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#### What is risk?

#### Risk

"A situation involving exposure to danger"

(Oxford Dictionary)

#### Risk Perception

"The ability to identify and evaluate risk associated with hazardous events"

(Hunter, 2002)



#### What's our risk getting to Identiverse?



VS



1 in 5,000

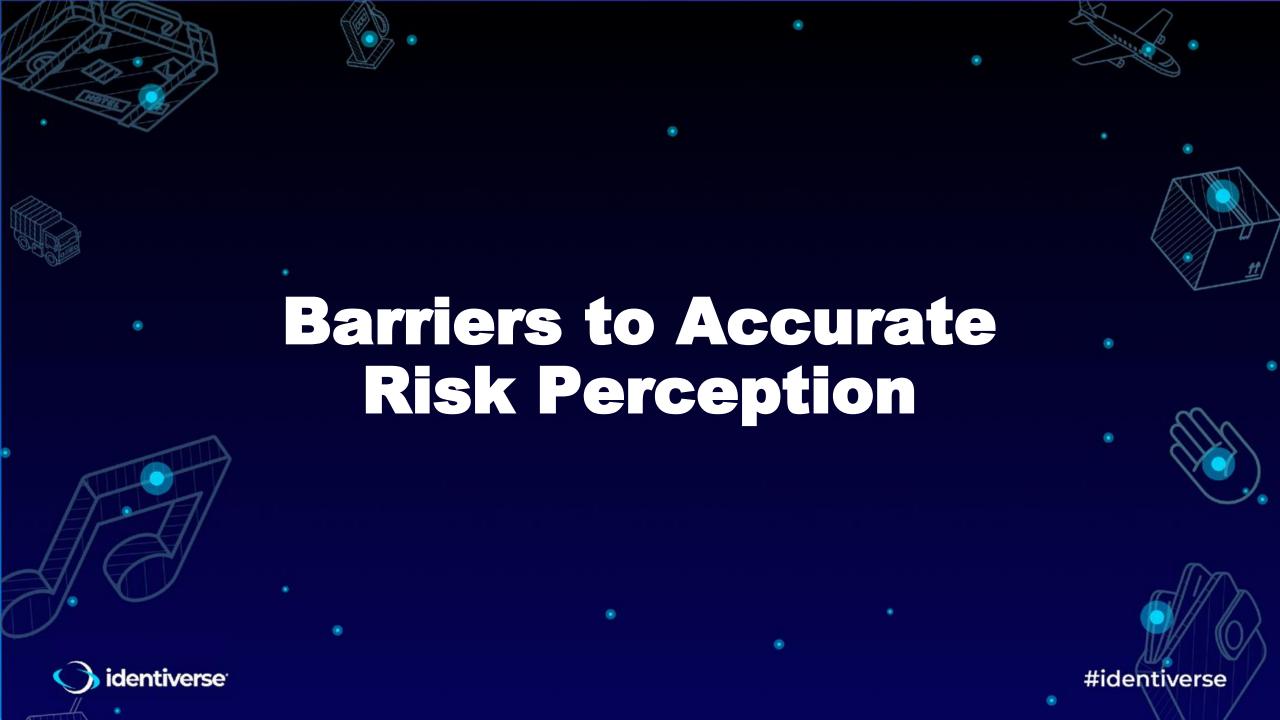
1 in 11,000,000



iverse #identiverse

## Spr!ng2020





#### **1. Our Brains ♥**□ Heuristics

- Mental shortcuts save us cognitive load!
- ...but can result in inaccurate risk assessments that put us in danger



#### **Availability Heuristic**



"My grandma had Covid and she didn't die, it's not a problem."



"I've used this same password for 10 years and haven't had a problem."

#### **Anchoring Heuristic**

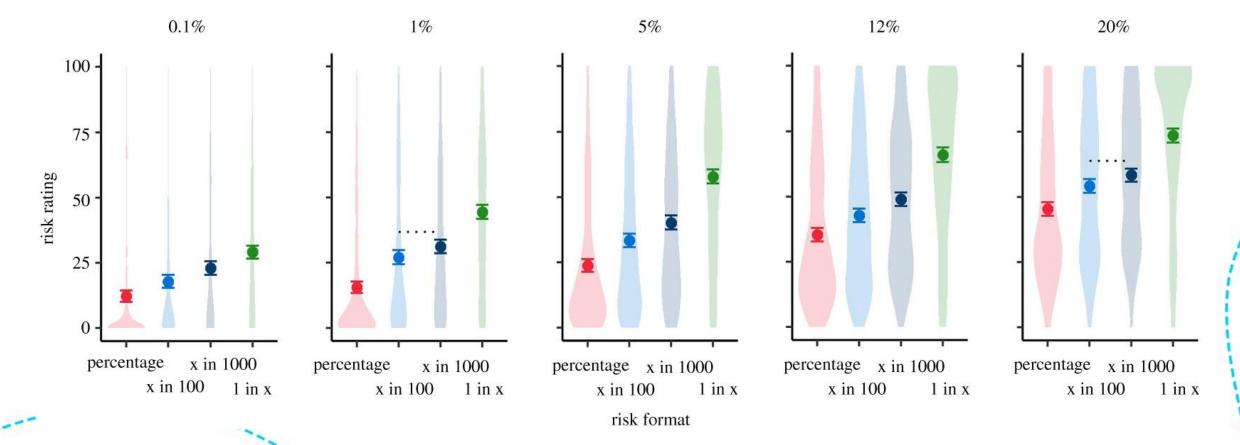


"In March 2020 they said masks don't work, so I don't need one."



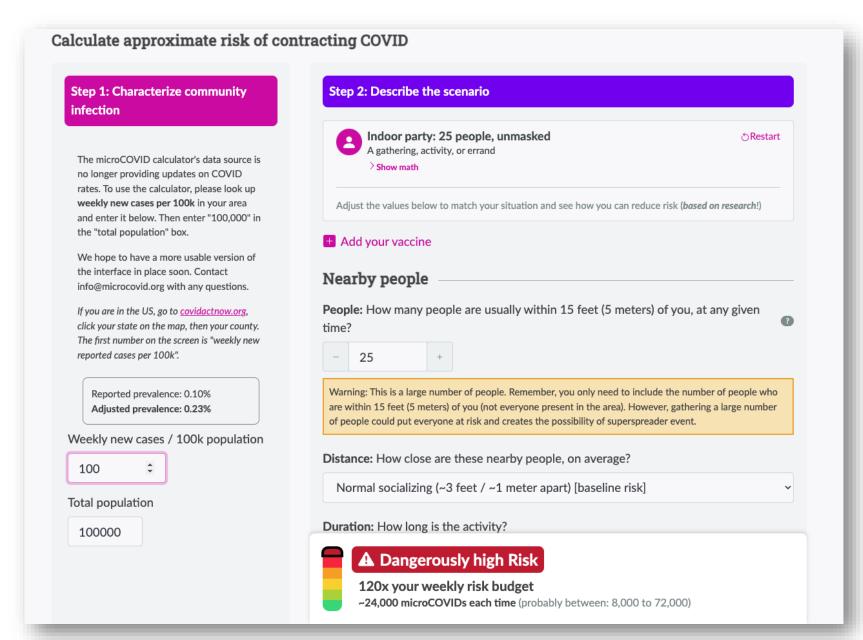
"I change my password quarterly so I must be secure."

#### 2. Poor data presentation & accessibility





Source: Communicating personalized risks from COVID-19: guidelines from an empirical study, 2021

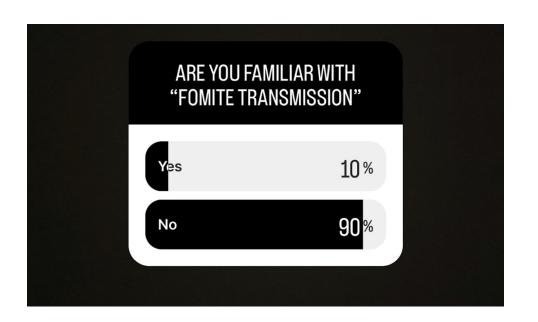




# Choosing a new password or deciding to RSVP to a party shouldn't require me to do math!







ARE YOU FAMILIAR WITH "2 FACTOR AUTHENTICATION"

Yes 91%

No 9%





#### 3. Fear Fatigue

"Demotivation to follow recommended protective behaviors, emerging gradually over time and affected by a number of emotions, experiences, and perceptions."



Source: Malwarebytes "Still Enduring from Home" survey

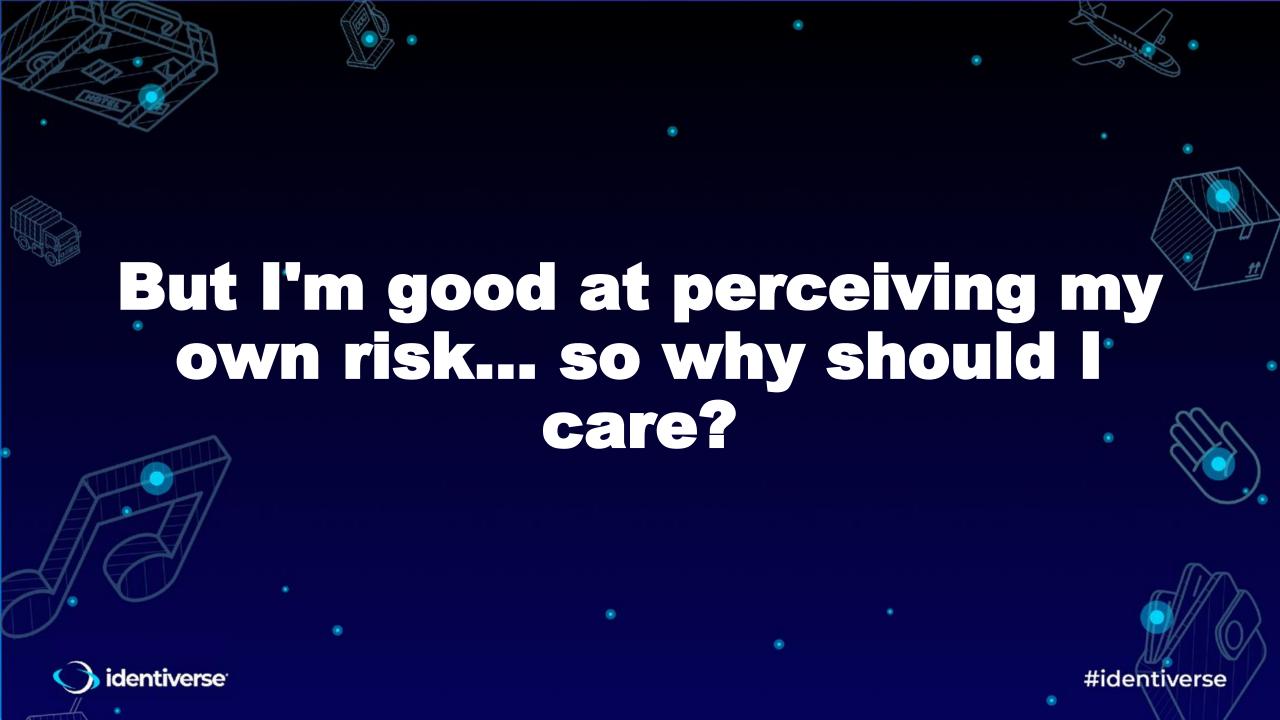


"There are a lot of companies or organizations that have my email [address] and chances are one of them is going to get hacked"





Mayer, Peter et al. ""Now I'm a bit angry: " Individuals' Awareness, Perception, and Responses to Data Breaches that Affected Them." USENIX Security Symposium (2021).





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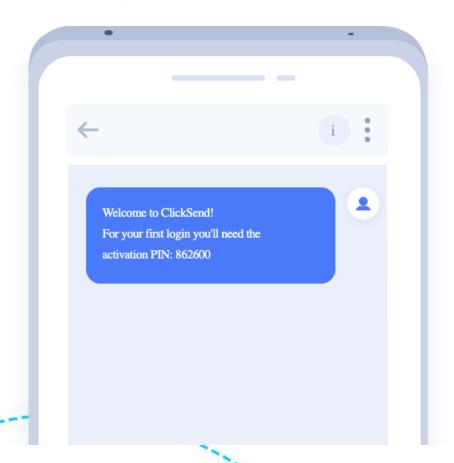
#### What now?

- We need to help users build better heuristics!
- Present data so that it meets people where they are and conveys risk appropriately
- Reduce complacency to counter fear fatigue

· "We" not "me"



## Improve risk perception →□ Give tools for mitigation!





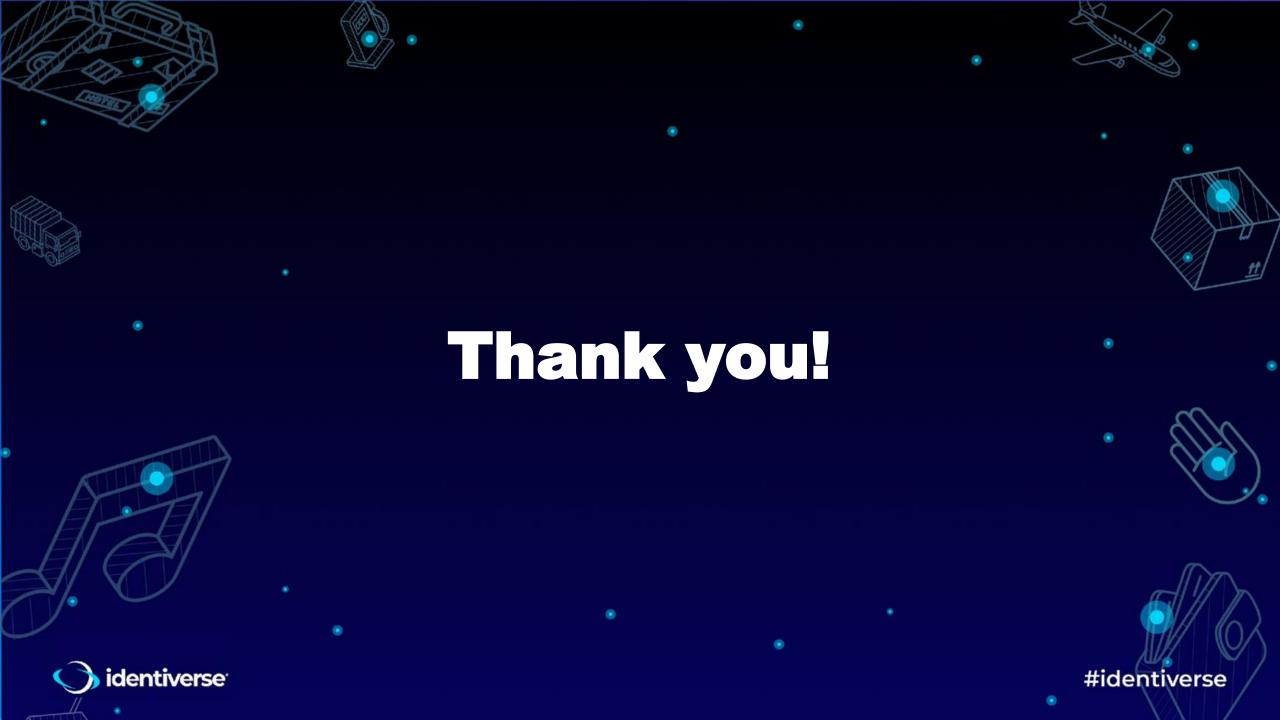


## Improve risk perception →□ Give tools for mitigation!





Source: https://healthmatters.nyp.org/how-to-wear-a-face-mask-your-guide-to-the-dos-and-donts/



#### Sources

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