

# Media and Games Invest plc

## Germany - Others



HAUCK & AUFHÄUSER  
Investment Banking

**Buy** (Initiation)

**Price target: EUR 1.80**

<b>Price:</b>	EUR 1.16	<b>Next result:</b>	FY'19: tba
<b>Bloomberg:</b>	M8G GR	<b>Market cap:</b>	EUR 104.4 m
<b>Reuters:</b>	M8G.DE	<b>Enterprise Value:</b>	EUR 157.6 m

08-January-20

**Tim Wunderlich, CFA**  
Analyst

tim.wunderlich@ha-ib.de  
Tel.: +49 40 4143885 81

## Raising its game – Initiate with BUY

MGI is a holding company pursuing a buy and build strategy in Gaming (FY'19E: 57% of sales / online gaming platform) and Media (FY'19E: 43% of sales / software to win and monetize users).

Its flagship subsidiary gamigo operates a scalable online gaming platform (30+ massive multiplayer online games / 5000+ casual games) with access to millions of users in Europe and the USA, and a **tight focus on the niche** for long-live multiplayer role plays.

Rather than engaging in the risky and expensive development of new games, gamigo operates a **scalable and low-risk business model** centred around:

- The selected optimization and „milking“ of existing games, **supporting long lifecycles of 10+ years** per game on average.
- **The acquisition of sub-scale rivals at accretive multiples** (20+ deals in past 5 years), which gives access to an existing client base and game portfolio, as well as to low-hanging synergies in admin and IT.

Thus, gamigo has managed to build **critical size** over the past years and now holds a **distinct scale advantage** over the typical sub-scale rival, which is a **testament to its high competitive quality**.

This puts gamigo in a position to **capitalize on its key asset**: a loyal base of 5m monthly users active on its gaming platform (plus a 50m client list), which should be **highly valuable** to pure game developers (e.g. from Asia) as a scalable distribution vehicle.

gamigo thus looks set to **kick-start a phase of dynamic and scalable growth** by licensing games and cross-selling them to the existing user base, with support offered by the Media segment's software tools to win new and monetize existing gaming users. This explains our expectation of 29% sales growth (CAGR 18-21E), aided by M&A, and disproportionate 68% EBIT growth in the same time frame thanks to scale in IT and marketing.

Using a DCF model to capture the scalable and dynamic growth prospects offered by MGI's synergistic business model, we derive a **fair value of € 1.80**, yielding more than 50% upside.

Y/E 31.12 (EUR m)	2016*	2017*	2018*	2019E	2020E	2021E
Sales	39.0	42.1	45.3	70.0	87.5	98.0
Sales growth	80 %	8 %	8 %	55 %	25 %	12 %
EBITDA	2.6	7.0	11.1	15.1	21.9	26.0
EBIT	-9.2	-2.0	2.6	0.9	8.1	12.2
Net income	-9.1	-5.0	1.5	-3.9	2.6	5.8
Net debt	23.6	25.3	38.6	53.2	45.0	34.9
Net gearing	73.9 %	94.1 %	135.1 %	56.1 %	46.2 %	33.8 %
Net Debt/EBITDA	8.9	3.6	3.5	3.5	2.1	1.3
EPS pro forma	-0.10	-0.05	0.02	0.02	0.08	0.12
CPS	0.00	0.00	0.07	0.05	0.10	0.12
DPS	0.00	0.00	0.00	0.00	0.00	0.00
Dividend yield	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
Gross profit margin	57.9 %	64.5 %	64.3 %	64.3 %	64.3 %	64.4 %
EBITDA margin	6.8 %	16.7 %	24.4 %	21.5 %	25.0 %	26.5 %
EBIT margin	-23.5 %	-4.9 %	5.7 %	1.4 %	9.2 %	12.4 %
ROCE	-27.4 %	-3.5 %	3.7 %	0.8 %	5.8 %	6.0 %
EV/sales	3.3	3.1	3.2	2.3	1.7	1.4
EV/EBITDA	48.5	18.4	12.9	10.5	6.8	5.4
EV/EBIT	-14.0	-63.4	55.3	23.3	11.0	7.9
PER	-11.5	-21.0	67.5	55.2	13.9	10.0
Adjusted FCF yield	1.2 %	2.9 %	5.7 %	5.8 %	9.1 %	11.7 %

Source: Company data, H&A Close price as of: 07.01.2020: \*Note: 2016-18 reflect only gamigo AG



Source: Company data, Hauck & Aufhäuser

**High/low 52 weeks:** 1.40 / 1.00

**Price/Book Ratio:** 1.1

**Relative performance** (TecDAX):

3 months 1.6 %

6 months -6.9 %

12 months -

### Changes in estimates

		Sales	EBIT	EPS
2019	old:	70.0	0.9	0.02
	Δ	-	-	-
2020	old:	87.5	8.1	0.08
	Δ	-	-	-
2021	old:	98.0	12.2	0.12
	Δ	-	-	-

### Key share data:

Number of shares: (in m pcs) 90.8

Authorised capital: (in € m) -

Book value per share: (in €) 1.0

Ø trading volume: (12 months) 50,600

### Major shareholders:

Bodhivas GmbH 61.6 %

Free Float 38.4 %

### Company description:

Holding company pursuing a buy and build strategy in media and gaming

## Table of Contents

<b><u>Media and Games Invest plc</u></b>	<b>1</b>
<b><u>Introducing Media and Games Invest plc (MGI)</u></b>	<b>3</b>
<b><u>Quality</u></b>	<b>6</b>
<b><u>Growth</u></b>	<b>8</b>
<b><u>Newsflow</u></b>	<b>13</b>
<b><u>Valuation</u></b>	<b>14</b>
<b><u>Investment risks</u></b>	<b>16</b>
<b><u>Financials</u></b>	<b>17</b>
<b><u>Contacts: Hauck &amp; Aufhäuser Privatbankiers AG</u></b>	<b>28</b>

## Introducing Media and Games Invest plc (MGI)

MGI is a holding company pursuing a buy-and-build strategy within its two segments:

- **Gaming** – Scalable online gaming platform **with a core asset**: 5m monthly active users and a 50m customer list. Strategy is to **monetize this asset** by cross-selling licensed games to existing clients
- **Media** – Software solutions to **win and monetize** mobile gaming users.

### Segment Gaming (FY'21E: 53% of sales)

Key subsidiary gamigo operates an **online gaming platform** with a focus on long-life role plays. Its portfolio comprises 30+ massive multiplayer online games (free to play / in-game purchases) as well as 5,000+ casual games (subscription / advertising), which are either owned or licensed.

Rather than engaging in the risky and expensive development of own games (10% success rate / up to € 50m development costs), gamigo pursues a **strategy of predictable and scalable growth** by:

- Investing to optimize and „milk“ existing games, resulting in a **typical game lifecycle of more than 10 years**.
- Acquiring sub-scale rivals at **accretive multiples** to snatch up their client base and game portfolio, and quickly improve the target's profitability through low-hanging synergies in admin and IT.
- Licensing IP from game developers (20-30% sales fee / no up-front fee), and **cross-sell these games to its existing client base**. While this scalable part of the strategy should be the major growth thrust going forward, it has become possible only recently as gamigo first needed to build critical size.

**Its client base can be seen as gamigo's key asset**, comprising some five million monthly active users as well as a 50 million customer list, explaining gamigo's **strong appeal as a scalable gaming platform** to pure game developers (i.e. from whom it can license IP).

**Its game portfolio is well-diversified**, with the top game „Fiesta“ accounting for some 8% of sales (2018), followed by „Desert Operation“ (7%) and „Aura Kingdom“ (7%). Games are available in up to 18 European languages, and the regional split of gaming revenue is approx. 45% USA, 45% EU and 10% Rest of World.

### Segment Media (FY'21E: 47% of sales)

The Media segment is all about software, mostly for mobile game publishers, **to win and monetize mobile users**. There are three different software solutions / software platforms:

- **Mobile Supply Side Platform** enables app publishers to fill available advertising inventory (i.e. ad space within an app) with advertisements in real-time, and track revenue generated.
- **App Marketing Platform** helps mobile game (or other app) publishers win and maintain high-quality users through carefully placed advertisements (within apps).

# Media and Games Invest plc

- **Influencer Platform** – A marketplace for social marketing involving advertisers / brands and some 70,000 influencers. The latter can look for product placements to monetize their follower base across various social channels (e.g. Instagram, YouTube).

	GAMING	MEDIA
Key subsidiaries		
Company	<p><b>Scalable, international online gaming platform.</b> Focus on long-live MMO role plays. 30+ massive multiplayer online (MMO) games, 5,000+ casual games. <b>Key asset:</b> customer base comprising 5 million monthly active users and a 50 million customer list.</p>  <p>The company also operates a <b>media business</b> focused on mobile user acquisition, activation and retention via influencers / Youtube channels.</p>	<p><b>Software solutions to win and monetize mobile users.</b> (1) Mobile Supply Side Platform to manage ad inventories; (2) App Marketing Platform to win new mobile game users; (3) Influencer Platform for product placements.</p> 
Sales 21E (€ m)	52	46
Sales share	53%	47%
Strategy	<p>Having established <b>critical size</b>, gamigo's scalable online platform is a <b>highly attractive distribution vehicle</b> for pure game developers.</p> <p>Future growth should hence be driven by gamigo licensing third-party game IP, and cross-selling these games to its existing client base.</p> <p>At the same time, existing games should be "milked" and sub-scale rivals bought up at accretive multiples.</p>	<p><b>Capitalize on synergies between the Media and Gaming business:</b> (1) The software platforms can be used by gamigo to win new and monetize existing users for its games; (2) gamigo's ties to various game developers opens up new growth opportunities for ist Media segment.</p>
Revenue generation	<p><b>Revenue is generated through in-game purchases.</b> The typical paying user spends € 60-100 per month on average to increase enjoyment of the game or speed of play. Also, revenue may be generated through subscriptions and advertising.</p>	<p><b>MGI receives a revenue stream from own media assets,</b> either because it creates customer leads or because it integrates products / ads into ist YouTube channels. As well, it may receive agency fees, consulting fees, and a revenue share for third-party ad and media services.</p>
Market position & rivals	<p><b>Niche focus on long-live MMO role plays</b> prevents competition to heavyweights like Activision or Tencent. <b>Leading player with critical size</b> in target market. <b>Active in quasi duopoly</b> only relevant rival with similar scale is Gameforge.</p>	<p>Fragmented market; the typical rival lacks scale. The Media segment serves several hundred clients including e.g. Ubisoft, Electronic Arts, Nintendo, AEG, Sony, and WPP. The software platforms are also used by MGI's gaming business.</p>
Key expenses	<p>gamigo <b>no longer</b> (i.e. since 2013) engages in the expensive and risky development of new games. Rather, it (i) Further develops and "milks" existing games, (ii) Engages in M&amp;A to buy up assets and (iii) Cross-sells licensed games from pure game developers to its client base.</p> <p><b>Key expenses</b> include license fees (20-30% of sales), IT costs to host games (5-10%) and payment costs (12-18%).</p>	<p>There are mostly direct portal, channel and other costs for purchasing media as well as media production.</p>
Sites	<p><b>Headquartered in Hamburg, Germany.</b> More than 500 employees with sites in Germany, Poland, Turkey, the USA, and South Korea.</p>	<p>The Media segment has offices in Berlin, Shanghai, San Francisco, NYC, Sao Paulo, Beijing, Tokyo, Jakarta, Seoul, and others.</p>

Source: Company data, Hauck & Aufhäuser

## There are various synergies between the two segments:

- MGI can use the Media segment to win new and monetize existing users of its Gaming segment.
- Ties to game developers and publishers should help cross-sell the Media Segment's software solutions.
- The same systems and infrastructures are used in the background of both systems.

## MGI: Corporate and Shareholder Structure

### MGI: Corporate Structure with key subsidiaries

---



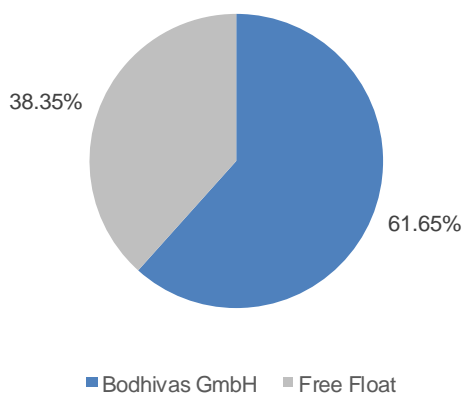
Source: Company data, Hauck & Aufhäuser

**MGI owns roughly 53% of gamigo.** It is currently in negotiations with the other major stakeholders to purchase the remaining 48% minority stake. We expect these discussions to conclude successfully within the coming months. Hence, in this note **we assume 100% ownership of gamigo.**

The 48% stake is expected to cost MGI up to € 40m (eH&A), which should partly be paid in shares. The implied valuation is below the fair value indicated by our DCF model (see chapters *Valuation and Newsflow*), **suggesting the transaction should be value-accretive.**

### MGI: Shareholder Structure

---



Source: Company data, Hauck & Aufhäuser

Bodhivas GmbH is the investment vehicle of MGI CEO Westermann.

### Quality

- **Niche focus** in Gaming prevents competition with heavyweights like Activision or Tencent
- **Low-risk business model:** no own game development
- Focus so far on **building scale** – now ready to **monetize its key asset: a valuable user base**
- **Strategy:** use existing gaming platform and user base to cross-sell licensed games at **high margins**
- **Synergistic business model:** Media technology to help win new and monetize existing gaming users

Within the large global gaming market (\$ 150bn per year), gamigo focuses exclusively on online / browser PC games, and here specifically **on the niches** of long-life MMO role plays, strategy games and shooters thanks to which **it sees little competition with gaming heavyweights** like Tencent or Activision Blizzard.

In this niche, it has managed to **build up critical mass**, a diversified game portfolio and a loyal fan base while strictly adhering to its strategy of **no longer** investing into the risky and expensive development of new games (<10% success rate / up to € 50m development costs). This it achieved through:

- **M&A** - gamigo typically buys **inefficiently managed sub-scale rivals** to get its hands on the game portfolio and customers, and quickly improves profitability through synergies in IT and admin. In the past five years, it thus acquired and successfully integrated more than 20 businesses, **driving market consolidation**.
- Selected further development and cross-marketing of existing own-IP games, **supporting lifecycles of >10 years** per game on average while enabling best-in-class capital efficiency and scalability.

As a result, gamigo today benefits from a distinct **scale advantage** over the remaining smaller players in its target market, which are typically overwhelmed by IT expenses (oftentimes these account for more than 50% of sales vs. 5-10% for gamigo).

Indeed, **there exist few rivals on eye-level**, mostly gameforge, innogames, and goodgames.

In consequence, gamigo is now in a position to enter a **highly profitable harvesting phase by monetizing its key asset:** a client base comprising five million monthly active users and 50 million customer leads in total, built up over recent years. Two main thrusts:

- **Game IP licensing** – gamigo has first and oftentimes exclusive access (i.e. in its core regions) to game IP from e.g. Asian developers, which strongly appreciate its scalable gaming platform providing direct access to multi-million clients in Europe and the USA. The value of this platform is shown by the fact that gamigo can typically keep 70-80% of revenues to itself.
- **Advertising** – Geared towards its 5,000+ casual games, advertising has so far been a limited endeavor but has strong potential considering gamigo's >5 million monthly active users and in-app ad space.

In this regard, **the Media business offers attractive synergies**. Most importantly, gamigo can use the software platforms to win new and monetize

## Media and Games Invest plc

existing gaming users. At the same time, its ties to game developers worldwide should open up new growth opportunities for the Media business.

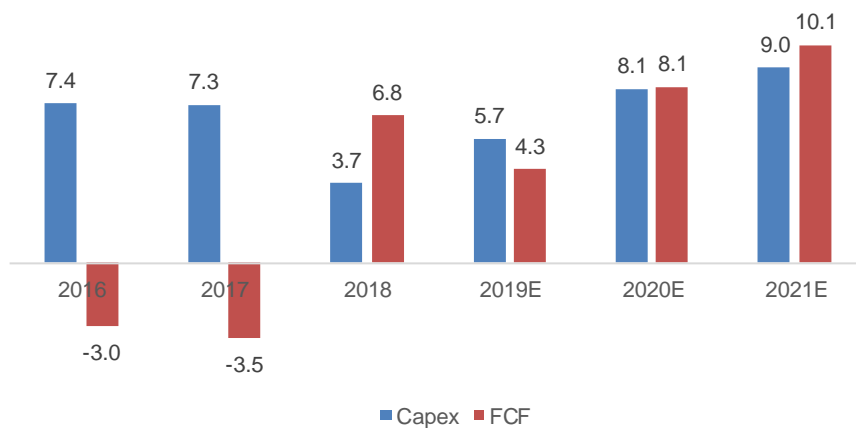
Notably, having acquired three different Media companies in 2019 (PubNative, reachhero and Applift), **MGI is in the process of building scale**, which should present a competitive advantage in a rather fragmented market.

Due to all of this, MGI looks set to enter a **phase of scalable growth** with positive knock-on effects for margins.

Notably, business model scalability should allow for incremental EBITDA margins of up to 40% thanks to economies of scale in IT (volume-based price discounts for computing power & storage) and marketing (cross-selling to existing client base). More proof of **healthy business quality** can be found in:

- **Visibility** – Existing games provide a high share of quasi recurring revenues as they benefit from a loyal user base with strong lifetime revenue: (i) more than 50% of revenue is generated by users who entered the platform >5 years ago; (ii) some 90% of the paying MMO customers are recurring.
- **Diversification** – No single game accounts for more than 10% of sales.
- **Capex and FCF** – The capex cycle should turn favourable as gamigo will focus on licensing games and cross-selling these to its existing user base – a capital light strategy. At the same time, w/c is negative, as payables are largely in-line with receivables, and inventories do not exist. As a result, **we expect FCF generation to reach € 10m by 2021E** (vs. € 7m in 2018).

### Capex and FCF 2016-21E

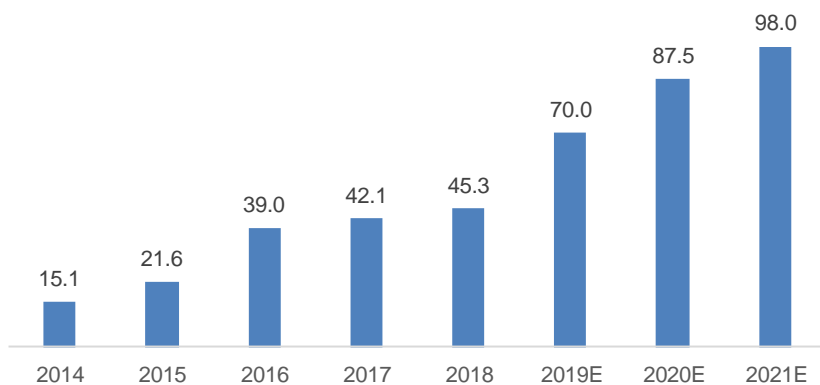


Source: Company data, Hauck & Aufhäuser  
Note: 2016-18 depicts gamigo on a stand-alone basis  
2019E onward reflects consolidated MGI plc

## Growth

- Latest results **instil confidence** in MGI's scalable growth strategy
- **Sales to grow at 29%** (CAGR 18-21E) carried by favourable market backdrop, cross-selling of licensed games, synergies between segments, and M&A
- **EBITDA to rise disproportionately** reflecting business model scalability
- Close to 30% EBITDA margins & 15%+ EBIT margins sustainable as PPA set to subside

### An overview of the trend in sales 2014-21E (pro forma)



Source: Company data, H&A

Note: 2016-2018 depict only the pro forma figures of key subsidiary gamigo  
Consolidated results of MGI plc (holding + Gaming + Media) start from 2019E

### Latest performance: Excellent H1'19

Below we show the H1'19 performance of the Gaming segment (subsidiary gamigo) given that the Media subsidiaries were only acquired in the course of H1'19, and hence contributed very little to results. At the same time, MGI consolidated key gaming subsidiary gamigo only in May 2018, meaning that a year-on-year comparison for MGI is not applicable.

EUR	H 1'19	H 1'18	yoy
<b>Sales</b>	<b>28.4</b>	<b>21.5</b>	32%
<b>EBITDA</b>	<b>8.3</b>	<b>5.2</b>	60%
EBITDA margin	29.2%	24.2%	+5.0 pp
<b>EBIT</b>	<b>3.2</b>	<b>1.3</b>	146%
EBIT margin	11.3%	6.0%	+5.2 pp

Source: Company data, Hauck & Aufhäuser

gamigo showed strong H1 figures, revealing initial benefits of its **strategy to monetize the user base** of its scalable gaming platform (i.e. subsidiary gamigo).

**H1 sales soared by 32% to € 28m** carried by rising revenues from licensed games and supported by M&A (i.e. Trion and WildTangent). Importantly, despite



M&A-related expenses of some € 0.3-0.4m (eH&A), **EBIT more than doubled to € 3.2m** benefitting from economies of scale in IT (i.e. volume-based price discounts from amazon web services) and marketing (i.e. cross-selling licensed games to existing users).

**Results should instill confidence in gamigo's scalable growth strategy** and provide visibility on dynamic growth and margin expansion in 2019E, especially considering that three major game launches are planned for H2, which should accelerate growth.

### Future performance: sales to grow at 29% CAGR 2018-21E

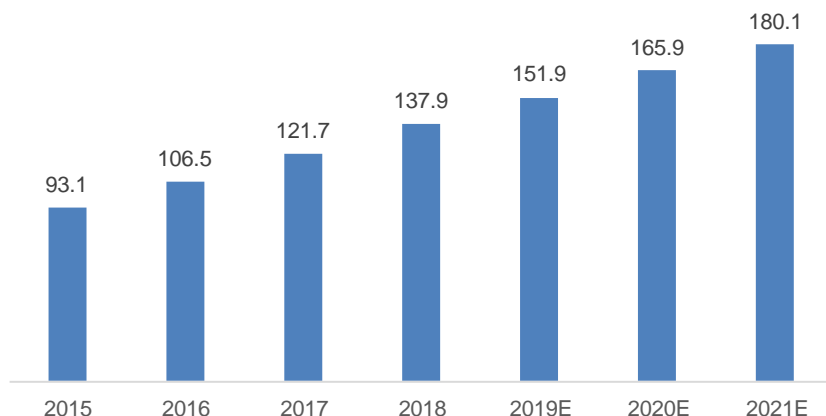
– NB: our growth estimates assume MGI plc will pay € 16m in cash and issue 18m new shares to acquire the remaining 48% stake, and consequently own 100% of gamigo AG. Hence, we do not show gamigo-related minority interest and calculate EPS using a fully diluted share count of 90.8m –

MGI targets two growth markets:

- The global gaming market is expected to **grow at an almost 10% CAGR between 2018 and 2021E** to reach \$ 180bn.
- The worldwide market for digital advertising is worth approx. \$ 300bn in 2019 and **growing at 10% per year**.

### Global games market 2015-21E (USD bn)

---



Source: newzoo

We expect MGI to **outperform market growth** and increase revenues by 29% p.a. to € 98m in the same timeframe. Key growth drivers:

#### (1) User monetisation and synergies

- **Cross-selling licensed games to the existing user base** should be the main growth driver going forward, contributing more than € 6m incremental sales by 2021E, reflecting the strong appeal of gamigo's user base and scalable gaming platform to pure game developers (e.g. from Asia). Major game launches planned for H2'19 are expected support incremental growth in this field.
- **In-game advertising** is seen to contribute incremental sales of more than € 4m by 2021E as gamigo should open up the client base of its 5,000+ casual games to outside parties, which should be willing to pay top dollars to access

the millions of existing users. Here, the monetization tools of the Media segment should support growth.

Meanwhile, investments into the further development of existing games (eH&A: € 4m capitalized R&D p.a. / equal to related annual amortization) should compensate for natural churn, so that revenues from existing games (e.g. Fiesta, Echo of Soul, Desert Operations) are set to **remain roughly constant** in the coming years.

Incremental revenue growth MGI			
€ m	2019E	2020E	2021E
Game licensing	1.4	6.0	6.2
Advertising	0.3	1.5	4.3
M&A	23.0	10.0	0.0

Source: Company data, Hauck & Aufhäuser

### (2) M&A effects

**M&A is set to remain a key pillar of the growth strategy.** Acquired Trion (Q4'18), Applift, PubNative and ReachHero should contribute € 23m to revenues in FY'19E and an incremental € 10m in FY'20E. While we conservatively do not factor in any further M&A, MGI pursues a buy-and-build strategy and should have a short list of small targets available at attractive multiples in its fragmented markets. Additional acquisitions would yield upside to our estimates.

MGI revenue growth 2016-2021E							
€ m	2016	2017	2018	2019E	2020E	2021E	
<b>Sales</b>	<b>39.0</b>	<b>42.1</b>	<b>45.3</b>	<b>70.0</b>	<b>87.5</b>	<b>98.0</b>	
yoy	80%	8%	8%	55%	25%	12%	
<b>Gaming</b>				<b>40.0</b>	<b>46.0</b>	<b>52.2</b>	
yoy				n/a	15%	13%	
in % of sales				57%	53%	53%	
<b>Media</b>				<b>30.0</b>	<b>41.5</b>	<b>45.8</b>	
yoy				n/a	38%	10%	
in % of sales				43%	47%	47%	

Source: Company data, Hauck & Aufhäuser

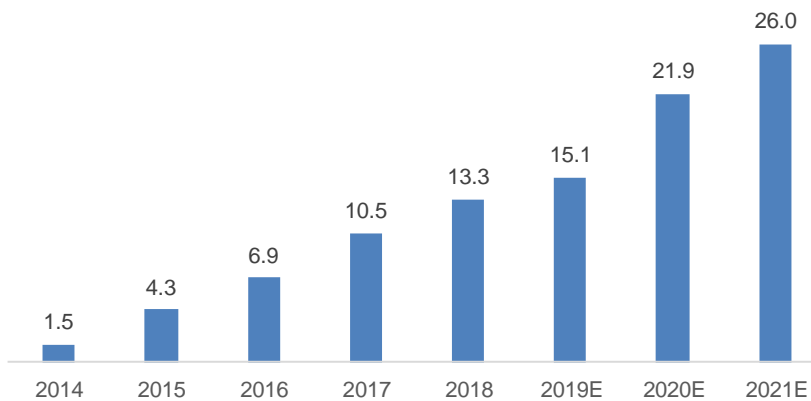
Note: 2016-2018 depict the pro forma figures of subsidiary gamigo  
Consolidated results of MGI plc (holding + gaming + media) start from 2019E

### Disproportionate bottom-line growth carried by scalability and synergies

MGI is expected to report **strongly disproportionate EBITDA growth** of 33% (CAGR 18-21E) to € 26.0m, with the EBITDA margin expanding by 2pp to 26.5% in the same time frame.

#### An overview of the trend in adjusted EBITDA 2014-21E

---



Source: Company data, Hauck & Aufhäuser. EBITDA adjusted for M&A-related one-offs

Note: 2016-2018 depict the pro forma figures of subsidiary gamigo only

Consolidated results of MGI plc start from 2019E

**Key driver should be platform scalability in Gaming (i.e. gamigo).** In fact, when licensing new games, direct costs are seen to relate to IT (5-10%), payment (12-18%) and the developer share (25-30%) while marketing costs should be comparatively low (c. 8%) thanks to the existing client base. At the same time, IT costs are seen to rather move towards the low end (i.e. 5%) as gamigo's growing size should allow for volume-based discounts from cloud providers like AWS / Google.

Next to this, gamigo is seen to have to invest into personnel (e.g. community & product managers) and other operating expenses to accommodate to the growing size of its business, which we conservatively set at 10% of incremental sales.

In Media, MGI is in the process of implementing efficiency measures and capitalizing on synergies between the three core subsidiaries, improving profitability. Further, the software platforms (mobile supply side, influencer, app marketing) should exhibit natural scalability.

In sum, all of this means that MGI should be able to generate **EBITDA margins of up to 40% on incremental sales growth.**

MGI plc: bottom-line growth 2016-2021E							
€ m	2016	2017	2018	2019E	2020E	2021E	
<b>Gross Profit (incl. OWC)</b>	<b>23.8</b>	<b>29.4</b>	<b>31.8</b>	<b>48.2</b>	<b>59.9</b>	<b>66.9</b>	
Gross Margin	61.1%	70.0%	70.3%	68.8%	68.5%	68.3%	
<b>Personnel</b>	<b>10.5</b>	<b>13.9</b>	<b>14.7</b>	<b>19.0</b>	<b>22.3</b>	<b>24.1</b>	
in % of sales	26.9%	33.1%	32.5%	27.1%	25.5%	24.6%	
<b>Other expenses</b>	<b>11.3</b>	<b>10.9</b>	<b>12.7</b>	<b>18.9</b>	<b>21.0</b>	<b>22.5</b>	
in % of sales	29.0%	25.8%	28.1%	27.0%	24.0%	23.0%	
<b>Other income</b>	<b>0.6</b>	<b>2.4</b>	<b>6.7</b>	<b>4.8</b>	<b>5.3</b>	<b>5.7</b>	
in % of sales	15%	5.6%	14.7%	6.8%	6.0%	5.8%	
<b>adjusted EBITDA</b>	<b>6.9</b>	<b>10.5</b>	<b>13.3</b>	<b>17.1</b>	<b>21.9</b>	<b>26.0</b>	
adjusted EBITDA margin	17.7%	25.0%	29.4%	24.4%	25.0%	26.5%	
<b>EBITDA</b>	<b>2.6</b>	<b>7.0</b>	<b>11.1</b>	<b>15.1</b>	<b>21.9</b>	<b>26.0</b>	
EBITDA margin	6.8%	16.7%	24.4%	21.5%	25.0%	26.5%	
<b>D&amp;A</b>	<b>11.8</b>	<b>9.1</b>	<b>8.5</b>	<b>14.1</b>	<b>13.8</b>	<b>13.8</b>	
in % of sales	30.3%	21.6%	18.7%	20.1%	15.8%	14.1%	
<b>EBIT</b>	<b>-9.2</b>	<b>-2.0</b>	<b>2.6</b>	<b>0.9</b>	<b>8.1</b>	<b>12.2</b>	
EBIT margin	n/a	n/a	5.7%	14%	9.2%	12.4%	
Financial result	-2.8	-3.6	-2.1	-4.5	-4.5	-4.5	
Tax result	-2.9	-0.7	-1.1	0.0	0.4	1.1	
tax rate	n/a	n/a	n/a	0%	10%	15%	
Minorities	0.0	0.0	0.1	0.3	0.6	0.7	
<b>Net income</b>	<b>-9.1</b>	<b>-5.0</b>	<b>1.5</b>	<b>-3.9</b>	<b>2.6</b>	<b>5.8</b>	
<b>EPS (fully diluted)</b>	<b>-0.10</b>	<b>-0.05</b>	<b>0.02</b>	<b>-0.04</b>	<b>0.03</b>	<b>0.06</b>	

Source: Company data, Hauck & Aufhäuser

Note: 2016-2018 depict the pro forma figures of subsidiary gamigo  
Consolidated results of MGI plc start from 2019E

Meanwhile, **EBIT is seen to grow even more strongly by 68% to € 12.2m** (CAGR 18-21E) as the business model is not capex-intensive given the focus on licensing (no own development) and software, suggesting D&A should be scaled with higher revenues despite a one-time step-up in amortization due to PPA in 2019E.

Note that we have accounted for an increase in debt to finance the 100% take-over of gamigo, **explaining why the financial result should deteriorate** in 2019E. However, strong FCF generation is seen to ensure quick balance sheet deleveraging in the coming years, improving the financial result from 2019E to 2021E.

At the same time, our EPS calculation assumes **fully diluted share count of 90.8m** versus 67m currently.

The tax rate is expected to remain below its long-term steady state of 30% in the forecasting period thanks to tax loss carryforwards.

### Newsflow

- **Pending gamigo transaction.** In July, MGI increased its shareholding in gamigo to 52.6%, purchasing a 13.8% stake from Axel Springer for an undisclosed amount.

The company is seen to be in discussions with the remaining minority shareholders and is expected to soon announce closing. The total compensation for the remaining 47% stake should be up to € 40m, paid partly in cash and partly in shares (eH&A / included in our model).

The implied valuation for gamigo in these transactions should be **substantially below our fair value** – and hence accretive – as divesting shareholders are looking to streamline their businesses and consider gamigo a non-strategic asset.

At the same time, the deal is set to simplify the corporate structure, as MGI would own 100% of gamigo, erasing a large part of the minorities, and raising the appeal of the entity for institutional investors.

- **A fairly new company just starting IR activity.** MGI in its current form, i.e. with a focus on Gaming and Media, has emerged only in the course of 2018, when it initially consolidated gamigo and acquired the Media subsidiaries. The company is now starting to ramp its IR activity (e.g. broader coverage, more roadshows) to raise awareness amongst institutional investors for the Equity Story, which should drive a positive re-rating of the shares, in our view.

## Valuation

- Our valuation of MGI assumes 100% ownership of gamigo (current: 53%). In return, we model € 53m net debt (2019E) and a fully diluted share count of 90.8m (vs. 67m current share count)
- The DCF model yields a € 1.80 price target based on a 15% LT EBIT margin and 7.5% WACC
- The FCF Yield indicates a fair value of € 1.70 per share for MGI based on halfway 2020/21E

## DCF valuation

Best suited to capture the scalable growth potential of MGI's business model, the DCF model results in a fair value of € 1.80 per share, pointing towards significant upside. Key assumptions include:

- A 15% terminal year EBIT margin, as PPA amortization should subside. This compares to a c. 12.4% EBIT margin expected for FY'21E.
- The long term growth rate is set at 2.0%.
- A WACC of 7.5%, beta of 1.2x and 7.5% cost of borrowing pre tax.
- We have included a fully diluted share count of 90.8m shares and € 53m net debt in our model to account for the acquisition of a 100% stake in gamigo.

DCF (EUR m) (except per share data and beta)	2019E	2020E	2021E	2022E	2023E	2024E	2025E	Terminal value
NOPAT	0.6	6.7	9.7	13.1	12.8	14.3	15.6	13.1
Depreciation	14.1	13.8	13.8	11.3	11.3	11.3	11.1	11.3
Increase/decrease in working capital	-0.5	-0.8	-1.2	0.0	0.0	0.0	0.0	0.0
Increase/decrease in long-term provisions and accruals	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Capex	-5.7	-8.1	-9.0	-9.9	-10.5	-11.0	-11.1	-11.3
Acquisitions	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Capital increase	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Cash flow</b>	<b>8.5</b>	<b>11.6</b>	<b>13.2</b>	<b>14.4</b>	<b>13.5</b>	<b>14.7</b>	<b>15.6</b>	<b>13.1</b>
Present value	8.5	10.8	11.5	11.7	10.2	10.2	10.0	145.8
WACC	7.6%	7.3%	7.3%	7.3%	7.4%	7.4%	7.6%	7.5%

DCF per share derived from	
Total present value	219
thereof terminal value	67%
Net debt (net cash) at start of year	53
Financial assets	2
Provisions and off balance sheet debt	6
Equity value	161
No. of shares outstanding	90.8
<b>Discounted cash flow per share</b>	<b>1.8</b>
<b>upside/(downside)</b>	<b>54%</b>

DCF avg. growth and earnings assumptions	
Short term growth (2018-2021)	29.3%
Medium term growth (2021 - 2025)	7.5%
Long term growth (2025 - infinity)	2.0%
Terminal year EBIT margin	15.0%

WACC derived from	
Cost of borrowings before taxes	7.5%
Tax rate	30.0%
Cost of borrowings after taxes	5.7%
Required return on invested capital	7.6%
Risk premium	5.5%
Risk-free rate	1.0%
Beta	1.2

Share price	1.15
-------------	------

Sensitivity analysis DCF		Long term growth				
		0%	1.0%	2.0%	2.5%	3.0%
WACC	9.5%	1.0	1.1	1.2	1.3	1.4
	8.5%	1.1	1.2	1.4	1.6	1.7
	7.5%	1.3	1.5	1.8	1.9	2.2
	6.5%	1.6	1.8	2.3	2.5	2.9
	5.5%	1.9	2.4	3.0	3.6	4.3

Sensitivity analysis DCF		EBIT margin terminal year				
		13.0%	14.0%	15.0%	16.0%	17.0%
WACC	9.5%	1.1	1.1	1.2	1.3	1.3
	8.5%	1.3	1.3	1.4	1.5	1.6
	7.5%	1.5	1.7	1.8	1.9	2.0
	6.5%	2.0	2.1	2.3	2.4	2.6
	5.5%	2.6	2.8	3.0	3.3	3.5

Source: Company data, Hauck & Aufhäuser

## FCF Yield valuation

The adjusted FCF yield fully supports the DCF, **yielding a fair value for MGI plc of € 1.70** based on halfway 2020/21E, with further upside to € 2.00 on 2021E estimates.

Our estimates once again include the dilutive effect from the gamigo acquisition as well as € 53m total net debt 2019E.

FCF yield, year end Dec. 31	2019E	2020E	halfway 20/21E	2021E	
<b>EBITDA</b>	<b>15.1</b>	<b>21.9</b>	<b>23.9</b>	<b>26.0</b>	
- Maintenance capex	5.7	7.5	7.8	8.0	
- tax expenses	0.0	0.4	0.8	1.1	
<b>= Adjusted Free Cash Flow</b>	<b>9.0</b>	<b>13.4</b>	<b>14.8</b>	<b>16.1</b>	
<b>Actual Market Cap</b>	<b>104.4</b>	<b>104.4</b>	<b>104.4</b>	<b>104.4</b>	
+Net debt (cash)	53.2	45.0	39.9	34.9	
- Financial assets	-18	-18	-1.8	-1.8	
<i>EV Reconciliations</i>	514	432	38.1	33.1	
<b>= Actual EV'</b>	<b>155.8</b>	<b>147.6</b>	<b>142.5</b>	<b>137.5</b>	
<b>Adjusted Free Cash Flow yield</b>	<b>5.8%</b>	<b>9.1%</b>	<b>10.4%</b>	<b>11.7%</b>	
<b>Sales</b>	<b>70.0</b>	<b>87.5</b>	<b>92.8</b>	<b>98.0</b>	
Actual EV/sales	2.2x	1.7x	1.5x	1.4x	
Hurdle rate	7.5%	7.5%	7.5%	7.5%	
FCF margin	12.9%	15.3%	15.9%	16.5%	
Fair EV/sales	1.7x	2.0x	2.1x	2.2x	
<b>Fair EV</b>	<b>120.5</b>	<b>178.8</b>	<b>197.0</b>	<b>215.2</b>	
- <i>EV Reconciliations</i>	514	432	38.1	33.1	
<b>Fair Market Cap</b>	<b>69.1</b>	<b>135.6</b>	<b>158.9</b>	<b>182.1</b>	
No. of shares (million)	90.8	90.8	90.8	90.8	
<b>Fair value per share</b>	<b>0.8</b>	<b>1.5</b>	<b>1.7</b>	<b>2.0</b>	
<b>Premium (-) / discount (+) in %</b>	<b>-33.8%</b>	<b>29.9%</b>	<b>52.1%</b>	<b>74.4%</b>	
<b>Sensitivity analysis fair value</b>					
	5.0%	14	2.5	2.8	3.2
<b>Hurdle rate</b>	7.5%	0.8	1.5	1.7	2.0
	10.0%	0.4	1.0	1.2	1.4
	12.5%	0.2	0.7	0.9	1.1

Source: Company data, Hauck & Aufhäuser

### Investment risks

- MGI may not be able to reach an agreement with gamigo's minority shareholders, which would hurt the appeal of the investment case.
- Churn amongst existing games may accelerate if further development is neglected or not geared towards users' wishes.
- Larger MMO (massive multiplayer online) rivals may focus more strongly on gamigo's niche of PC- / browser-based long-live role plays.



## Financials

Profit and loss (EUR m)	2016	2017	2018	2019E	2020E	2021E
<b>Net sales</b>	<b>39.0</b>	<b>42.1</b>	<b>45.3</b>	<b>70.0</b>	<b>87.5</b>	<b>98.0</b>
Sales growth	80.4 %	8.0 %	7.6 %	54.6 %	25.0 %	12.0 %
Increase/decrease in finished goods and work-in-process	2.2	3.6	4.2	4.9	5.7	5.9
<b>Total sales</b>	<b>41.1</b>	<b>45.7</b>	<b>49.5</b>	<b>74.9</b>	<b>93.2</b>	<b>103.9</b>
Other operating income	0.6	2.4	6.7	4.8	5.3	5.7
Material expenses	17.3	16.2	17.6	26.7	33.3	36.9
Personnel expenses	10.5	13.9	14.7	19.0	22.3	24.1
Other operating expenses	11.3	10.9	12.7	18.9	21.0	22.5
Total operating expenses	38.5	38.6	38.4	59.9	71.3	77.9
<b>EBITDA</b>	<b>2.6</b>	<b>7.0</b>	<b>11.1</b>	<b>15.1</b>	<b>21.9</b>	<b>26.0</b>
Depreciation	1.1	0.7	1.5	1.3	1.3	1.3
<b>EBITA</b>	<b>1.6</b>	<b>6.3</b>	<b>9.6</b>	<b>13.8</b>	<b>20.6</b>	<b>24.7</b>
Amortisation of goodwill	0.0	0.0	0.0	0.0	0.0	0.0
Amortisation of intangible assets	10.8	8.4	7.0	12.8	12.5	12.5
Impairment charges	0.0	0.0	0.0	0.0	0.0	0.0
<b>EBIT (inc revaluation net)</b>	<b>-9.2</b>	<b>-2.0</b>	<b>2.6</b>	<b>0.9</b>	<b>8.1</b>	<b>12.2</b>
Interest income	0.0	0.1	0.0	0.0	0.0	0.0
Interest expenses	1.9	2.4	2.1	4.6	4.6	4.6
Other financial result	0.9	1.3	0.0	0.0	0.0	0.0
Financial result	-2.8	-3.6	-2.1	-4.5	-4.5	-4.5
<b>Recurring pretax income from continuing operations</b>	<b>-12.0</b>	<b>-5.7</b>	<b>0.5</b>	<b>-3.6</b>	<b>3.5</b>	<b>7.6</b>
Extraordinary income/loss	0.0	0.0	0.0	0.0	0.0	0.0
<b>Earnings before taxes</b>	<b>-12.0</b>	<b>-5.7</b>	<b>0.5</b>	<b>-3.6</b>	<b>3.5</b>	<b>7.6</b>
Taxes	-2.9	-0.7	-1.1	0.0	0.4	1.1
<b>Net income from continuing operations</b>	<b>-9.1</b>	<b>-5.0</b>	<b>1.6</b>	<b>-3.6</b>	<b>3.2</b>	<b>6.5</b>
Result from discontinued operations (net of tax)	0.0	0.0	0.0	0.0	0.0	0.0
<b>Net income</b>	<b>-9.1</b>	<b>-5.0</b>	<b>1.6</b>	<b>-3.6</b>	<b>3.2</b>	<b>6.5</b>
Minority interest	0.0	0.0	0.1	0.3	0.6	0.7
<b>Net profit (reported)</b>	<b>-9.1</b>	<b>-5.0</b>	<b>1.5</b>	<b>-3.9</b>	<b>2.6</b>	<b>5.8</b>
Average number of shares	90.8	90.8	90.8	90.8	90.8	90.8
<b>EPS reported</b>	<b>-0.10</b>	<b>-0.05</b>	<b>0.02</b>	<b>-0.04</b>	<b>0.03</b>	<b>0.06</b>

Profit and loss (common size)	2016	2017	2018	2019E	2020E	2021E
<b>Net sales</b>	<b>100.0 %</b>	<b>100.0 %</b>	<b>100.0 %</b>	<b>100.0 %</b>	<b>100.0 %</b>	<b>100.0 %</b>
Increase/decrease in finished goods and work-in-process	5.5 %	8.5 %	9.2 %	7.0 %	6.5 %	6.0 %
<b>Total sales</b>	<b>105.5 %</b>	<b>108.5 %</b>	<b>109.2 %</b>	<b>107.0 %</b>	<b>106.5 %</b>	<b>106.0 %</b>
Other operating income	1.5 %	5.6 %	14.7 %	6.8 %	6.0 %	5.8 %
Material expenses	44.4 %	38.6 %	38.9 %	38.2 %	38.0 %	37.7 %
Personnel expenses	26.9 %	33.1 %	32.5 %	27.1 %	25.5 %	24.6 %
Other operating expenses	29.0 %	25.8 %	28.1 %	27.0 %	24.0 %	23.0 %
Total operating expenses	98.8 %	91.8 %	84.8 %	85.5 %	81.5 %	79.5 %
<b>EBITDA</b>	<b>6.8 %</b>	<b>16.7 %</b>	<b>24.4 %</b>	<b>21.5 %</b>	<b>25.0 %</b>	<b>26.5 %</b>
Depreciation	2.7 %	1.7 %	3.3 %	1.9 %	1.5 %	1.3 %
<b>EBITA</b>	<b>4.1 %</b>	<b>15.0 %</b>	<b>21.1 %</b>	<b>19.6 %</b>	<b>23.5 %</b>	<b>25.2 %</b>
Amortisation of goodwill	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
Amortisation of intangible assets	27.6 %	19.8 %	15.4 %	18.3 %	14.3 %	12.8 %
Impairment charges	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
<b>EBIT (inc revaluation net)</b>	<b>neg.</b>	<b>neg.</b>	<b>5.7 %</b>	<b>1.4 %</b>	<b>9.2 %</b>	<b>12.4 %</b>
Interest income	0.1 %	0.1 %	0.0 %	0.0 %	0.0 %	0.0 %
Interest expenses	4.9 %	5.6 %	4.7 %	6.5 %	5.2 %	4.7 %
Other financial result	2.4 %	3.1 %	0.0 %	0.0 %	0.0 %	0.0 %
Financial result	neg.	neg.	neg.	neg.	neg.	neg.
<b>Recurring pretax income from continuing operations</b>	<b>neg.</b>	<b>neg.</b>	<b>1.1 %</b>	<b>neg.</b>	<b>4.1 %</b>	<b>7.8 %</b>
Extraordinary income/loss	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
<b>Earnings before taxes</b>	<b>neg.</b>	<b>neg.</b>	<b>1.1 %</b>	<b>neg.</b>	<b>4.1 %</b>	<b>7.8 %</b>
Tax rate	24.3 %	11.9 %	-229.8 %	0.0 %	10.0 %	15.0 %
<b>Net income from continuing operations</b>	<b>neg.</b>	<b>neg.</b>	<b>3.6 %</b>	<b>neg.</b>	<b>3.6 %</b>	<b>6.6 %</b>
Income from discontinued operations (net of tax)	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
<b>Net income</b>	<b>neg.</b>	<b>neg.</b>	<b>3.6 %</b>	<b>neg.</b>	<b>3.6 %</b>	<b>6.6 %</b>
Minority interest	0.1 %	neg.	0.2 %	0.5 %	0.7 %	0.7 %
<b>Net profit (reported)</b>	<b>neg.</b>	<b>neg.</b>	<b>3.4 %</b>	<b>neg.</b>	<b>2.9 %</b>	<b>5.9 %</b>

Source: Company data, Hauck & Aufhäuser

Balance sheet (EUR m)	2016	2017	2018	2019E	2020E	2021E
<b>Intangible assets</b>	<b>51.1</b>	<b>47.5</b>	<b>67.6</b>	<b>168.3</b>	<b>162.8</b>	<b>158.1</b>
Property, plant and equipment	2.3	1.7	4.2	3.7	3.5	3.4
Financial assets	1.7	0.5	1.8	1.8	1.8	1.8
<b>FIXED ASSETS</b>	<b>55.2</b>	<b>49.6</b>	<b>73.6</b>	<b>173.8</b>	<b>168.1</b>	<b>163.3</b>
Inventories	0.0	0.0	0.0	0.0	0.0	0.0
Accounts receivable	4.9	4.9	6.3	11.5	14.4	16.1
Other current assets	2.5	4.1	1.6	1.6	1.6	1.6
Liquid assets	2.8	1.0	4.2	22.8	31.0	41.1
Deferred taxes	7.5	7.1	8.1	8.1	8.1	8.1
Deferred charges and prepaid expenses	0.0	0.0	0.0	0.0	0.0	0.0
<b>CURRENT ASSETS</b>	<b>17.7</b>	<b>17.2</b>	<b>20.2</b>	<b>44.1</b>	<b>55.1</b>	<b>67.0</b>
<b>TOTAL ASSETS</b>	<b>72.9</b>	<b>66.8</b>	<b>93.8</b>	<b>217.9</b>	<b>223.2</b>	<b>230.2</b>
SHAREHOLDERS EQUITY	31.9	26.8	28.6	94.7	97.3	103.1
MINORITY INTEREST	0.0	-0.1	-0.1	20.0	20.0	20.0
Long-term debt	25.4	19.3	42.8	76.0	76.0	76.0
Provisions for pensions and similar obligations	n/a	0.0	0.0	0.0	0.0	0.0
Other provisions	4.3	3.0	6.5	6.5	6.5	6.5
<b>Non-current liabilities</b>	<b>29.7</b>	<b>22.3</b>	<b>49.2</b>	<b>82.4</b>	<b>82.4</b>	<b>82.4</b>
short-term liabilities to banks	0.9	7.0	0.0	0.0	0.0	0.0
Accounts payable	6.8	7.2	8.7	13.5	15.6	16.1
Advance payments received on orders	0.0	0.0	0.0	0.0	0.0	0.0
Other liabilities (incl. from lease and rental contracts)	2.5	3.4	5.5	5.5	5.5	5.5
Deferred taxes	1.0	0.2	1.8	1.8	2.4	3.1
Deferred income	0.0	0.0	0.0	0.0	0.0	0.0
<b>Current liabilities</b>	<b>11.2</b>	<b>17.7</b>	<b>16.1</b>	<b>20.8</b>	<b>23.5</b>	<b>24.7</b>
<b>TOTAL LIABILITIES AND SHAREHOLDERS EQUITY</b>	<b>72.9</b>	<b>66.8</b>	<b>93.8</b>	<b>217.9</b>	<b>223.2</b>	<b>230.2</b>

Balance sheet (common size)	2016	2017	2018	2019E	2020E	2021E
<b>Intangible assets</b>	<b>70.1 %</b>	<b>71.1 %</b>	<b>72.1 %</b>	<b>77.2 %</b>	<b>72.9 %</b>	<b>68.7 %</b>
Property, plant and equipment	3.2 %	2.5 %	4.5 %	1.7 %	1.6 %	1.5 %
Financial assets	2.4 %	0.7 %	1.9 %	0.8 %	0.8 %	0.8 %
<b>FIXED ASSETS</b>	<b>75.7 %</b>	<b>74.3 %</b>	<b>78.5 %</b>	<b>79.8 %</b>	<b>75.3 %</b>	<b>70.9 %</b>
Inventories	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
Accounts receivable	6.7 %	7.3 %	6.7 %	5.3 %	6.4 %	7.0 %
Other current assets	3.5 %	6.2 %	1.8 %	0.8 %	0.7 %	0.7 %
Liquid assets	3.8 %	1.5 %	4.4 %	10.5 %	13.9 %	17.9 %
Deferred taxes	10.3 %	10.7 %	8.7 %	3.7 %	3.6 %	3.5 %
Deferred charges and prepaid expenses	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
<b>CURRENT ASSETS</b>	<b>24.3 %</b>	<b>25.7 %</b>	<b>21.5 %</b>	<b>20.2 %</b>	<b>24.7 %</b>	<b>29.1 %</b>
<b>TOTAL ASSETS</b>	<b>100.0 %</b>	<b>100.0 %</b>	<b>100.0 %</b>	<b>100.0 %</b>	<b>100.0 %</b>	<b>100.0 %</b>
SHAREHOLDERS EQUITY	43.8 %	40.2 %	30.5 %	43.5 %	43.6 %	44.8 %
MINORITY INTEREST	neg.	neg.	neg.	9.2 %	9.0 %	8.7 %
Long-term debt	34.9 %	28.9 %	45.6 %	34.9 %	34.0 %	33.0 %
Provisions for pensions and similar obligations	n/a	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
Other provisions	5.9 %	4.5 %	6.9 %	3.0 %	2.9 %	2.8 %
<b>Non-current liabilities</b>	<b>40.8 %</b>	<b>33.4 %</b>	<b>52.5 %</b>	<b>37.8 %</b>	<b>36.9 %</b>	<b>35.8 %</b>
short-term liabilities to banks	1.3 %	10.4 %	0.0 %	0.0 %	0.0 %	0.0 %
Accounts payable	9.3 %	10.8 %	9.3 %	6.2 %	7.0 %	7.0 %
Advance payments received on orders	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
Other liabilities (incl. from lease and rental contracts)	3.4 %	5.0 %	5.9 %	2.5 %	2.5 %	2.4 %
Deferred taxes	1.4 %	0.3 %	1.9 %	0.8 %	1.1 %	1.3 %
Deferred income	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
<b>Current liabilities</b>	<b>15.4 %</b>	<b>26.6 %</b>	<b>17.1 %</b>	<b>9.5 %</b>	<b>10.5 %</b>	<b>10.7 %</b>
<b>TOTAL LIABILITIES AND SHAREHOLDERS EQUITY</b>	<b>100.0 %</b>	<b>100.0 %</b>	<b>100.0 %</b>	<b>100.0 %</b>	<b>100.0 %</b>	<b>100.0 %</b>

Source: Company data, Hauck & Aufhäuser

Cash flow statement (EUR m)	2016	2017	2018	2019E	2020E	2021E
Net profit/loss	-9.1	-5.0	1.6	-3.6	3.2	6.5
Depreciation of fixed assets (incl. leases)	1.1	0.7	1.5	1.3	1.3	1.3
Amortisation of goodwill	0.0	0.0	0.0	0.0	0.0	0.0
Amortisation of intangible assets	10.8	8.4	7.0	12.8	12.5	12.5
Others	-1.2	0.7	0.3	0.0	0.0	0.0
Cash flow from operations before changes in w/c	1.5	4.8	10.4	10.5	17.0	20.3
Increase/decrease in inventory	0.0	0.0	0.0	0.0	0.0	0.0
Increase/decrease in accounts receivable	2.2	0.6	-1.4	-5.2	-2.9	-1.7
Increase/decrease in accounts payable	0.7	-1.6	1.5	4.8	2.1	0.5
Increase/decrease in other working capital positions	0.0	0.0	0.0	0.0	0.0	0.0
Increase/decrease in working capital	2.9	-1.0	0.1	-0.5	-0.8	-1.2
<b>Cash flow from operating activities</b>	<b>4.4</b>	<b>3.8</b>	<b>10.5</b>	<b>10.0</b>	<b>16.2</b>	<b>19.1</b>
CAPEX	7.4	7.3	3.7	5.7	8.1	9.0
Payments for acquisitions	-6.3	2.2	3.5	28.0	0.0	0.0
Financial investments	0.6	0.0	0.0	0.0	0.0	0.0
Income from asset disposals	0.0	0.7	0.8	0.0	0.0	0.0
<b>Cash flow from investing activities</b>	<b>-1.7</b>	<b>-8.7</b>	<b>-6.3</b>	<b>-33.7</b>	<b>-8.1</b>	<b>-9.0</b>
Cash flow before financing	2.7	-4.9	4.1	-23.7	8.1	10.1
Increase/decrease in debt position	-0.2	0.0	5.2	33.2	0.0	0.0
Purchase of own shares	0.0	0.0	0.0	0.0	0.0	0.0
Capital measures	0.0	0.0	0.0	9.2	0.0	0.0
Dividends paid	0.0	0.0	0.0	0.0	0.0	0.0
Others	-1.1	-0.8	-1.5	0.0	0.0	0.0
Effects of exchange rate changes on cash	0.0	0.0	0.2	0.0	0.0	0.0
<b>Cash flow from financing activities</b>	<b>-1.2</b>	<b>-0.9</b>	<b>3.8</b>	<b>42.4</b>	<b>0.0</b>	<b>0.0</b>
Increase/decrease in liquid assets	1.5	-5.8	8.1	18.7	8.1	10.1
<b>Liquid assets at end of period</b>	<b>1.9</b>	<b>3.9</b>	<b>4.2</b>	<b>22.8</b>	<b>31.0</b>	<b>41.1</b>

Source: Company data, Hauck & Aufhäuser

Regional split (EUR m)	2016	2017	2018	2019E	2020E	2021E
Domestic	n/a	n/a	n/a	n/a	n/a	n/a
yoy change	n/a	n/a	n/a	n/a	n/a	n/a
Rest of Europe	19.5	21.0	22.6	35.0	43.8	49.0
yoy change	80.4 %	8.0 %	7.6 %	54.6 %	25.0 %	12.0 %
NAFTA	19.5	21.0	22.6	35.0	43.8	49.0
yoy change	80.4 %	8.0 %	7.6 %	54.6 %	25.0 %	12.0 %
Asia Pacific	n/a	n/a	n/a	n/a	n/a	n/a
yoy change	n/a	n/a	n/a	n/a	n/a	n/a
Rest of world	n/a	n/a	n/a	n/a	n/a	n/a
yoy change	n/a	n/a	n/a	n/a	n/a	n/a
<b>TTL</b>	<b>39.0</b>	<b>42.1</b>	<b>45.3</b>	<b>70.0</b>	<b>87.5</b>	<b>98.0</b>
yoy change	80.4 %	8.0 %	7.6 %	54.6 %	25.0 %	12.0 %

Source: Company data, Hauck & Aufhäuser

Key ratios (EUR m)	2016	2017	2018	2019E	2020E	2021E
<b>P&amp;L growth analysis</b>						
Sales growth	80.4 %	8.0 %	7.6 %	54.6 %	25.0 %	12.0 %
EBITDA growth	-38.7 %	166.8 %	319.2 %	113.9 %	97.9 %	72.6 %
EBIT growth	-313.2 %	-77.7 %	-128.2 %	-146.4 %	212.3 %	1181.1 %
EPS growth	-312.1 %	-45.4 %	-117.0 %	-21.5 %	66.5 %	-248.7 %
<b>Efficiency</b>						
Total operating costs / sales	98.8 %	91.8 %	84.8 %	85.5 %	81.5 %	79.5 %
Sales per employee	129.9	116.6	132.4	196.8	250.2	274.7
EBITDA per employee	8.8	19.5	32.3	42.3	62.5	72.8
<b>Balance sheet analysis</b>						
Avg. working capital / sales	neg.	neg.	neg.	neg.	neg.	neg.
Inventory turnover (sales/inventory)	0.0	0.0	0.0	0.0	0.0	0.0
Trade debtors in days of sales	45.7	42.4	50.6	60.0	60.0	60.0
A/P turnover [(A/P*365)/sales]	63.5	62.6	70.4	70.4	65.0	60.0
Cash conversion cycle (days)	n/a	n/a	n/a	n/a	n/a	n/a
<b>Cash flow analysis</b>						
Free cash flow	-3.0	-3.5	6.8	4.3	8.1	10.1
Free cash flow/sales	-7.6 %	-8.3 %	15.0 %	6.1 %	9.3 %	10.3 %
FCF / net profit	neg.	neg.	439.7 %	neg.	315.9 %	173.5 %
Capex / depre	67.4 %	80.4 %	43.4 %	40.7 %	58.3 %	65.3 %
Capex / maintenance capex	n/a	9.2 %	0.0 %	14.7 %	14.0 %	14.7 %
Capex / sales	n/a	n/a	n/a	n/a	n/a	n/a
<b>Security</b>						
Net debt	23.6	25.3	38.6	53.2	45.0	34.9
Net Debt/EBITDA	8.9	3.6	3.5	3.5	2.1	1.3
Net debt / equity	0.7	0.9	1.4	0.6	0.5	0.3
Interest cover	0.0	0.0	1.2	0.2	1.8	2.7
Dividend payout ratio	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
<b>Asset utilisation</b>						
Capital employed turnover	0.6	0.8	0.6	0.4	0.4	0.5
Operating assets turnover	90.0	-65.8	26.2	40.5	38.4	29.2
Plant turnover	16.7	24.9	10.8	18.8	25.2	29.2
Inventory turnover (sales/inventory)	0.0	0.0	0.0	0.0	0.0	0.0
<b>Returns</b>						
ROCE	-27.4 %	-3.5 %	3.7 %	0.8 %	5.8 %	6.0 %
ROE	-28.6 %	-18.6 %	5.4 %	-4.1 %	2.6 %	5.6 %
<b>Other</b>						
Interest paid / avg. debt	7.3 %	9.0 %	6.1 %	8.9 %	7.7 %	6.0 %
No. employees (average)	300	361	342	356	350	357
Number of shares	90.8	90.8	90.8	90.8	90.8	90.8
DPS	0.0	0.0	0.0	0.0	0.0	0.0
EPS reported	-0.10	-0.05	0.02	-0.04	0.03	0.06
<b>Valuation ratios</b>						
P/BV	3.3	3.9	3.7	1.1	1.1	1.0
EV/sales	3.3	3.1	3.2	2.3	1.7	1.4
EV/EBITDA	48.5	18.4	12.9	10.5	6.8	5.4
EV/EBITA	80.8	20.6	15.0	11.5	7.3	5.6
EV/EBIT	-14.0	-63.4	55.3	23.3	11.0	7.9
EV/FCF	-43.2	-37.0	21.0	36.6	18.3	13.8
Adjusted FCF yield	1.2 %	2.9 %	5.7 %	5.8 %	9.1 %	11.7 %
Dividend yield	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

Source: Company data, Hauck & Aufhäuser

## Disclosures regarding research publications of Hauck & Aufhäuser Privatbankiers AG pursuant to section 85 of the German Securities Trading Act (WpHG) and distributed in the UK under an EEA branch passport, subject to the FCA requirements on research recommendation disclosures

It is essential that any research recommendation is fairly presented and discloses interests of indicates relevant conflicts of interest. Pursuant to section 85 of the German Securities Trading Act (WpHG) a research report has to point out possible conflicts of interest in connection with the analysed company. Further to this, under the FCA's rules on research recommendations, any conflicts of interest in connection with the recommendation must be disclosed. A conflict of interest is presumed to exist in particular if Hauck & Aufhäuser Privatbankiers AG

- (1) or its affiliate(s) (either in its own right or as part of a consortium) within the past twelve months, acquired the financial instruments of the analysed company,
- (2) has entered into an agreement on the production of the research report with the analysed company,
- (3) or its affiliate(s) has, within the past twelve months, been party to an agreement on the provision of investment banking services with the analysed company or have received services or a promise of services under the term of such an agreement,
- (4) or its affiliate(s) holds a) 5% or more of the share capital of the analysed company, or b) the analysed company holds 5% or more of the share capital of Hauck & Aufhäuser Privatbankiers AG or its affiliate(s),
- (5) or its affiliate(s) holds a net long (a) or a net short (b) position of 0.5% of the outstanding share capital of the analysed company or derivatives thereof,
- (6) or its affiliate(s) is a market maker or liquidity provider in the financial instruments of the issuer,
- (7) or the analyst has any other significant financial interests relating to the analysed company such as, for example, exercising mandates in the interest of the analysed company or a significant conflict of interest with respect to the issuer,
- (8) The research report has been made available to the company prior to its publication. Thereafter, only factual changes have been made to the report.

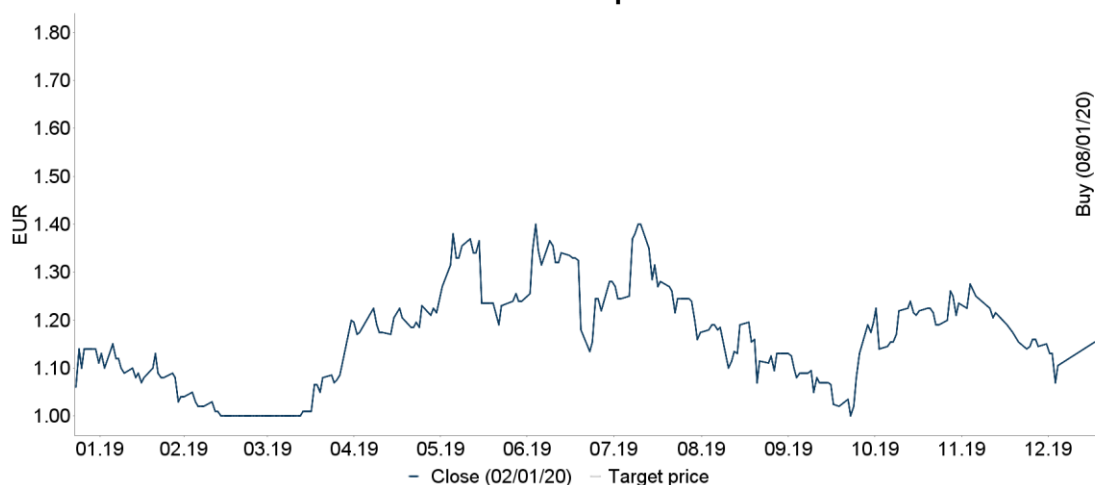
### Conflicts of interest that existed at the time when this research report was published:

Company	Disclosure
Media and Games Invest plc	2, 3, 6, 8

### Historical target price and rating changes for Media and Games Invest plc in the last 12 months

#### Price and Rating History Media and Games Invest plc as of 07/01/20

**Initiation coverage**  
08-January-20



Company	Date	Analyst	Rating	Target price	Close
---------	------	---------	--------	--------------	-------

### Hauck & Aufhäuser distribution of ratings and in proportion to investment banking services

<b>Buy</b>	65.41 %	75.00 %
<b>Sell</b>	11.32 %	5.00 %
<b>Hold</b>	23.27 %	20.00 %

Date of publication creation: 08/01/2020 08:00 AM

Date of publication dissemination: 08/01/2020 08:03 AM

## 1. General Information/Liabilities

This research report has been produced for the information purposes of institutional investors only, and is not in any way a personal recommendation, offer or solicitation to buy or sell the financial instruments mentioned herein. The document is confidential and is made available by Hauck & Aufhäuser Privatbankiers AG, exclusively to selected recipients [in DE, GB, FR, CH, US, UK, Scandinavia, and Benelux or, in individual cases, also in other countries]. A distribution to private investors in the sense of the German Securities Trading Act (WpHG) is excluded. It is not allowed to pass the research report on to persons other than the intended recipient without the permission of Hauck & Aufhäuser Privatbankiers AG. Reproduction of this document, in whole or in part, is not permitted without prior permission Hauck & Aufhäuser Privatbankiers AG. All rights reserved.

Under no circumstances shall Hauck & Aufhäuser Privatbankiers AG, any of its employees involved in the preparation, have any liability for possible errors or incompleteness of the information included in this research report – neither in relation to indirect or direct nor consequential damages. Liability for damages arising either directly or as a consequence of the use of information, opinions and estimates is also excluded. Past performance of a financial instrument is not necessarily indicative of future performance.

## 2. Responsibilities

This research report was prepared by the research analyst named on the front page (the "Producer"). The Producer is solely responsible for the views and estimates expressed in this report. The report has been prepared independently. The content of the research report was not influenced by the issuer of the analysed financial instrument at any time. It may be possible that parts of the research report were handed out to the issuer for information purposes prior to the publication without any major amendments being made thereafter.

## 3. Organisational Requirements

Hauck & Aufhäuser Privatbankiers AG took internal organisational and regulative precautions to avoid or accordingly disclose possible conflicts of interest in connection with the preparation and distribution of the research report. All members of Hauck & Aufhäuser Privatbankiers AG involved in the preparation of the research report are subject to internal compliance regulations. No part of the Producer's compensation is directly or indirectly related to the preparation of this financial analysis. In case a research analyst or a closely related person is confronted with a conflict of interest, the research analyst is restricted from covering this company.

## 4. Information Concerning the Methods of Valuation/Update

The determination of the fair value per share, i.e. the price target, and the resultant rating is done on the basis of the adjusted free cash flow (adj. FCF) method and on the basis of the discounted cash flow – DCF model. Furthermore, a peer group comparison is made.

The adj. FCF method is based on the assumption that investors purchase assets only at a price (enterprise value) at which the operating cash flow return after taxes on this investment exceeds their opportunity costs in the form of a hurdle rate of 7.5%. The operating cash flow is calculated as EBITDA less maintenance capex and taxes.

Within the framework of the DCF approach, the future free cash flows are calculated initially on the basis of a fictitious capital structure of 100% equity, i.e. interest and repayments on debt capital are not factored in initially. The adjustment towards the actual capital structure is done by discounting the calculated free cash flows with the weighted average cost of capital (WACC), which takes into account both the cost of equity capital and the cost of debt. After discounting, the calculated total enterprise value is reduced by the interest-bearing debt capital in order to arrive at the equity value.

Hauck & Aufhäuser Privatbankiers AG uses the following three-step rating system for the analysed companies:

Buy: Sustainable upside potential of more than 10% within 12 months  
Sell: Sustainable downside potential of more than 10% within 12 months.  
Hold: Upside/downside potential is limited. No immediate catalyst visible.

NB: The ratings of Hauck & Aufhäuser Privatbankiers AG are not based on a performance that is expected to be "relative" to the market.

The decision on the choice of the financial instruments analysed in this document was solely made by Hauck & Aufhäuser Privatbankiers AG. The opinions and estimates in this research report are subject to change without notice. It is within the discretion of Hauck & Aufhäuser Privatbankiers AG whether and when it publishes an update to this research report, but in general updates are created on a regular basis, after 6 months at the latest. A sensitivity analysis is included and published in company's initial studies.

## 5. Major Sources of Information

Part of the information required for this research report was made available by the issuer of the financial instrument. Furthermore, this report is based on publicly available sources (such as, for example, Bloomberg, Reuters, VWD-Trader and the relevant daily press) believed to be reliable. Hauck & Aufhäuser Privatbankiers AG has checked the information for plausibility but not for accuracy or completeness.

## 6. Competent Supervisory Authority

Hauck & Aufhäuser Privatbankiers AG are under supervision of the BaFin – German Federal Financial Supervisory Authority Bundesanstalt für Finanzdienstleistungsaufsicht), Graurheindorfer Straße 108, 53117 Bonn and Marie-Curie-Straße 24 – 28, 60439 Frankfurt a.M.

This document is distributed in the UK under a MiFID EEA branch passport and in compliance with the applicable FCA requirements.

## 7. Specific Comments for Recipients Outside of Germany

This research report is subject to the law of the Federal Republic of Germany. The distribution of this information to other states in particular to the USA, Canada, Australia and Japan may be restricted or prohibited by the laws applicable within this state.

## 8. Miscellaneous

According to Article 4(1) No. i of the delegated regulation 2016/958 supplementing regulation 596/2014 of the European Parliament, further information regarding investment recommendations of the last 12 months are published under:  
<https://www.hauck-aufhaeuser.com/en/investment-banking/equities#institutionalresearch>

### Disclosures for U.S. persons only

This research report is a product of HAUCK & AUFHÄUSER PRIVATBANKIERS AG, which is the employer of the research analyst(s) who has prepared the research report. The research analyst(s) preparing the research report is/are resident outside the United States (U.S.) and are not associated persons of any U.S. regulated broker-dealer and therefore the analyst(s) is/are not subject to supervision by a U.S. broker-dealer, and is/are not required to satisfy the regulatory licensing requirements of FINRA or required to otherwise comply with U.S. rules or regulations regarding, among other things, communications with a subject company, public appearances and trading securities held by a research analyst account.

This report is intended for distribution by HAUCK & AUFHÄUSER PRIVATBANKIERS AG, only to "Major Institutional Investors" as defined by Rule 15a-6(b)(4) of the U.S. Securities and Exchange Act, 1934 (the Exchange Act) and interpretations thereof by U.S. Securities and Exchange Commission (SEC) in reliance on Rule 15a 6(a)(2). If the recipient of this report is not a Major Institutional Investor as specified above, then it should not act upon this report and return the same to the sender. Further, this report may not be copied, duplicated and/or transmitted onward to any U.S. person, which is not the Major Institutional Investor.

In reliance on the exemption from registration provided by Rule 15a-6 of the Exchange Act and interpretations thereof by the SEC in order to conduct certain business with Major Institutional Investors, HAUCK & AUFHÄUSER PRIVATBANKIERS AG, has entered into an agreement with a U.S. registered broker-dealer, Marco Polo Securities Inc. ("Marco Polo"). Transactions in securities discussed in this research report should be effected through Marco Polo or another U.S. registered broker dealer.

---



PAGE LEFT BLANK INTENTIONALLY

PAGE LEFT BLANK INTENTIONALLY

PAGE LEFT BLANK INTENTIONALLY

## Contacts: Hauck & Aufhäuser Privatbankiers AG

### Hauck & Aufhäuser Research

Hauck & Aufhäuser  
Privatbankiers AG  
Mittelweg 16/17  
20148 Hamburg  
Germany

Tel.: +49 (0) 40 414 3885 91  
Fax: +49 (0) 40 414 3885 71  
Email: research@ha-ib.de  
www.ha-research.de

**Tim Wunderlich, CFA**  
Head of Transactional Research  
Tel.: +49 40 414 3885 81  
E-Mail: tim.wunderlich@ha-ib.de

**Henning Breiter**  
Head of Research  
Tel.: +49 40 414 3885 73  
E-Mail: henning.breiter@ha-ib.de

**Marie-Thérèse Grübner**  
Head of Corporate Brokerage  
Tel.: +49 40 450 6342 3097  
E-Mail: marie-therese.gruebner@ha-ib.de

**Aliaksandr Halitsa**  
Analyst  
Tel.: +49 40 414 3885 83  
E-Mail: aliaksandr.halitsa@ha-ib.de

**Alina Köhler**  
Analyst  
Tel.: +49 40 450 6342 3095  
E-Mail: alina.koehler@ha-ib.de

**Catharina Claes**  
Analyst  
Tel.: +49 40 450 6342 3092  
E-Mail: catharina.claes@ha-ib.de

**Christian Glowa**  
Analyst  
Tel.: +49 40 414 3885 95  
E-Mail: christian.glowa@ha-ib.de

**Christian Salis**  
Analyst  
Tel.: +49 40 414 3885 96  
E-Mail: christian.salis@ha-ib.de

**Christian Sandherr**  
Analyst  
Tel.: +49 40 414 3885 79  
E-Mail: christian.sandherr@ha-ib.de

**Frederik Bitter**  
Analyst  
Tel.: +49 40 450 6342 3091  
E-Mail: frederik.bitter@ha-ib.de

**Julius Stinauer**  
Analyst  
Tel.: +49 40 414 3885 84  
E-Mail: julius.stinauer@ha-ib.de

**Simon Bentlage**  
Analyst  
Tel.: +49 40 450 6342 3096  
E-Mail: simon.bentlage@ha-ib.de

### Hauck & Aufhäuser Sales

**Alexander Lachmann**  
Equity Sales  
Tel.: +41 43 497 30 23  
E-Mail: alexander.lachmann@ha-ib.de

**Carlos Becke**  
Equity Sales  
Tel.: +44 203 9473 245  
E-Mail: carlos.becke@ha-ib.de

**Christian Alisch**  
Equity Sales  
Tel.: +49 40 414 3885 99  
E-Mail: christian.alisch@ha-ib.de

**Christian Schwenkenbecher**  
Equity Sales  
Tel.: +44 203 9473 246  
E-Mail: christian.schwenkenbecher@ha-ib.de

**Christian Bybjerg**  
Equity Sales  
Tel.: +49 414 3885 74  
E-Mail: christian.bybjerg@ha-ib.de

**Hugues Madelin**  
Equity Sales  
Tel.: +33 1 78 41 40 62  
E-Mail: hugues.madelin@ha-ib.de

**Vincent Bischoff**  
Equity Sales  
Tel.: +49 40 414 3885 88  
E-Mail: vincent.bischoff@ha-ib.de

**Imogen Voorspuy**  
Equity Junior Sales  
Tel.: +44 203 9473 244  
E-Mail: imogen.voorspuy@ha-ib.de

### Hauck & Aufhäuser Sales Trading

Hauck & Aufhäuser  
Privatbankiers AG  
Mittelweg 16/17  
20148 Hamburg  
Germany

Tel.: +49 40 414 3885 78  
Fax: +49 40 414 3885 71  
Email: info@hauck-aufhaeuser.com  
www.hauck-aufhaeuser.com

**Mirko Brueggemann**  
Trading  
Tel.: +49 40 414 3885 78  
E-Mail: mirko.brueggemann@hauck-aufhaeuser.com

**Christian von Schuler**  
Trading  
Tel.: +49 40 414 3885 77  
E-Mail: christian.schuler@hauck-aufhaeuser.com

**Fin Schaffer**  
Trading  
Tel.: +49 40 414 3885 98  
E-Mail: fin.schaffer@hauck-aufhaeuser.com

**Kathleen Jonas**  
Middle-Office  
Tel.: +49 40 414 3885 97  
E-Mail: kathleen.jonas@hauck-aufhaeuser.com

**Alexander Hanisch**  
Middle-Office  
Tel.: +49 40 414 3885 87  
E-Mail: alexander.hanisch@hauck-aufhaeuser.com