

Studio Dragon (253450 KS)

Growth secured for 2020 even without China

BUY (Maintain)

CP (Nov. 7) KRW78,300
TP (6 months) KRW100,000
Upside 27.7%

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|-------------|----------|--|
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| | 2,144.29p | | | | | |
|---------------------------------|--|--|--|--|--|--|
| | 666.15p | | | | | |
| KRW2,199.9bn/USE |)1,929.7mn | | | | | |
| | KRW500 | | | | | |
| ; | 28.1mn | | | | | |
| 7.1 | mn(25.3%) | | | | | |
| KRW114,100/ | KRW54,000 | | | | | |
| g volume 1 | 101,034shrs | | | | | |
| 60-day avg. turnover KRW6,955mn | | | | | | |
| | 2.92% | | | | | |
| | | | | | | |
| J ENM and 5 others | 74.33% | | | | | |
| nce 3M | 40.1% | | | | | |
| 6 M | -13.8% | | | | | |
| 12M | -19.7% | | | | | |
| ce 3M | 18.7% | | | | | |
| 6 M | -2.5% | | | | | |
| 12M | -17.7% | | | | | |
| | 7.1 KRW114,100/ g volume 1 er Kl J ENM and 5 others nce 3M 6M 12M ce 3M | | | | | |

- 3Q19 consolidated OP mostly in line at KRW10.9bn (-49.1% YoY)
- OP to grow 80.4% YoY in 2020 even without China earnings
- Retain BUY and raise target price by 7.5% to KRW100,000

3Q19 consolidated OP mostly in line at KRW10.9bn (-49.1% YoY)

Studio Dragon posted 3Q19 consolidated operating profit of KRW10.9bn (-49.1% YoY) on sales of KRW131.2bn (+6.1% YoY), mostly in line with expectations (SHIC estimate KRW10bn, market consensus KRW11.9bn). Production revenue increased 24.4% YoY to KRW60.8bn, driven by Hotel del Luna produced for CJ ENM and Netflix original Love Alarm. Even with the comparison base raised by the success of Mr. Sunshine in 3Q18, distribution revenue remained solid, falling by only 5.4% YoY to KRW60bn. The limited decline in the key earnings indicator owes to content sales to over-the-top (OTT) platforms like Netflix.

OP to grow 80.4% YoY in 2020 even without China earnings

We see many positives that would drive earnings in 2020 even without China revenue. First, aggressive investments are expected with sales growth (+18.6% YoY) outpacing production cost growth (+8.5% YoY). Revenue from Netflix should climb 27.4% YoY in 2020 even when excluding original production thanks to the continuing uptrend in distribution revenue. Studio Dragon is also projected to secure original drama production deals in the Americas with major platforms other than Netflix. Once the company seals new deals, it should take another step up from its current status as a key beneficiary of Netflix's content shortages to a major beneficiary of intensifying content competition among global platforms. Excluding China earnings, we forecast sales of KRW553.2bn (+18.6% YoY) and operating profit of KRW72.1bn (+80.4% YoY) for 2020. If China earnings are added, annual operating profit should exceed KRW100bn.

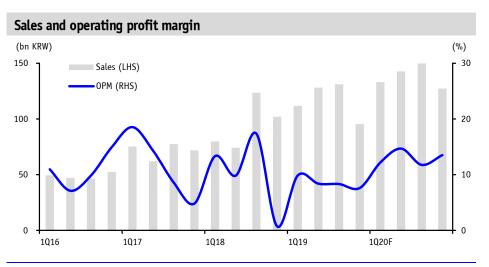
Retain BUY and raise target price by 7.5% to KRW100,000

Our target price for Studio Dragon is upgraded by 7.5% from KRW93,000 to KRW100,000. Our revised target is based on 2020F operating profit of KRW72.1bn excluding China earnings (net profit of KRW63.1bn) and a target PER of 45x. We continue to recommend Studio Dragon as our media/advertising sector top pick along with Jcontentree (036420) on forecasts for: 1) revenue growth from overseas OTT platforms including Netflix; 2) over 80% YoY growth in operating profit in 2020; and 3) sharp improvement in profitability once China eases restrictions on Korean media contents.

| Year to | Sales | OP | Pre-tax | NP | EPS | Growth | BPS | PER | EV/EBITDA | PBR | ROE | Net debt |
|----------|----------|----------|----------|----------|-------|--------|--------|------|-----------|-----|------|-----------|
| December | (bn KRW) | (bn KRW) | (bn KRW) | (bn KRW) | (KRW) | (%) | (KRW) | (x) | (x) | (x) | (%) | ratio (%) |
| 2017 | 286.8 | 33.0 | 30.3 | 23.8 | 1,050 | 84.5 | 13,141 | 61.9 | 22.1 | 4.9 | 9.5 | (49.5) |
| 2018 | 379.6 | 39.9 | 45.6 | 35.8 | 1,278 | 21.7 | 14,305 | 72.3 | 21.2 | 6.5 | 9.3 | (38.2) |
| 2019F | 466.6 | 40.0 | 48.4 | 36.4 | 1,298 | 1.5 | 15,603 | 60.3 | 9.2 | 5.0 | 8.7 | (42.8) |
| 2020F | 553.2 | 72.1 | 83.1 | 63.1 | 2,251 | 73.4 | 17,854 | 34.8 | 7.9 | 4.4 | 13.5 | (46.5) |
| 2021F | 624.6 | 83.7 | 95.7 | 72.7 | 2,593 | 15.2 | 20,446 | 30.2 | 7.3 | 3.8 | 13.5 | (50.8) |

Source: Company data, Shinhan Investment Corp. / Note: TB = turn black, TR = turn red, RR = remain red

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Source: Company data, Shinhan Investment Corp.

| (bn KRW) | 1018 | 2018 | 3018 | 4018 | 1019 | 2019 | 3Q19P | 4Q19F | 1020F | 2020F | 3Q20F | 4020F | 2017 | 2018 | 2019F | 2020F |
|------------------------------------|--------|-------------|-------|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------------|-------|-------|-------|
| <earnings forecasts=""></earnings> | 1410 | LQIO | 3410 | 7410 | 1415 | LQIJ | 34131 | 70171 | IQLOI | LQLUI | JQLUI | TQLOI | 2017 | 2010 | 20131 | LOLOI |
| Total revenue | 79.9 | 74.3 | 123.7 | 101.7 | 111.8 | 128.2 | 131.2 | 95.3 | 133.1 | 142.8 | 149.9 | 127.4 | 286.8 | 379.5 | 466.6 | 553.2 |
| Production revenue | 40.7 | 34.1 | 48.9 | 54.4 | 44.1 | 58.1 | 52.8 | 45.7 | 47.4 | 61.4 | 56.0 | 47.7 | 131.2 | 178.1 | 200.7 | 212.5 |
| - Global platforms | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 | 1.5 | 0.0 | 1.5 | 2.3 | 0.0 | 0.0 | 0.8 | 5.3 |
| Distribution revenue | 32.1 | 28.8 | 63.4 | 37.8 | 56.2 | 60.3 | 60.0 | 41.4 | 63.9 | 70.6 | 72.9 | 56.2 | 111.8 | 162.1 | 217.9 | 263.5 |
| Other (PPL) revenue | 7.1 | 11.4 | 11.4 | 9.5 | 11.5 | 9.8 | 10.4 | 8.2 | 11.8 | 10.8 | 11.0 | 8.6 | 43.7 | 39.4 | 39.9 | 42.2 |
| <0verseas operations> | | | | | | | | | | | | | | | | |
| Overseas distribution revenue | 22.7 | 16.5 | 46.2 | 24.8 | 42.6 | 42.2 | 43.9 | 29.3 | 49.2 | 50.8 | 52.9 | 41.6 | 67.2 | 110.2 | 158.0 | 194.4 |
| Share in distribution revenue (%) | 70.8 | 57.2 | 72.9 | 65.7 | 75.9 | 70.0 | 73.1 | 70.8 | 77.0 | 72.0 | 72.6 | 74.0 | 60.1 | 68.0 | 72.5 | 73.8 |
| Japan | 3.5 | 4. 5 | 3.4 | 4.2 | 10.3 | 5.9 | 3.2 | 5.6 | 11.3 | 7.1 | 3.9 | 6.8 | 18.7 | 15.6 | 25.0 | 29.1 |
| Asia including China | 8.9 | 10.5 | 10.4 | 13.9 | 21.3 | 12.7 | 19.3 | 17.6 | 24.8 | 17.2 | 21.3 | 20.1 | 39.9 | 43.8 | 71.3 | 83.5 |
| China | 0.0 | 0.0 | 0.0 | 1.5 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 1.8 | 0.0 |
| Americas | 0.2 | 0.3 | 0.3 | 1.1 | 0.4 | 0.5 | 5.2 | 2.5 | 2.4 | 2.4 | 4.5 | 4.5 | 8.2 | 1.9 | 8.6 | 13.8 |
| Others | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.4 | 0.4 | 0.4 | 0.5 |
| COGS | 66.2 | 63.7 | 98.9 | 95.2 | 96.8 | 112.8 | 115.9 | 83.5 | 112.4 | 116.5 | 127.2 | 105.2 | 239.8 | 324.0 | 409.1 | 461.1 |
| SG&A | 3.0 | 3.3 | 3.3 | 6.0 | 4.0 | 4.6 | 4.4 | 4.6 | 4.5 | 5.4 | 5.1 | 5.0 | 14.1 | 15.7 | 17.5 | 20.0 |
| OP | 10.7 | 7.3 | 21.5 | 0.4 | 11.0 | 10.8 | 10.9 | 7.3 | 16.2 | 21.0 | 17.6 | 17.2 | 33.0 | 39.9 | 40.0 | 72.1 |
| Pre-tax profit | 10.8 | 11.0 | 22.0 | 1.7 | 13.2 | 11.9 | 13.1 | 10.2 | 18.3 | 23.1 | 20.8 | 20.9 | 30.3 | 45.6 | 48.4 | 83.1 |
| NP | 7.9 | 8.9 | 17.3 | 1.7 | 9.2 | 7.3 | 11.5 | 8.3 | 13.9 | 17.5 | 15.8 | 15.9 | 23.8 | 35.8 | 36.4 | 63.1 |
| <% YoY growth> | | | | | | | | | | | | | | | | |
| Sales | 6.0 | 19.6 | 59.6 | 41.5 | 40.0 | 72.6 | 6.1 | (6.6) | 19.0 | 11.4 | 14.3 | 33.6 | 46.7 | 32.3 | 22.8 | 18.6 |
| OP | (23.7) | (17.8) | 223.0 | (87.3) | 3.5 | 47.4 | (49.1) | 861.8 | 47.2 | 94.9 | 61.5 | 137.6 | 55.4 | 20.9 | (0.6) | 80.4 |
| NP | (41.3) | 216.8 | 206.3 | (12.5) | 17.2 | (17.3) | (33.5) | 304.2 | 51.3 | 138.9 | 37.2 | 90.4 | 83.3 | 50.2 | 8.0 | 73.4 |
| <margin, %=""></margin,> | | | | | | | | | | | | | | | | |
| OPM | 13.3 | 9.8 | 17.4 | 0.4 | 9.9 | 8.4 | 8.3 | 7.6 | 12.2 | 14.7 | 11.8 | 13.5 | 11.5 | 10.5 | 8.6 | 13.0 |
| NPM | 9.8 | 11.9 | 14.0 | 1.7 | 8.2 | 5.7 | 8.8 | 8.7 | 10.5 | 12.3 | 10.6 | 12.4 | 8. 3 | 9.4 | 7.8 | 11.4 |

Source: Company data, Shinhan Investment Corp.

Note: Distribution rights revenue from Netflix included in overseas distribution revenue; China revenue assumed to be zero for 2020

| PER valuation: T | arget price | of KRW100,000 | | | |
|--------------------|-------------|--------------------|---------|--------------------|---------|
| (bn KRW) | Value | (bn KRW) | Value | (bn KRW) | Value |
| 2019F NP | 36.4 | 2020F NP | 63.1 | 2021F NP | 72.7 |
| EPS (KRW) | 1,298 | EPS (KRW) | 2,251 | EPS (KRW) | 2,593 |
| Target price (KRW) | 59,000 | Target price (KRW) | 100,000 | Target price (KRW) | 117,000 |
| Target PER (x) | 45 | Target PER (x) | 45 | Target PER (x) | 45 |
| | | Current price | 78,300 | | |
| | | Current PER | 34.8 | | |

Source: Shinhan Investment Corp.

Note: Target PER based on a 20% discount to past 2-year average PER (low) in view of uncertainty in China earnings and decline in profitability from increasing production costs. Studio Dragon continues to see steady distribution revenue growth from Netflix and should be able to deliver sharp profit growth once China eases restrictions on Korean media contents.

| PER trend | | | |
|---------------|------|------|---------------------|
| (x) | 2017 | 2018 | Past 2-year average |
| PER (high) | 77.4 | 96.6 | 87.0 |
| PER (low) | 52.7 | 45.4 | 49.0 |
| PER (average) | 60.3 | 75.9 | 68.1 |

Source: Shinhan Investment Corp.



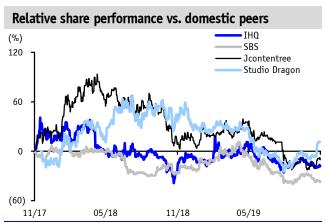
Source: Bloomberg, Shinhan Investment Corp.

| 3Q19 prelim | 3Q19 preliminary results | | | | | | | | | |
|-------------|--------------------------|-------|-------|-------|--------|-------|-----------|--|--|--|
| (bn KRW) | 3Q19P | 2Q19 | % QoQ | 3Q18 | % YoY | SHIC | Consensus | | | |
| Sales | 131.2 | 128.2 | 2.3 | 123.7 | 6.1 | 135.0 | 127.9 | | | |
| OP | 10.9 | 10.8 | 0.9 | 21.5 | (49.1) | 10.0 | 11.9 | | | |
| NP | 11.5 | 7.3 | 57.5 | 17.3 | (33.5) | 10.6 | 9.4 | | | |
| OPM (%) | 8.3 | 8.4 | | 17.4 | | 7.4 | 9.3 | | | |
| NPM (%) | 8.8 | 5.7 | | 14.0 | | 7.9 | 7.3 | | | |

Source: Company data, FnGuide, Shinhan Investment Corp.

| Peer group | valuation | | | | | | | |
|------------------|-----------|---------------|-------------|-----------|-----------|-------------|-------------------------|-----------------------------|
| Ticker | | 253450 KS | 036420 KS | 003560 KS | 160550 KS | DIS US | 300027 CH | 300133 CH |
| Company | | Studio Dragon | Jcontentree | IHQ | NEW | Walt Disney | Huayi Brothers Media | Zhejiang Huace Film & TV |
| Market cap (bn k | (RW) | 1,972.3 | 541.0 | 111.8 | 105.5 | 293,309.5 | 13.1 | 12.9 |
| Sales | 2018 | 379.6 | 511.3 | 161.2 | 161.2 | 65,093.4 | 644.7 | 959.5 |
| (bn KRW) | 2019F | 502.3 | 568.6 | 170.7 | 170.7 | 82,860.3 | 704.1 | 879.3 |
| | 2020F | 603.6 | 637.4 | 186.9 | 186.9 | 97,160.9 | 815.0 | 1,023.3 |
| OP | 2018 | 40.2 | 34.7 | (10.6) | (10.6) | 16,249.8 | 63.4 | 80.8 |
| (bn KRW) | 2019F | 48.8 | 60.7 | 1.8 | 1.8 | 16,063.8 | 95.2 | 65.7 |
| | 2020F | 74.0 | 69.3 | 8.7 | 8.7 | 18,322.9 | 124.0 | 104.6 |
| ОРМ | 2018 | 10.6 | 6.8 | (6.6) | (6.6) | 25.0 | 9.8 | 8.4 |
| (%) | 2019F | 9.7 | 10.7 | 1.1 | 1.1 | 19.4 | 13.5 | 7.5 |
| | 2020F | 12.3 | 10.9 | 4.7 | 4.7 | 18.9 | 15.2 | 10.2 |
| NP | 2018 | 36.2 | 23.1 | (9.5) | (9.5) | 11,477.9 | (6.6) | 39.0 |
| (bn KRW) | 2019F | 40.7 | 29.8 | 4.0 | 4.0 | 11,372.2 | 64.4 | 56.8 |
| | 2020F | 60.2 | 34.9 | 7.2 | 7.2 | 11,359.8 | 93.7 | 83.0 |
| Sales growth | 2018 | 32.4 | 21.6 | 70.5 | 70.5 | 3.2 | (1.9) | 9.7 |
| (% YoY) | 2019F | 32.3 | 11.2 | 5.9 | 5.9 | 27.3 | 9.2 | (8.4) |
| | 2020F | 20.2 | 12.1 | 9.5 | 9.5 | 17.3 | 15.7 | 16.4 |
| EPS growth | 2018 | 19.7 | 170.9 | 39.5 | 39.5 | 16.7 | (110.4) | (59.4) |
| (% YoY) | 2019F | 12.5 | 7.5 | (146.9) | (146.9) | (11.6) | (1,499.3) | 80.7 |
| | 2020F | 48.5 | 14.6 | 58.0 | 58.0 | 2.0 | 27.5 | 36.9 |
| PER | 2018 | 72.3 | 29.3 | N/A | N/A | 16.8 | N/A | 70.2 |
| (x) | 2019F | 48.4 | 18.3 | 24.7 | 23.3 | 24.1 | 23.8 | 28.9 |
| | 2020F | 32.6 | 16.0 | 15.6 | 14.8 | 23.6 | 18.6 | 21.1 |
| PBR | 2018 | 6.5 | 1.9 | 1.0 | 1.0 | 3.6 | 1.5 | 2.1 |
| (x) | 2019F | 4.5 | 1.5 | 0.9 | 0.9 | 2.7 | 1.4 | 1.8 |
| | 2020F | 4.0 | 1.4 | 0.9 | 0.8 | 2.4 | 1.4 | 1.7 |
| EV/EBITDA | 2018 | 21.1 | 9.7 | N/A | N/A | 11.1 | 37.1 | 30.4 |
| (x) | 2019F | 12.5 | 8.0 | 22.0 | 20.3 | 18.1 | 21.0 | 28.5 |
| | 2020F | 10.7 | 7.5 | 11.7 | 10.8 | 16.0 | 16.3 | 21.0 |
| ROE | 2018 | 9.4 | 9.3 | (7.7) | (7.7) | 23.3 | (0.4) | 3.4 |
| (%) | 2019F | 9.6 | 8.8 | 4.7 | 4.7 | 14.2 | 4.8 | 4.6 |
| | 2020F | 12.9 | 9.6 | 5.6 | 5.6 | 11.8 | 5.9 | 5.9 |

Source: Bloomberg, Shinhan Investment Corp.



Source: Bloomberg, Shinhan Investment Corp.

2019F PBR and ROE vs. global peers (PBR, x) 6 Studio Dragon Zhejiang Huace Film & A Story 2 TV Jcontentree Huayi Brothers Walt Disney Media IHQ (ROE, %) 0 0 8 12 16

Source: Bloomberg, Shinhan Investment Corp.

| ~ · · | | | |
|--------------|-------|----------|------------|
| Stateme | nt ot | tinancia | l position |
| | | | |

| Year to December (bn KRW) | 2017 | 2018 | 2019F | 2020F | 2021F |
|--|---------|---------|---------|---------|---------|
| Total assets | 459.5 | 512.4 | 579.1 | 655.2 | 739.5 |
| Current assets | 289.8 | 247.2 | 300.5 | 375.2 | 451.6 |
| Cash and equivalents | 51.3 | 153.0 | 187.1 | 232.1 | 290.8 |
| Accounts receivable | 54.9 | 68.8 | 86.0 | 111.8 | 126.2 |
| Inventories | 1.3 | 0.6 | 0.7 | 0.8 | 1.0 |
| Non-current assets | 169.6 | 265.2 | 278.7 | 280.0 | 287.8 |
| Tangible assets | 1.1 | 1.0 | 0.8 | 0.8 | 0.6 |
| Intangible assets | 127.5 | 198.5 | 211.4 | 212.0 | 219.4 |
| Investment assets | 3.8 | 3.7 | 4.5 | 5.2 | 5.9 |
| Other financial assets | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total liabilities | 91.0 | 111.1 | 141.4 | 154.4 | 165.9 |
| Current liabilities | 90.7 | 108.2 | 138.4 | 151.2 | 162.6 |
| Short-term borrowings | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Accounts payable | 6.1 | 19.6 | 20.5 | 21.5 | 22.5 |
| Current portion of long-term debt | 10.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Non-current liabilities | 0.3 | 2.9 | 3.0 | 3.2 | 3.4 |
| Bonds | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Long-term borrowings | 0.0 | 2.1 | 2.1 | 2.1 | 2.1 |
| Other financial liabilities | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total shareholders' equity | 368.4 | 401.3 | 437.7 | 500.8 | 573.6 |
| Capital stock | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 |
| Capital surplus | 319.6 | 320.1 | 320.1 | 320.1 | 320.1 |
| Other capital | 2.7 | 0.3 | 0.3 | 0.3 | 0.3 |
| Accumulated other comprehensive income | 0.0 | (0.8) | (0.8) | (0.8) | (0.8) |
| Retained earnings | 32.1 | 67.6 | 104.1 | 167.2 | 239.9 |
| Controlling interest equity | 368.4 | 401.3 | 437.7 | 500.8 | 573.6 |
| Non-controlling interest equity | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| *Total debt | 10.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| *Net debt (cash) | (182.5) | (153.4) | (187.5) | (232.7) | (291.5) |

Statement of comprehensive income

| Year to December (bn KRW) | 2017 | 2018 | 2019F | 2020F | 2021F |
|----------------------------|-------|-------|-------|-------|-------|
| Sales | 286.8 | 379.6 | 466.6 | 553.2 | 624.6 |
| Growth (%) | 85.7 | 32.4 | 22.9 | 18.6 | 12.9 |
| COGS | 239.7 | 324.0 | 409.1 | 461.1 | 518.4 |
| Gross profit | 47.1 | 55.6 | 57.5 | 92.1 | 106.2 |
| GPM (%) | 16.4 | 14.6 | 12.3 | 16.6 | 17.0 |
| SG&A | 14.2 | 15.7 | 17.5 | 20.0 | 22.5 |
| Operating profit | 33.0 | 39.9 | 40.0 | 72.1 | 83.7 |
| Growth (%) | 98.3 | 21.0 | 0.2 | 80.4 | 16.1 |
| OPM (%) | 11.5 | 10.5 | 8.6 | 13.0 | 13.4 |
| Non-operating profit | (2.7) | 5.7 | 8.4 | 11.0 | 12.0 |
| Financial profit | (2.5) | 6.1 | 8.6 | 9.4 | 10.5 |
| Other non-operating profit | (0.2) | (0.3) | (0.2) | 1.6 | 1.5 |
| Equity method gain (loss) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pre-tax profit | 30.3 | 45.6 | 48.4 | 83.1 | 95.7 |
| Income tax | 6.4 | 9.8 | 12.0 | 19.9 | 23.0 |
| Continuing operations | 23.8 | 35.8 | 36.4 | 63.1 | 72.7 |
| Discontinued operations | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Net profit | 23.8 | 35.8 | 36.4 | 63.1 | 72.7 |
| Growth (%) | 192.9 | 50.3 | 1.6 | 73.4 | 15.2 |
| NPM (%) | 8.3 | 9.4 | 7.8 | 11.4 | 11.6 |
| Controlling interest | 23.8 | 35.8 | 36.4 | 63.1 | 72.7 |
| Non-controlling interest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Comprehensive income | 23.8 | 34.7 | 36.4 | 63.1 | 72.7 |
| Controlling interest | 23.8 | 34.7 | 36.4 | 63.1 | 72.7 |
| Non-controlling interest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EBITDA | 74.3 | 115.2 | 218.0 | 248.1 | 261.7 |
| Growth (%) | 91.4 | 55.1 | 89.3 | 13.8 | 5.5 |
| EBITDA margin (%) | 25.9 | 30.3 | 46.7 | 44.9 | 41.9 |

Statement of cash flow

| Year to December (bn KRW) | 2017 | 2018 | 2019F | 2020F | 2021F |
|------------------------------|---------|---------|---------|---------|---------|
| Cash flow from operations | (7.2) | (29.1) | 219.5 | 215.5 | 236.7 |
| Net profit | 23.8 | 35.8 | 36.4 | 63.1 | 72.7 |
| Depreciation expense | 0.3 | 0.3 | 0.4 | 0.3 | 0.3 |
| Amortization expense | 41.0 | 75.0 | 177.7 | 175.7 | 177.8 |
| FX translation loss (gain) | 0.8 | (0.5) | 0.0 | 0.0 | 0.0 |
| Asset disposal loss (gain) | (0.0) | 0.0 | 0.0 | 0.0 | 0.0 |
| Equity method loss (gain) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Change in working capital | (72.9) | (139.4) | 8.6 | (19.3) | (8.7) |
| (Payment of income tax) | (10.4) | (9.7) | (12.0) | (19.9) | (23.0) |
| Others | 10.2 | 9.4 | 8.4 | 15.6 | 17.6 |
| Cash flow from investments | (141.0) | 140.6 | (188.1) | (173.1) | (180.6) |
| Increase in tangible assets | (0.1) | (0.2) | (0.3) | (0.4) | (0.1) |
| Decrease in tangible assets | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 |
| Change in intangible assets | (0.2) | (0.1) | (190.6) | (176.3) | (185.2) |
| Change in investment assets | 0.0 | 0.0 | (0.8) | (0.8) | (0.6) |
| Others | (140.8) | 140.9 | 3.5 | 4.3 | 5.2 |
| Free cash flow | 44.0 | 143.7 | 218.9 | 213.6 | 235.3 |
| Cash flow from financing | 188.1 | (9.7) | (0.0) | (0.0) | (0.0) |
| Change in borrowings | (18.1) | (10.0) | 0.0 | 0.0 | 0.0 |
| Change in treasury stock | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dividends | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Others | 206.2 | 0.3 | 0.0 | 0.0 | 0.0 |
| Other cash flow | 0.0 | 0.0 | 2.6 | 2.6 | 2.6 |
| Change in consolidated scope | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Change in FX rates | (0.1) | (0.1) | 0.0 | 0.0 | 0.0 |
| Change in total cash | 39.8 | 101.7 | 34.0 | 45.0 | 58.7 |
| Beginning cash | 11.5 | 51.3 | 153.0 | 187.1 | 232.1 |
| Ending cash | 51.3 | 153.0 | 187.1 | 232.1 | 290.8 |

Source: Company data, Shinhan Investment Corp.

Key ratios

| Year to December | 2017 | 2018 | 2019F | 2020F | 2021F |
|--|--------|---------|--------|---------|---------|
| EPS (KRW) | 1,050 | 1,278 | 1,298 | 2,251 | 2,593 |
| EPS of controlling interest (KRW) | 1,050 | 1,278 | 1,298 | 2,251 | 2,593 |
| BPS (KRW) | 13,141 | 14,305 | 15,603 | 17,854 | 20,446 |
| BPS of controlling interest (KRW) | 13,141 | 14,305 | 15,603 | 17,854 | 20,446 |
| DPS (KRW) | 0 | 0 | 0 | 0 | 0 |
| PER (x) | 61.9 | 72.3 | 60.3 | 34.8 | 30.2 |
| PER of controlling interest (x) | 61.9 | 72.3 | 60.3 | 34.8 | 30.2 |
| PBR (x) | 4.9 | 6.5 | 5.0 | 4.4 | 3.8 |
| PBR of controlling interest (x) | 4.9 | 6.5 | 5.0 | 4.4 | 3.8 |
| EV/EBITDA (x) | 22.1 | 21.2 | 9.2 | 7.9 | 7.3 |
| Dividend payout ratio (%) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dividend yield (%) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Profitability | | | | | |
| EBITDA margin (%) | 25.9 | 30.3 | 46.7 | 44.9 | 41.9 |
| OPM (%) | 11.5 | 10.5 | 8.6 | 13.0 | 13.4 |
| NPM (%) | 8.3 | 9.4 | 7.8 | 11.4 | 11.6 |
| ROA (%) | 6.8 | 7.4 | 6.7 | 10.2 | 10.4 |
| ROE (%) | 9.5 | 9.3 | 8.7 | 13.5 | 13.5 |
| ROIC (%) | 18.0 | 14.8 | 16.7 | 29.0 | 31.1 |
| Stability | | | | | |
| Debt to equity ratio (%) | 24.7 | 27.7 | 32.3 | 30.8 | 28.9 |
| Net debt ratio (%) | (49.5) | (38.2) | (42.8) | (46.5) | (50.8) |
| Cash ratio (%) | 56.6 | 141.4 | 135.2 | 153.5 | 178.9 |
| Interest coverage ratio (x) | 19.0 | 343.0 | 978.4 | 1,764.9 | 2,048.8 |
| Activity (%) | | | | | |
| Working capital turnover (times) | 57.1 | (183.6) | (17.8) | (23.7) | (52.7) |
| Inventory turnover (days) | 0.8 | 0.9 | 0.5 | 0.5 | 0.5 |
| Receivable turnover (days) | 58.5 | 59.5 | 60.5 | 65.2 | 69.5 |
| Source: Company data, Shinhan Investment | Com. | | | | |

Source: Company data, Shinhan Investment Corp.

Studio Dragon (253450 KS)

| Share performa | nce | | |
|----------------|--|----------------------|-----------------|
| (KRW) | | (Indexe | ed,Nov-18=100) |
| 130,000 - KOSD | AQ Index = 100 | | [120 |
| 110,000 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 1 . ~ | - 110 |
| 90,000 - | March 1 | T MY | 100 |
| 70,000 - | | my fr | 80 |
| 50,000 | Т | 1 | 70 |
| 11/18 | 03/19 | 07/19 | 11/19 |
| Studio Drago | on (LHS) —— Re | lative performance t | to KOSDAQ (RHS) |

| Date | Rating | Target price | Target price gap (%) | | |
|------------|--------|--------------|----------------------|---------|--|
| | | (KRW) | Average | Max/Min | |
| 2017.11.23 | BUY | 53,000 | 20.8 | 35.5 | |
| 2017.12.10 | BUY | 67,000 | (6.9) | (1.8) | |
| 2018.01.09 | BUY | 73,000 | (6.2) | 1.9 | |
| 2018.01.18 | BUY | 82,000 | (2.2) | 6.1 | |
| 2018.02.08 | BUY | 95,000 | (15.1) | (6.7) | |
| 2018.03.04 | BUY | 104,000 | (9.9) | (5.3) | |
| 2018.04.01 | BUY | 118,000 | (23.0) | (16.4) | |
| 2018.05.22 | BUY | 132,000 | (19.3) | (11.3) | |
| 2018.06.22 | BUY | 146,000 | (28.3) | (17.9) | |
| 2018.12.23 | | 6M later | (37.5) | (34.0) | |
| 2019.02.07 | BUY | 128,000 | (27.6) | (23.2) | |
| 2019.05.10 | BUY | 120,000 | (36.9) | (30.6) | |
| 2019.06.07 | BUY | 104,000 | (35.8) | (29.0) | |
| 2019.08.09 | BUY | 85,000 | (26.9) | (17.4) | |
| 2019.09.16 | BUY | 93,000 | - | - | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| Target price | | | |
|---------------|---------------|--------------------|--------------------|
| (KRW) | | | |
| 170,000 | | | BUY |
| 130,000 - | ſ | 194_164a | -Trading BUY |
| 90,000 - | | / W W W | HOLD |
| 50,000 | 11 /17 | 44 /40 | SELL |
| 11/16 TP (LHS | 11/17 Studio | 11/18 Dragon (LHS) | 11/19 Rating (RHS) |

Note: Calculation of target price gap based on past 6 months

| Rating Distrib | ution - SHIC | Universe (as of 6 No | vember 201 | 9) | | | |
|----------------|--------------|----------------------|------------|-------------|-------|-------------|----|
| BUY (BUY) | 95.63% | Trading BUY (HOLD) | 1.46% | HOLD (HOLD) | 2.91% | SELL (SELL) | 0% |

| Rating Distribu | tion - SHIC | Investment Banking | Clients (as o | of 6 November 2 | 019) | | |
|-----------------|-------------|--------------------|---------------|-----------------|------|-------------|----|
| BUY (BUY) | 100% | Trading BUY (HOLD) | 0% | HOLD (HOLD) | 0% | SELL (SELL) | 0% |

| SHIC Ratings (as of 1 April 2017) | |
|--|--|
| Stock | Sector |
| BUY: Expected 6-month gain of 10% or more Trading BUY: Expected 6-month gain of 10% to loss of 10% HOLD: Expected 6-month loss of 10% to 20% SELL: Expected 6-month loss of 20% or more | OVERWEIGHT: Based on market cap, largest share of sector stocks under coverage is rated BUY NEUTRAL: Based on market cap, largest share of sector stocks under coverage is rated Trading BUY or HOLD UNDERWEIGHT: Based on market cap, largest share of sector stocks under coverage is rated SELL |

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