### Chart 32: Cathay's history



Source: Kepler Cheuvreux

Cathay's bio-based polyamide has had a lot of success in the textile and plastic industries as an environmental alternative, but also as a unique and new polymer. For customers, Cathay's products are of interest to various industries, including chemicals, automobiles, and textiles. DuPont, Evonik, Arkema, Novo Nordisk, and Akzo Nobel are all customers, for instance.

Cathay currently has two production sites and one R&D centre in China (Shanghai): Zhanjiang Hi-Tech Park. The latter is mainly focused on research in molecular biology, fermentation process engineering, polymer materials, etc.

Cathay aims to become the first company to produce the bio-based diamine 5 on a commercial scale. The company is now profitable and had more than USD150m in turnover in 2018. In the medium term, Cathay is targeting an IPO to finance long-term growth. The IPO would help improve HBM's valuation and would be an important trigger to establish the "real" value of this promising company.

**TP CHF 220.00** 

# We update our model and lift our TP

We update our model for HBM Healthcare, taking into account the advancement of its portfolio. We lift our TP to CHF220, implying 19% upside, based on the assumption that NAV will reach the value implied by analysts and consensus target prices for HBM's public company holdings, while we do not include valuation upside from the private equity part of the portfolio or the funds. Lastly, we apply a conservative 10% discount to NAV to obtain our TP (vs. 5% currently and a three-year average of 16%).

## NAV-based pricing model

A peer comparison is not appropriate, as the investment theme for each fund is different, as are their returns. However, in the medium to long term, HBM Healthcare's discount to NAV could shrink again and even switch to a premium.

### **Target price lifted to CHF220**

Our HBM valuation is based on the NAV of the company portfolio, with a discount applied by the market.

HBM publishes the net asset value per share of its fund twice a month. This NAV is calculated from the share price of publicly traded portfolio companies, while the fair values of the funds and investments in private companies are included at their acquisition costs or at the value determined during the last financing round.

Kepler Cheuvreux's healthcare/biotech team does not cover any companies in HBM Healthcare Investments' public portfolio (except Argenx). Hence, our NAV is based on the following assumptions:

- For public companies, we apply consensus target prices from Bloomberg when more than four analysts cover the stock. Otherwise, we apply valuations based on the most recent update.
- For private companies and funds, we apply the last disclosed fair value reported (as of 31 March 2019) despite the solid track record on exits.
- A discount to NAV of 10%, which is lower than the current discount to NAV but higher than the average seen over the last three years. This discount to NAV aims to reflect the positive advancement of HBM's portfolio.

Accordingly, we derive a target NAV per share of CHF247 and a TP of CHF220 including a discount to NAV of 10%, leading to 19% upside to the last listed price. At the current price of HBM shares and taking into account the market value of the public portfolio, HBM's share discount to NAV is around 7%.

Table 6: Valuation - Part I - Public portfolio

Name	Currency HE	M holding		Market cap (LC	Current	TP	TP	Analysts	Valuation at
		(%)	price (LC)	in m)	value (CHFm)	(consensus)	range		TP (CHFm)
Y-mAbs Therapeutics	USD	8.4%	22.95	785	64.6	35.0	30-40	5	98.5
Vectura	GBP	6.3%		554	42.8	117.3	94-160	11	59.8
Pacira Pharmaceuticals	USD	2.3%		1,687	38.2	52.9	15-85	16.0	49.4
Galapagos	USD	0.5%		8,358	49.1	132.4	91-180	15.0	42.8
Ultragenyx Pharm.	USD	0.8%			26.0	75.5	51-89	19	33.4
Principia Biopharma	USD	3.5%		-,	32.5	47.0	40-55	6	38.6
Zogenix	USD	1.2%			61.0	61.9	50-73	12	79.9
Immunomedics	USD	0.7%		2,724	18.4	25.0	14-40	10	32.3
Alnylam	USD	0.3%		7,755	19.0	116.6	62-150	20	30.5
Argenx	USD	0.5%		5,408	29.2	158.1	143-182	16	32.2
Argenx (ADS)	USD	0.5%		5,408	26.3	158.1	143-182	16	28.9
Esperion Therapeutics	USD	2.1%		1,228	25.6	94.5	56-153	13	53.1
RA Pharmaceuticals	USD	2.0%			27.7	41.0	32-48	10	34.2
Acadia Pharmaceuticals	USD	0.5%		3,852	18.4	33.5	21-60	12	23.1
AnaptysBio	USD	0.9%		,	13.5	116.3	79-146	11	28.2
ObsEva	USD	3.1%		442	13.9	30.6	23-44	8	41.7
Arena Pharmaceuticals	USD	0.7%		3,077	22.3	69.0	60-79	10	24.8
Amicus Therapeutics	USD	0.7%		,	13.1	19.0	15-31	12	19.8
Retrophin	USD	1.4%		,	12.3	43.4	35-57	8	25.1
Divis Laboratories	INR	0.2%			11.0		1445-1925	17	11.8
Coherus Biosciences	USD	1.2%	,	1,308	15.2	29.0	25-35	7	23.3
Nicox	USD	5.6%			9.3	10.5	10-11	3	19.4
Idorsia	USD	0.5%		3,098	15.6	18.9	16-24	6	12.5
Uniqure	USD	0.5%		2,633	12.1	86.2	63-175	13	15.0
Albireo Pharma	USD	2.7%			9.1	59.8	41-87	8	18.8
Arrowhead Pharm.	USD	0.6%			15.0	28.1	24-33	5	15.2
Spring Bank Pharm.	USD	4.0%		,	3.1	23.4	10-29	6	15.2
Beigene	HKD	0.1%			6.5	100.6	62-125	10	8.9
Beigene (ADR)	USD	0.1%		7,375	6.0	178.3	146-214	15	8.8
Jubilant Life Science	INR	0.1%		74,169	4.1	732.4	620-915	13	6.4
Assembly Biosciences	USD	1.1%		,	3.9	47.6	30-74	6	13.6
Dermira	USD	0.8%	8.61	462	3.4	22.5	14-29	10	8.9
Xenon Pharmaceuticals	USD	2.0%		271	5.4	20.0	16-23	3	10.3
Myokardia	USD	0.2%			4.9	80.0	70-90	10	7.9
Cellectis (ADR)	USD	0.6%		,	4.2	44.0	21-73	11	11.7
Nabriva Therapeutics	USD	2.6%			4.4	7.8	5-13	7	14.0
Viking Therapeutics	USD	0.6%			3.2	24.6	12-41	11	9.7
Paratek Pharmaceuticals	USD	2.2%			2.6	21.3	7-44	8	14.8
Rubius Therapeutics	USD	0.3%		1,181	3.0	33.8	25-40	6	6.9
Alimera Sciences	USD	4.9%		,	3.0	2.8	23-40	6	9.5
Solara Active	INR	2.5%		11,056	3.8	650.0	650-650	0	5.7
Hansa Medical	SEK	0.4%		,	2.9	352.5	320-400	6	5.6
Laurus Labs	INR	0.4%		,	3.0	456.0	410-515	6	3.6 4.0
Vicore Pharma	SEK	4.6%		- , -	3.7	41.5	410-515	2	8.5
Aptinyx	USD	2.2%			2.8	11.5	7-15	5	8.3
Other	USD	2.2%	3.61	120	2.8 18.8	11.5	/-13	5	6.3 18.8
					733.5				1,089.7
Total public companies					/ აა.၁				1,009./

Source: Kepler Cheuvreux

The group's portfolio of public company investments is well balanced (more than 30 positions), leading to a valuation that is less sensitive to any particular event in its portfolio. However, HBM has strong convictions on certain investments. Its five largest investments represent 20% of the portfolio. Accordingly, the five main upsides in this public portfolio represent one-third of the total upside (based on consensus estimates).

Table 7: Valuation - Part II - Private portfolio and Funds

Total public companies Cathay Industrial Biotech Neurelis Harmony Biosciences Amicus 1mg SAI Life Sciences Jianke Pharmaceutical Westmed Holding	USD USD USD EUR INR INR USD USD USD USD USD	7.9% 15.0% 7.6% 29.0% 10.5% 5.3% 3.3% 25.2% 3.6% 3.3%	733.5 125.1 37.5 32.5 22.3 20.9 19.3 14.8 12.4 11.9	1,089.7 125.1 37.5 32.5 22.3 20.9 19.3 14.8 12.4
Neurelis Harmony Biosciences Amicus 1mg SAI Life Sciences Jianke Pharmaceutical Westmed Holding	USD USD EUR INR INR USD USD USD USD	15.0% 7.6% 29.0% 10.5% 5.3% 3.3% 25.2% 3.6%	37.5 32.5 22.3 20.9 19.3 14.8 12.4	37.5 32.5 22.3 20.9 19.3 14.8 12.4
Harmony Biosciences Amicus 1mg SAI Life Sciences Jianke Pharmaceutical Westmed Holding	USD EUR INR INR USD USD USD USD	7.6% 29.0% 10.5% 5.3% 3.3% 25.2% 3.6%	32.5 22.3 20.9 19.3 14.8 12.4	32.5 22.3 20.9 19.3 14.8 12.4
Amicus 1mg SAI Life Sciences Jianke Pharmaceutical Westmed Holding	EUR INR INR USD USD USD USD	29.0% 10.5% 5.3% 3.3% 25.2% 3.6%	22.3 20.9 19.3 14.8 12.4	22.3 20.9 19.3 14.8 12.4
1mg SAI Life Sciences Jianke Pharmaceutical Westmed Holding	INR INR USD USD USD USD	10.5% 5.3% 3.3% 25.2% 3.6%	20.9 19.3 14.8 12.4	20.9 19.3 14.8 12.4
SAI Life Sciences Jianke Pharmaceutical Westmed Holding	INR USD USD USD USD	5.3% 3.3% 25.2% 3.6%	19.3 14.8 12.4	19.3 14.8 12.4
SAI Life Sciences Jianke Pharmaceutical Westmed Holding	USD USD USD USD	3.3% 25.2% 3.6%	14.8 12.4	14.8 12.4
Jianke Pharmaceutical Westmed Holding	USD USD USD USD	3.3% 25.2% 3.6%	14.8 12.4	14.8 12.4
Westmed Holding	USD USD USD	25.2% 3.6%	12.4	
S S	USD USD	3.6%		
SpringWorks Therapeutics	USD			11.9
Turning Point Therapeutics			10.0	10.0
Vascular Dynamics		13.1%	9.7	9.7
FarmaLatam	USD	70.2%	8.8	8.8
Valcare	USD	8.4%	7.0	7.0
ConnectRN	USD			
		20.2%	6.6	6.6
Shape Memory Medical	USD	17.4%	6.0	6.0
Sphingotec	EUR	7.1%	5.0	5.0
Cardialen	USD	17.8%	5.0	5.0
Galera Therapeutics	USD	2.0%	5.0	5.0
Forbius (Formation Biologics)	CAD	9.6%	4.8	4.8
Vitaeris	USD	18.7%	4.0	4.0
Other			17.7	17.7
Total private companies			409.6	409.6
HBM BioCapital II	EUR		23.0	23.0
MedFocus Fund II	USD		18.7	18.7
WuXi Healthcare Ventures II	USD		28.4	28.4
6 Dimensions Capital	USD		14.0	14.0
BioMedInvest II	CHF		7.0	7.0
Hatteras Venture Partners III	USD		5.9	5.9
Tata Capital HBM Fund I	USD		8.2	8.2
Galen Partners V	USD		4.9	4.9
Nordic Biotech	DKK		1.6	1.6
BioMedInvest I	CHF		5.1	5.1
HBM Genomics	USD		11.5	11.5
BioVeda China	USD		1.3	1.3
C-Bridge Capital IV	USD		1.2	1.2
Other	03D		1.9	1.9
Total funds			132.6	132.6
Total investments				
			1,230.4	1,631.8
Cash and other assets less liabilities (net)			87.9	87.9
Net Asset Value			1,318.3	1,719.7
Number of shares (m)			7.0	7.0
NAV per share (CHF)			196.0	247.2
Discount				10%
Fair value (CHF)				222.5

Source: Kepler Cheuvreux

Note that the "cash less liabilities" item includes among other things the cash available in the fund for new investment (CHF263m as of the end of March 2019), as well as CHF100m in bond liabilities (two straight bond tranches, each with a par value of CHF50m and maturing on 10 July 2021 and 10 July 2023).

**Table 8: Sensitivity analysis** 

	•			
Discount to NAV	0%	5%	10%	15%
Fair value (CHF)	247.2	234.8	222.5	210.1

Source: Kepler Cheuvreux

### **Upside to our valuation**

Our valuation only includes the potential of public companies based on their target prices. This valuation does not include valuation upside from private companies or funds. Indeed, these investments are valued at their acquisition costs or the price of the last financing round. Hence, their valuation does not change before either an exit or a new financing round. In particular, the most upside should come from Cathay Industrial Biotech.

Thus, these investments represent the hidden value of HBM's portfolio. Before investing in a private company, HBM assesses the potential exit strategy. The main exit for private companies is an IPO or acquisition.

# **Valuation**

FY to 31/03 (CHF)	03/14	03/15	03/16	03/17	03/18	03/19	03/20E	03/21E
Per share data (CHF)								
EPS adjusted	40.98	32.58	3.06	19.01	16.40	30.05	27.99	30.02
% Change	445.2%	-20.5%	-90.6%	521.5%	-13.7%	83.3%	-6.9%	7.3%
EPS adjusted and fully diluted	40.98	32.58	3.06	19.01	16.40	30.05	27.99	30.02
% Change	445.2%	-20.5%	-90.6%	521.5%	-13.7%	83.3%	-6.9%	7.3%
EPS reported	40.98	32.58	3.06	19.01	16.40	30.05	27.99	30.02
% Change	445.2%	-20.5%	-90.6%	521.5%	-13.7%	83.3%	-6.9%	7.3%
EPS Consensus								
Cash flow per share	39.40	30.61	-5.82	16.86	10.45	24.71	20.39	23.43
Book value per share	106.68	135.46	135.09	153.51	165.71	187.23	229.48	275.85
DPS	3.00	5.50	5.50	5.80	7.00	7.50	7.66	8.04
Number of shares, YE (m)	8.6	7.9	7.6	7.1	6.9	7.0	7.0	7.0
Number of shares, fully diluted, YE (m)	8.6	7.9	7.6	7.1	6.9	7.0	7.0	7.0
Share price								
Latest price / year end	75.5	108.0	99.5	111.4	144.0	168.8	184.8	184.8
52 week high	80.0	112.5	111.5	113.1	144.0	184.0	186.4	
52 week low	49.3	70.3	92.0	92.0	111.3	145.0	162.8	
Average price (Year)	64.2	89.1	99.8	100.2	123.6	163.9	184.8	184.8
Enterprise value (CHFm)								
Market capitalisation	554.1	706.4	753.3	709.4	857.9	1,140.4	1,285.7	1,285.7
Net financial debt	-46.9	-76.9	-15.9	36.6	40.6	-43.1	-92.4	-155.2
Pension provisions	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IFRS 16 debt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Market value of minorities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Market value of equity affiliates (net of tax)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Others	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Enterprise value	507.2	629.5	737.4	746.0	898.6	1,097.2	1,193.2	1,130.4
Valuation								
P/E adjusted	1.6	2.7	32.6	5.3	7.5	5.5	6.6	6.2
P/E adjusted and fully diluted	1.6	2.7	32.6	5.3	7.5	5.5	6.6	6.2
P/E consensus								
P/BV	0.6	0.7	0.7	0.7	0.7	0.9	0.8	0.7
P/CF	1.6	2.9	na	5.9	11.8	6.6	9.1	7.9
Dividend yield (%)	4.7%	6.2%	5.5%	5.8%	5.7%	4.6%	4.1%	4.4%
Dividend yield preference shares (%)	4.7%	6.2%	5.5%	5.8%	5.7%	4.6%	4.1%	4.4%
FCF yield (%)	61.3%	34.4%	-5.8%	16.8%	8.5%	15.1%	11.0%	12.7%
ROE (%)	46.5%	25.9%	2.2%	12.8%	10.2%	17.0%	13.4%	11.9%
ROIC (%)	na	na	na	na	na	na	na	na
EV/Sales	na	na	na	na	na	na	na	na
EV/EBITDA	na	na	na	na	na	na	na	na
EV/EBIT	na	na	na	na	na	na	na	na
EV/NOPAT	na	na	na	na	na	na	na	na
EV/IC	na	na	na	na	na	na	na	na
ROIC/WACC	na	na	na	na	na	na	na	na
EV/IC over ROIC/WACC	na	na	na	na	na	na	na	na

na na na

# **Income statement**

FY to 31/03 (CHF)	03/14	03/15	03/16	03/17	03/18	03/19	03/20E	03/21E
Sales	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gross profit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EBITDA reported	0.0	0.0	0.0	0.0	0.0	-4.0	-4.1	-4.2
EBITDA adjusted	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Depreciation and amortisation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Goodwill impairment	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other financial result and associates	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EBIT reported	0.0	0.0	0.0	0.0	0.0	-4.0	-4.1	-4.2
EBIT adjusted	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net financial items	0.0	-0.3	-2.1	-2.6	-2.4	-2.4	-2.4	-2.4
Associates	353.5	258.6	25.2	137.1	116.2	215.5	201.3	215.5
Others	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Earnings before tax	353.5	258.4	23.1	134.6	113.8	209.1	194.7	208.8
Tax	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net profit from continuing operations	353.5	258.4	23.1	134.6	113.8	209.1	194.7	208.8
Net profit from discontinuing activities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net profit before minorities	353.5	258.4	23.1	134.6	113.8	209.1	194.7	208.8
Minorities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net profit reported	353.5	258.4	23.1	134.6	113.8	209.1	194.7	208.8
Adjustments	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net profit adjusted	353.5	258.4	23.1	134.6	113.8	209.1	194.7	208.8
receptone adjusted	050.5	250. 1	20.1	20 1.0	110.0	207.1	27 117	200.0
Sales % Change	na	na	na	na	na	na	na	na
EBITDA reported % Change	na	na	na	na	na	na	na	na
EBITDA adjusted % Change	na	na	na	na	na	na	na	na
EBIT reported % Change	na	na	na	na	na	na	na	na
EBIT adjusted % Change	na	na	na	na	na	na	na	na
Earnings before tax % Change	427.6%	-26.9%	-91.1%	482.9%	-15.4%	83.7%	-6.9%	7.3%
Net profit from continuing operations % Change	427.6%	-26.9%	-91.1%	482.9%	-15.4%	83.7%	-6.9%	7.3%
Net profit reported % Change	427.6%	-26.9%	-91.1%	482.9%	-15.4%	83.7%	-6.9%	7.3%
Net profit adjusted % Change	427.6%	-26.9%	-91.1%	482.9%	-15.4%	83.7%	-6.9%	7.3%
Gross profit margin (%)	na	na	na	na	na	na	na	na
EBITDA margin (%)	na	na	na	na	na	na	na	na
EBIT margin (%)	na	na	na	na	na	na	na	na
Net profit margin (%)	na	na	na	na	na	na	na	na
Tax rate (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Payout ratio (%)	7.3%	16.9%	179.8%	30.5%	42.7%	25.0%	27.4%	26.8%
EPS reported (CHF)	40.98	32.58	3.06	19.01	16.40	30.05	27.99	30.02
EPS adjusted (CHF)	40.98	32.58	3.06	19.01	16.40	30.05	27.99	30.02
EPS adj and fully diluted (CHF)	40.98	32.58	3.06	19.01	16.40	30.05	27.99	30.02
DPS (CHF)	3.00	5.50	5.50	5.80	7.00	7.50	7.66	8.04
DPS,preference shares (CHF)	3.00	5.50	5.50	5.80	7.00	7.50	7.66	8.04
EPS reported % Change	445.2%	-20.5%	-90.6%	521.5%	-13.7%	83.3%	-6.9%	7.3%
EPS adjusted % Change	445.2%	-20.5%	-90.6%	521.5%	-13.7%	83.3%	-6.9%	7.3%
EPS adj and fully diluted % Change	445.2%	-20.5%	-90.6%	521.5%	-13.7%	83.3%	-6.9%	7.3%
DPS % Change	100.0%	83.3%	0.0%	5.5%	20.7%	7.1%	2.1%	5.0%
Consensus Sales (CHFm) Consensus EBITDA (CHFm)								na na

Consensus EBITDA (CHFn)
Consensus EBIT (CHFm)
Consensus EPS (CHF)
Consensus DPS (CHF)

# **Cash flow statement**

FY to 31/03 (CHF)	03/14	03/15	03/16	03/17	03/18	03/19	03/20E	03/21E
Net profit before minorities	353.5	258.4	23.1	134.6	113.8	209.1	194.7	208.8
Depreciation and amortisation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Goodwill impairment	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Change in working capital	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Others	-13.6	-15.6	-67.1	-15.2	-41.3	-37.1	-52.9	-45.8
Levered post tax CF before capex	339.9	242.8	-44.0	119.3	72.5	171.9	141.8	163.0
% Change	508.8%	-28.6%	na	na	-39.2%	137.0%	-17.5%	14.9%
Capex	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Free cash flow	339.9	242.8	-44.0	119.3	72.5	171.9	141.8	163.0
% Change	508.8%	-28.6%	na	na	-39.2%	137.0%	-17.5%	14.9%
Acquisitions	-309.8	-323.3	-395.9	-405.0	-556.5	-534.0	0.0	0.0
Divestments	329.8	461.7	476.5	444.9	661.6	710.8	146.8	155.9
Dividend paid	0.0	-23.6	-42.3	-39.2	-40.8	-38.1	-53.3	-56.0
Share buy back	-20.6	-78.9	-35.9	-29.1	-9.9	-6.1	0.0	0.0
Capital increases	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0
Others	-349.4	-190.8	-1.0	6.2	-125.9	-266.3	-197.0	-212.1
Change in net financial debt	-5.2	93.9	-35.6	105.2	10.1	48.3	49.3	62.8
Change in cash and cash equivalents	-6.1	93.5	-25.6	104.2	4.2	45.5	49.3	62.8
Attributable FCF	339.9	242.8	-44.0	119.3	72.5	171.9	141.8	163.0
Cash flow per share (CHF)	39.40	30.61	-5.82	16.86	10.45	24.71	20.39	23.43
% Change	529.1%	-22.3%	na	na	-38.0%	136.5%	-17.5%	14.9%
FCF per share (CHF)	39.40	30.61	-5.82	16.86	10.45	24.71	20.39	23.43
% Change	529.1%	-22.3%	na	na	-38.0%	136.5%	-17.5%	14.9%
Capex / Sales (%)	na	na	na	na	na	na	na	na
Capex / D&A (%)	na	na	na	na	na	na	na	na
Cash flow / Sales (%)	na	na	na	na	na	na	na	na
FCF / Sales (%)	na	na	na	na	na	na	na	na
FCF Yield (%)	61.3%	0.4.40/	F 00/	4 ( 00 (	0.50/	45 40/	44.00/	12.7%
Unlevered FCF Yield (%)	67.0%	34.4% 38.6%	-5.8% -5.7%	16.8% 16.3%	8.5% 8.3%	15.1% 15.9%	11.0% 12.1%	14.6%

# **Balance sheet**

PY to 31/03 (CHF)									
Inventories	FY to 31/03 (CHF)	03/14	03/15	03/16	03/17	03/18	03/19	03/20E	03/21E
Accounts receivable   0.2   0.2   0.2   0.4   0.4   0.6   0.6   0.6	Cash and cash equivalents								
Other current assets         47.1         140.6         115.0         219.4         223.6         269.2         318.5         381.3           Tangible assets         0.0 <td>Inventories</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td>	Inventories	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Current assets         47.1         140.6         115.0         219.4         223.6         269.2         318.5         381.3           Tangible assets         0.0	Accounts receivable								
Condiminary	Other current assets								
Goodwill	Current assets	47.1	140.6	115.0	219.4	223.6	269.2	318.5	381.3
Other Intangible assets         0.0	Tangible assets	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Financial assets   878.6   1,050.6   1,007.6   1,126.8   1,193.6   1,262.4   1,507.0   1,766.8   1,007.6   1,126.8   1,193.6   1,262.4   1,507.0   1,766.8   1,007.6   1,126.8   1,193.6   1,262.4   1,507.0   1,766.8   1,007.6   1,126.8   1,193.6   1,262.4   1,507.0   1,766.8   1,007.6   1,126.8   1,193.6   1,262.4   1,507.0   1,766.8   1,007.6   1,126.8   1,193.6   1,262.4   1,507.0   1,766.8   1,007.6   1,126.8   1,193.6   1,262.4   1,507.0   1,766.8   1,007.6   1,126.8   1,193.6   1,262.4   1,507.0   1,766.8   1,267.6	Goodwill	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other non-current assets         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         1,766.8         1,756.8         1,206.0         1,00         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0	Other Intangible assets	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non-current assets	Financial assets	878.6	1,050.6	1,007.6	1,126.8	1,193.6	1,262.4	1,507.0	1,766.8
Short term debt	Other non-current assets	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Accounts payable         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         1.5         3.0         0.0	Non-current assets	878.6	1,050.6	1,007.6	1,126.8	1,193.6	1,262.4	1,507.0	1,766.8
Other short rem liabilities         1.5         3.1         3.8         3.8         3.0         3.5         3.5         129.6           Current liabilities         1.5         66.6         3.8         160.3         167.5         129.6         129.6         129.6           Long term debt         0.0	Short term debt	0.0	63.5	0.0	156.5	164.6	126.1	126.1	126.1
Current liabilities         1.5         66.6         3.8         160.3         167.5         129.6         129.6         129.6           Long term debt         0.0         0.0         98.9         99.1         99.2         99.4         99.4         99.4           Pension provisions         0.0	Accounts payable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Long term debt	Other short term liabilities	1.5	3.1	3.8	3.8	3.0	3.5	3.5	3.5
Pension provisions	Current liabilities	1.5	66.6	3.8	160.3	167.5	129.6	129.6	129.6
Pension provisions	Long term debt	0.0	0.0	98.9	99.1	99.2	99.4	99.4	99.4
FRS16 Debt		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other long term liabilities         0.0<	•	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other long term liabilities         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         99.4         199.4         159.5         1,50.5         1,50.5         1,59.5         1,919.1         1,191.2         1,191.2         1,191.2         1,191.2         1,191.2         1,191.2         1,191.2         1,191.2         1,191.2         1,191.2         1,191.2         1,191.2         1,191.2         1		3.8	50.4	0.0	0.0		0.0	0.0	0.0
Shareholders' equity   920.3   1,074.2   1,019.9   1,086.9   1,150.5   1,302.6   1,596.5   1,919.1		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Minority interests         0.0         1,596.5         1,919.1         1.919.1         1,086.9         1,150.5         1,302.6         1,596.5         1,919.1         1,919.1         1,186.9         1,181.2         1,346.2         1,417.3         1,531.6         1,825.5         2,148.1         % Change         53.8%         28.7%         -5.8%         19.9%         5.3%         8.1%         19.2%         17.7%           Book value per share (CHF)         106.68         135.46         135.09         153.51         165.71         187.23         229.48         275.85         % Change         58.2%         27.0%         -0.3%         13.6%         7.9%         13.0%         22.4%         275.85         % Change         29.48         275.85         % Change         159.9         36.6         40.6         -43.1         -92.4         -155.2         1875.16         159.0         159.0         36.6         40.6         -43.1         -92.4         -155.2         2155.2         2.9         2.9 <td>Non-current liabilities</td> <td>3.8</td> <td>50.4</td> <td>98.9</td> <td>99.1</td> <td>99.2</td> <td>99.4</td> <td>99.4</td> <td>99.4</td>	Non-current liabilities	3.8	50.4	98.9	99.1	99.2	99.4	99.4	99.4
Minority interests         0.0         1,596.5         1,919.1         1.919.1         1,086.9         1,150.5         1,302.6         1,596.5         1,919.1         1,919.1         1,186.9         1,181.2         1,346.2         1,417.3         1,531.6         1,825.5         2,148.1         % Change         53.8%         28.7%         -5.8%         19.9%         5.3%         8.1%         19.2%         17.7%           Book value per share (CHF)         106.68         135.46         135.09         153.51         165.71         187.23         229.48         275.85         % Change         58.2%         27.0%         -0.3%         13.6%         7.9%         13.0%         22.48         275.85         % Change         15.9         36.6         40.6         -43.1         -92.4         -155.2         15.9         36.6         40.6         -43.1         -92.4         -155.2         17.84         17.9         2.0         2.0         2.0         2.0         2.0         2.0         2.0<	Shareholders' equity	920.3	1,074.2	1,019.9	1,086.9	1,150.5	1,302.6	1,596.5	1,919.1
Balance sheet total % Change         925.7 53.8%         1,191.2 28.7%         1,122.7 -5.8%         1,346.2 19.9%         1,417.3 5.3%         1,531.6 8.1%         1,825.5 19.2%         2,148.1 17.7%           Book value per share (CHF)         106.68 58.2%         135.46 27.0%         135.51 0.3%         165.71 13.6%         187.23 7.9%         229.48 13.0%         275.85 22.6%         275.85 20.2%           Net financial debt IFRS16 Debt         -46.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
% Change       53.8%       28.7%       -5.8%       19.9%       5.3%       8.1%       19.2%       17.7%         Book value per share (CHF)       106.68       135.46       135.09       153.51       165.71       187.23       229.48       275.85         % Change       58.2%       27.0%       -0.3%       13.6%       7.9%       13.0%       22.6%       20.2%         Net financial debt       -46.9       -76.9       -15.9       36.6       40.6       -43.1       -92.4       -155.2         IFRS16 Debt       0.0	Total equity	920.3	1,074.2	1,019.9	1,086.9	1,150.5	1,302.6	1,596.5	1,919.1
Book value per share (CHF)  106.68 135.46 135.09 153.51 165.71 187.23 229.48 275.85 % Change 58.2% 27.0% -0.3% 13.6% 7.9% 13.0% 22.6% 20.2%  Net financial debt -46.9 -76.9 -76.9 -15.9 36.6 40.6 -43.1 -92.4 -155.2 IFRS16 Debt 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Balance sheet total	925.7	1,191.2	1,122.7	1,346.2	1,417.3	1,531.6	1,825.5	2,148.1
% Change         58.2%         27.0%         -0.3%         13.6%         7.9%         13.0%         22.6%         20.2%           Net financial debt         -46.9         -76.9         -15.9         36.6         40.6         -43.1         -92.4         -155.2           IFRS16 Debt         0.0	% Change	53.8%	28.7%	-5.8%	19.9%	5.3%	8.1%	19.2%	17.7%
Net financial debt IFRS16 Debt O.0	Book value per share (CHF)	106.68	135.46	135.09	153.51	165.71	187.23	229.48	275.85
IFRS16 Debt       0.0        0.0	% Change	58.2%	27.0%	-0.3%	13.6%	7.9%	13.0%	22.6%	20.2%
IFRS16 Debt       0.0        0.0	Net financial debt	-46.9	-76.9	-15.9	36.6	40.6	-43.1	-92.4	-155.2
Pension provisions         0.0									
Others         0.0<									
Net debt / EBITDA (x)  na  na  na  na  na  na  na  na  na  n		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trade working capital 0.2 0.2 0.2 0.4 0.4 0.6 0.6 0.6 0.6 Net working capital -1.4 -2.9 -3.6 -3.3 -2.5 -2.9 -2.9 -2.9 NWC/Sales na	Net debt	-46.9	-76.9	-15.9	36.6	40.6	-43.1	-92.4	-155.2
Net working capital         -1.4         -2.9         -3.6         -3.3         -2.5         -2.9         -2.9         -2.9           NWC/Sales         na         na </td <td>Net debt / EBITDA (x)</td> <td>na</td> <td>na</td> <td>na</td> <td>na</td> <td>na</td> <td>na</td> <td>na</td> <td>na</td>	Net debt / EBITDA (x)	na	na	na	na	na	na	na	na
Net working capital         -1.4         -2.9         -3.6         -3.3         -2.5         -2.9         -2.9         -2.9           NWC/Sales         na         na </td <td>Trade working capital</td> <td>0.2</td> <td>0.2</td> <td>0.2</td> <td>0.4</td> <td>0.4</td> <td>0.6</td> <td>0.6</td> <td>0.6</td>	Trade working capital	0.2	0.2	0.2	0.4	0.4	0.6	0.6	0.6
NWC/Sales         na									
Inventories/sales         na	<u> </u>								
Invested capital         -1.4         -2.9         -3.6         -3.3         -2.5         -2.9         -2.9         -2.9           Net fin. debt / FCF (x)         -0.1         -0.3         0.4         0.3         0.6         -0.3         -0.7         -1.0           Gearing (%)         -5.1%         -7.2%         -1.6%         3.4%         3.5%         -3.3%         -5.8%         -8.1%									
Gearing (%) -5.1% -7.2% -1.6% 3.4% 3.5% -3.3% -5.8% -8.1%									
	Net fin. debt / FCF (x)	-0.1	-0.3	0.4	0.3	0.6	-0.3	-0.7	-1.0
	Gearing (%)	-5.1%	-7.2%	-1.6%	3.4%	3.5%	-3.3%	-5.8%	-8.1%
	Goodwill / Equity (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

# Research ratings and important disclosures

The term "KEPLER CHEUVREUX" shall, unless the context otherwise requires, mean each of KEPLER CHEUVREUX and its affiliates, subsidiaries and related companies (see "Regulators" table below).

The investment recommendation(s) referred to in this report was (were) completed on 19/07/2019 7:34 (GMT) and was first disseminated on 22/07/2019 5:08 (GMT).

Prices in this report are taken as of the previous day's close (to the date of this report) on the home market unless otherwise stated.

#### **Companies mentioned**

Stock	ISIN	Currency	Price
Argenx	NL0010832176	EUR	131.30
HBM Healthcare	CH0012627250	CHF	184.80
Merck KGaA	DE0006599905	EUR	92.68

Source: Factset closing prices of 17/07/2019

#### Disclosure checklist - Potential conflict of interests

Company Name	Disclosure
Argenx	nothing to disclose
HBM Healthcare	KEPLER CHEUVREUX and the issuer have agreed that KEPLER CHEUVREUX will produce and disseminate investment research on the said issuer as a service to the issuer
Merck KGaA	nothing to disclose

#### Organizational and administrative arrangements to avoid and prevent conflicts of interests

KEPLER CHEUVREUX promotes and disseminates independent investment research and have implemented written procedures designed to identify and manage potential conflicts of interest that arise in connection with its research business, which are available upon request. The KEPLER CHEUVREUX research analysts and other staff involved in issuing and disseminating research reports operate independently of KEPLER CHEUVREUX Investment Banking business. Information barriers and procedures are in place between the research analysts and staff involved in securities trading for the account of KEPLER CHEUVREUX or clients to ensure that price sensitive information is handled according to applicable laws and regulations.

It is Kepler Cheuvreux' policy not to disclose the rating to the issuer before publication and dissemination. Nevertheless, this document, in whole or in part, and with the exclusion of ratings, target prices and any other information that could lead to determine its valuation, may have been provided to the issuer prior to publication and dissemination, solely with the aim of verifying factual accuracy.

Please refer to www.keplercheuvreux.com for further information relating to research and conflict of interest management.

#### **Analyst disclosures**

The functional job title of the person(s) responsible for the recommendations contained in this report is **Equity/Credit Research Analyst** unless otherwise stated on the cover.

Name of the Research Analyst(s): Arsene Guekam

Regulation AC - Analyst Certification: Each Equity/Credit Research Analyst(s) listed on the front-page of this report, principally responsible for the preparation and content of all or any identified portion of this research report hereby certifies that, with respect to each issuer or security or any identified portion of the report with respect to an issuer or security that the equity research analyst covers in this research report, all of the views expressed in this research report accurately reflect their personal views about those issuer(s) or securities. Each Equity/Credit Research Analyst(s) also certifies that no part of their compensation was, is, or will be, directly or indirectly, related to the specific recommendation(s) or view(s) expressed by that equity research analyst in this research report.

Each Equity/Credit Research Analyst certifies that he is acting independently and impartially from KEPLER CHEUVREUX shareholders, directors and is not affected by any current or potential conflict of interest that may arise from any KEPLER CHEUVREUX activities.

Analyst Compensation: The research analyst(s) primarily responsible for the preparation of the content of the research report attest that no part of the analyst's(s') compensation was, is or will be, directly or indirectly, related to the specific recommendations expressed by the research analyst(s) in the research report. The research analyst's(s') compensation is, however, determined by the overall economic performance of KEPLER CHEUVREUX.

Registration of non-US Analysts: Unless otherwise noted, the non-US analysts listed on the front of this report are employees of KEPLER CHEUVREUX, which is a non-US affiliate and parent company of Kepler Capital Markets, Inc. a SEC registered and FINRA member broker-dealer. Equity/Credit Research Analysts employed by KEPLER CHEUVREUX, are not registered/qualified as research analysts under FINRA/NYSE rules, may not be associated persons of Kepler Capital Markets, Inc. and may not be subject to NASD Rule 2711 and NYSE Rule 472 restrictions on communications with covered companies, public appearances, and trading securities held by a research analyst account.

#### Rating ratio Kepler Cheuvreux Q2 2019

Rating ratio Replet Cheuvreux Q2 2019		
Rating Breakdown	Α	В
Buy	50%	56%
Hold	33%	30%
Reduce	14%	9%
Not Rated/Under Review/Accept Offer	3%	5%
Total	100%	100%

Source: Kepler Cheuvreux

A: % of all research recommendations

 $\mathsf{B} \colon \! \%$  of issuers to which material services of investment firms are supplied

#### 12 months rating history

The below table shows the history of recommendations and target prices changes issued by KEPLER CHEUVREUX research department (Equity and Credit) over a 12 months period.

Company Name	Date	<b>Business Line</b>	Rating	Target Price	Closing Price
Argenx (EUR)	13/06/2019 07:27	Equity Research	Buy	140.00	107.00
Merck KGaA (EUR)	19/10/2018 07:04	<b>Equity Research</b>	Buy	105.00	92.64
	15/11/2018 08:20	<b>Equity Research</b>	Buy	108.00	98.00
	14/03/2019 09:33	Equity Research	Buy	110.00	98.92
	22/05/2019 08:36	Equity Research	Buv	108.00	90.84

Credit research does not issue target prices. Left intentionally blank.

Please refer to the following link <a href="https://research.keplercheuvreux.com/app/disclosure">https://research.keplercheuvreux.com/app/disclosure</a> for a full list of investment recommendations issued over the last 12 months by the author(s) and contributor(s) of this report on any financial instruments.

#### **Equity research**

#### Rating system

KEPLER CHEUVREUX equity research ratings and target prices are issued in absolute terms, not relative to any given benchmark. A rating on a stock is set after assessing the twelve months expected upside or downside of the stock derived from the analyst's fair value (target price) and in the light of the risk profile of the company. Ratings are defined as follows:

Buy: The minimum expected upside is 10% over next 12 months (the minimum required upside could be higher in light of the company's risk profile).

Hold: The expected upside is below 10% (the expected upside could be higher in light of the company's risk profile).

Reduce: There is an expected downside.

Accept offer: In the context of a total or partial take-over bid, squeeze-out or similar share purchase proposals, the offer price is considered to be fairly valuing the shares.

Reject offer: In the context of a total or partial take-over bid, squeeze-out or similar share purchase proposals, the offered price is considered to be undervaluing the shares.

**Under review:** An event occurred with an expected significant impact on our target price and we cannot issue a recommendation before having processed that new information and/or without a new share price reference.

Not rated: The stock is not covered.

Restricted: A recommendation, target price and/or financial forecast is not disclosed further to compliance and/or other regulatory considerations.

Due to share prices volatility, ratings and target prices may occasionally and temporarily be inconsistent with the above definition.

#### Valuation methodology and risks

Unless otherwise stated in this report, target prices and investment recommendations are determined based on fundamental research methodologies and relies on commonly used valuation methodologies such as Discounted Cash Flow (DCF), valuation multiples comparison with history and peers, Dividend Discount Model (DDM).

Valuation methodologies and models can be highly dependent on macroeconomic factors (such as the price of commodities, exchange rates and interest rates) as well as other external factors including taxation, regulation and geopolitical changes (such as tax policy changes, strikes or war). In addition, investors' confidence and market sentiment can affect the valuation of companies. The valuation is also based on expectations that might change rapidly and without notice, depending on developments specific to individual industries. Whichever valuation method is used there is a significant risk that the target price will not be achieved within the expected timeframe.

Unless otherwise stated, models used are proprietary. Additional information about the proprietary models used in this report is accessible on request.

Kepler Cheuvreux' equity research policy is to update research rating when it deems appropriate in the light of new findings, markets development and any relevant information that can impact the analyst's view and opinion.

#### **Credit research**

#### Recommendation system (issuer or instrument level)

Buy: The analyst has a positive conviction either in absolute or relative valuation terms and/or expects a tightening of the issuer's debt securities spread over a 6 months period.

Hold: The analyst has a stable credit fundamental opinion on the issuer and/or performances of the debt securities over a 6 months period.

Sell: The analyst expects of a widening of the credit spread to some or all debt securities of the issuer and/or a negative fundamental view over a 6 months period.

No recommendation: The analyst does not provide formal, continuous coverage of this issuer and has not assigned a recommendation to the issuer.

 $\textbf{Restricted:} \ A \ recommendation, target \ price \ and/or \ financial \ forecast \ is \ not \ disclosed \ further \ to \ compliance \ and/or \ other \ regulatory \ considerations.$ 

Recommendations on interest bearing securities mostly focus on the credit spread and on the rating views and methodologies of recognized agencies (S&P, Moody's and Fitch). Ratings and recommendations may differ for a single issuer according the maturity profile, subordination or market valuation of interest bearing securities.

#### Valuation methodology and risks

Unless otherwise stated in this report, recommendations produced on companies covered by KEPLER CHEUVREUX credit research, rely on fundamental analysis combined with a market approach of the interest bearing securities valuations. The methodology employed to assign recommendations is based on the analyst fundamental evaluation of the groups' operating and financial profiles adjusted by credit specific elements.

Valuation methodologies and models can be highly dependent on macroeconomic factors (such as the price of commodities, exchange rates and interest rates) as well as other external factors including taxation, regulation and geopolitical changes (such as tax policy changes, strikes or war) and also on methodologies' changes of recognized agencies. In addition, investors' confidence and market sentiment can affect the valuation of companies. The valuation is also based on expectations that might change rapidly and without notice, depending on developments specific to individual industries.

Unless otherwise stated, models used are proprietary. If nothing is indicated to the contrary, all figures are unaudited. Additional information about the proprietary models used in this report is accessible on request.

Kepler Cheuvreux' credit research policy is to update research rating when it deems appropriate in the light of new findings, markets development and any relevant information that can impact the analyst's view and opinion.

### Regulators

Location	Regulator	Abbreviation
KEPLER CHEUVREUX S.A - France	Autorité des Marchés Financiers	AMF
KEPLER CHEUVREUX, Sucursal en España	Comisión Nacional del Mercado de Valores	CNMV
KEPLER CHEUVREUX, Frankfurt branch	Bundesanstalt für Finanzdienstleistungsaufsicht	BaFin
KEPLER CHEUVREUX, Milan branch	Commissione Nazionale per le Società e la Borsa	CONSOB
KEPLER CHEUVREUX, Amsterdam branch	Autoriteit Financiële Markten	AFM
Kepler Capital Markets SA - Switzerland, Zurich branch	Swiss Financial Market Supervisory Authority	FINMA
Kepler Capital Markets, Inc.	Financial Industry Regulatory Authority	FINRA
KEPLER CHEUVREUX, London branch	Financial Conduct Authority	FCA
KEPLER CHEUVREUX, Vienna branch	Austrian Financial Services Authority	FMA
KEPLER CHEUVREUX, Stockholm Branch	Finansinspektionen	FI
KEPLER CHEUVREUX Oslo Branch	Finanstilsysnet	NFSA
KEPLER CHEUVREUX, Bruxelles Branch	Autorité des Services et Marchés Financiers	FSMA

KEPLER CHEUVREUX is authorised and regulated by both Autorité de Contrôle Prudentiel and Autorité des Marchés Financiers.



# **Legal and disclosure information**

#### Other disclosures

This product is not for distribution to retail clients.

MIFID 2 WARNING: We remind you that pursuant to MiFID 2, it is your responsibility, as a recipient of this research document, to determine whether or not your firm is impacted by the provisions of the Directive 2014/65/EU of the European Parliament and of the Council of 15 May 2014 on markets in financial instruments ("MiFID 2") regarding the unbundling of research and execution (the "MiFID 2 Research Rules"). For any request on the provision of research documents, please send an email to crystal.team@keplercheuvreux.com.

The information contained in this publication was obtained from various publicly available sources believed to be reliable, but has not been independently verified by KEPLER CHEUVREUX. KEPLER CHEUVREUX does not warrant the completeness or accuracy of such information and does not accept any liability with respect to the accuracy or completeness of such information, except to the extent required by applicable law.

This publication is a brief summary and does not purport to contain all available information on the subjects covered. Further information may be available on request.

This publication is for information purposes only and shall not be construed as an offer or solicitation for the subscription or purchase or sale of any securities, or as an invitation, inducement or intermediation for the sale, subscription or purchase of any securities, or for engaging in any other transaction.

Any opinions, projections, forecasts or estimates in this report are those of the author only, who has acted with a high degree of expertise. They reflect only the current views of the author at the date of this report and are subject to change without notice. KEPLER CHEUVREUX has no obligation to update, modify or amend this publication or to otherwise notify a reader or recipient of this publication in the event that any matter, opinion, projection, forecast or estimate contained herein changes or subsequently becomes inaccurate, or if research on the subject company is withdrawn. The analysis, opinions, projections, forecasts and estimates expressed in this report were in no way affected or influenced by the issuer. The author of this publication benefits financially from the overall success of KEPLER CHEUVREUX.

The investments referred to in this publication may not be suitable for all recipients. Recipients are urged to base their investment decisions upon their own appropriate investigations that they deem necessary. Any loss or other consequence arising from the use of the material contained in this publication shall be the sole and exclusive responsibility of the investor and KEPLER CHEUVREUX accepts no liability for any such loss or consequence. In the event of any doubt about any investment, recipients should contact their own investment, legal and/or tax advisers to seek advice regarding the appropriateness of investing. Some of the investments mentioned in this publication may not be readily liquid investments. Consequently it may be difficult to sell or realise such investments. The past is not necessarily a guide to future performance of an investment. The value of investments and the income derived from them may fall as well as rise and investors may not get back the amount invested. Some investments discussed in this publication may have a high level of volatility. High volatility investments may experience sudden and large falls in their value which may cause losses. International investing includes risks related to political and economic uncertainties of foreign countries, as well as currency risk.

To the extent permitted by applicable law, no liability whatsoever is accepted for any direct or consequential loss, damages, costs or prejudices whatsoever arising from the use of this publication or its contents.

#### **Country and region disclosures**

United Kingdom: This document is for persons who are Eligible Counterparties or Professional Clients only and is exempt from the general restriction in section 21 of the Financial Services and Markets Act 2000 on the communication of invitations or inducements to engage in investment activity on the grounds that it is being distributed in the United Kingdom only to persons of a kind described in Articles 19(5) (Investment professionals) and 49(2) (High net worth companies, unincorporated associations, etc.) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (as amended). It is not intended to be distributed or passed on, directly or indirectly, to any other class of persons. Any investment to which this document relates is available only to such persons, and other classes of person should not rely on this document.

United States: This communication is only intended for, and will only be distributed to, persons residing in any jurisdictions where such distribution or availability would not be contrary to local law or regulation. This communication must not be acted upon or relied on by persons in any jurisdiction other than in accordance with local law or regulation and where such person is an investment professional with the requisite sophistication to understand an investment in such securities of the type communicated and assume the risks associated therewith.

This communication is confidential and is intended solely for the addressee. It is not to be forwarded to any other person or copied without the permission of the sender. This communication is provided for information only. It is not a personal recommendation or an offer to sell or a solicitation to buy the securities mentioned. Investors should obtain independent professional advice before making an investment.

Notice to U.S. Investors: This material is not for distribution in the United States, except to "major US institutional investors" as defined in SEC Rule 15a-6 ("Rule 15a-6"). KEPLER CHEUVREUX has entered into a 15a-6 Agreement with Kepler Capital Markets, Inc. ("KCM, Inc.") which enables this report to be furnished to certain U.S. recipients in reliance on Rule 15a-6 through KCM, Inc.

Each U.S. recipient of this report represents and agrees, by virtue of its acceptance thereof, that it is a "major U.S. institutional investor" (as such term is defined in Rule 15a-6) and that it understands the risks involved in executing transactions in such securities. Any U.S. recipient of this report that wishes to discuss or receive additional information regarding any security or issuer mentioned herein, or engage in any transaction to purchase or sell or solicit or offer the purchase or sale of such securities, should contact a registered representative of KCM, Inc.

KCM, Inc. is a broker-dealer registered with the Securities and Exchange Commission ("SEC") under the U.S. Securities Exchange Act of 1934, as amended, Member of the Financial Industry Regulatory Authority ("FINRA") and Member of the Securities Investor Protection Corporation ("SIPC"). Pursuant to SEC Rule 15a-6, you must contact a Registered Representative of KCM, Inc. if you are seeking to execute a transaction in the securities discussed in this report. You can reach KCM, Inc. at Tower 49, 12 East 49th Street, Floor 36, New York, NY 10017, Compliance Department (212) 710-7625; Operations Department (212) 710-7606; Trading Desk (212) 710-7602. Further information is also available at www.keplercheuvreux.com. You may obtain information about SIPC, including the SIPC brochure, by contacting SIPC directly at 202-371-8300; website: http://www.sipc.org/.

KCM, Inc. is a wholly owned subsidiary of KEPLER CHEUVREUX. KEPLER CHEUVREUX, registered on the Paris Register of Companies with the number 413 064 841 (1997 B 10253), whose registered office is located at 112 avenue Kléber, 75016 Paris, is authorised and regulated by both Autorité de Contrôle Prudentiel (ACP) and Autorité des Marchés Financiers (AMF).

Nothing herein excludes or restricts any duty or liability to a customer that KCM, Inc. may have under applicable law. Investment products provided by or through KCM, Inc. are not insured by the Federal Deposit Insurance Corporation and are not deposits or other obligations of any insured depository institution, may lose value and are not guaranteed by the entity that published the research as disclosed on the front page and are not guaranteed by KCM, Inc.

Investing in non-U.S. Securities may entail certain risks. The securities referred to in this report and non-U.S. issuers may not be registered under the U.S. Securities Act of 1933, as amended, and the issuer of such securities may not be subject to U.S. reporting and/or other requirements. Rule 144A securities may be offered or sold only to persons in the U.S. who are Qualified Institutional Buyers within the meaning of Rule 144A under the Securities Act. The information available about non-U.S. companies may be limited, and non-U.S. companies are generally not subject to the same uniform auditing and reporting standards as U.S. companies. Securities of some non-U.S. companies may not be as liquid as securities of comparable U.S. companies. Securities discussed herein may be rated below investment grade and should therefore only be considered for inclusion in accounts qualified for speculative investment.

Analysts employed by KEPLER CHEUVREUX SA, a non-U.S. broker-dealer, are not required to take the FINRA analyst exam. The information contained in this report is intended solely for certain "major U.S. institutional investors" and may not be used or relied upon by any other person for any purpose. Such information is provided for informational purposes only and does not constitute a solicitation to buy or an offer to sell any securities under the Securities Act of 1933, as amended, or under any

other U.S. federal or state securities laws, rules or regulations. The investment opportunities discussed in this report may be unsuitable for certain investors depending on their specific investment objectives, risk tolerance and financial position.

In jurisdictions where KCM, Inc. is not registered or licensed to trade in securities, or other financial products, transactions may be executed only in accordance with applicable law and legislation, which may vary from jurisdiction to jurisdiction and which may require that a transaction be made in accordance with applicable exemptions from registration or licensing requirements.

The information in this publication is based on sources believed to be reliable, but KCM, Inc. does not make any representation with respect to its completeness or accuracy. All opinions expressed herein reflect the author's judgment at the original time of publication, without regard to the date on which you may receive such information, and are subject to change without notice.

KCM, Inc. and/or its affiliates may have issued other reports that are inconsistent with, and reach different conclusions from, the information presented in this report. These publications reflect the different assumptions, views and analytical methods of the analysts who prepared them. Past performance should not be taken as an indication or guarantee of future performance, and no representation or warranty, express or implied, is provided in relation to future performance.

KCM, Inc. and any company affiliated with it may, with respect to any securities discussed herein: (a) take a long or short position and buy or sell such securities; (b) act as investment and/or commercial bankers for issuers of such securities; (c) act as market makers for such securities; (d) serve on the board of any issuer of such securities; and (e) act as paid consultant or advisor to any issuer. The information contained herein may include forward-looking statements within the meaning of U.S. federal securities laws that are subject to risks and uncertainties. Factors that could cause a company's actual results and financial condition to differ from expectations include, without limitation: political uncertainty, changes in general economic conditions that adversely affect the level of demand for the company's products or services, changes in foreign exchange markets, changes in international and domestic financial markets and in the competitive environment, and other factors relating to the foregoing. All forward-looking statements contained in this report are qualified in their entirety by this cautionary statement.

France: This publication is issued and distributed in accordance with Articles L.544-1 and seq and R. 621-30-1 of the Code Monétaire et Financier and with Articles 313-25 to 313-27 and 315-1 and seq of the General Regulation of the Autorité des Marchés Financiers (AMF).

Germany: This report must not be distributed to persons who are retail clients in the meaning of Sec. 31a para. 3 of the German Securities Trading Act (Wertpapierhandelsgesetz – "WpHG"). This report may be amended, supplemented or updated in such manner and as frequently as the author deems.

Italy: This document is issued by KEPLER CHEUVREUX Milan branch, authorised in France by the Autorité des Marchés Financiers (AMF) and the Autorité de Contrôle Prudentiel (ACP) and registered in Italy by the Commissione Nazionale per le Società e la Borsa (CONSOB) and is distributed by KEPLER CHEUVREUX. This document is for Eligible Counterparties or Professional Clients only as defined by the CONSOB Regulation 16190/2007 (art. 26 and art. 58). Other classes of persons should not rely on this document. Reports on issuers of financial instruments listed by Article 180, paragraph 1, letter a) of the Italian Consolidated Act on Financial Services (Legislativo 11971/1999, according to these provisions KEPLER CHEUVREUX warns on the significant interests of KEPLER CHEUVREUX in relation to the securities object of this report as well as other circumstance or relationship with the issuer of the securities object of this report (including but not limited to conflict of interest, significant shareholdings held in or by the issuer and other significant interests held by KEPLER CHEUVREUX or other entities controlling or subject to control by KEPLER CHEUVREUX in relation to the issuer which may affect the impartiality of this document]. Equities discussed herein are covered on a continuous basis with regular reports at results release. Reports are released on the date shown on cover and distributed via print and email. KEPLER CHEUVREUX branch di Milano analysts is not affiliated with any professional groups or organisations. All estimates are by KEPLER CHEUVREUX unless otherwise stated.

Spain: This document is only intended for persons who are Eligible Counterparties or Professional Clients within the meaning of Article 78bis and Article 78ter of the Spanish Securities Market Act. It is not intended to be distributed or passed on, directly or indirectly, to any other class of persons. This report has been issued by KEPLER CHEUVREUX Sucursal en España registered in Spain by the Comisión Nacional del Mercado de Valores (CNMV) in the foreign investments firms registry and it has been distributed in Spain by it or by KEPLER CHEUVREUX authorised and regulated by both Autorité de Contrôle Prudentiel and Autorité des Marchés Financiers. There is no obligation to either register or file any report or any supplemental documentation or information with the CNMV. In accordance with the Spanish Securities Market Law (Ley del Mercado de Valores), there is no need for the CNMV to verify, authorise or carry out a compliance review of this document or related documentation, and no information needs to be provided.

**Switzerland:** This publication is intended to be distributed to professional investors in circumstances such that there is no public offer. This publication does not constitute a prospectus within the meaning of Articles 652a and 1156 of the Swiss Code of Obligations.

Canada: This document is for information and marketing purposes only. The information contained herein is not, and under no circumstances to be construed as, a prospectus, an offering memorandum, an advertisement, a public offering, an offer to sell securities, or a solicitation of an offer to buy securities, in Canada or any province or territory thereof. Any offer or sale of the securities described herein in Canada will be made only under an exemption from the requirements to file a prospectus with the relevant Canadian securities regulators under applicable Canadian securities laws in the relevant province or territory of Canada in which such offer or sale is made. Under no circumstances is the information contained herein to be construed as investment advice in any province or territory of Canada and is not tailored to the needs of the recipient. No securities commission or similar regulatory authority in Canada has reviewed or in any way passed upon these materials, the information contained herein or the merits of the securities described herein.

Pursuant to a research distribution agreement between Kepler Cheuvreux and CIBC World Markets Inc. ("CIBC"), CIBC distributes Kepler Cheuvreux equity research to Canadian clients of CIBC. This research report has not been prepared in accordance with the disclosure requirements of Dealer Member Rule 3400 –Research Restrictions and Disclosure Requirements of the Investment Industry Regulatory Organization of Canada ("IIROC"). KEPLER CHEUVREUX is authorised and regulated by both Autorité de Contrôle Prudentiel and Autorité des Marchés Financiers ("AMF"). If this research report had been prepared in compliance with IIROC's requirements it would require disclosure if the IIROC regulated dealer and its affiliates collectively beneficially owned 1% or more of any class of equity securities issued by the company covered in this research report. Under AMF requirements disclosure is only required for major shareholdings by the AMF regulated dealer or any of its affiliates, including at least shareholdings exceeding 5% of the total issued share capital of the company covered in this research report.

Other countries: Laws and regulations of other countries may also restrict the distribution of this report. Persons in possession of this document should inform themselves about possible legal restrictions and observe them accordingly.

None of the material, nor its content may be altered in anyway, transmitted to, copied or distributed to any other party, in whole or in part, unless otherwise agreed with KEPLER CHEUVREUX in writing.

Copyright © KEPLER CHEUVREUX. All rights reserved.



#### **Europe**

Milan

+39 02 8550 7201

Oslo

+47 23 13 9080 **Paris** 

+33 1 53 65 35 00 Stockholm

+4687235100 Vienna

+43 1 537 124 147 Zurich

+41 43 333 66 66



#### Pharma & Biotech research team



Arsène Guekam Head of Biotech Sector Research **Main Author** aguekam@keplercheuvreux.com +33 1 70 81 57 56

Arsene Guekam is a Senior Equity Research Analyst specialising in healthcare and biotech/medtech. He joined Kepler Cheuvreux in November 2015. Previously, he spent eleven years at CM-CIC Securities as the Head of the European Pharma/Biotech Research Team, more than two years at Oddo MidCap and three years at Natexis covering both large and small caps as well as biotechs. Arsene Guekam began his career in various public institutes and in R&D at Sanofi. He graduated from Pharmaceutical studies and from EM Lyon, where he obtained a master's degree in Finance.



**Damien Choplain** dchoplain@keplercheuvreux.com +33 1 53 65 35 22



**Dariusz Ubik** dubik@keplercheuvreux.com +44 (0) 207 621 5129



**David Evans** Co-Head of European Pharmaceutials devans@keplercheuvreux.com +44 (0) 207 621 5197



Maja Pataki Head of Medtech Devices Research mpataki@keplercheuvreux.com +41 43 333 6623



**Mats Liss** mliss@keplercheuvreux.com +46 8 723 51 18



Pablo de Renteria prenteria@keplercheuvreux.com +34 91 436 5221



**Patrick Roquas** proquas@keplercheuvreux.com +31 20 563 2366



**Thomas Guillot** tguillot@keplercheuvreux.com +33 1 70 98 85 27



Thomas Landemaine, PhD tlandemaine@keplercheuvreux.com +33 1 53 65 36 28