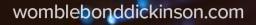




# The Tech Downturn: Submarine Cables PTC '23 - Honolulu

January 16, 2023







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### Womble Bond Dickinson at a glance



Consolidating our national reputations and regional heritage under one powerful transatlantic brand

#### Our sectors





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- > Areas of practice: privacy, mobile, wireless, data centers, wireline regulation, spectrum regulation
- Transactions and regulatory law



Tech Downturn: Google & Facebook are in rough surf



Alphabet down 42% v.2021

Meta down 63% v.2021

Nvida down 50% v. 2021

Amazon down 46% v. 2021

Microsoft down 35% v. 2021

Tesla down 47% v. 2021



Meta

Reports of 11,000 employees laid off

Market Cap loss of \$600 Billion

# Submarine Cable: Purpose for constructing?

- Alphabet/Google
- Meta/Facebook
- > Amazon
- Microsoft
- "Shipping" content YouTube, Cloud, Gaming

**Dramatic shift in 10 years** from using undersea cable for "**information**" like voice calls, news

TeleGeography: From 6.3% to 78% by 2027







Purpose for Google's Undersea Cable "Shipping Goods" – YouTube and Cloud

Topaz example: "delivering low-latency access to Search, Gmail and YouTube, Google Cloud, and other Google services

but also increasing capacity to the region for a variety of network operators in both Japan and Canada." -Google Cloud Blog, April 2022





# The Tech Downturn: Submarine Cable is CapEx



- Undersea Cable requires Capital Expenditures
- Alphabet/Google is the largest undersea cable in terms of investment 20 cables, ~182,000km ~\$5.1 Billion total
  - ~\$340M /year average ~1.4% total /yr
- Meta/Facebook is second in undersea cable



What will be cut from spending?

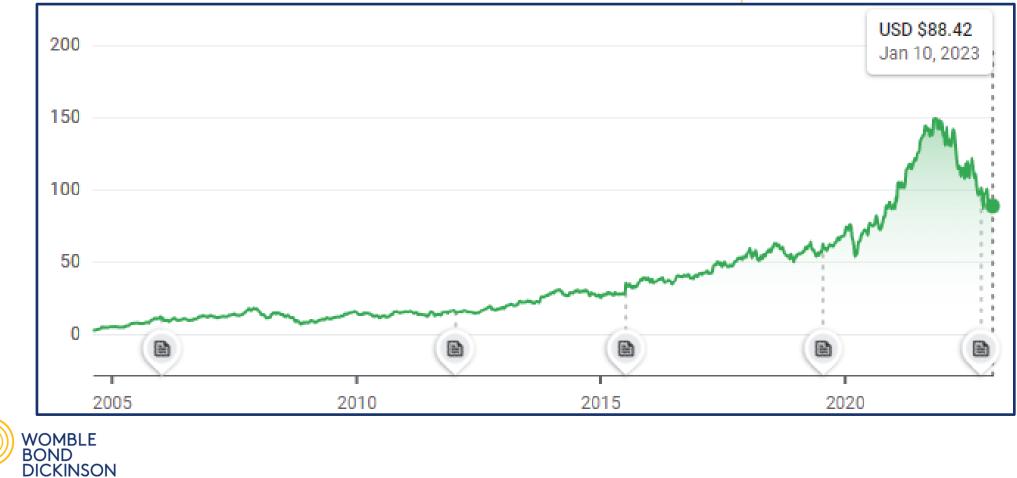
- Employees?
- Expenses?
- Capital Expenses?

- 1. Data Centers?
- 2. Fiber?
- 3. Servers?
- 4. Undersea cable?
- 5. All categories?

## The Tech Downturn: Alphabet, in a rip current?



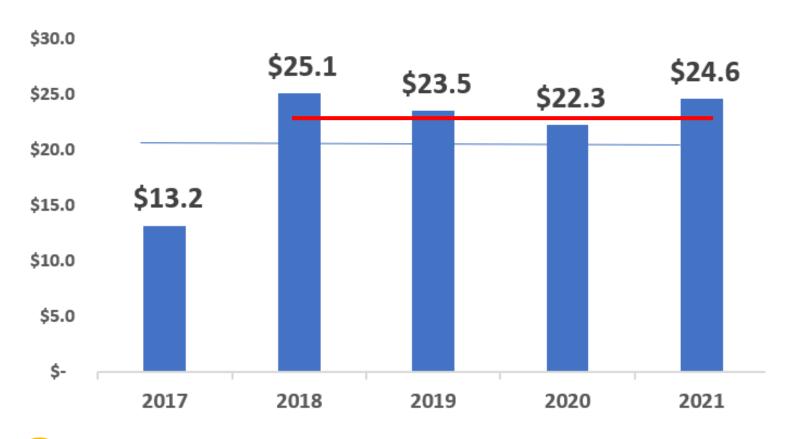
# AlphabetDown 42%Market Cap Ioss: \$800B from Market Cap \$1.15 T from \$2.0 T



## The Tech Downturn: Alphabet is in rough surf



#### Alphabet CapEx – Year to Year



Alphabet Not all bad

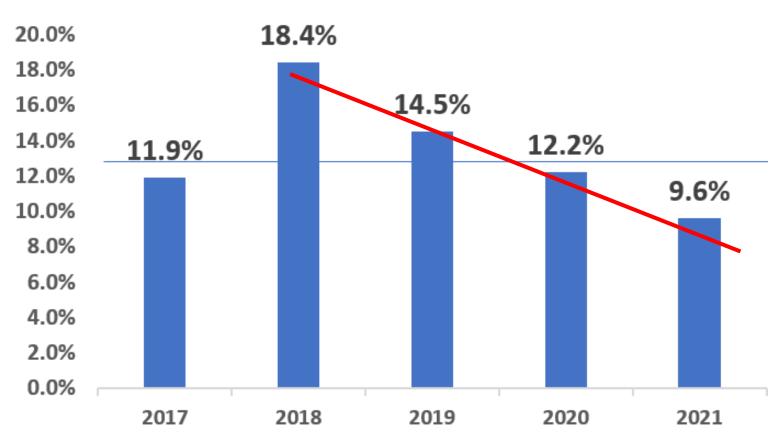
# For example **Cloud grew 3Q22**

**\$6.9 B** in cloud revenue a 38% jump





#### Alphabet CapEx –% of Revenue



WOMBLE BOND DICKINSON Alphabet But Employees Up

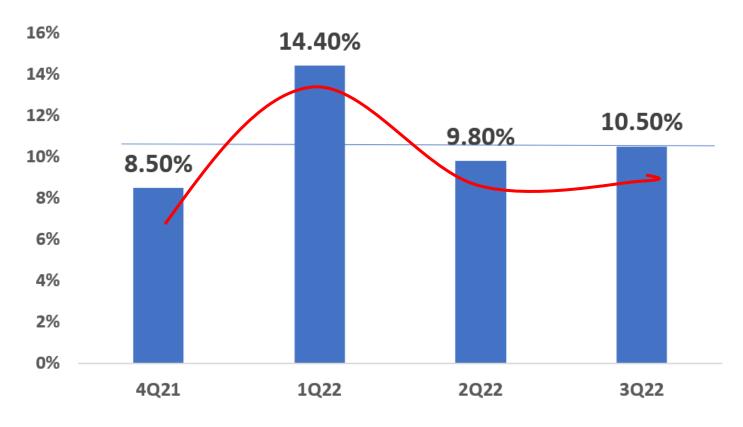
10,500 employees

<u>2021</u> 156,500

<u>2022</u> 187,000



Alphabet CapEx by Quarter – % of Revenue



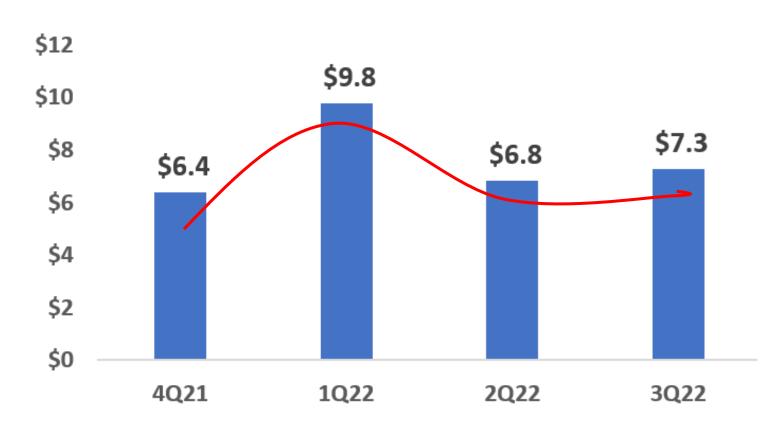
# Alphabet







Alphabet CapEx by Quarter – % of Revenue



Alphabet

CapEx is not increasing By Quarter

**Limited Growth** 





- > Meta down 65% year over year
- ➤ "Reducing hiring" in 2023
- "Significantly slowing our hiring"
- ➤ "Cutting expenses" by "\$1-\$2B" in 2023

Meta

"Zuckerberg's \$10billion-a-year investment" in Meta



## The Tech Downturn: Meta is Tightening the Hatches

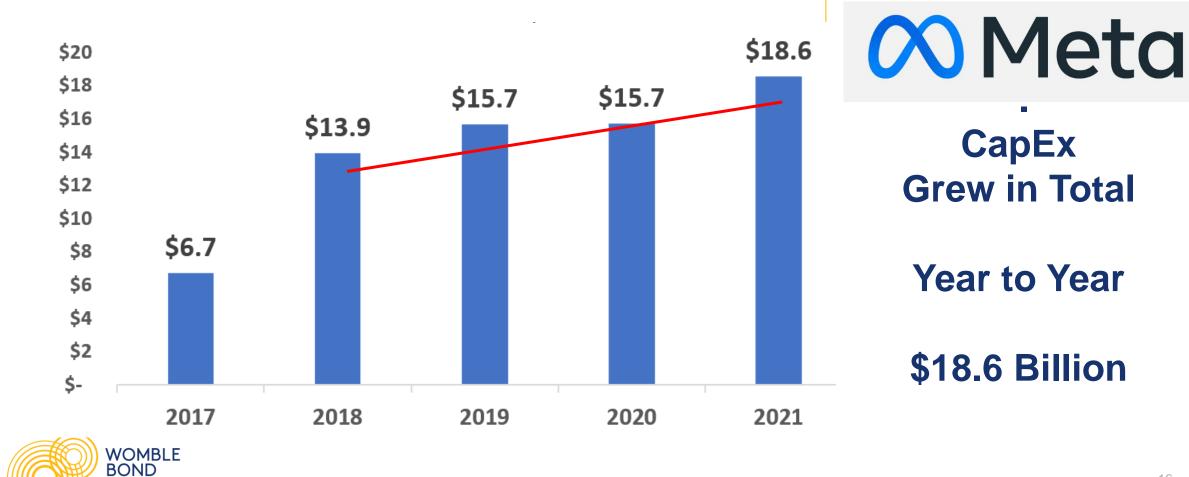








Meta CapEx: Year to Year is Increasing



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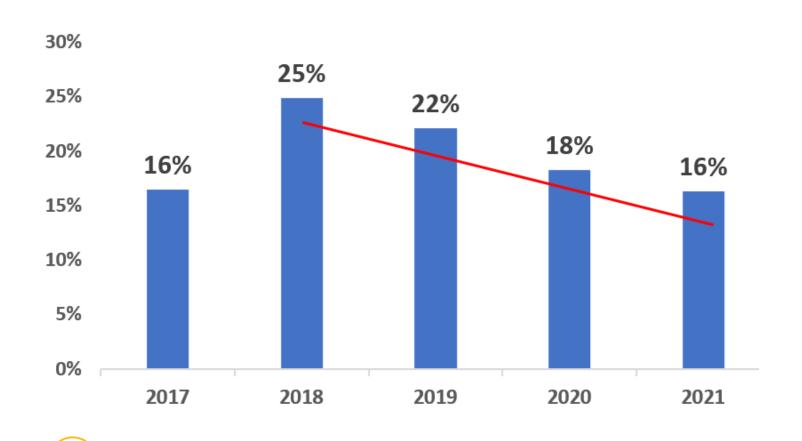


Year to Year

#### \$18.6 Billion

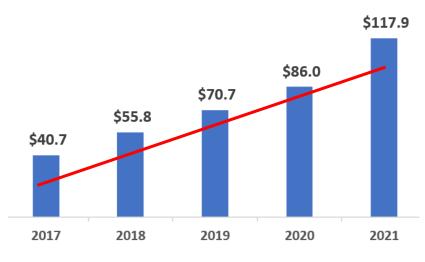


Meta CapEx –% of Revenue



WOMBLE BOND DICKINSON Meta

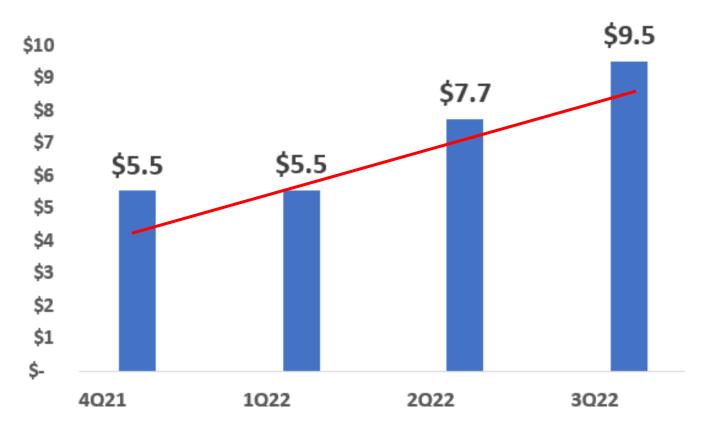
CapEx Decreased As a % of Revenue But Revenue increased



17



#### Meta CapEx by Quarter is Growing



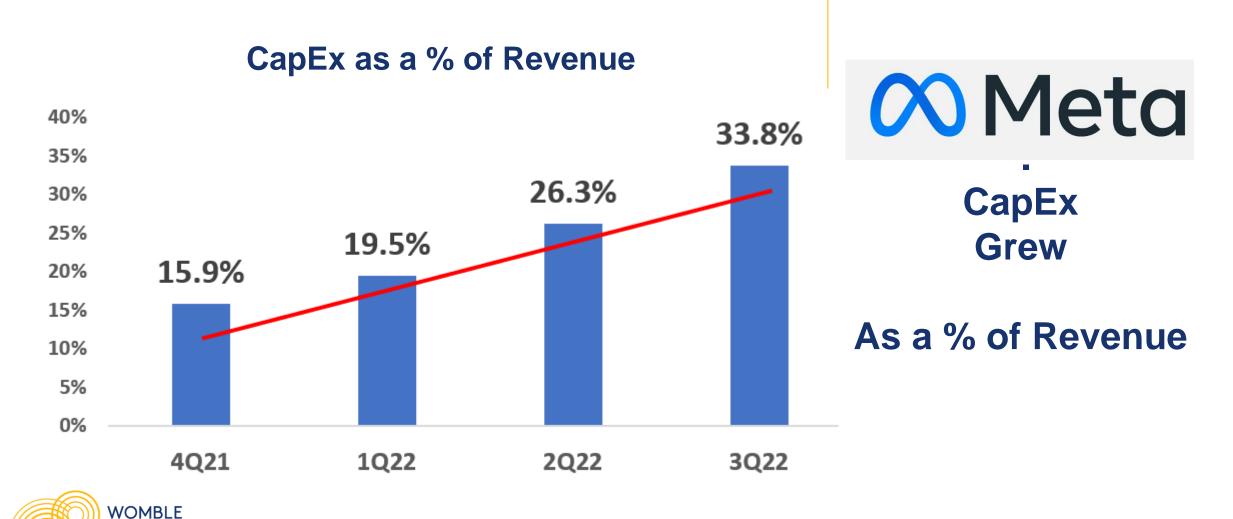
CapEx Last Year Grew in Real Terms

> By quarter despite cuts in employees



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# Undersea cable total OTT Spend Minimal



#### OTT Total CapEx Spend "Ball Park" estimates

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DICKINSON

- 2010 to 2024: ~\$10.0 B OTT total undersea cables
- > 2022 to 2024: ~\$3.0 B OTT total
- CapEx /year 2010-2024: ~\$0.70 B /yr

### CapEx /year 2023-2024: ~\$1.5 B /yr

Undersea Cable CapEx Comparison with Mobile

<u>Verizon CapEx</u> in 2022 ~\$22.5 B ~\$6 B on C-Band Deployment

#### **Comparison**

Total OTT Annual Undersea Cable Capex is **3% of Verizon's CapEx** 



## OTT Undersea Take Aways

- The FCC treats undersea cable as "second fiddle" to satellites ~Kent Bressie
- \$10 Trillion every day in financial transactions transported on undersea cable
- 95% of the international content and data is transported on undersea cable
- "Out of sight, out of mind" The average executive globally has no idea that undersea cable plays such an important financial role









**Cost cutting may be across the board** and include future undersea cable projects

- C-Suite will understand that cuts to undersea cable projects will dramatically hurt future revenue, and will continue to fund capex there
- **2. If there are cuts**, a **downturn** in undersea cable projects could be on the horizon
  - Private builds serving content providers
    Alphabet or Meta exiting the business and selling underseal to operators

Alphabet

Meta

"Trees Don't Grow to the Sky."





# Thank you!

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