

Company Name: Facebook
Company Ticker: FB US
Date: 2017-11-01
Event Description: Q3 2017 Earnings Call

Market Cap: 530,437.37
Current PX: 182.66
YTD Change(\$): +67.61
YTD Change(%): +58.766

Bloomberg Estimates - EPS
Current Quarter: 1.935
Current Year: 6.397
Bloomberg Estimates - Sales
Current Quarter: 12039.865
Current Year: 39276.317

Q3 2017 Earnings Call

Company Participants

- Deborah Crawford
- Mark Elliot Zuckerberg
- Sheryl Kara Sandberg
- David M. Wehner

Other Participants

- Eric J. Sheridan
- Brian Nowak
- Mark A. May
- Douglas T. Anmuth
- Heather Bellini
- Ken Sena
- Justin Post
- Ross Sandler
- Richard Greenfield
- Brent Thill
- Mark Mahaney
- Colin Alan Sebastian
- Youssef Squali

MANAGEMENT DISCUSSION SECTION

Deborah Crawford

GAAP and Non-GAAP Financial Measures

During this call, we may present both GAAP and non-GAAP financial measures

A reconciliation of GAAP to non-GAAP measures is included in today's earnings press release

Mark Elliot Zuckerberg

Business Highlights

Revenue Growth

- Our community continues to grow, now with nearly 2.1B people using Facebook every month and nearly 1.4B people using it daily
- Instagram also hit a big milestone this quarter, now with 500mm daily actives

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- And we saw good results in the business, where total revenue grew 47% y-over-y, and we had our first ever quarter with more than \$10B in revenue
- But none of that matters if our services are used in a way that doesn't bring people closer together, or if the foundation of our society is undermined by foreign interference
- I've expressed how upset I am that the Russians tried to use our tools to sow mistrust
- We built these tools to help people connect and to bring us closer together, and they used them to try to undermine our values
 - What they did is wrong, and we are not going to stand for it

U.S

- Now for those who followed Facebook, you know that when we set our minds to something, we're going to do it
- It may be harder than we realize up front
- It may take longer and we won't be perfect, but we will get it done
 - We're bringing the same intensity to these security issues that we've brought to any adversary or challenge that we've faced
- The first step is doing everything we can to help the U.S. government get a complete picture of what happened
- We've testified in Congress over the past couple of days about the activity we found in last year's election
 - We're working with Congress on legislation to make advertising more transparent
- I think this would be very good if it's done well

Advertising

- And even without legislation, we're already moving forward on our own to bring advertising on Facebook to an even higher standard of transparency than ads on TV or other media
- That's because in traditional media, there's no way to see all the messages an advertiser is showing to different audiences
- We're about to start rolling out a tool that lets you see all of the ads a page is running and also an archive of ads political advisers have run in the past
- We're also working with other tech companies to help identify and respond to new threats because, as we've now seen, if there's a national security threat involving the Internet, it will affect many of the major tech companies, and we've announced a number of steps to help keep this kind of interference off our platform
 - This is part of a much bigger focus on protecting the security and integrity of our platform and the safety of our community
- It goes beyond elections, and it means strengthening all of our systems to prevent abuse and harmful content

Investments

- We're doing a lot here, with investments both in people and technology
- Some of this is focused on finding bad actors and bad behavior

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- Some of this is focused on removing false news, hate speech, bullying, and other problematic content that we don't want in our community
- We already have about 10,000 people working on safety and security, and we're planning to double that to 20,000 in the next year to better enforce our community standards and review ads
- In many places, we're doubling or more our engineering efforts focused on security
- And we're also building new AI to detect bad content and bad actors, just like we've done with terrorist propaganda

Profitability

- I am dead serious about this
- And the reason I'm talking about this on our earnings call is that I've directed our teams to invest so much in security on top of the other investments we're making that it will significantly impact our profitability going forward, and I wanted our investors to hear that directly from me
- I believe this will make our society stronger, and in doing so will be good for all of us over the long term
 - But I want to be clear about what our priority is
- Protecting our community is more important than maximizing our profits
- So security and the integrity of our services will be a major focus
- Beyond this, our focus is on building community
- I talked about this last quarter when we changed our mission to focus on building community to bring the world closer together, and that's more important now than ever
 - This gets into our roadmap for the next three, five, and ten years

Instagram and Status

- Over the next three years, the biggest trend in our products will be the growth of video
- This goes both for sharing, where we've seen Stories in Instagram and Status in WhatsApp grow very quickly, each with more than 300mm daily actives, and also for consuming video content
- We recently launched the Watch tab, where you can discover shows, follow creators, connect with people watching an episode, and join groups with people with similar interests to build community

TV Show

- But as video grows, it's important to remember that Facebook is about bringing people closer together and enabling meaningful social interaction
- It's not primarily about consuming content passively
- Research shows that interacting with friends and family on social media tends to be more meaningful and can be good for our well-being, and that's time well spent
 - But when we just passively consume content, that may be less true
- When done well, video brings us closer together

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- We've found that communities formed around video like TV shows or sport create a greater sense of belonging than many other kinds of communities
- We found that live videos generate 10 times the number of interactions and comments as other videos
- But too often right now, watching a video is just a passive consumption experience
 - Time spent is not a goal by itself
- We want the time people spend on Facebook to encourage meaningful social interaction
- So we're going to focus our products on all the ways to build community around the videos that people share and watch
 - That's something Facebook can uniquely do

Newer Initiatives

- Moving along, over the next five years, I expect us to make some good progress on several newer initiatives
- In messaging, today already more than 20mm businesses are communicating with customers through Messenger
- Now we're starting to test business features that make it easier for people to make the same kinds of connections with businesses through WhatsApp
 - We rolled out Marketplace to Canada and 17 countries across Europe, giving people the ability to discover, buy, and sell things in their local communities
- Today, more than 550mm people are using Marketplace and buy-and-sell groups on Facebook to connect with other people for transactions

Workplace

- We're also seeing good progress with Workplace, helping companies connect their own teams internally through their own versions of Facebook
- It's been less than a year since we launched Workplace, and today more than 30,000 companies are using it
 - This quarter, we welcomed on Walmart, the largest employer in the U.S.

AI

- Over the next 10 years, we are working on the foundational technologies needed to bring the world closer together
- I'm proud of the work we're doing with AI
 - We're now using machine learning in most of our integrity work to keep our community safe
- When Hurricane Maria hit Puerto Rico, we used AI to look at satellite imagery and identify where people might live and need connectivity and other resources
- Progress in AI can unlock a lot of opportunities

Oculus Go

- This quarter we opened a new AI research lab in Montreal, and we're building another lab in Paris as well

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- This quarter we held Oculus Connect and we announced Oculus Go, our first-ever all-in-one headset that's great for feeling like you're present with someone when you can't physically be together in person
 - It's great for playing games, watching movies, or hanging out with friends
- And at \$199, we think it's going to help us bring great virtual reality experiences to more people
- It ships next year

Connect

- At Connect, I also showed off our new Santa Cruz prototype, which is the first time any company has shown the full experience of positional tracking in a standalone headset and controllers
- It's a major technical achievement, and I'm looking forward to getting this into developers' hands next year

Community Growth

- In order to support our community's growth, we need to keep investing in our infrastructure
- This quarter we broke ground on our New Albany [Ohio] data center, and we announced that we'll build our 11th major data center in Henrico County, Virginia
- As always, all our new data centers are powered by 100% renewable energy
 - These long-term investments are important for our community's future
- We can do a lot to help people connect through phones and computers, but so much more will be possible in a world where everyone has Internet access, where AI improves all our services, and where we can basically teleport anywhere or be with anyone anytime we want

Investments

- With all the issues we've faced, it would be a lot to just invest in addressing those
- But we know that we also have a responsibility to deliver these fundamental technical and scientific advances to fulfill the promise of bringing people closer together
 - So we're going to keep making significant investments looking ahead towards the future too
- We've made some real progress this year
- Across the board, we have a lot of work to deliver on our mission of bringing the world closer together, but we're committed to rising to the challenge and doing what we need to for our community
- Thanks to all of you for being a part of this journey, and I'm looking forward to the road ahead

Sheryl Kara Sandberg

Operating Highlights

Ad Revenue Growth

- We had a strong third quarter, with growth across all regions, Marketer segments, and verticals

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- Ad revenue grew 49% y-over-y
- Mobile ad revenue was \$8.9B, a 57% y-over-y increase, making up approximately 88% of total ad revenue
- We're continuing to build our business by focusing on our same three priorities: helping businesses leverage the power of mobile; developing new ad products; and making our ads more relevant and effective

Instagram

- Today, we're announcing that Facebook has over 6mm active advertisers, and we recently announced that Instagram has over 2mm advertisers
- The vast majority of these are small and medium-sized businesses, which are a major source of innovation and create more than half of all new jobs globally
 - These businesses often have small ad budgets, so the ability to reach people more effectively is really valuable to them

LoveBook

- A great example value is LoveBook, a small business in Michigan which lets you make personalized books for the people you love
- During a recent campaign, they used Facebook ads to reach people getting ready to celebrate their first anniversary
 - They've grown so much from marketing on Facebook that they've been able to hire 10 new employees this year alone
- We're proud of the role we are playing in enabling businesses like LoveBook to reach people on mobile, to grow, and to create jobs

SMBs

- One of our strongest areas this quarter was SMBs in Europe, with revenue growing more than 60% y-over-y
- When I was Germany two months ago, I had a chance to meet Victor, one of the cofounders of Brooklyn Soap Company, which despite its name is based in Hamburg
- Victor and his friends came up with the idea for their business while staying in a hostel in Brooklyn
- Now they sell their grooming products in 38 countries using mobile video ads on Facebook and Instagram
- As a result, their sales increased 62% over the last year
 - They're one of many small businesses using mobile to find new customers and grow across borders

Innovative Ad Products

- Our second priority is developing innovative ad products
- Video is exploding, and mobile video advertising is a big opportunity
- Until recently, ads were only eligible for Ad Breaks if they also ran in News Feed
 - But in Q3, we gave advertisers the option to run ads in videos alone

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- We're seeing good early results, with more than 70% of Ad Breaks up to 15 seconds in length on Facebook and Audience Network viewed to completion, most with the sound on
- As Mark said, Instagram Stories are growing well too
- People and businesses are finding creative new ways to use full-screen vertical video in Stories
 - This quarter, we gave advertisers even more flexibility in the content, format, and reach of their ads in Stories

Collection Ads

- We're also seeing how immersive video and images can help people discover new products on Facebook
- We added a new creative template to Collection Ads, which helps retailers bring their catalogs online
- West Elm, a home décor company, recently used this template to promote its furniture and home accessories
 - They targeted people who already got their physical catalog and saw a 5.5% lift in purchases in store
- Our third priority is making our ads more relevant and effective
- In Q3, we introduced new tools powered by machine learning and automation to help businesses reach people more likely to spend with them
 - We also simplified the tools for creating ads, making it easier for businesses of all sizes to advertise with us

Neon Retro Arcade

- It's important for all businesses to reach the right audience, but it's especially important for small businesses that have limited budgets
- Targeting allows them to show ads only to the people they want to reach
- Neon Retro Arcade in L.A. is a great example
 - They advertise to people within 10 miles of their location who are interested in video games and comic books
- Last year, they moved their entire ad budget to Facebook and Instagram, and their revenue was up 25%

Q3

- Relevance and effectiveness are also about giving businesses more control over where their ads run
- In Q3, we clarified which publishers and creators can include ads next to their content
- This is good for creators who want guidance on how to earn money from their content on Facebook, and it's good for advertisers who want transparency and control to make the right decisions for their brands
 - We're also working to give advertisers more clarity on where their ads are shown so they can make more informed choices about where to run them in the future

Legitimate and Authentic

- I want to close by talking about what we're doing to protect our platform and help ensure that the ads and content people see on Facebook and Instagram are legitimate and authentic

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- When I was in Washington a few weeks ago, I made it clear that we are determined to do everything we can do to minimize abuse going forward

New Technology and People

- As Mark said, we're investing heavily in new technology and people to review ads and posts
- This will enable us to look more closely at the content of the ads, targeting, and the advertiser who submits them, as well as tighten our ads policies, particularly for ads directed at social and political issues
- We believe that ads are important to free expression and we will continue to accept ads on issues, but we will also do our part to elevate the quality of that discourse
 - Transparency helps everyone keep advertisers accountable for their messages
- We're working with Congress on new requirements for online political advertising, but we are not waiting for legislation
- We're building a tool now that will allow anyone to see the ads of pages running, even if those ads are not targeted to them
 - We will test it soon in Canada and then in the U.S. in the coming months

U.S. Federal Elections

- For ads related to U.S. federal elections, we'll start sharing even more information, including an archive of past ads, the total amount spent, and demographics about the people the ad reached
- We're also going to require more thorough documentation from these advertisers and will label their ads so it's clear who paid for them
 - We believe these actions will set a new standard for transparency in online ads

Global Facebook Team

- Because the interference on our platform went beyond ads, we're also increasing transparency around organic content from pages
- We're looking at ways to provide more information about who's behind a political or issue-based Facebook page
 - We believe this will make it harder for deceptive pages to gain large followings and make it easier for us to identify malicious activity
- We are all committed to getting this right and to investing and strengthening our platform so we can better serve our community
- We are also committed to continuing to help businesses all over the world attract customers, sell their products, and create jobs
- As always, I'm grateful to all of our clients for their partnership and to our global Facebook teams for their hard work

David M. Wehner

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Financial Highlights

Performance

- Q3 was another great quarter for Facebook
- We saw continued growth in engagement in our community as well as strong performance in our ads business
- Let's begin with our community metrics
- Daily active users in Q3 reached 1.37B, up 16% compared to last year
 - This number represents 66% of our 2.07B monthly active users in Q3
- MAUs were up 284mm y-over-y or 16%

Community Growth

- Our community growth was again driven by product improvements, promotional data plans, and internet.org
- Note that in Q3 we began to lap the introduction of promotional data plans from mobile operators in markets like India

MAUs

- Before going to the financials, let me touch briefly on our ongoing effort to improve our user aspects
- This quarter we implemented a new methodology to help identify duplicate accounts
- As a result, we increased our estimates for duplicate accounts to approximately 10% of worldwide MAUs from our previously disclosed estimate of 6%
- Duplicate accounts are those that we believe are used by the same person and represent real activity and engagement on Facebook
 - We have also increased our estimate for inauthentic accounts to approximately 2% to 3% of worldwide MAUs
- Inauthentic accounts are largely those that are used for spam and other policy violating reasons
- We continuously monitor and aggressively take down those accounts
 - These accounts tend to be less active and thus we believe impact DAU less than MAU

Revenue and Foreign Exchange Tailwind

- Now turning to the financials, all comparisons are on a y-over-y basis unless otherwise noted
- Q3 total revenue was \$10.3B, up 47% or 45% on a constant currency basis
- Foreign exchange tailwinds contributed \$128mm of revenue in Q3
- Q3 total ad revenue was \$10.1B, up 49%
- On a constant currency basis, our ad revenue growth rate was 47%, down 2 percentage points compared to the growth in Q2

Ad Revenue Growth

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- Ad revenue growth was strong globally, led by Europe and APAC with 56% and 54% growth respectively
- Mobile ad revenue was \$8.9B, up 57%
- In Q3, the average price per ad increased 35%, and the number of ad impressions served increased 10%, driven primarily by Feed ads on Facebook and Instagram

Expenses

- I would note that compared to a year ago, price is a much more important driver of our ads revenue growth
- Payments and other fees revenue was \$186mm, down 5%
- Total expenses were \$5.2B, up 34%
 - Q3 was our biggest hiring quarter ever
- We added over 2,500 people and ended the quarter with over 23,000 employees, up 47% compared to last year
- Operating income was \$5.1B, representing a 50% operating margin
- Our tax rate in Q3 was 10%
- Excess tax benefits recognized from share-based compensation decreased our effective tax rate by 6 percentage points, a level that was driven by appreciation in our stock price

Net Income and CapEx

- Net income was \$4.7B or \$1.59 per share
- YTD CapExs were approximately \$4.5B, driven by investments in servers, data centers, office facilities, and network infrastructure
- In Q3, we generated over \$4.3B in FCF, and ended the quarter with over \$38B in cash and investments
- YTD, we have bought back over \$1B of our Class A common stock

Revenue Outlook

- Turning now to the revenue outlook, our ads business remains strong, but it's worth noting that in Q3, our y-over-y ads revenue growth rates decelerated for the fifth consecutive quarter on a constant currency basis, and we expect this trend to continue for the foreseeable future
- Going forward, we also expect the growth in advertising revenue will increasingly be driven by price
 - This is a shift from prior years, when growth was primarily driven by increases in supply

Expenses

- Turning now to expenses, we anticipate that our full-year 2017 total expenses will grow approximately 35% to 40% vs. our prior range of 40% to 45%
- We anticipate that full-year 2017 CapExs will be approximately \$7B
- As mentioned previously, our tax rate will vary based on our stock price
- At the current stock price, we would expect that Q4 rate will be in the low teens

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CapEx

- I also wanted to provide some comments on 2018 expenses and CapExs
- Please recognize that these are preliminary estimates, as we have not yet finalized our 2018 budget
 - That said, it is shaping up to be a significant investment year, and I wanted to provide initial guidance to align investors with our most current thinking
- We expect full-year 2018 total expenses will grow approximately 45% to 60% compared to full-year 2017
- We continued to invest aggressively across the business, but there are three important factors driving an acceleration in our expense growth rates from 2017 levels

Investments and Watch Tab

- First, as Mark outlined in his earlier comments, we are making sizable security investments in people and technology to strengthen our systems and prevent abuse
- Secondly, we are investing aggressively in video content to support the Watch tab
- Finally, we continue to invest in our long-term initiatives around augmented and virtual reality, AI, and connectivity
- Given our expectation of continued deceleration in revenue growth rates, we expect these significant investments will be net negative on our operating margins
- In addition, we expect to make substantial investments in our infrastructure to support growth and improve our products
- As such, we expect full-year 2018 CapExs will roughly double from 2017 levels
 - We would also anticipate that the full-year 2018 tax rate will be in the mid-teens

Summary

In summary, Q3 was another strong quarter for Facebook across the board

We are excited about the opportunities we see ahead and will continue to make significant investments to support our growth and our mission

QUESTION AND ANSWER SECTION

<Q - Eric J. Sheridan>: Maybe revisiting Mark's comments at the beginning of the call, I would love to get a better sense or granularity about what sort of video content you'd like to see on the platform that could drive a more active or interactive experience than passive.

And then the second question would be, what does that mean in terms of the business model? Would there be licensing content, funding content that you have to do to build the sort of business you're aiming for over the medium to long term? Thank you.

<A - Mark Elliot Zuckerberg>: So the strategy here around helping people connect reflects more on what we do around the videos than some of the content itself. So hopefully, the experience on Facebook will not just be that you come and watch a video and you get informed, you feel entertained, and that's it. We think that the most valuable thing that people do are help build relationships with other people on the platform. So to the extent that video can serve as a

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touchstone for building community and helping facilitate interaction, then that's the thing that we feel like we can uniquely do.

So we're going to continue investing heavily in video content for Watch that is centered around people, that is centered around the things that people want to talk and connect around, that give people a sense of pride and bring people together. But we're going to invest as much in just making sure that we build out the community features around that. And that I think is going to be the thing that differentiates this over time.

<Q - Brian Nowak>: I have two. Just, Mark, to go back on your focus on community and video, I was wondering if you could share with us or help us understand what you're seeing in engagement trends or maybe time spent per user on the core Facebook platform, as you've had so many efforts focused on community and video.

And then secondly for Sheryl, you made such good progress growing the advertising business across SMB in a lot of verticals. I wonder. If you step back, could you talk to any areas or any verticals where you really see the potential for material improvements or verticals you're having a hard time cracking into that you think can really be bigger drivers of ad revenue growth going forward?

<A - David M. Wehner>: So, Brian, just on engagement metrics, we're continuing to see good growth in DAU, as you saw in the 16% growth that we posted this quarter. In addition, we do continue to see time spent growth per DAU on the Facebook family and on Facebook.

<A - Sheryl Kara Sandberg>: For my part, when I think about our Marketer segment, we have SMBs; we have brand, direct response, and developers. We're seeing strong growth across. I think if you think about where the growth remains, it really is in increasing the relevance of the ads, because the ads I think are getting better in terms of reaching the right people at the right time. But I think there's still a lot more we can do. And as people really use our Custom Audiences, our targeting tools, the quality of the ads improve and the returns improve. And the more we – the better we get at measuring those returns, the better the ads get.

And so I'll share just one example but one I really love, which is the Alameda County Fair, which is a local fairground in Pleasanton, California. I happened to meet this woman, Angel [Moore], who's running their marketing this year. And they use Facebook to target people within 25 miles of their fairgrounds age 20 to 51 who have specific interests in concerts, music festivals, and theme parks. And what they saw for season pass ticket sales for 2017 was a 50% increase compared to 2016, and they attribute that to Facebook. And that's really about finding the people that are interested.

And if you look at the percentage of our ads business where people are using our most sophisticated approaches to finding the right audience, I think we still have a lot of opportunity for growth there, and that will improve both the quality of the ads people see but also the returns to marketers. And I think that will hit all of the verticals and all of the segments.

<Q - Mark A. May>: I had two related questions on video. First on the OpEx guidance, one of the real consistencies of the business is OpEx growth. You've been growing that at \$4B to \$5B incremental spend per year, but the midpoint of your guidance is looking like \$14B increase next year. Is the differential there, the additional \$6B to \$7B, should we be thinking of that as the video content spend that you're setting aside possibly to spend next year? I'm just trying to understand where this significant increase would be coming from.

And then related, the 35% increase in ad prices – would you say that that's predominantly being driven, the acceleration there, by the mix towards video, Ad Breaks, and other longer-form video ads? Thanks.

<A - David M. Wehner>: Sure, Mark. So on the acceleration of the growth rate in expenses from 2017 to 2018, I would really look at the growth rate that we grew at in 2017, apply that to the total expense base, and look at that growth in 2018. And then I would say the additional expense that leads to the acceleration is driven by three factors, not just one factor.

And those three factors are the ones that I outlined in my commentary: number one, the substantial investment that Mark highlighted that we're making to just improve the security on our platform; two, the video content investments we're making for Watch tab; and then three, additional investments we're making in the long term initiatives like

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AR/VR, AI, and connectivity. And each of those are significant, so it's really the combination of those three factors that's driving the expense growth acceleration.

And then on the 35% increases in ad prices, this is really being driven off of a couple things. One is just the auction dynamic, which as supply growth has slowed, then there's more competition, and you're seeing prices increase as demand continues to grow.

But I think what is important here is we've been getting better and better at targeting as we optimize for real business results for advertisers, and we're better at converting the signals that we get from those advertisers into finding the right ad spots for them. And I think that's really what's allowing us to improve yield and effectively driving higher effective CPMs for us while still delivering business outcomes to them at attractive ROIs.

So that's really what's driving it, not a shift to a different format like video. It's really about us getting better at targeting and working with especially people where we get those downstream signals like direct response advertisers.

<Q - Douglas T. Anmuth>: I wanted to hit on two topics. First just on the security comments, you talked about head count increasing from 10,000 to 20,000. I was hoping you could just help us understand. Is that 10,000 fully in the 23,000 head count that you have today, or is there a part of it that's not included in there, perhaps because it's not full time?

And then just secondly, just going back to the ad pricing changes, Dave, just to clarify on that, it sounds like what you're saying is it's not that advertisers across the board are seeing that substantial of an increase in pricing, but that's more in output in your eCPM. Is that the right way to think about it? Thanks.

<A - David M. Wehner>: Right, Doug. So on the first one, the 10,000 number, that encompasses both employees at Facebook and also employees at partners, so it's not all Facebook employees. So that's a fully loaded number. So that's also in the OpEx guidance as well. But yes, you can't compare the 10,000 to the 23,000 directly.

On the ad pricing, what you're seeing is that most of the advertising that we get isn't necessarily bid on an impression basis. You're getting people bidding for other actions and optimizing against other actions like a click to a website or a downstream e-commerce transaction, an app install. And our ability to optimize the inventory that we have against those downstream activities allows us to deliver those at still good prices while still seeing effective CPMs go up.

You do have obviously people who are bidding on impressions if they're looking for a brand campaign or a reach campaign, but those aren't necessarily a part of the business that's driving up prices. It's more around just us doing a better job at being able to optimize campaigns for people who have downstream activities that we can do that for.

<Q - Heather Bellini>: I wanted to just ask a question about your content strategy, and I was wondering. How do you think about Facebook Watch in terms of Facebook-produced content vs. the licensing of content that you might engage in? And I was wondering if there's a certain type of content that you think will be best suited to optimize the Watch experience. Thank you.

<A - Mark Elliot Zuckerberg>: I think it might be useful to talk a step back and first talk about why we're funding lighthouse content and Watch overall. So video is growing incredibly quickly on Facebook. And today, most of that is in News Feed. But most people who come to News Feed and who come to Facebook today in general are trying figure out – they're trying to see what's going on with their friends, see what's happening in the world. They're not coming necessarily to engage in a specific type of video or specific community around video. So the Watch tab is mainly – it's a way to give people a tool to do that. When they want to specifically come and engage around video or communities around that, they can go to the Watch tab. So the intent there is different.

Now in order to build that up, we think it makes sense to first invest in a bunch of lighthouse content, some that we may produce or some that we may license, to get to your question. We're pretty agnostic on how that goes. We just want to start the flywheel going, so that way there's content and communities that are there that support this use case of people coming to Facebook specifically to engage in that.

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Long term, our hope is that the business here will primarily be through revenue shares of videos that normal creators and businesses put into the system rather than ones that we proactively go out and license ourselves. So that's a look at where we're trying to get on this. But first, we need to build this behavior where people want to come intentionally to engage with this content.

<Q - Ken Sena>: Just going back maybe to the investment and security comments, maybe could you provide a little more detail just on what that investment could look like and how we could think about that showing up in R&D, cost of revs, G&A, or maybe a combination, and then maybe any early thoughts on GDPR [General Data Protection Regulation] and potential impact there and maybe some of these transparency efforts if they could have possible benefit? Thank you.

<A - David M. Wehner>: So on the first part, Ken, you're going to see that show up in a variety of different line items that we don't have it specifically broken out. We're making substantial product and engineering investments. So as part of the overall hiring on R&D head count, there's going to be a pretty significant allocation of that to some of the product-related security initiatives that we're doing. So that's going to show up in R&D.

You're going to have some of the ads work that we're doing, the ads quality work showing up in the sales and marketing line, so you're going to see some there. And then you're going to also just have overall impact on G&A as well for things like policy-related expenses and the like. So I think you're going to see it impacting across the spectrum of our lines, but overall one of the significant factors driving the acceleration in growth rate.

<A - Sheryl Kara Sandberg>: On GDPR, the Facebook family of apps already applies the core principles in the framework because we built our services around transparency and control, and we're building on this to ensure that we comply in May of next year. It's too soon to tell whether this will impact the extent to which EU users opt out of certain services, but we're going to continue to give people personalized experience and be clear about how we're using the data. We believe that we'll be able to obtain consent for uses of the data across Europe and that people still expect the content and their ads to be relevant. And so we expect a good result here and we're going to do it very carefully and very seriously, as we always do.

<Q - Justin Post>: Great, two things. First, as you've integrated more video content into Facebook, are you seeing better time spent per user? Is that really showing up in more engagement on the site?

And then secondly, it looks like you're running around \$80 a year per user now in the U.S., quite, quite good improvement over the last couple years. Just thinking about benchmarking that vs. other media categories or other things in traditional media, do you still think you have a lot of room ahead to grow that \$80 over time? Thank you.

<A - Mark Elliot Zuckerberg>: I'll talk about video engagement, and then Dave can jump in on some of the stats. So one of the important points here that I tried to communicate in my comments up front is that connecting with friends and family and having those meaningful interactions is more important than just consuming content. So video is growing incredibly quickly, and that goes across both social content and more passive public consumption of content. And they create different dynamics in the system, and I think that's an important thing to understand.

When your friend posts something and you get to engage with it, it might inform you and entertain you. But you also, if you interact with it, you're building a relationship with that person or you feel closer to that person, and that is a really important part of what social networking is supposed to do. Whereas when you engage with public content, you might get informed or be entertained, but it's not necessarily increasing social capital in the same way or building relationships between people.

So we really differentiate what the core thing is that we're trying to do, which is help people connect with each other and build meaningful relationships. And that's why on a lot of these calls, I emphasize products like Instagram Stories or WhatsApp Status, which are very video-based products, but they're improving social interactions. And we're going to focus a lot more on helping people share videos of their moments in their lives. Because in a lot of ways, I think if you take a video of yourself and your family out trick-or-treating, that's more engaging than a photo and a better representation of that than writing it out in text.

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But overall, I would say not all time spent is created equal. That's why I tried to stress up front that time spent is not a goal by itself here. What we really want to go for is time well spent. And what the research that we found shows is that when you're actually engaging with people and having meaningful connections, that's time well spent, and that's the thing that we want to focus on.

So out of this big video thing that's growing very quickly, I think that is the real opportunity and product area that we should be focused on more. And to the extent that there is going to be a lot of public content, which there will be, a big part of the focus is going to be around building community and interactions around that content.

<A - David M. Wehner>: Justin, then your question on ARPU in the U.S., we do think that there are opportunities to continue to grow the business in the U.S. on a lot of different fronts. So we can continue to grow engagement on core Facebook, as well as there are opportunities with Instagram and the other services that we have that are not monetizing significantly today, so there are opportunities there.

But most importantly, I would go back to the fact that we're getting better on the ad product side of being able to optimize our inventory for the advertisers in a way that will we think drive good pricing in the system for us and good outcomes for the advertisers. So we do think that that will lead to the potential for additional revenue growth in the U.S.

<Q - Ross Sandler>: Great, I had two questions for Mark. One, so, Mark, as you look to make changes around safety and security and ring-fence the fake news issue, do you think that will have any adverse impact on engagement, or is it just too small to even be material?

And then a follow-up on the video consumption comment happening mostly in the Feed, is the deceleration you guys are seeing around impression growth right now a function of promoting video in the Feed vs. what other things that might be in there? And I guess asked a different way, should we see impression growth revert back to [ph] view (43:52) growth at some point? And is that likely next year, or is that further off into the future? Thank you.

<A - David M. Wehner>: So I can take the second one, which is the question about impression growth. So there are a couple factors there. Certainly, this quarter we saw that ad load had a much less significant impact on impression growth. So overall, that story has played out as we thought, and that's one of the reasons you're seeing the impression growth come down. And then yes, I do think that there are less impressions when people are consuming video, so that also is a factor as more time is spent on videos. So I think you have both of those factors coming into play.

In terms of how those play out going forward, hard to say. I would just point to our overall comments on just continued revenue growth deceleration. And I believe the first question was whether the security investments would have an adverse impact on engagement.

<A - Mark Elliot Zuckerberg>: Yes, and I can speak to that. Let me be clear on this, that people do not want false news or hate speech or bullying or any of the bad content that we're talking about. So to the extent that we can eradicate that from the platform, that will create a better product, which will also create a stronger long-term community and better business as well.

So the reason why we haven't been able to get these things to the level that we want today is not because we somehow want them on the platform. It's that it's a really hard problem. And we're going to invest both in people and technology because we think that both are really important parts of the solution here, to go after all different parts of these problems.

And that was what I tried to stress earlier on. We're going from 10,000 people working on safety and security to more than doubling that to 20,000. We're building – we're doubling – in some cases more – our engineering teams focused on security. We're building AI to go after more different areas of harmful content and finding fake accounts and other bad actors in the system. And I expect that all of these things will make our product better over the long term, but we will incur the expenses a lot sooner as we ramp up these efforts.

And I also just think that going forward, we're going to be investing in these things at a much higher level because we realize that this is important, not only for our community and this company, but it's part of our responsibility to society overall.

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<Q - Richard Greenfield>: Couple things. You talk about creators, I think, Mark, creating for the platform on their own without you having to invest. But I'm just trying to frame it in the sense of Hollywood. I look at what Apple is doing now and hiring a couple of Sony executives and doing \$5mm an episode buy of a Steven Spielberg show.

I'm guess what I'm trying to understand – or I think a lot of investors are trying to understand is what type of content do you ultimately want? Because I don't think someone like Spielberg is going to work for an ad revenue share, no matter how good that advertising is. So how do you balance what type of content business you ultimately want to build?

And then when you look at sports, which I also think about as being really relevant content that has a huge community around it, something like the NFL mobile rights I think come up next year. I'm wondering how important is that type of content? I know you were bidding on cricket rights overseas, but how important is sports in this mix?

<A - Mark Elliot Zuckerberg>: Well, I think the answer to that is we don't know all the answers around what kinds of content are going to work and are not, so we will probably experiment with a number of different things.

I do think your point is right that not all kinds of content can be supported by ads, no matter how effective we make that. That said, the current model that we have for at least getting some of the lighthouse content onto the platform is to pay up front. And what we would like to transition that more to over time and what an increasing amount of the content is, is revenue shares for ads shown in the videos. And as we do better and better on the monetization there, that will support people with higher production costs and doing more premium production and bringing their content to the platform.

And we've certainly found on the Internet and YouTube and in other places that there are whole industries around creators with different cost structures than traditional Hollywood folks who can produce very informative and engaging content that a lot of people like and enjoy and that builds communities and that helps people connect together in a way that definitely can be supported by this ad model.

So I think the answer is we're going to try a bunch of things. That's a bunch of what the budget is. I'm very optimistic that a lot of this stuff will be able to be supported long term, but you're certainly right that not all of it will be able to be supported by ad models alone.

<Q - Brent Thill>: On video, there's been a lot of questions about the ultimate profitability of this going forward. I was just curious if you could share your view. I know it's early, but what your thoughts are there.

<A - David M. Wehner>: I think – look, today we're talking about the additional investments we're making in terms of the lighthouse content on the Watch tab, so we are putting a substantial investment behind that. That clearly is going to have implications for margins along with the other big investments that we're making next year. And then even after we establish a flywheel here and get content being produced for ad revenue share, that's going have a different margin structure than core News Feed. So even going forward, there's going be revenue share back to the content creator, so it's going have a different margin structure than the core business.

<A - Sheryl Kara Sandberg>: I think it's worth adding that the ad inventory itself is really valuable for marketers and our clients and also works very well with our other ad products, so I'll share a recent one. Visa with SocialCode and BBDO created 10-second videos with text overlays showing people making digital payments. And they targeted millennials and early tech adopters. And they ran ads – one group for Facebook News Feed only, one group for Ad Breaks only, and one group for News Feed and Ad Breaks combined. And the best results combined the Ad Breaks and the News Feed. They had a seven times lower cost per video view compared to News Feed alone.

And so one of the opportunities we have here is increasing inventory, and it's particularly good inventory for marketers because we're seeing nice adoption of video views and really nice impact from those sales. And it's also the case that our ad products work together. The ability to show something in News Feed and then show a video in Watch and then show something on Instagram and measure results across the full funnel we think are very worthy investments for the long-term health of the business.

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<Q - Mark Mahaney>: Sorry about that, a comment and two questions. I think this incremental spend or this materially increased spend on security is highly unfortunate, but I think it makes eminent sense. I think most long-term investors realize that community maximization, including security, would lead to long-term profit maximization. So I think it makes eminent sense.

Two quick questions, the Watch tab, is there any evidence or any data points you can give us to what kind of traction you're seeing with that so far? I was surprised by how many people are on the Marketplace. Any relevant data like that for Watch tab?

And then secondly, of all the regions, Europe really stuck out to us as one that showed surprising acceleration. And I know you talked a little bit about that, Sheryl did, about the SMB pickup in traction there. Any other color for why Europe would have accelerated so much in terms of its revenue growth? Thank you.

<A - David M. Wehner>: Sure, let me I guess hit both of those and then Sheryl can add any color she'd like. On the Watch tab, I think it's just early. So I think it's too early to be talking about any stats there.

In terms of Europe, one thing to note is that we did pick up currency advantages there. So it was 56% on a reported basis but 51% on a constant currency basis, still a healthy growth rate. I think it's a strong economy there. I think the team is executing well there, so I think you've got a variety of factors. As then as Sheryl commented in her prepared remarks, SMB has been particularly strong in Europe. And so I think that's one of the key drivers and one of the things we're really happy with.

<A - Mark Elliot Zuckerberg>: One clarification on your question two is that the 550mm people is across both Marketplace and buy-and-sell groups, not just the Marketplace tab. So that's the total amount of activity that we're seeing there across both of those things.

<Q - Colin Alan Sebastian>: First, a quick follow-up on safety and security. I guess I'm wondering why more of the AI and machine learning that you've built for product and the ad platform can't be utilized or cross-utilized to help mitigate some of the costs of adding people and technology to handle those issues.

And then secondly, related to how much time younger people are spending or not spending on the Facebook apps, I wonder if you've looked at over the course of time the trend in usage as younger people hit different milestones in life such as graduating from college or getting a job and how their usage of the app changes over that timeframe, for example, if you're seeing a steady stream of the users come to Facebook once they hit those milestones. Any color on that would be interesting. Thank you.

<A - Mark Elliot Zuckerberg>: Sure, I'll speak to the safety and security investment, and then Dave can speak to the other question. So we need both technology and people for this. And the best articulation of this that I can make is that today, AI has different strengths than people do. So the AI tools that we've built can enable a system to look at millions of pieces of content and make rough assessments on them and figure out what to flag for people. But ultimately, if you want to get those high-quality judgments today on sensitive content and you want to do it quickly when the stakes are pretty high in terms of taking down content or leaving things up, and we take that extremely seriously, you want people to be looking at that.

So earlier in the year, when we were working on problems like seeing issues when people were going live, there was this really serious issue around people with self-harm and in some cases suicide on Live, and we made an investment in AI tools and in dramatically increasing the staffing of the team that was working on that and brought the amount of time to review those Live videos down through a combination of those things to – I think it's under 10 minutes now. That might still be a conservative estimate, and we're continuing to work on that.

So now what we're trying to do is just increase the SLAs that we have across all of these different types of content and security threats that we might see. So that way, through a combination of the AI tooling that we build and having people to look at these things, we can get it right faster for more of the types of content.

And you're definitely right that a lot of the AI research that we do is applicable to multiple areas, but we still need to build those tools. So it takes a lot of engineering investment, and we will be prioritizing that, in some cases by adding

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people to teams and in other cases by trading off and doing more security work instead of other product work that we might have done, but this is really important and this is our priority.

<A - David M. Wehner>: I think on how people use our products in life stages, I would just – I would say generally, what we're trying to do is build a variety of different types of social products that can help in a variety of different use cases, so it can be one-on-one messaging with WhatsApp and Messenger. It could be sharing to Groups with Facebook. It could be the friends that you have on Instagram. So we're trying to make sure that we flesh out the full range of sharing experiences, and we think that has applicability across all the different life stages. And depending on the ages, people use the products differently, but not sharing any specific breakouts on that.

<Q - Youssef Squali>: Just one question. You guys unbundled the video buy. Can you speak to pricing relative to that 35% average increase in ad pricing? Can you maybe just help us understand the disparity that exists today between pricing on the new video platform and the legacy video platform? Thank you.

<A - David M. Wehner>: So I'm not totally clear on what you mean by the new video platform and the legacy video platform, but I would just say that this is primarily driven by News Feed pricing, and then you have right-hand-column pricing as well, so you have impressions on Facebook News Feed, Instagram feed, as well as Facebook right-hand column. Ad Breaks are really a relatively small – a very small factor today. So the pricing is really about what is the pricing that you're seeing in the overall system primarily driven on the Feed-based products. So that's really what the driver is. And, again there, I would point to the comments that I made about getting better at targeting and driving towards good outcomes for advertisers as being the reason that we've been able to support higher prices.

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