



LESSONS FROM THE TRENCHES:
VALUE INVESTING,
ENTREPRENEURSHIP & LIFE

BETTING ON THE BEST: ALPHABET AND FACEBOOK

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ALPHABET



KASE LEARNING

THE BASICS

- Stock price (10/2/18 close): \$1,207.64 (GOOGL)
- Market cap: \$837 billion
- Cash & STI: \$102 billion (\$147/share)
- Debt: \$4 billion
- Enterprise value: \$739 billion
- 2018 est. EPS (normalized) and P/E: \$46.53, 26.0x

Q2 '18 EARNINGS WERE EXCEPTIONAL

- Revenue up 26% (23% constant currency)
- Operating cash flow up 37%
- Aggregate paid clicks up 58%

GOOGLE WAS MY WORST CALL EVER

- In a column published on The Motley Fool website on July 30, 2004 entitled *The Tech Stock Opportunity*, I wrote:

Just as Google came out of nowhere to unseat Yahoo! as the leading search engine, so might another company do this to Google. I admire Google and what it has accomplished -- and I'm a happy user -- but I am quite certain that there is only a fairly shallow, narrow moat around its business.

Think about it. What are the odds that it is the leading search engine in five years (much less 20)? 50/50 at best, I suspect, and I'd wager that odds are at least 90% that its profit margins and growth rate will be materially lower five years from now. Yet investors appear ready to value this company at as much as \$36 billion, nearly 200 times trailing earnings! Google with the same market cap of McDonald's (a stock I own)?! HA! I believe that it is virtually certain that Google's stock will be highly disappointing to investors foolish enough to participate in its overhyped offering -- you can hold me to that.

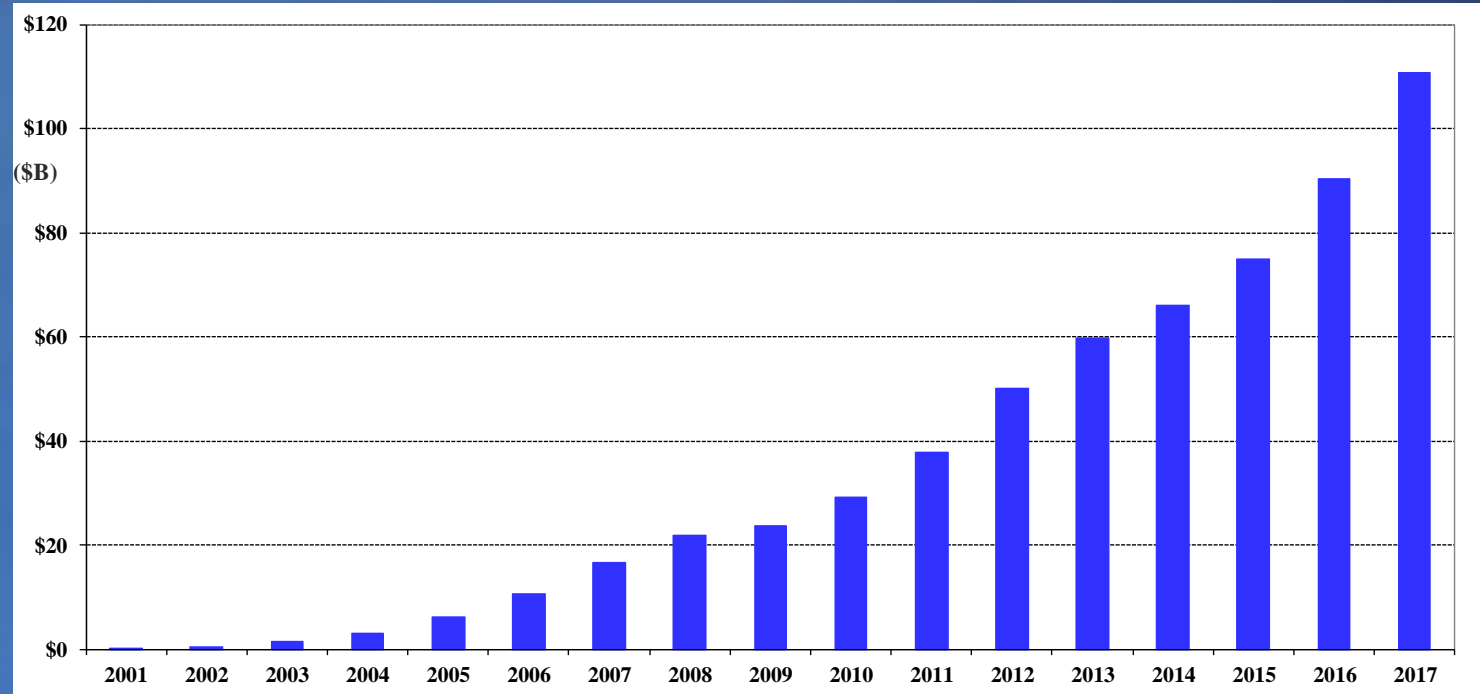
WHAT DID I MISS?

- Google is in enormous, rapidly growing markets
- It has expanded from desktop search into many other areas: Gmail, mobile search, Chrome, app store, YouTube, Google maps, Android, etc.
- I was completely wrong that Google has “only a fairly shallow, narrow moat around its business”; in fact, Google has a very powerful virtuous cycle at work, that leads to a huge moat:

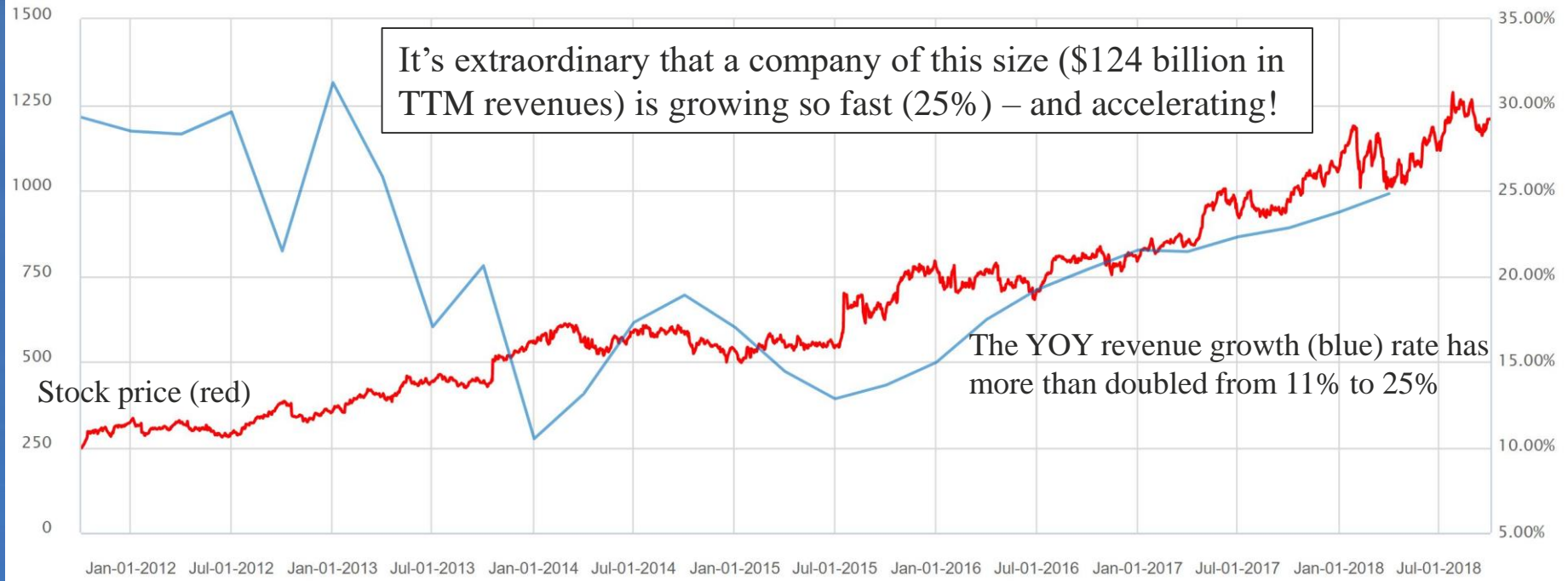


REVENUE GROWTH HAS BEEN REMARKABLE

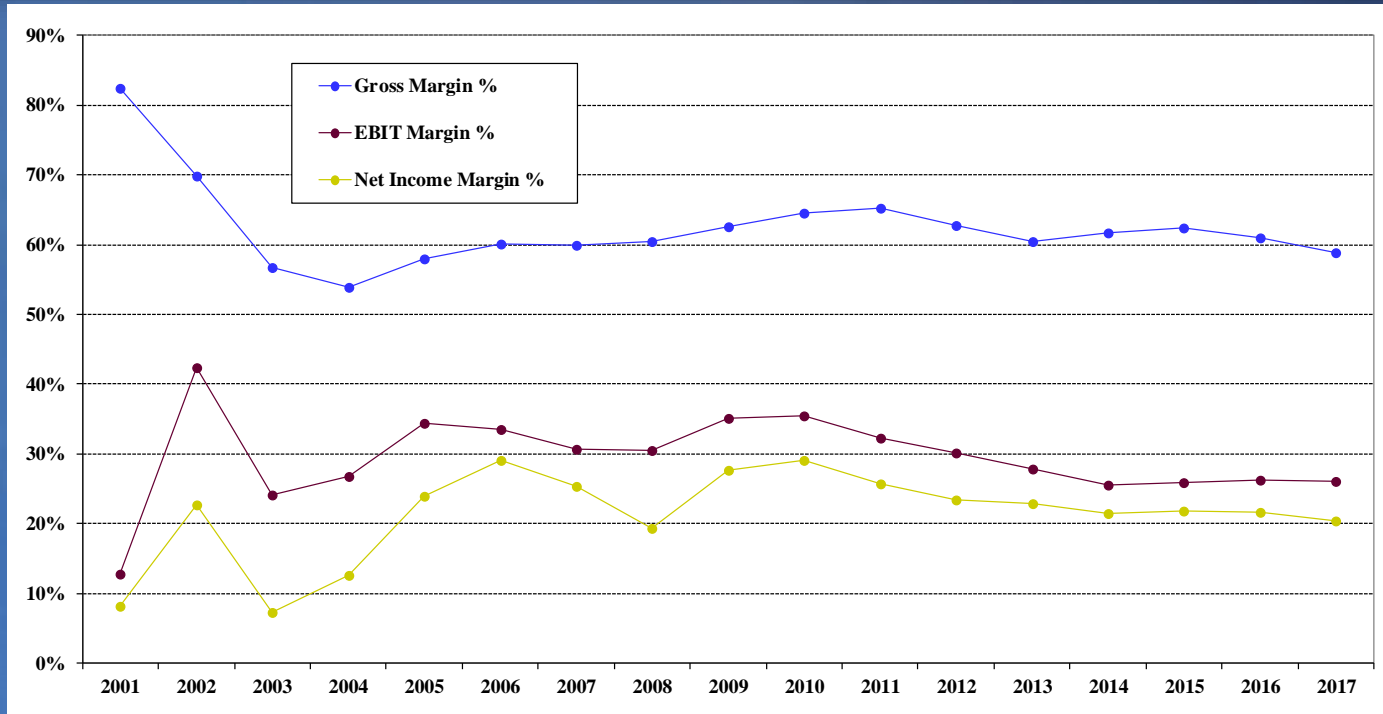
UP 35x SINCE 2004



ALPHABET'S REVENUE GROWTH RATE IS ACCELERATING DESPITE ITS SIZE

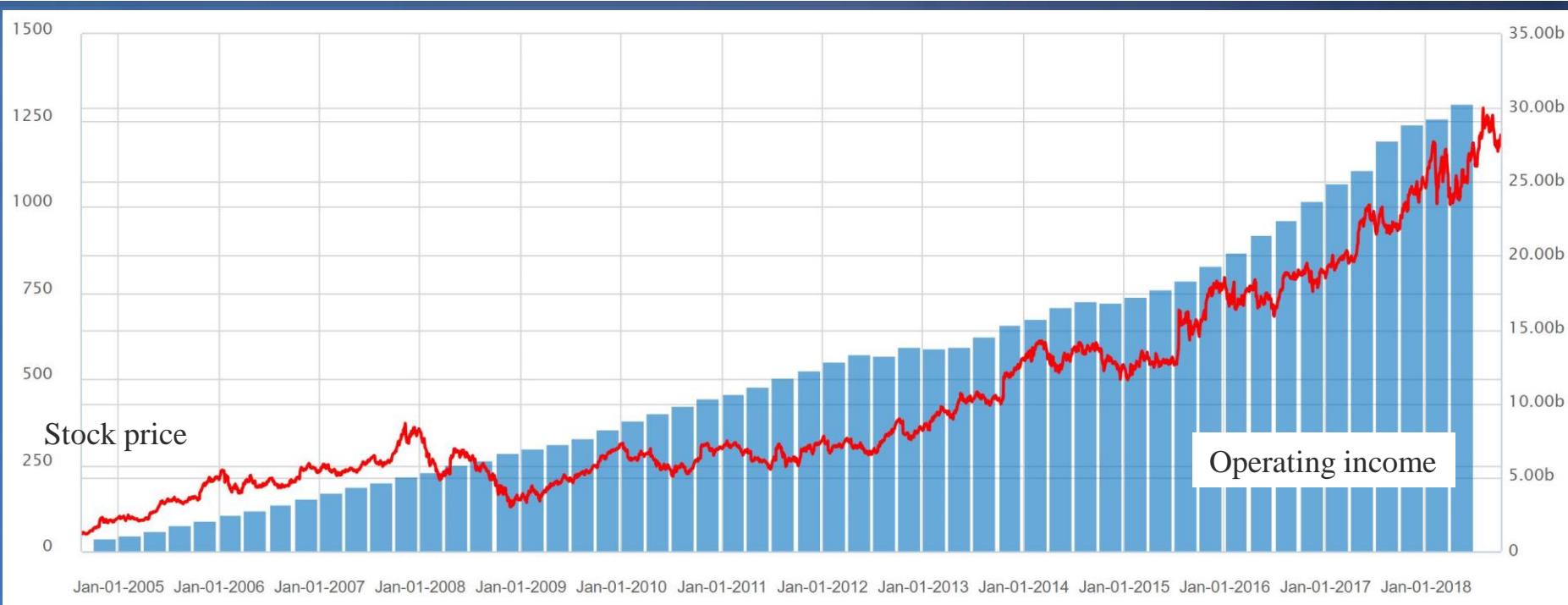


MARGINS ARE HIGH AND STABLE



PROFIT GROWTH HAS BEEN EXTRAORDINARY

The stock has been a 25-bagger since its IPO 14 years ago



ALPHABET IS THE GREATEST BUSINESS ON EARTH

- It dominates its sectors globally, is growing rapidly, has enormous, sustainable competitive advantages in the form of brands, habits, and network effects, and has a low-capital-intensive, high-margin business model that generates gobs of free cash flow
- It has seven products with more than one billion monthly average users: Search, Android, Maps, Chrome, YouTube, Google Play and Gmail
- Google Search has 90% share of search in most countries, Android has ~90% share of smartphones globally (vs. 5% in 2010), and YouTube serves ~20% (and growing) of all video consumed on the internet
- Alphabet currently captures 14-15% of global advertising spending
- 100% of the incremental ad spending in the world is going to Alphabet and Facebook
- There is plenty of room for growth:
 - Enormous trend of advertising moving from traditional media to online
 - Only ~12% of U.S. commerce is online today
 - Smartphone penetration is only ~32% globally

YOUTUBE HAS ENORMOUS POTENTIAL

- The world's second-most visited website (after Google.com), 80% outside of the U.S.
- Video appears to be at an inflection point, and Alphabet has arguably the most valuable video platform in the world, as users watch 1.3 billion hours/day (5 billion videos/day) and upload 300 hours of video every minute
- The average mobile viewing session lasts more than 40 minutes, up with more than 50% year-over-year
- Video is currently ~15% of Alphabet gross advertising revenue, growing at twice Alphabet's overall rate
- Opportunity to increase monetization, as YouTube serves ~20% of the web's videos, yet only ~10% of the web's video ads
- In the U.S. YouTube currently monetizes at 60-70% the level of TV despite significantly better targeting
- Annual revenue/user is slightly below Twitter despite having nearly 3x time spent/user
- If Alphabet spun off YouTube, how would the market value it?
 - How it's currently valued within Alphabet: \$17 billion (est. \$12 billion in revenue * ~4% net margin * 24x) = \$12/share
 - How it could be valued: \$190 billion (assuming 40 cents/hour viewed, half of what cable companies are valued at) = \$270/share (source: Bill Nygren, VII, 5/17)

“OTHER BETS” DEPRESS REPORTED PROFITABILITY

- Alphabet’s “Other Bets” segment includes Waymo (autonomous vehicles), Nest (thermostats), Verily (life sciences & healthcare), Access, Calico, CapitalG, GV, and X
- In 2017, Other Bets generated revenues of \$1.2 billion (up 49% YOY) and operating losses of \$3.4 billion (down 6% YOY; down 19% in Q1 ‘18)
- Alphabet’s operating income in 2017 was \$26.1 billion, so excluding Other Bets, it would have been \$29.5 billion or 13% higher
- Alphabet has invested ~\$25/share into Other Bets; a conservative estimate is that this could be worth ~\$50/share or 4% of Alphabet’s value

BUT WHAT ABOUT VALUATION?

- It's hard to argue that Alphabet is misunderstood, with 40 analysts following the company
- But the stock looks reasonably valued, at 28x next 12-month EPS estimates
- This multiple isn't crazy in light of the quality and growth prospects of Alphabet's core businesses
- They're even less crazy if you adjust for various factors:
 - If you subtract net cash (\$141/share) and the value of Other Bets (\$50/share), and add \$2.7 billion (\$3.89/share) to net income for after-tax losses on Other Bets, Alphabet is trading at 21x NTM earnings estimates – not far above the average for the S&P 500, for a company that is vastly superior to the average large U.S. corporation
 - If you think YouTube adds ~\$250/share of extra value, the P/E drops to 16x
- If revenues continue to grow at ~20% annually and margins and multiples remain steady, then the stock will also grow at ~20% annually

FACEBOOK



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THE BASICS

- Stock price (10/2/18 close): \$159.33
- Market cap: \$460 billion
- Cash & STI: \$42 billion (\$15/share)
- Debt: \$0
- Enterprise value: \$418 billion
- 2018 est. EPS and P/E: \$7.18, 22.2x
- 2019 est. EPS and P/E: \$8.33, 19.1x

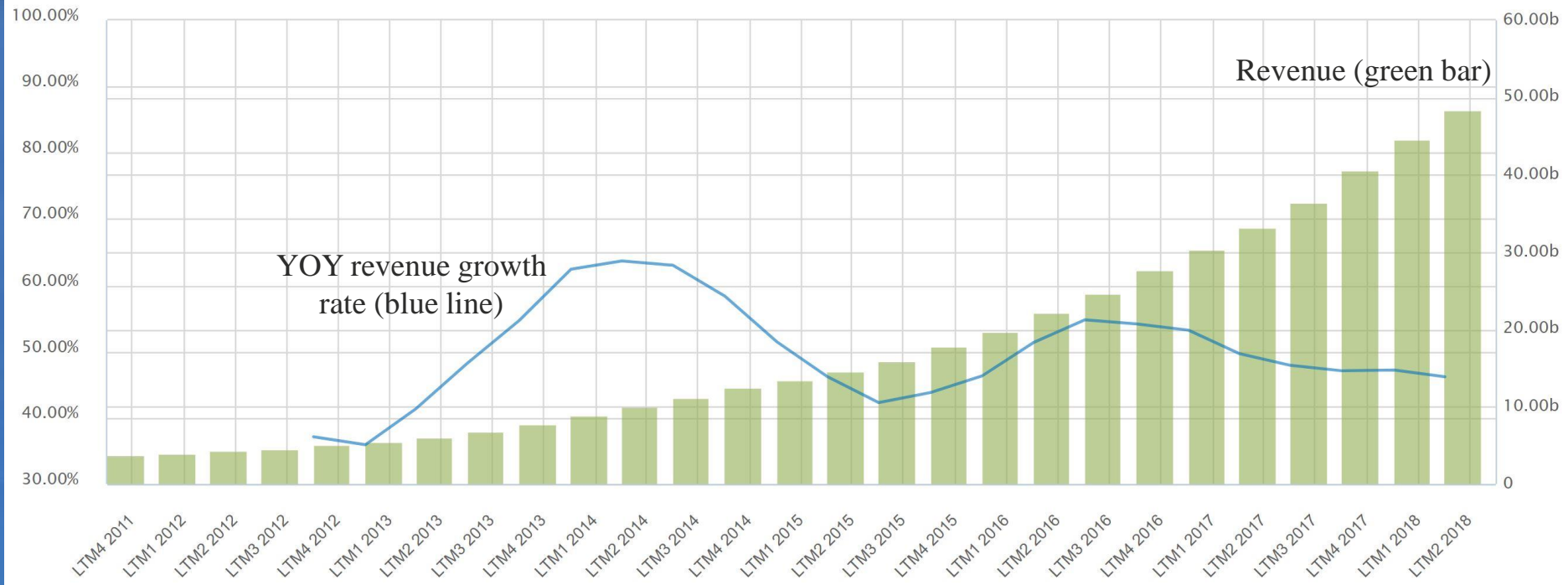
Q2 '18 EARNINGS WERE EXCEPTIONAL

- Revenue up 42%
- EPS up 32%
- Monthly active users at 2.2 *billion* (!), up 11% YOY
 - 2/3 are daily active users (1.47 billion)
 - Massive potential to further monetize users, as Average Revenue Per User is \$25.91 in the U.S. and only \$8.76 in Europe, \$2.62 in Asia/Pacific, and \$1.91 in the rest of the world
- However, guidance was weak and the stock tumbled

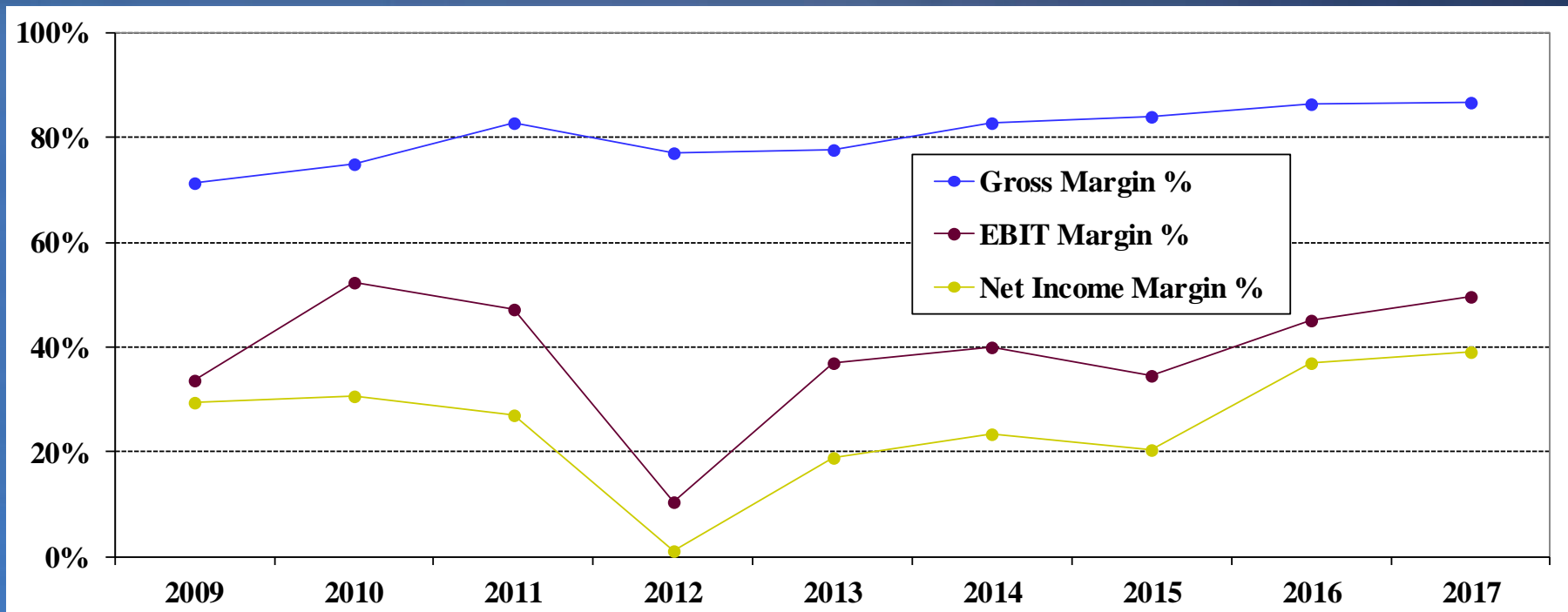
FACEBOOK IS THE 2ND-GREATEST BUSINESS ON EARTH

- It pays nothing for content – users provide it
- It knows more about you than anyone – even Alphabet
- Huge network effects
- Astronomical margins and growth
- It's only 1/3 the size of Alphabet, so more room to grow
- 100% of the incremental ad spending in the world is going to Alphabet and Facebook
- There is plenty of room for growth:
 - Enormous trend of advertising moving from traditional media to online
 - Smartphone penetration is only ~32% globally

FACEBOOK'S REVENUE GROWTH HAS NEVER BEEN BELOW 35%

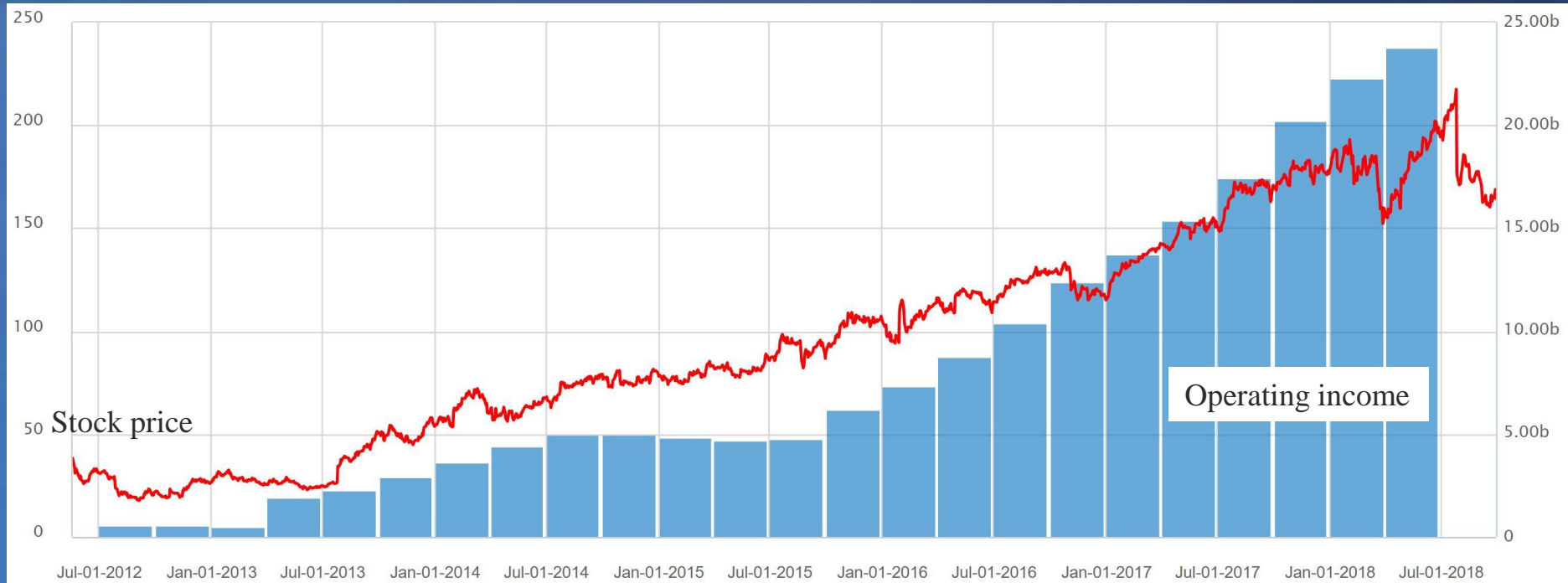


MARGINS ARE ASTRONOMICAL, NEARLY DOUBLE ALPHABET'S

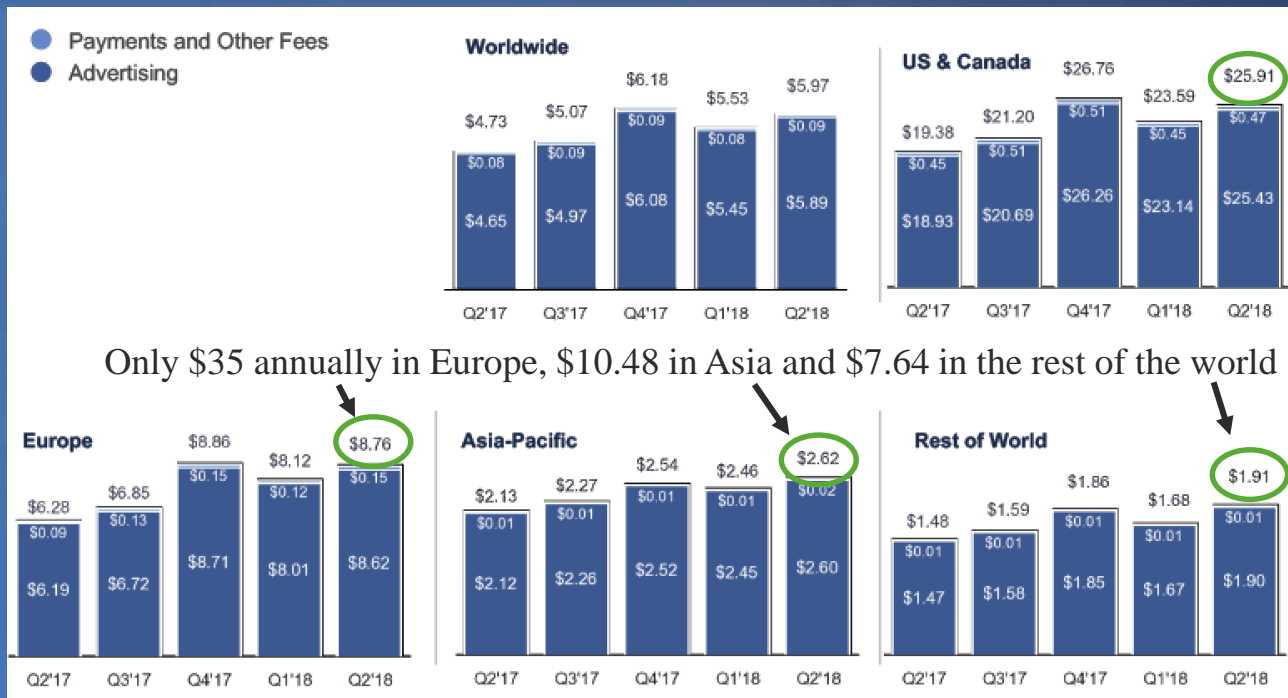


PROFIT GROWTH HAS BEEN EXTRAORDINARY

Earnings continue to soar, but the stock is down 27% in the past three months

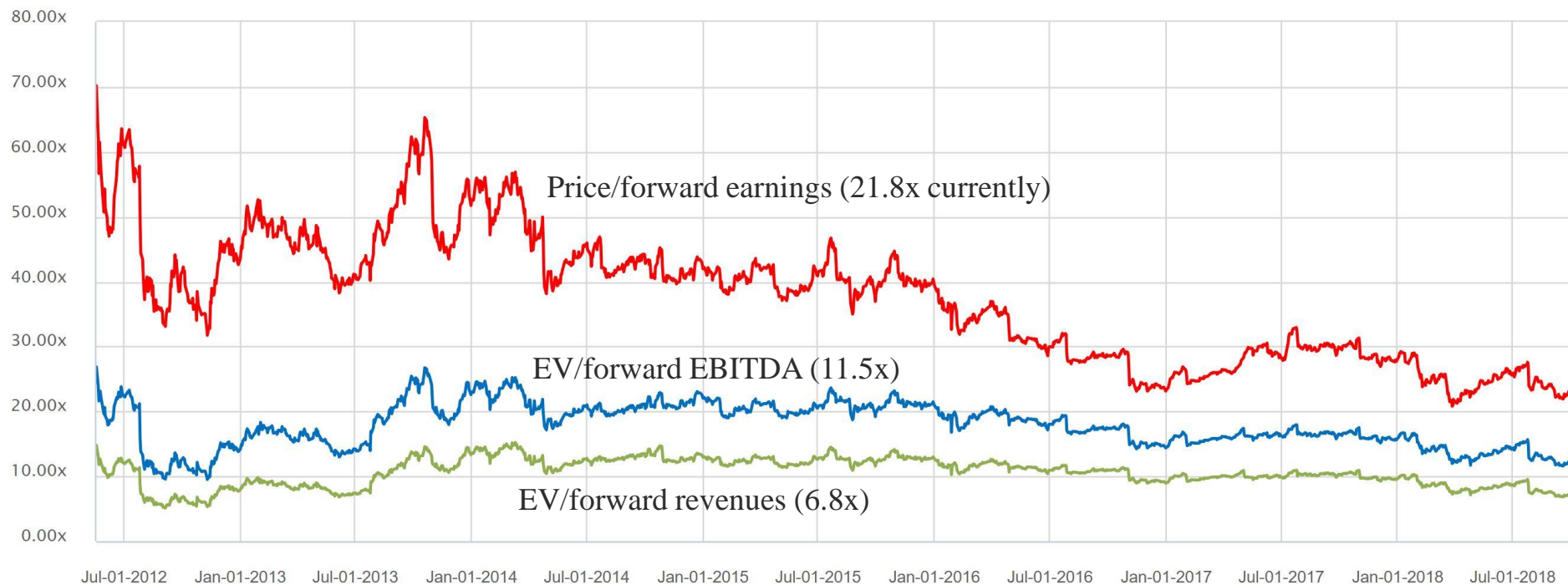


FACEBOOK HAS VAST OPPORTUNITY TO MONETIZE FOREIGN USERS



\$104 annually
in the U.S. &
Canada

THE STOCK IS AT ALL-TIME LOW VALUATION METRICS



SUMMARY

- Despite all of the bad press this year, revenue growth was still 42%
- It appears unlikely that regulators will take action that meaningfully crimps growth or margins
 - In fact, certain proposed regulations, ironically, might further entrench Facebook (and Google)
- There is massive potential to further monetize users
- The stock is trading at its lowest valuation multiples ever
- If the company can continue to grow at even half of its historical rates, the stock will do very well from here