

VALUATION MASTER CLASS

by
A. Stoltz INVESTMENT
RESEARCH

Will **Meta** get more of your **cash**?



Valuation Master Class



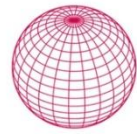
This information is for
learning purposes only.

***This is not
investment advice or a
recommendation.***



Ask
Ajarn
Andrew

Will Meta get more of your cash?



VALUATION MASTER CLASS



Sector: Comm. Serv.



Social media giant with 3.5bn+ active users through Facebook, WhatsApp, and Instagram; one of the world's most valuable brands

My value estimate:

US\$339

(Upside 54%)

STRONG BUY



3 things to know about this company

- ★ User base might have reached maximum, focus on price
- ★ Reality Labs squeeze profits, but could turn big in the future
- ★ Competitors grow out of nothing to challenge its dominance

Key statistics

Analyst consensus (60)

US\$350

(Upside 59%)

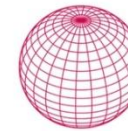
STRONG BUY

PE ratio

16x

Dividend yield

0%



Sales

Story

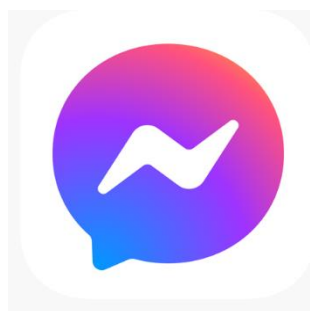
FVMR

Value

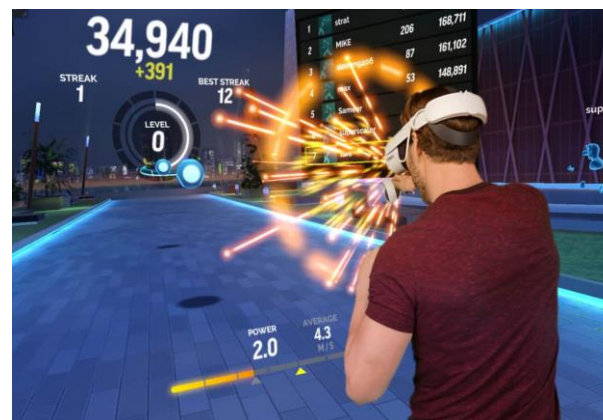
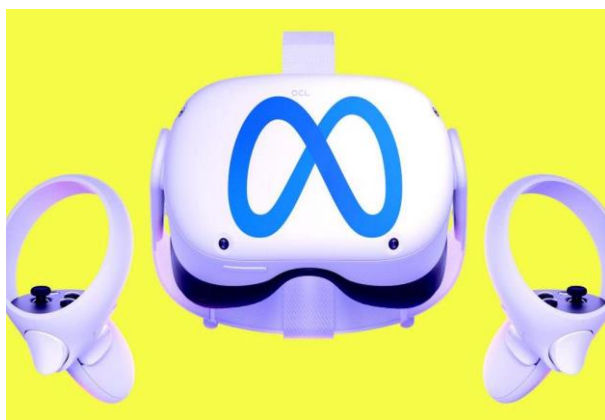
WCB

Risks

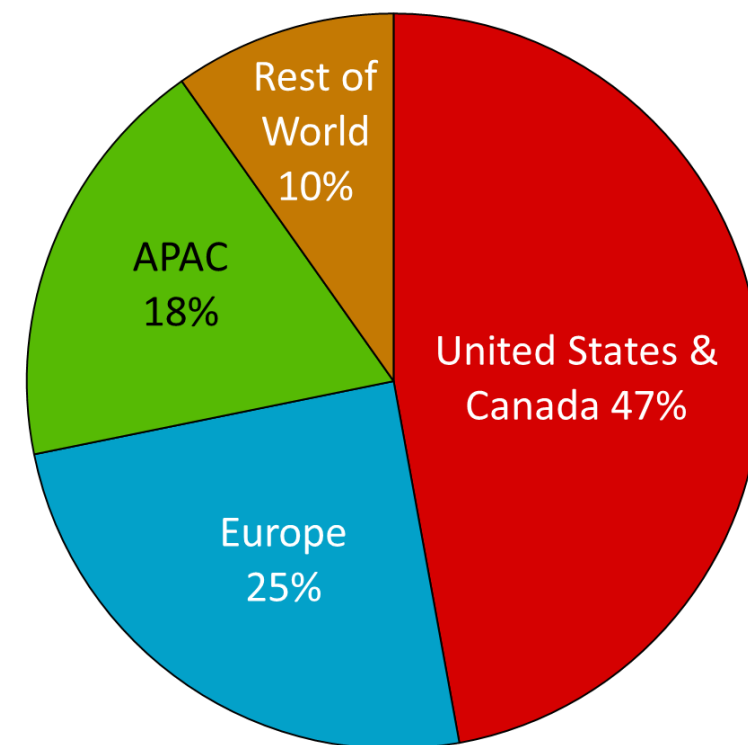
Advertising 98%



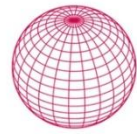
Virtual reality 2%



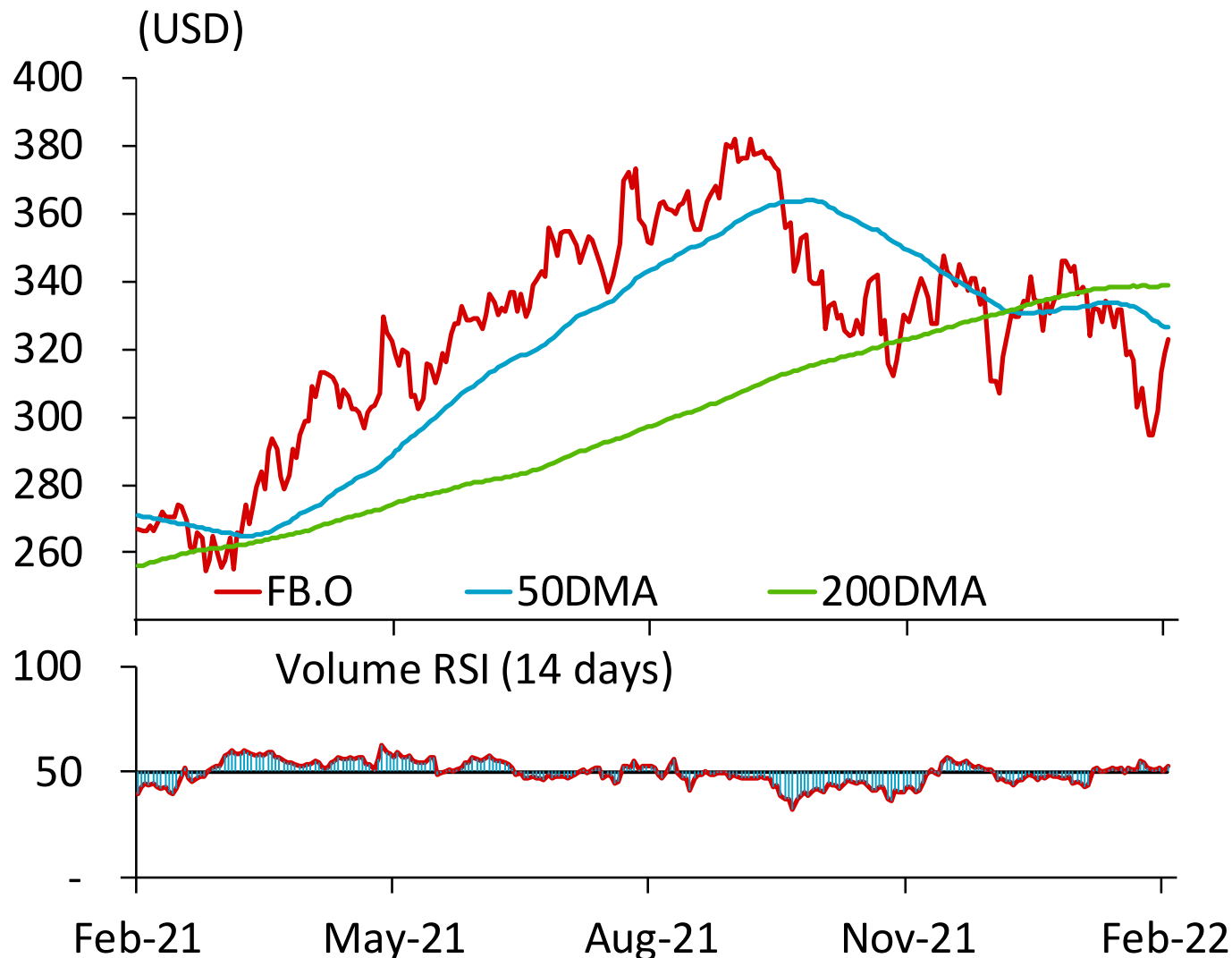
Breakdown by region



Price turned bearish but could turnaround soon



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- ★ In the first three quarters of 2021, Meta saw a strong bullish rally before its price has been corrected downward by the end of past year
 - In January 2022, Meta saw its largest intra-day drop in its history with the share price down by 25%
 - However, recently, the share price started to rebound and could do so further
- ★ Volume RSI has been neutral recently, providing no clear signal yet

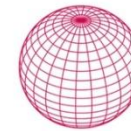
What did actually happen to Meta's share price?

- On 3rd of January, Meta's share price dropped by 25%, equaling around US\$230bn in market cap
- Here is what happened:
 - Meta reported a decline in daily active users for the first time
 - Apple update on iOS devices makes it more difficult to track consumers, dragging Meta's advertising revenue
 - US\$10bn loss from its new Reality Labs business unit
 - Lower management profit forecast for 2022E



Ask
Ajarn
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1 User base might have reached maximum; focus on price



Sales

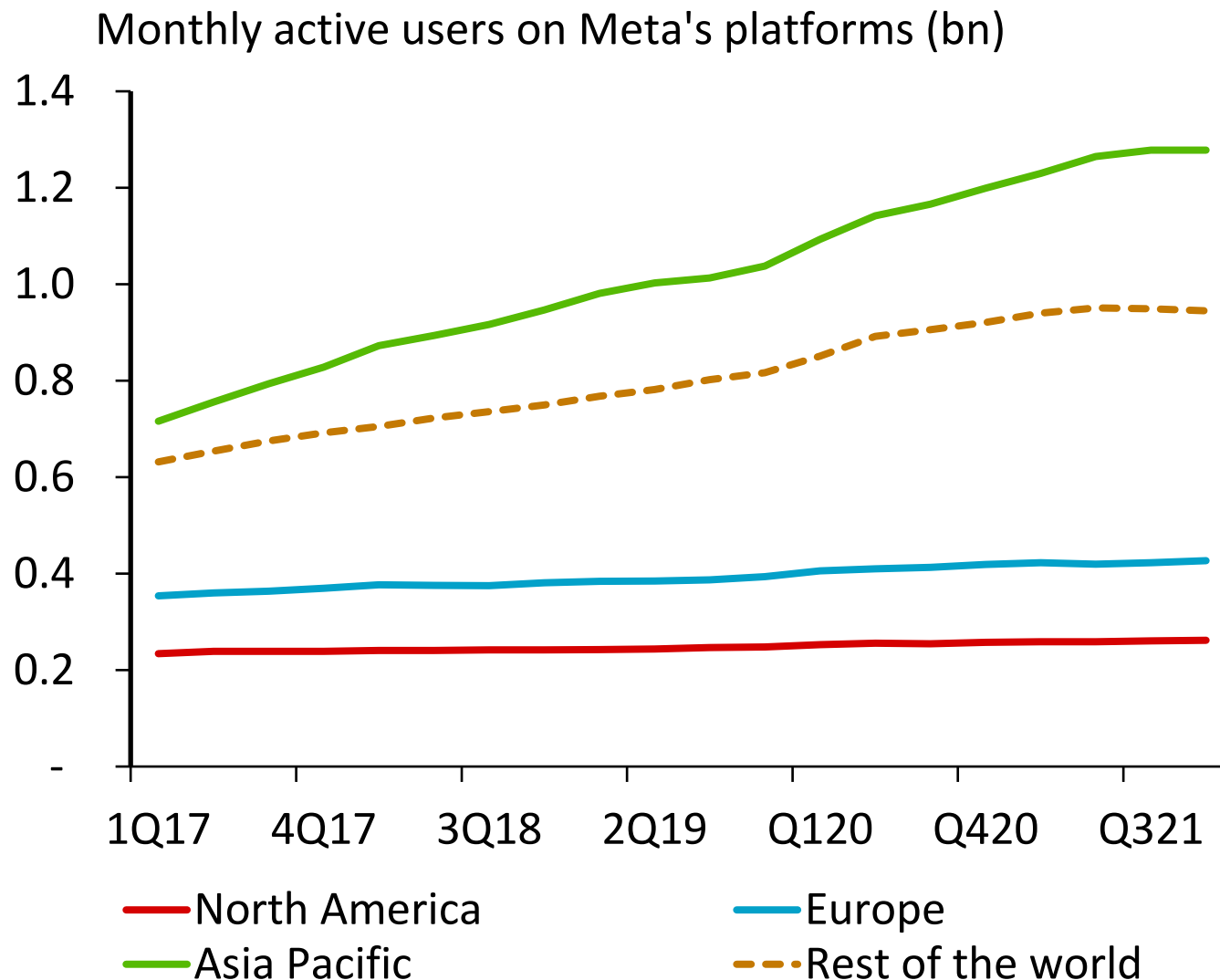
Story

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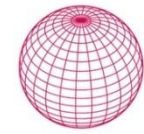
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Risks



- ★ While the American and European market has been mature for a while, Asia still provided a massive growth potential
 - However, the pace of new users also starts to stagnate
- ★ With over 3.5bn+ active users on its platforms, Meta covers more than 65% of the internet population
 - Hence, it is close to reach maximum saturation



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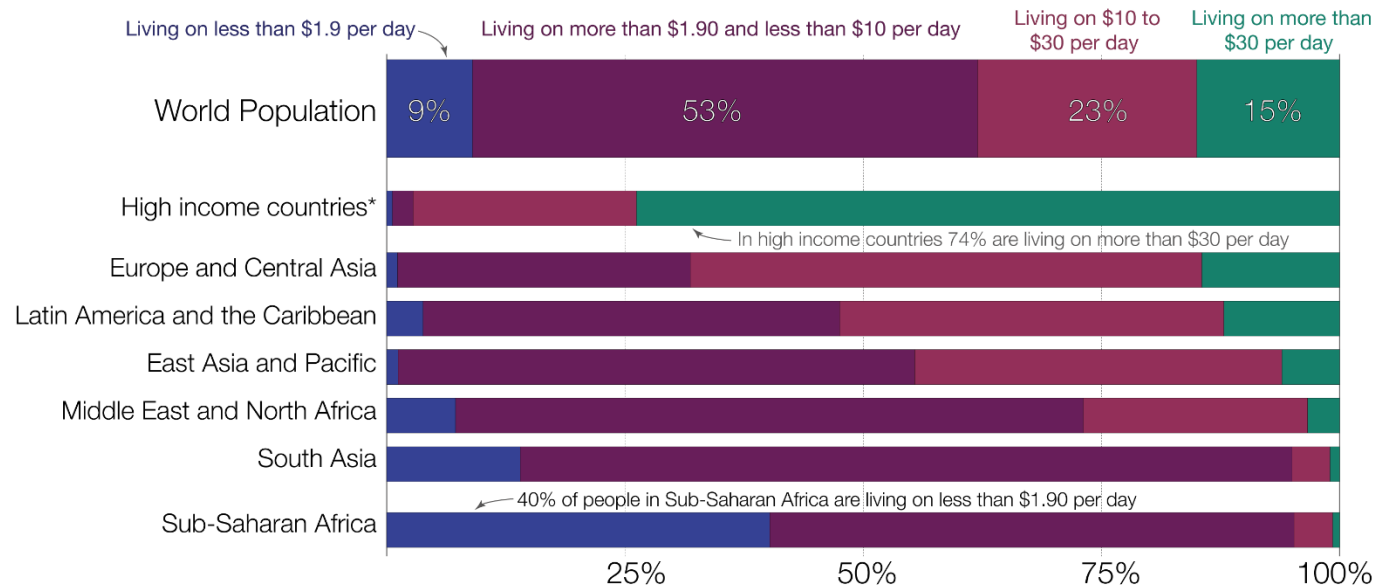
Value

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Risks

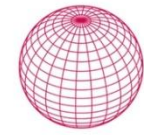
The global income distribution by world region

Measurement: All data is expressed in *international-dollars*, which means it is adjusted for price differences between countries. One international-\$ has the same purchasing power as one US-\$ *in the US*. This means no matter where in the world a person is living on int.-\$10, they can buy the goods and services that cost \$10 *in the US*.



- ★ 700m people live on less than US\$2 per day
- ★ Maybe another 16% or about 1.3bn people live on US\$2 to US\$5 per day
- ★ 1.4bn people in China don't have access to Facebook
- ★ So, my rough estimate of market size is 4.6bn (8bn - 0.7bn -1.3bn -1.4bn) people of which 3.5bn, or 76% are Meta customers

Meta should focus on getting more revenue out of its users



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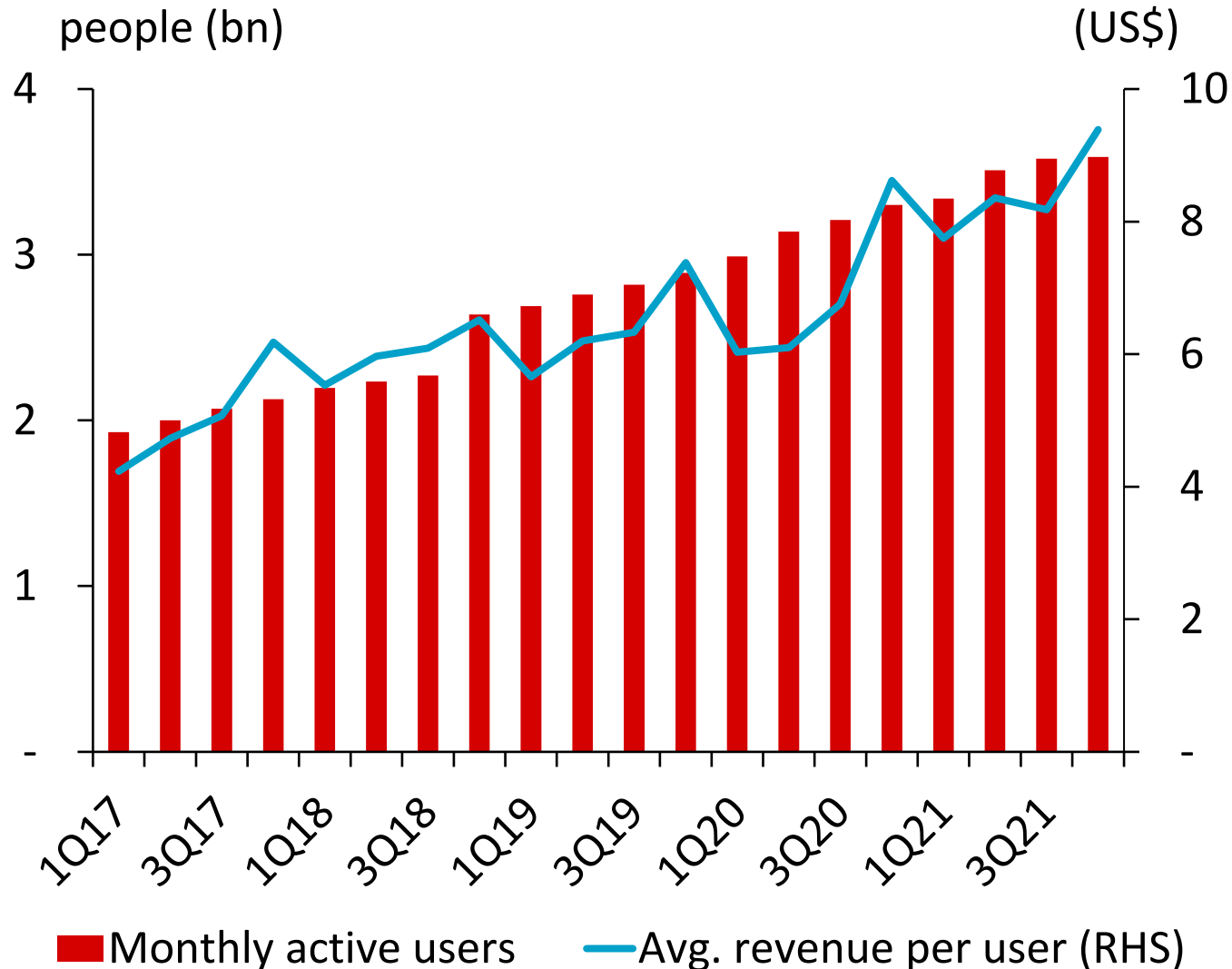
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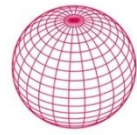
- ★ The average revenue per user (ARPU) has been steadily increasing over time, and could drive further growth of its advertising business
- ★ There are still large differences across the regions
 - In the US, ARPU has risen to \$41 in 4Q21, compared to US\$13 in Europe
 - Asia is even lower with an ARPU of US\$3.6, but could grow in the future

How I incorporated the story in my forecast

| Revenue breakdown | 19 | 20 | 21 | 22E | 23E | 24E |
|----------------------------------|-----|-----|-----|-----|-----|------|
| Active users (bn) | 2.8 | 3.2 | 3.5 | 3.7 | 3.8 | 3.9 |
| Rev. per user (US\$ per quarter) | 6.4 | 6.9 | 8.4 | 8.7 | 9.5 | 10.1 |
| Advertising revenue (US\$bn) | 71 | 86 | 116 | 129 | 143 | 156 |

- I expect low growth in active users as Facebook starts to hit the ceiling here
- The company needs to shift to raising price instead of growing quantity
 - **It can do so because it still is the dominant social media platform**





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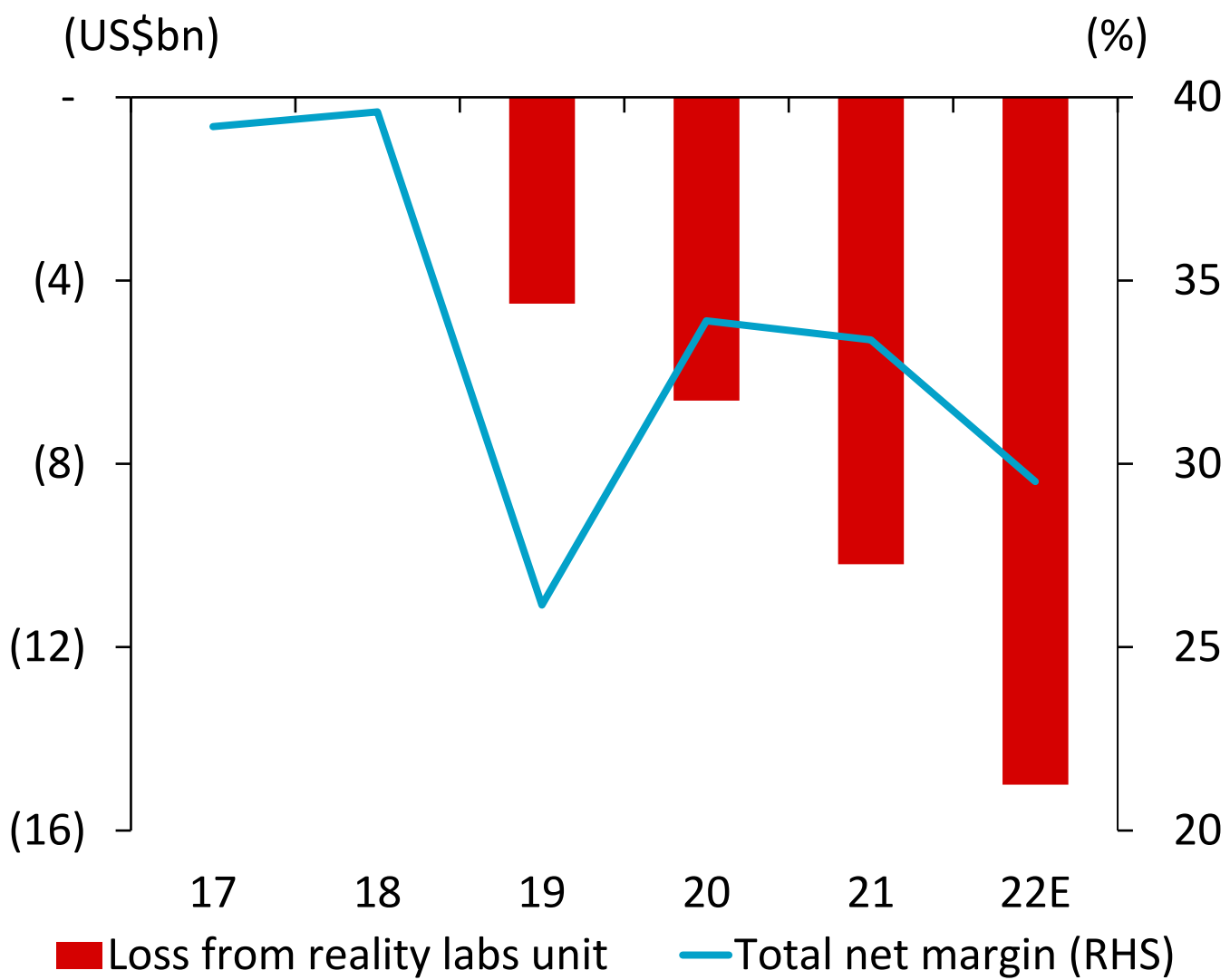
- ★ The company's strategy is to transition from a social platform into an entire virtual world called metaverse
 - **The main concept is to take the digital experience to a new level**
- ★ Therefore, Meta has created its new reporting unit "Reality Labs"
 - **Its product range covers virtual reality headsets and development of games, smart glasses, presence platforms, and work-related applications**



Operating losses from new business unit could worsen further



- Sales
- Story
- FVMR
- Value
- WCB
- Risks



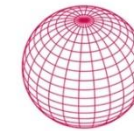
- ★ In 2021, Meta recorded a US\$10bn loss from Reality Labs, dragging profitability
- ★ Still, Meta continues to invest heavily and is willing to accept losses from this unit over the next 5-10 years
 - It has the capacity to do so compared to smaller players
- ★ Meta places a risky bet on the success of the metaverse
 - If the company is right, the share price could skyrocket

How I incorporated the story in my forecast

| Revenue breakdown | 19 | 20 | 21 | 22E | 23E | 24E |
|-------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
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| Advertising revenue (US\$bn) | 71 | 86 | 116 | 129 | 143 | 156 |
| Reality Labs (US\$bn) | 0.5 | 1.1 | 2.3 | 4.0 | 10.0 | 20.0 |
| Total revenue (US\$bn) | 71 | 86 | 118 | 133 | 153 | 176 |
| Net margin (%) | 26.1 | 33.9 | 33.4 | 29.5 | 28.7 | 28.8 |
| Net profit | 18.5 | 29.1 | 39.4 | 39.3 | 44.0 | 50.7 |

- Meta's R&D investment aim to establish its new business unit as the next big growth driver
- The investment is a long run bet as profits are likely to be squeezed in the short run





Sales

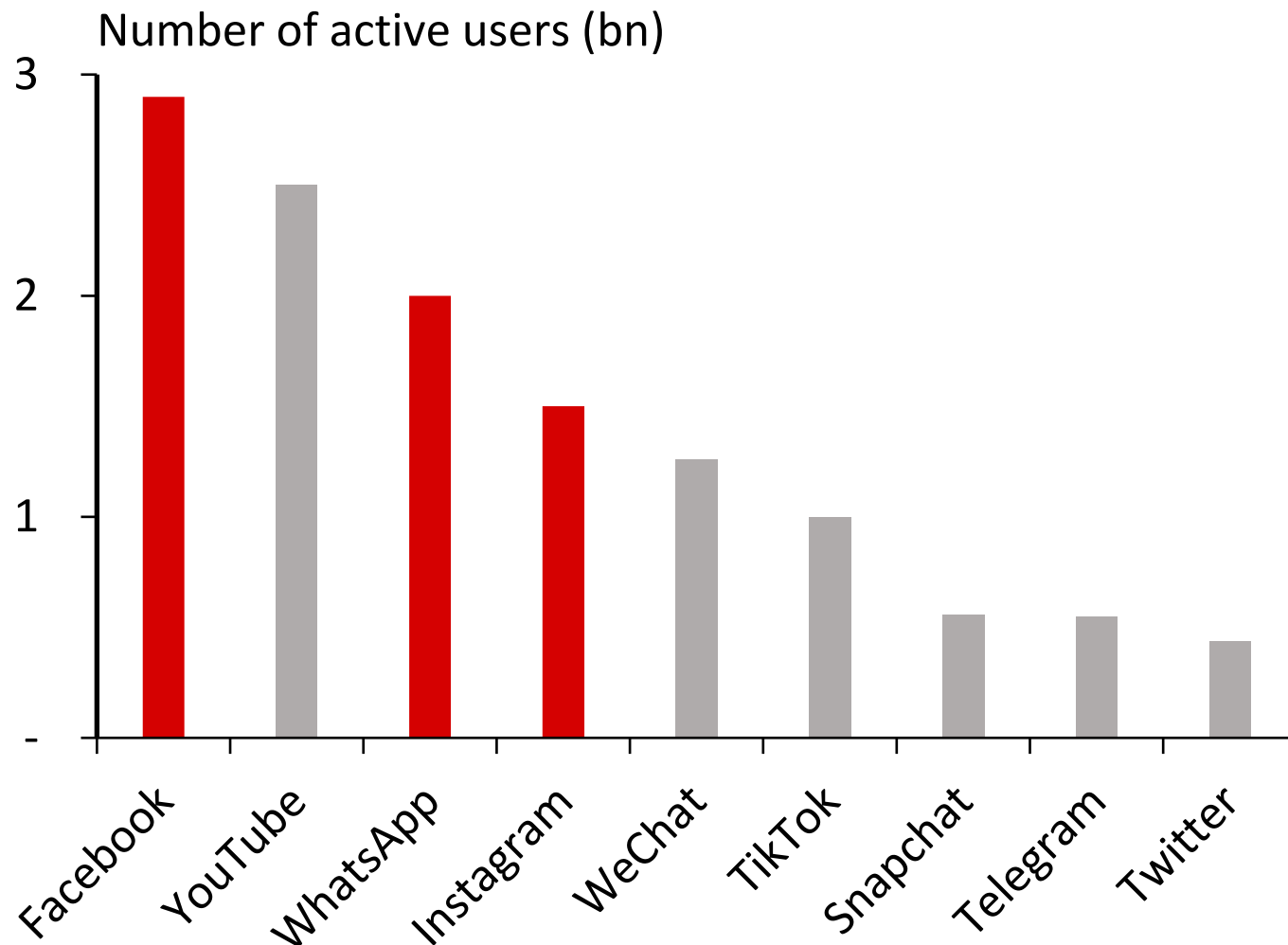
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Risks



- ★ Meta still owns 3 of the 4 most used platforms
- ★ However, new platforms try to differentiate themselves from meta and scale pretty fast as TikTok demonstrated
 - **Founded in 2017, TikTok already records 1bn+ users**
- ★ In particular, Meta fails to attract young users
 - **The shift to the metaverse aims to gain them back**



Sales

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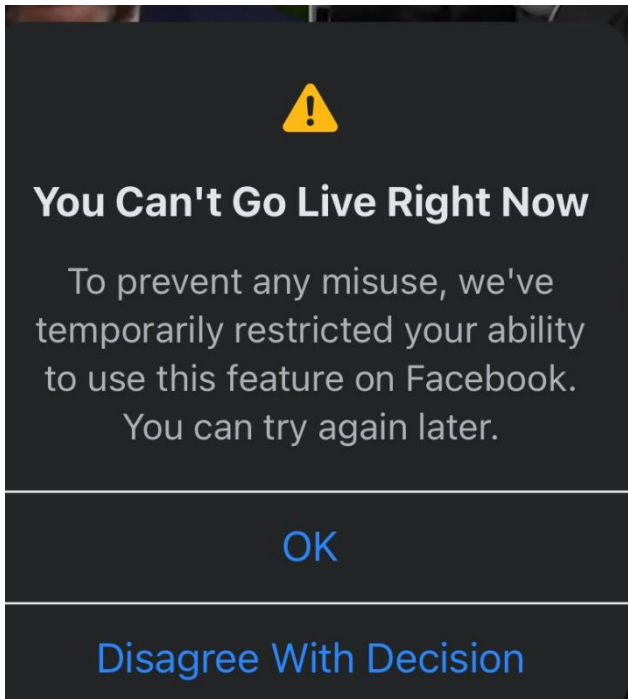
Value

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Risks



★ Even I got put in Facebook jail!



Recent negative news could make it attractive to tap in now



Sales

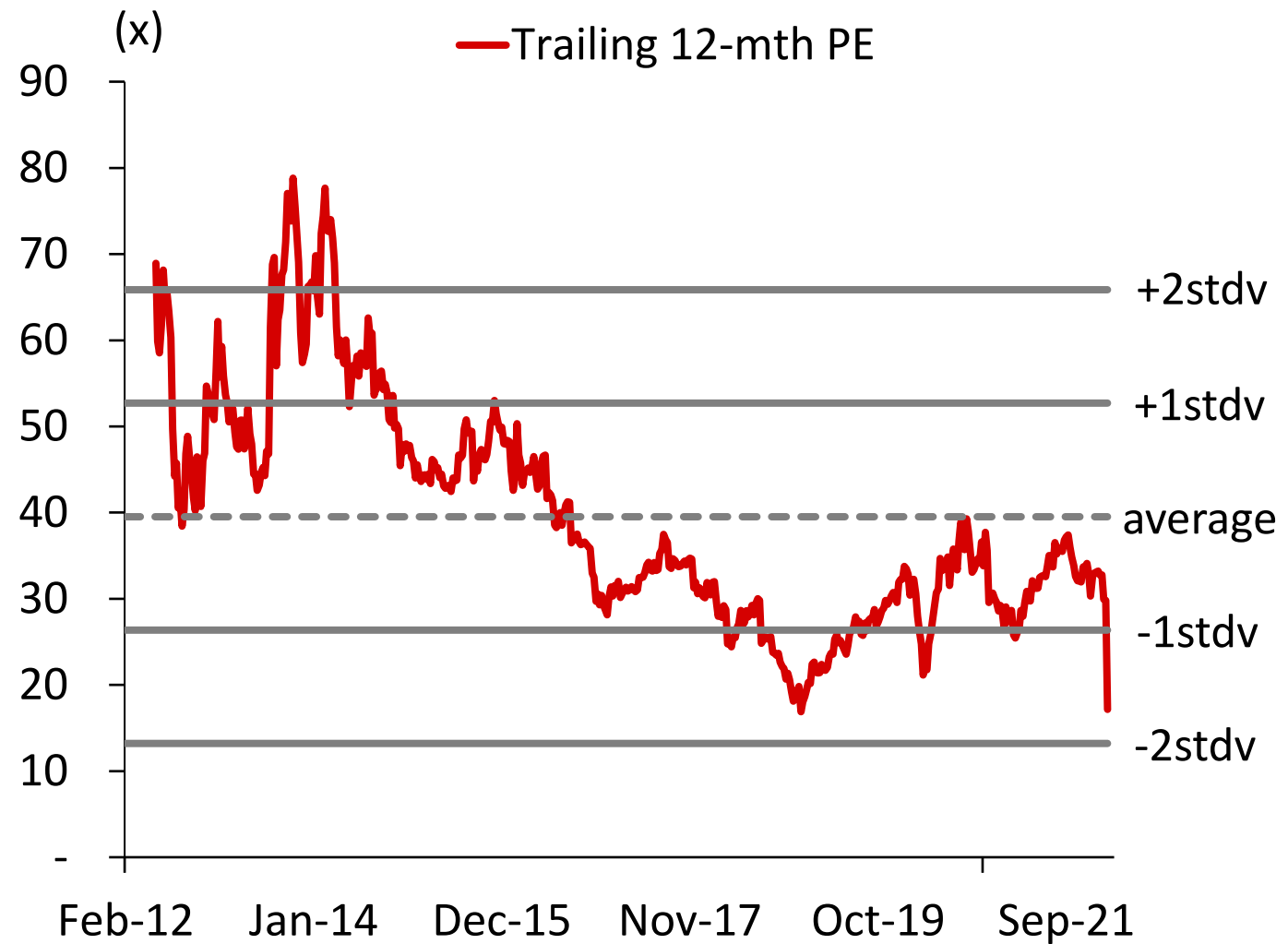
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Risks



- ★ In 2022, the trailing PE ratio has dropped 2x standard deviation below its historical average
 - **With a current PE of 16x, it even trades cheaper than the US average of Comm. Serv. Companies (19x)**
- ★ I believe that the disappointed market punished Meta too much

Forward looking PE does not look expensive

| Revenue breakdown | 19 | 20 | 21 | 22E | 23E | 24E |
|-------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Active users (bn) | 2.8 | 3.2 | 3.5 | 3.5 | 3.6 | 3.7 |
| Rev. per user (US\$ per quarter) | 6.4 | 6.9 | 8.4 | 8.5 | 8.6 | 8.6 |
| Advertising revenue (US\$bn) | 71 | 86 | 116 | 115 | 118 | 119 |
| Reality Labs (US\$bn) | 0.5 | 1.1 | 2.3 | 4.0 | 6.0 | 8.5 |
| Total revenue (US\$bn) | 71 | 86 | 118 | 133 | 153 | 176 |
| Net margin (%) | 26.1 | 33.9 | 33.4 | 29.5 | 28.7 | 28.8 |
| Net profit | 18.5 | 29.1 | 39.4 | 39.3 | 44.0 | 50.7 |
| Market capitalization | 585 | 778 | 935 | 627 | | |
| PE ratio | 31.6 | 26.7 | 23.7 | 15.9 | 14.3 | 12.4 |





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What Is Going to Happen with Inflation?



What Is Going to Happen with Inflation?

By Valuation Master Class Student

Many forces at work impact inflation. There are current trends that cause both inflationary and deflationary measures. Whether we'll see inflation or deflation in the future depends on which of these forces dominate.

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HOW TO VALUE A STARTUP

ANDREW STOTZ



How to Value a Startup

By Andrew Stotz

This story started when Dan, a podcast listener, replied to my recent weekly email with this question, "How do you value a startup, especially if there is no revenue?"

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How to Fight Back When Your Dreams Are Crushed

By Andrew Stotz

The trouble you face is not your fault, and I'm gonna show you how you can fight back. I challenge you to recommit to your dreams today!

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ValuationMasterClass.com

What Does It Mean to Be Financially World Class?



What Does It Mean to Be Financially World Class?

Liabilities To Assets Ratio



What Is Liabilities To Assets Ratio?

Growth Year Over Year



What Is Growth Year Over Year?

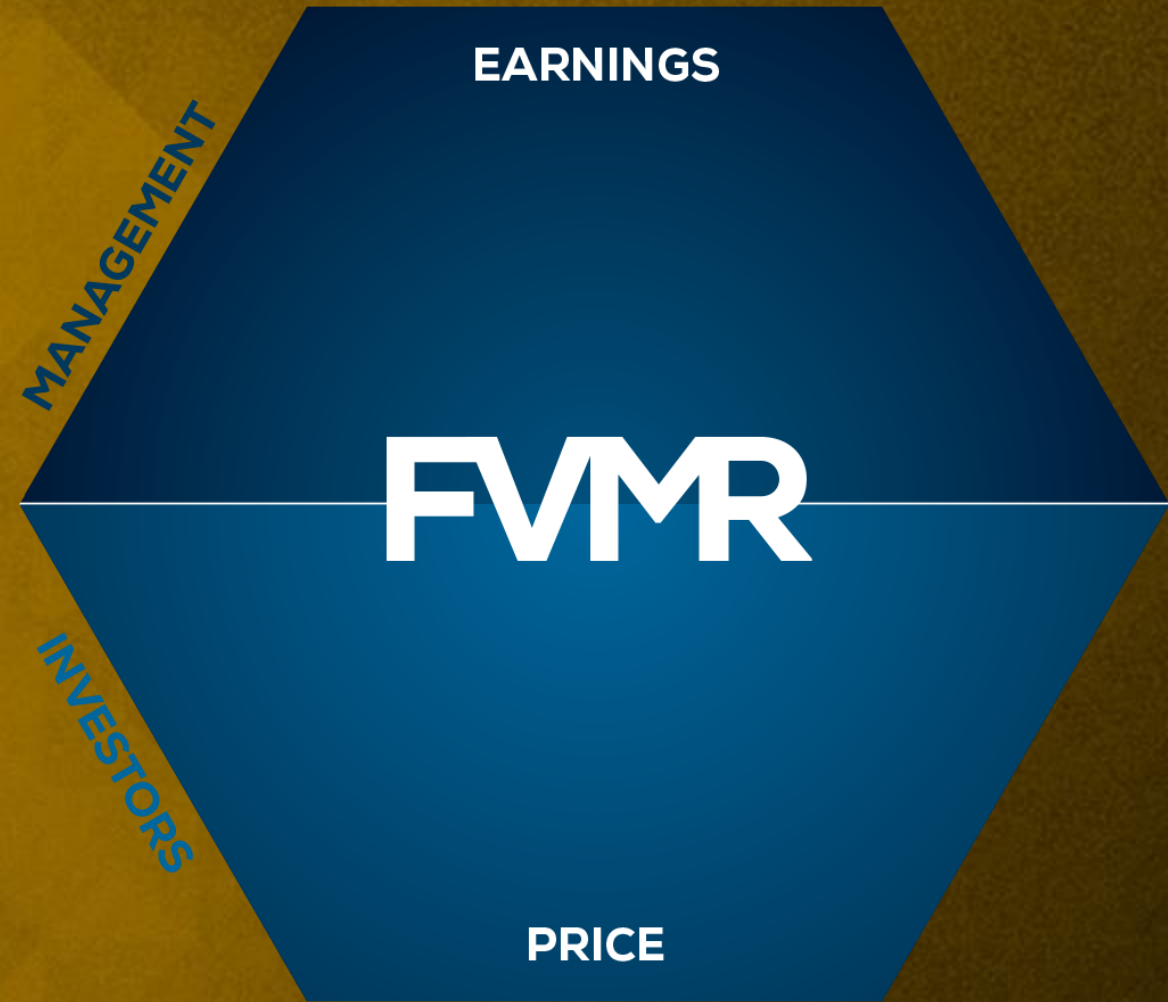
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**It's usually up within 24h.*

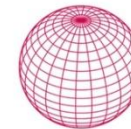


FVMR Scorecard

- ★ Measures a stock's attractiveness relative to all other companies
- ★ Attractiveness is based on four elements
 - Fundamentals, Valuation, Momentum, and Risk
- ★ Scale from 1 (Best) to 10 (Worst)







Sales

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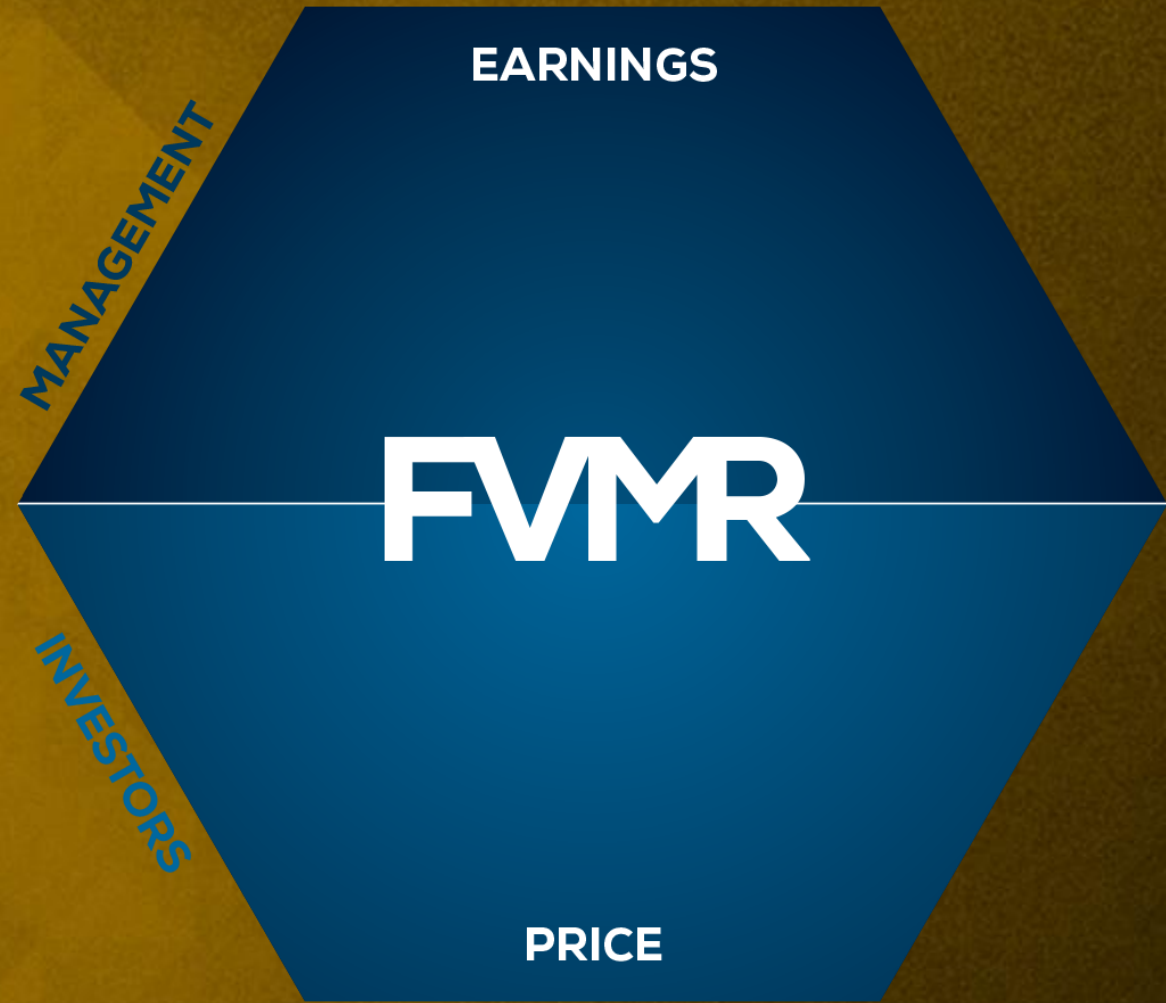
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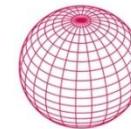
Risks

| Fundamentals | | | | | | W | | | | | | | | | B |
|----------------------------|--------|--------|--------|--------|-------|---|--|--|--|--|--|--|--|--|---|
| (%) | Dec-17 | Dec-18 | Dec-19 | Dec-20 | PTM** | | | | | | | | | | |
| Operating profit margin | 48.7 | 43.6 | 39.8 | 37.5 | 41.3 | | | | | | | | | | |
| Recurring net margin | 44.2 | 39.8 | 31.5 | 34.1 | 35.9 | | | | | | | | | | |
| Asset turnover | 54.4 | 61.4 | 61.3 | 58.7 | 71.1 | | | | | | | | | | |
| Return on assets | 24.0 | 24.4 | 19.3 | 20.0 | 25.5 | | | | | | | | | | |
| Recurring return on equity | 26.9 | 28.0 | 24.1 | 25.6 | 32.1 | | | | | | | | | | |

Recently, I created a short
online course explaining my
FVMR investing approach

I usually sell it
for \$97 but for
a limited time
I am offering
it for FREE





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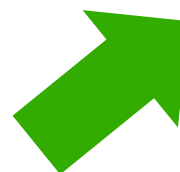
Risks

Analyst consensus valuation

| Recommendation | Oct-21 | Nov-21 | Dec-21 | Current |
|----------------|--------|--------|--------|---------|
| Strong buy | 18 | 18 | 18 | 16 |
| Buy | 29 | 29 | 30 | 29 |
| Hold | 8 | 9 | 9 | 13 |
| Sell | 2 | 1 | 1 | 1 |
| Strong sell | - | - | - | 1 |
| Average score | 1.9 | 1.9 | 1.9 | 2.0 |

| Price target | Nov-21 | Dec-21 | Jan-22 | Current |
|--------------|--------|--------|--------|---------|
| Median | 410 | 410 | 410 | 350 |
| Mean | 402 | 402 | 402 | 343 |

60
analysts

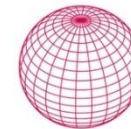


Upside: 59%

Analyst consensus 3-year forecast

| (%) | 19 | 20 | 21 | 22E | 23E | 24E |
|----------------|------|------|------|------|------|------|
| Revenue growth | 2.5 | 21.6 | 37.2 | 13.8 | 16.9 | 11.6 |
| Gross margin | 81.9 | 80.6 | 80.8 | 79.5 | 79.2 | 79.6 |
| EBIT margin | 41.0 | 38.0 | 39.6 | 32.0 | 32.5 | 31.0 |
| Net margin | 26.1 | 33.9 | 33.4 | 27.6 | 27.9 | 26.6 |

- ★ Most analysts has a BUY recommendation, as it sees a massive potential after the share price has been beaten down
- ★ Consensus has already incorporated a significant drop in margin due to the loss-making Reality Lab business unit



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Risks

| (YE Dec, US\$ m) | 2020A | 2021A | 2022E | 2023E |
|---------------------------------------|---------------|---------------|----------------|----------------|
| Revenue | 85,965 | 117,929 | 133,260 | 153,249 |
| Cost of goods & services | (16,692) | (22,649) | (25,319) | (30,650) |
| Gross profit | 69,273 | 95,280 | 107,940 | 122,599 |
| SG&A | (36,602) | (48,527) | (59,967) | (68,962) |
| Other operating (exp)/inc | - | - | - | - |
| EBIT | 32,671 | 46,753 | 47,974 | 53,637 |
| Interest expense (net) | 658 | 446 | 366 | 437 |
| Other non-operating inc/(exp) | (20) | 225 | 225 | 225 |
| Earnings before taxes (EBT) | 33,309 | 47,424 | 48,565 | 54,299 |
| Income tax | (4,034) | (7,914) | (9,227) | (10,317) |
| Earnings after taxes (EAT) | 29,275 | 39,510 | 39,338 | 43,982 |
| Equity income/Minority interest | - | - | - | - |
| Earnings from cont. operations | 29,275 | 39,510 | 39,338 | 43,982 |
| Forex/Exceptionals before tax | (129) | (140) | - | - |
| Net profit | 29,146 | 39,370 | 39,338 | 43,982 |

- ★ In line with management forecast, I don't expect a profit growth in 22E as the Reality Labs unit could make growing losses



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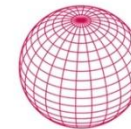
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Risks

| (YE Dec, US\$ m) | 2020A | 2021A | 2022E | 2023E |
|-------------------------------|----------------|----------------|----------------|----------------|
| Cash & short-term investments | 61,954 | 47,998 | 56,870 | 88,579 |
| Accounts receivable | 11,335 | 14,039 | 16,657 | 19,156 |
| Inventories | - | - | - | - |
| Other current assets | 2,381 | 4,629 | 4,664 | 5,364 |
| Total current assets | 75,670 | 66,666 | 78,192 | 113,098 |
| Long-term investments | 6,234 | 6,775 | 7,317 | 7,902 |
| Net fixed assets | 54,981 | 69,964 | 78,206 | 88,509 |
| Intangible assets | 623 | 634 | 717 | 807 |
| Goodwill | 19,050 | 19,197 | 19,773 | 20,366 |
| Other long-term assets | 2,758 | 2,751 | 2,889 | 3,033 |
| Total assets | 159,316 | 165,987 | 187,093 | 233,715 |

- ★ Meta announced to continue investing heavily in data infrastructure and development of new virtual reality products
- ★ Also, it has a large, US\$50bn amount of cash, equaling 1/3 of its total assets

Balance sheet - liabilities



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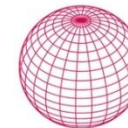
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Risks

| (YE Dec, US\$ m) | 2020A | 2021A | 2022E | 2023E |
|--|----------------|----------------|----------------|----------------|
| Overdrafts & short-term loans | 54 | 75 | 73 | 74 |
| Accounts payable | 8,069 | 12,933 | 14,418 | 17,453 |
| Other current liabilities | 6,858 | 8,127 | 7,996 | 9,195 |
| Total current liabilities | 14,981 | 21,135 | 22,487 | 26,722 |
| Long-term debt | 469 | 506 | 513 | 519 |
| Other long-term liabilities | 15,576 | 19,467 | 19,856 | 20,253 |
| Total liabilities | 31,026 | 41,108 | 42,857 | 47,494 |
| Minority interest | - | - | - | - |
| Paid-up capital - Common shares | 50,018 | 55,811 | 55,811 | 55,811 |
| Paid-up capital - Preferred shares | - | - | - | - |
| Retained earnings | 77,345 | 69,761 | 109,099 | 153,081 |
| Revaluation/Forex/Others | 927 | (693) | (20,673) | (22,671) |
| Total equity | 128,290 | 124,879 | 144,237 | 186,221 |
| Total liab & shareholders' equity | 159,316 | 165,987 | 187,093 | 233,715 |

- ★ Meta is net cash and has very low debt, which is quite typical for fast-growing companies



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| (YE Dec) | 2020A | 2021A | 2022E | 2023E |
|--------------------------------|-------|-------|-------|-------|
| General growth (YoY, %) | | | | |
| Revenue | 21.6 | 37.2 | 13.0 | 15.0 |
| Assets | 19.4 | 4.2 | 12.7 | 24.9 |
| Gross profit | 19.6 | 37.5 | 13.3 | 13.6 |
| Operating profit | 12.7 | 43.1 | 2.6 | 11.8 |
| Attributable profit | 57.7 | 35.1 | (0.1) | 11.8 |
| EPS | 57.8 | 37.8 | 3.6 | 13.9 |
| Recurring EPS | 30.7 | 36.3 | 3.3 | 13.9 |
| Du Pont analysis (%) | | | | |
| Net profit margin | 33.9 | 33.4 | 29.5 | 28.7 |
| Revenue per US\$100 of assets | 58.7 | 72.5 | 75.5 | 72.8 |
| Assets/equity (x) | 2.9 | 2.8 | 2.9 | 2.8 |
| Return on equity | 56.8 | 68.8 | 65.0 | 59.2 |
| Others (%) | | | | |
| Effective tax rate | 12.2 | 16.7 | 19.0 | 19.0 |
| Dividend payout ratio | - | - | - | - |

- ★ Meta has a remarkable consistent profitability, which is far above the sector average ROE of 18%



Sales

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Risks

| (YE Dec) | 2020A | 2021A | 2022E | 2023E |
|---------------------------------|---------|---------|---------|---------|
| Internal liquidity (x) | | | | |
| Current ratio | 5.1 | 3.2 | 3.5 | 4.2 |
| Quick, or acid test ratio | 5.1 | 3.2 | 3.5 | 4.2 |
| Working cap. mgmt (Days) | | | | |
| Inventory conversion period | - | - | - | - |
| Receivables collection period | 44 | 39 | 41 | 42 |
| Days from raw mat to coll | 44 | 39 | 41 | 42 |
| Payables deferral period | 201 | 167 | 194 | 187 |
| Cash conversion cycle | (157) | (128) | (153) | (145) |
| Profitability ratios (%) | | | | |
| Gross profit margin | 80.6 | 80.8 | 81.0 | 80.0 |
| EBIT margin | 38.0 | 39.6 | 36.0 | 35.0 |
| EBIT return on avg assets | 22.3 | 28.7 | 27.2 | 25.5 |
| Return on average assets | 19.9 | 24.2 | 22.3 | 20.9 |
| Financial risk (x) | | | | |
| Liabilities-to-assets (%) | 19.5 | 24.8 | 22.9 | 20.3 |
| Debt-to-equity | 0.0 | 0.0 | 0.0 | 0.0 |
| Net debt-to-equity | (1.1) | (0.8) | (0.9) | (1.0) |
| Times-interest-earned | 2,823.8 | 3,648.0 | 3,366.5 | 3,805.1 |
| Effective interest rate (%) | 2.8 | 2.7 | 3.0 | 3.0 |

- ★ Profitability is dragged in the short run
 - However, in the long run, the contribution of the metaverse business could bring profitability back to its previous heights

If you want to learn how to value companies like this,
check out my 6-week, online

Valuation Master Class Boot Camp

- 🌐 **PRACTICAL** – Learn practical stock valuation skills and apply them to value actual companies
- 🌐 **FOCUSED** – Access the tools, tips, and tricks I used to become a #1 financial analyst
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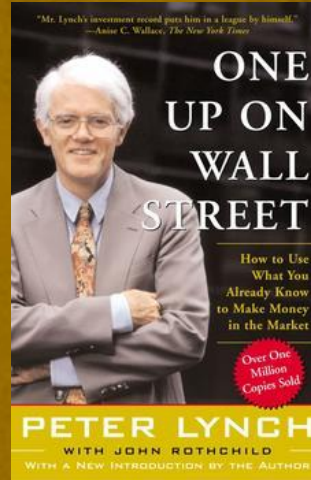


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A. Stotz Investment Research Stock Picking Checklist

Inspired by

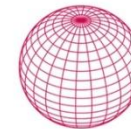
Peter Lynch's book



- ★ Where he talked about "ten baggers", which are stocks that go up 10x
- ★ We did extensive research on ten baggers and found
- ★ 9 factors that drive long-term share price performance



Long-term share price performance potential



VALUATION MASTER CLASS

Sales

Story

FVMR

WCB

Ratios

Value

Risks

A. Stotz Investment Research

Stock Picking Checklist

Potential

Comment

1. **Management** – Commitment to growth

Good

Meta saw massive 30% revenue CAGR over the past 5 years and looks for new growth areas

2. **Growth** – Can grow at double-digits

Good

Virtual reality could become the next big thing

3. **Margin** – High gross margin

Good

Gross margin is one of a kind

4. **Predictability** – Minimal non-core expenses

Good

Net profit has been stable and growing; in some years lawsuits slightly dragged profit

5. **Intensity** – Sales grow faster than assets

Moderate

Heavy investment in data infrastructure required, but sales could skyrocket afterward

6. **Conversion** – Low cash conversion cycle

Good

Cash conversion cycle is negative

7. **Cash flow** – Consistently positive cash flow

Good

Consistent and strong operating cash flows were able to cover investing outflows

8. **Capital** – Access to capital

Good

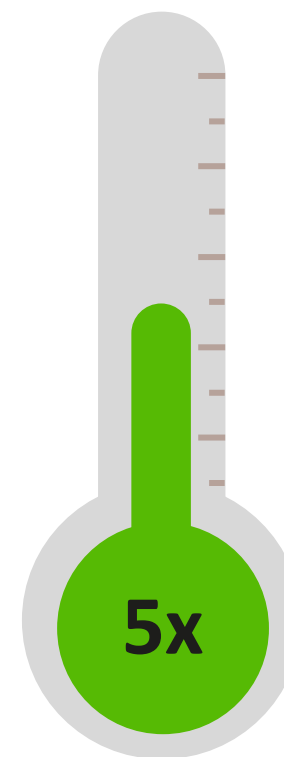
Meta is net cash

9. **Valuation** – Reasonable valuation

Moderate

Trades low on 22E PE compared to US Comm. Serv.; high on PB but justified by higher ROE

10x Bagger Potential





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Risks

| (YE Dec, US\$ m) | 2020A | 2021A | 2022E | 2023E |
|---------------------------------|----------------|---------------|----------------|---------------|
| EBIT | 32,671 | 46,753 | 47,974 | 53,637 |
| Est tax rate (%) | 12 | 17 | 19 | 19 |
| NOPAT | 28,699 | 38,928 | 38,859 | 43,446 |
| Add: Depre & amort | 6,862 | 7,967 | 10,999 | 13,684 |
| Less: CAPEX | (15,115) | (18,567) | (18,839) | (23,549) |
| Chg in A/R | (1,817) | (2,704) | (2,618) | (2,499) |
| Chg in inventory | - | - | - | - |
| Chg in oth curr assets | (529) | (2,248) | (35) | (700) |
| Chg in A/P | (2,516) | 4,864 | 1,485 | 3,035 |
| Chg in oth curr liabs | 2,445 | 1,269 | (131) | 1,199 |
| Less: Chg in working cap | (2,417) | 1,181 | (1,300) | 1,036 |
| Less: Chg in invest cap | | | | |
| Free cash flow to firm | 18,029 | 29,509 | 29,718 | 34,618 |

- ★ Meta has delivered strongly on cash flow in the past and I expect rising FCFF in the future



Sales

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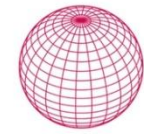
WCB

Risks

| Forecast assumptions | | | |
|-----------------------|----------------|-----------|----------------|
| | 3-year average | Consensus | My assumptions |
| Revenue growth (CAGR) | | 14.1 | 14.3 |
| Gross margin | | 79.4 | 80.3 |
| EBIT margin | | 31.8 | 35.3 |
| Net margin | | 27.4 | 29.0 |

| My valuation method | | | |
|----------------------------------|--|------|--|
| Market: United States of America | | | |
| Market risk-free rate | | 2.5 | |
| Market equity risk premium | | 9.0 | |
| Market return | | 11.5 | |
| Company beta (x) | | 1.0 | |
| COE | | 11.5 | |
| Valuation Method: FCFF | | | |
| WACC | | 10.9 | |
| Terminal growth rate | | 5.0 | |

- ★ I expect similar revenue growth compared to the consensus
- ★ However, I am a bit more optimistic with regards to the margin in the short run
 - Meta’s ability to increase prices for ads could offset the losses from the metaverse segment better than expected



Sales

Story

FVMR

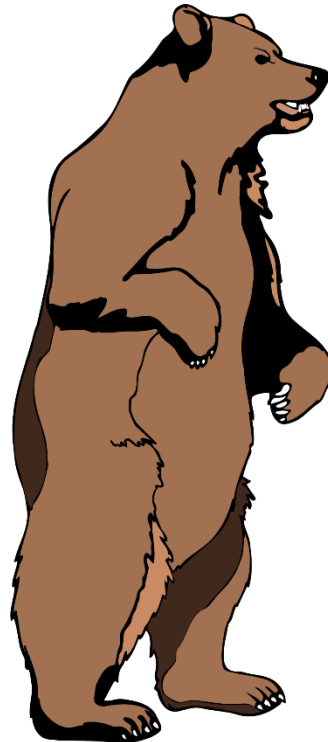
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Ratios

Value

Risks

Bear
US\$310
(Upside 41%)



Base
US\$339
(Upside 54%)



Bull
US\$368
(Upside 67%)

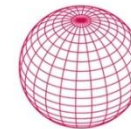


World Class Benchmarking Scorecard

- ★ We identify a company's competitive position relative to global peers
- ★ We use a composite rank of profitability and growth, called "Profitable Growth"
- ★ Scale from 1 (Best) to 10 (Worst)



Astonishing profitability and good growth



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Sales

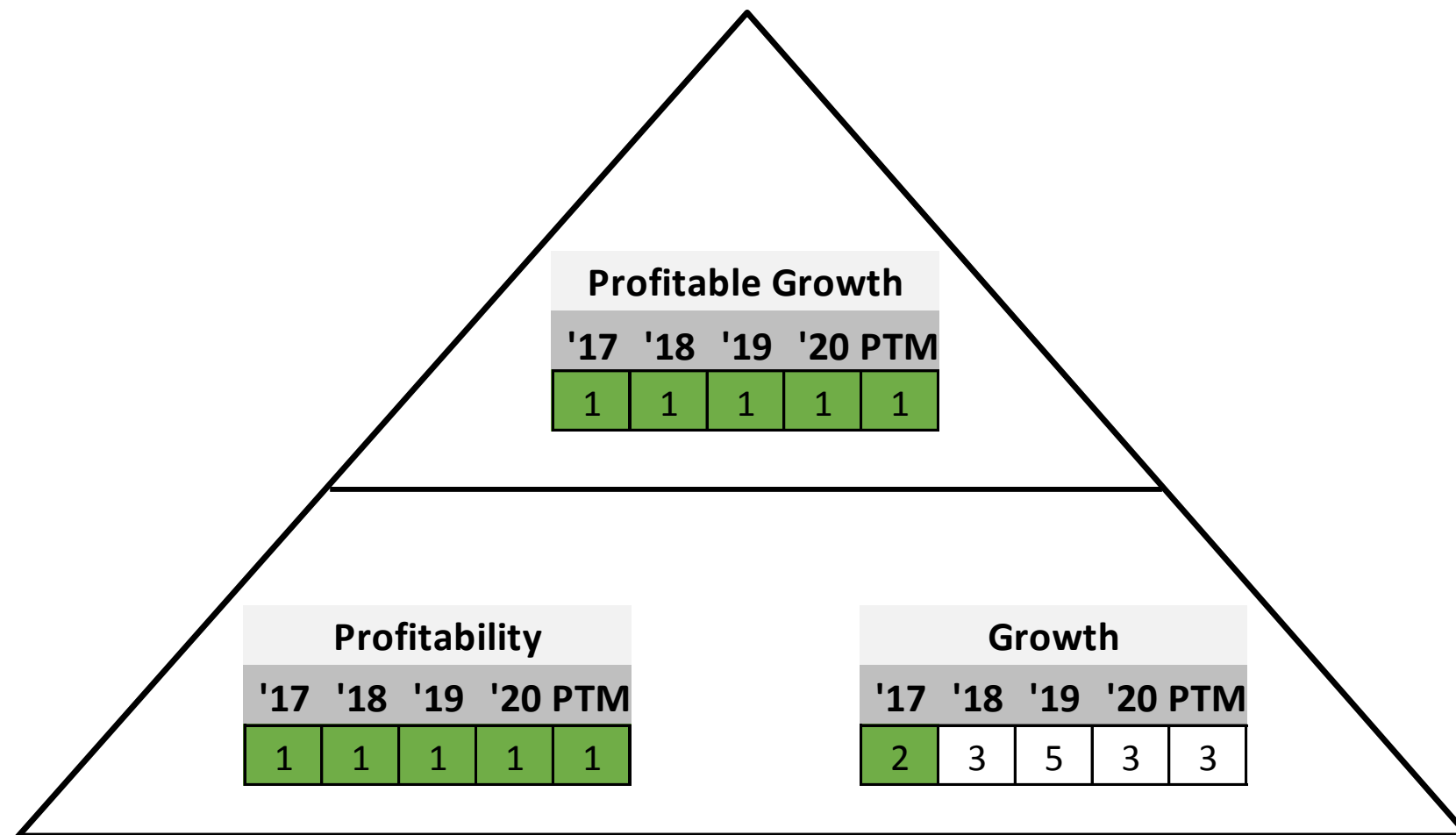
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Benchmarked against 270 large Comm. Serv. companies worldwide.



Sales

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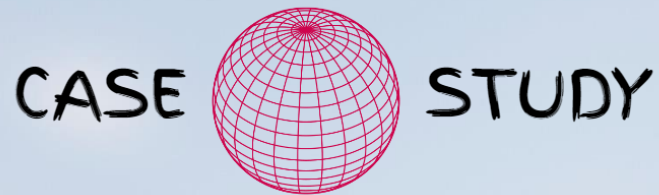
Risks

- ★ Failure to attract young people to its social media platforms
- ★ Rising competition that grows out of nothing
- ★ Metaverse could just be a bubble waiting to explode
- ★ Regulatory pressure

CONCLUSION

- High pricing power could offset slowing pace of new user addition
- Investment in Metaverse is risky, but could become a double-digit growth engine
- Massive ROE makes it an attractive play





VALUATION MASTER CLASS

by
A. Stolz INVESTMENT
RESEARCH

Will **Meta** get more
of your **cash**?

