

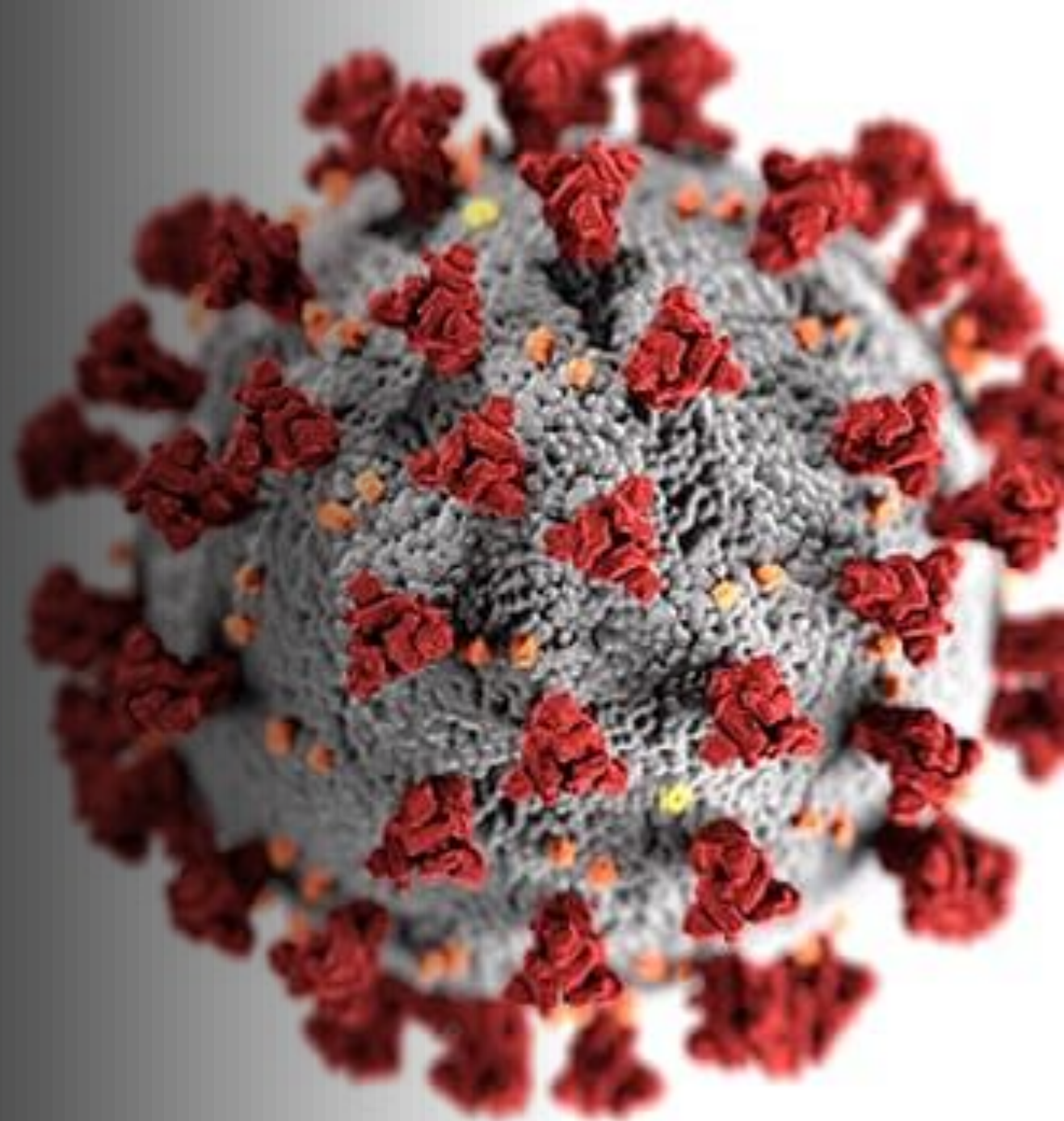


# PWC G8 Gals@Technology

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Tech In The Age of COVID-19

April 20, 2020



# Current Topics

- New iPhone SE
  - “Replacement” for previous iPhone SE
  - Basically an iPhone 11 in an iPhone 8 body
  - 4.7” display (original SE was a 4” display)
  - Touch ID button
  - Qi wireless charging
  - Lightning port but NO headphone jack
  - 3 colors (black, white red)
  - 3 memory sizes (64GB, 128GB, 256GB)
  - 3 prices (\$399, \$449, \$549)



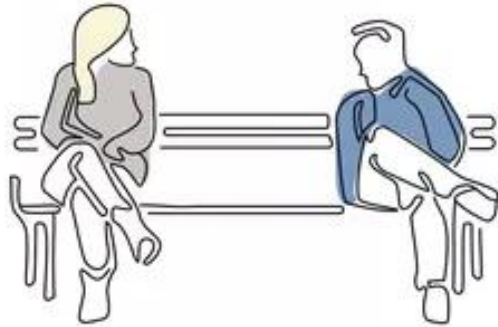
# Current Topics

- Microsoft rebranding Office 365 to Microsoft 365 (4/21/2020)
  - Going forward, commercial subscriptions will include Windows
  - No change in price or content for consumer subscriptions
  - A number of business package changes
  - “more than just Office” (things to come??)
- Microsoft is pausing non-security updates during the COVID-19 period



# Contact Tracing – Apple & Google

Alice and Bob meet each other for the first time and have a 10-minute conversation.

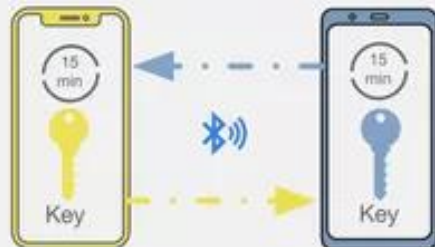


Bob is positively diagnosed for COVID-19 and enters the test result in an app from a public health authority.



A few days later...

Their phones exchange anonymous identifier beacons (which change frequently).



With Bob's consent, his phone uploads the last 14 days of keys for his broadcast beacons to the cloud.

Apps can only get more information via user consent.



# Contract Tracing – Apple & Google

Alice's phone periodically checks broadcast beacon keys to see if any have tested positive for COVID-19



Alice sees a notification on her phone with link to more information



Sometime later...

Alice's phone downloads from the server all positive broadcast beacon keys and finds a match with Bob's locally-stored anonymous identifier beacons



Anonymous identifier keys are downloaded periodically



A match is found

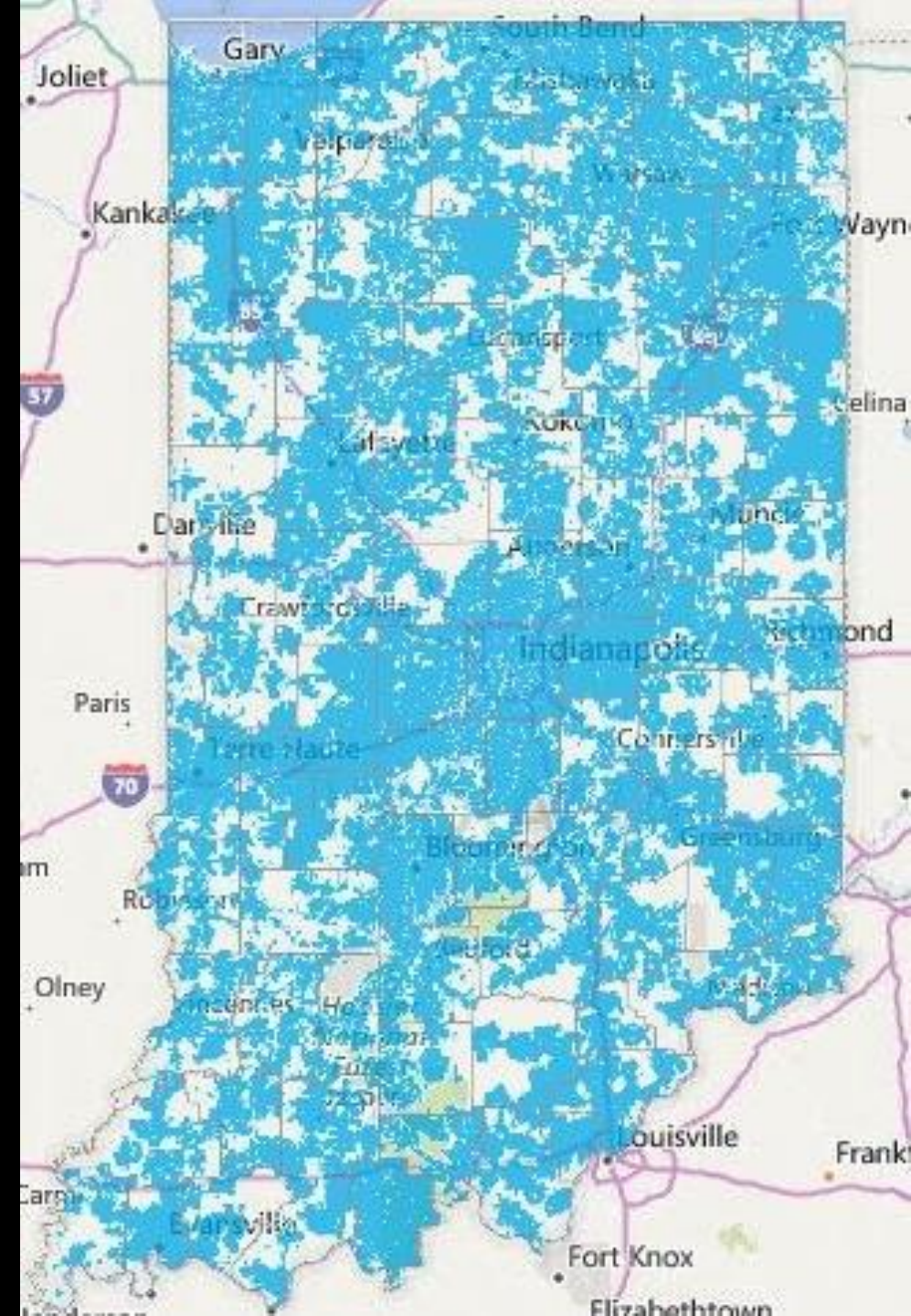
Alice's phone receives a notification and she can get more information



Alice can get more information from the health authority app or website

# Social Distancing and Internet Connectivity

- Social Distancing has exposed the “digital divide”
- Indiana ranks 21<sup>st</sup> in internet access availability by state
- 265,000 people in Indiana don’t have any wired internet provider
- 666,000 people in Indiana without access to wired connections capable of 25Mbps download speed
- Internet coverage
  - Marion County – 99.0%
  - Tippecanoe County – 90.4%
  - Benton County – 10.2%





## Social Distancing and Tech Support

- Phone support is “difficult”
- In-Home support suspended
- Growing number of very good YouTube “How to” videos

# Social Distancing May Change Things Forever

- Work-at-Home can work and sometimes be more productive
- E-learning can work for things like snow days and even sick days
- E-Meetings can work and include more people
- Electronic family gatherings can work to close physical distance





# Many Good Tools Available

- Zoom
- Microsoft Teams
- Google Hangouts
- Google Hangouts Meet (more business oriented)
- Skype
- Facebook Messenger
- Houseparty
- Facetime



# Zoombombing

- A word we didn't know 30 days ago
- Meeting attendees disclose the meeting ID or just random guess
- Zoom has 9, 10, or 11-digit ID, Google meet using 25 digits
- Meetings without a password (Zoom now requires a password)
- Meeting attendee "identity" (WebEx can require two factor auth)
- Underground where people are posting meeting IDs and passwords for fun or profit (Discord channels are currently most popular for this)



# A Few Tips

- Consider what's in the background
  - Zoom – Virtual Background
  - Skype – Blur the background
- Looks at options to record or take photos
- Skype has a translator (10 voice and 60 text languages)
- Look into keyboard shortcut (space bar to mute)
- Look for “beauty filters” 😊
- Consider security (meeting password, private information,..)

# Multi-User Games

- Pocker (Pocker Stars)
- Rummikub
- Added benefit with video (Facetime, Zoom, etc)
- Houseparty (like Facetime but with games)
- Zoom session games
  - Battleship
  - Yahtzee
- You can use friends and contacts
- You can play against “internet players” – use CAUTION



# Coronavirus & Cybersecurity

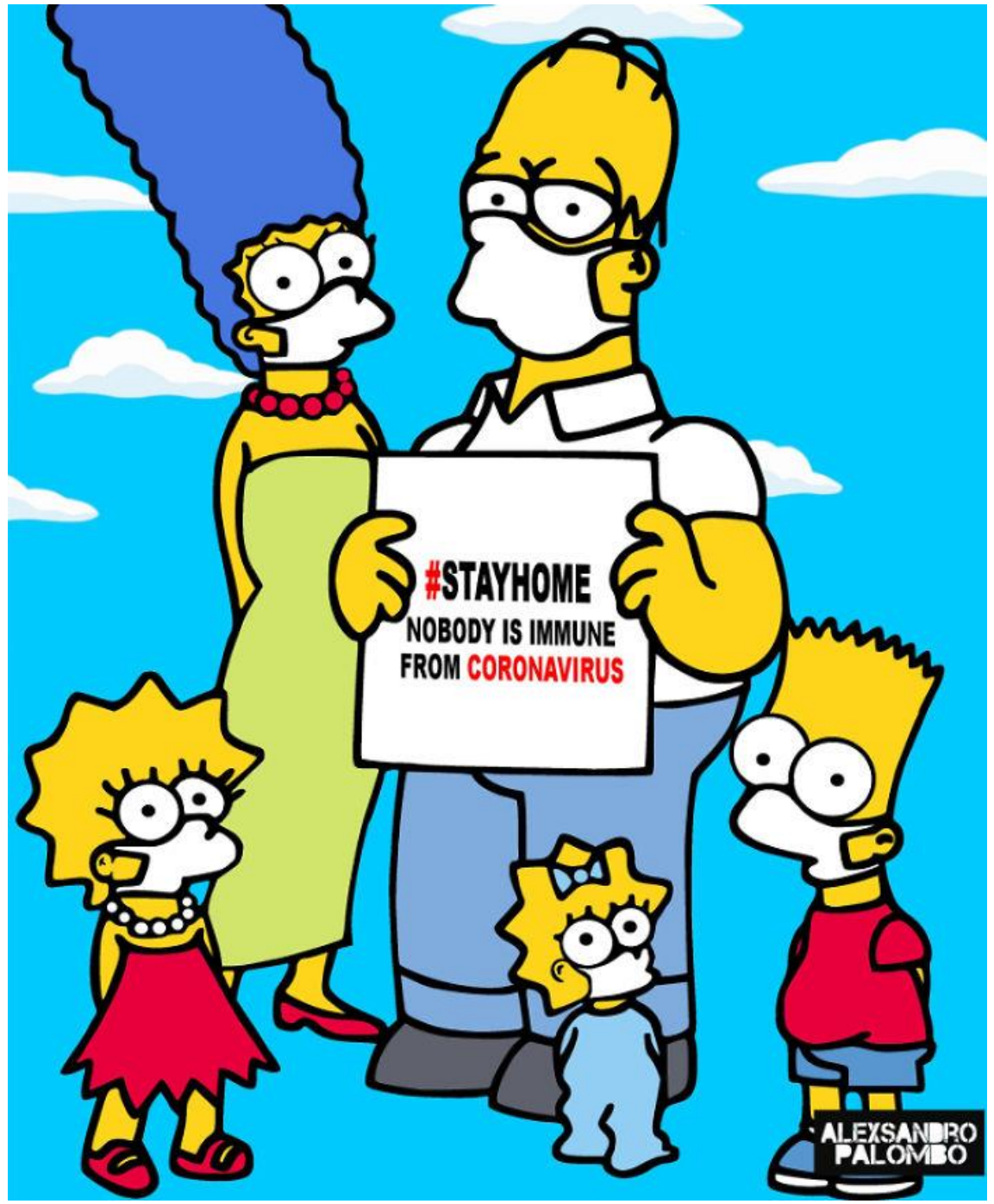


- Online players will not be your “new BFF”
- Don’t give out personal information
  - First name only (or even a pseudonym)
  - No location information
  - Don’t “meet you after this is over”
  - No credit card information
- <https://security.berkeley.edu/resources/cybersecurity-and-covid-19>

# Looking Forward

- We are learning that everything online is all about IDENTITY
  - Trusted communication
  - Group membership
  - Transactions
  - Voting
- Some places (like Indiana) are not set up well for E-sign
  - Auto title transactions REQUIRE “wet signature”
  - Are transactions legally enforceable?
- Cyber Security will continue to be a growing concern





#STAYHOME  
NOBODY IS IMMUNE  
FROM CORONAVIRUS

ALEXSANDRO  
PALOMBO