

Cybersecurity Top of Mind

Monique J. Morrow, Sr. Distinguished Architect, Emerging Technologies
December 8, 2021



Agenda



Framing The Problem

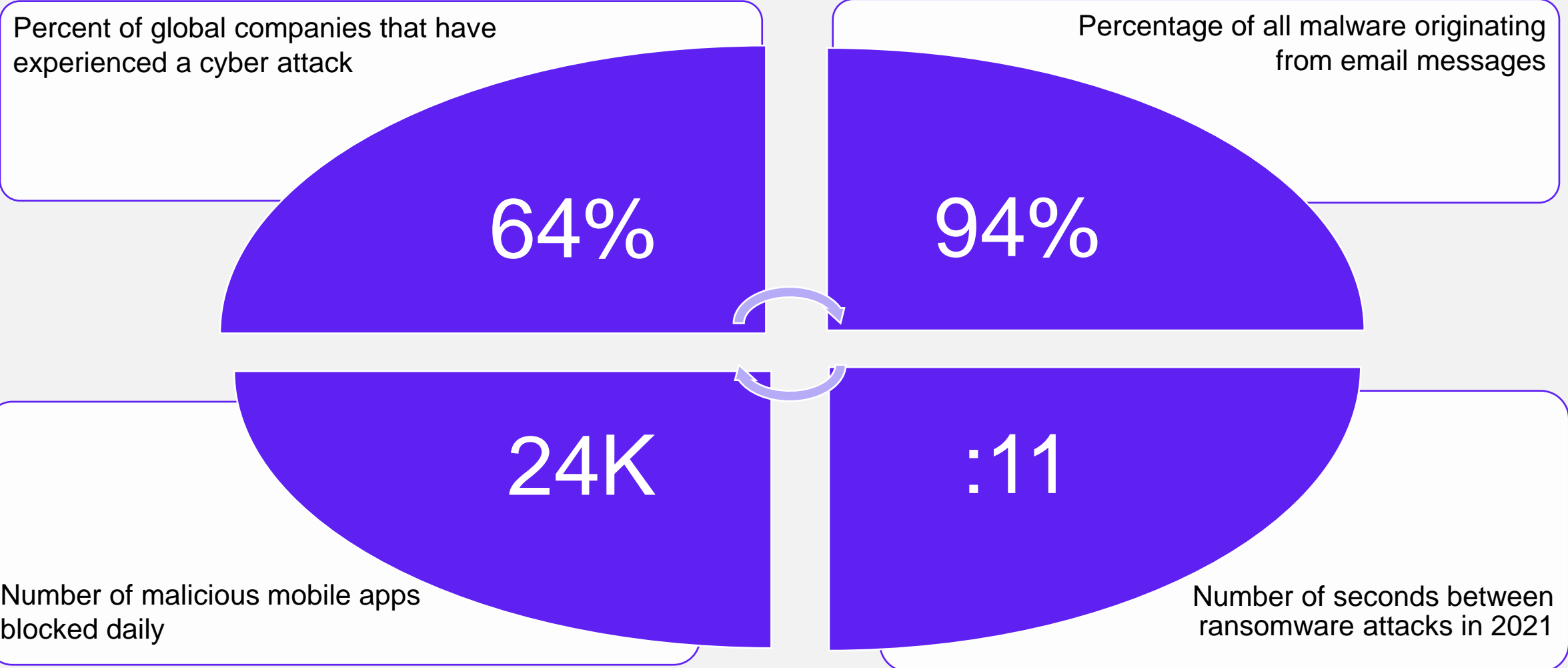
Emerging Privacy Enhancing Technologies

Quantum Networking and Security

Women in Cybersecurity and Opportunity

Summary and Recommendations

Framing The Problem*



* <https://techjury.net/blog/how-many-cyber-attacks-per-day/#gref>

Emerging Privacy Enhancing Technologies

Overview of the Technology Stack : Protecting Against Data Leakage

Differential Privacy

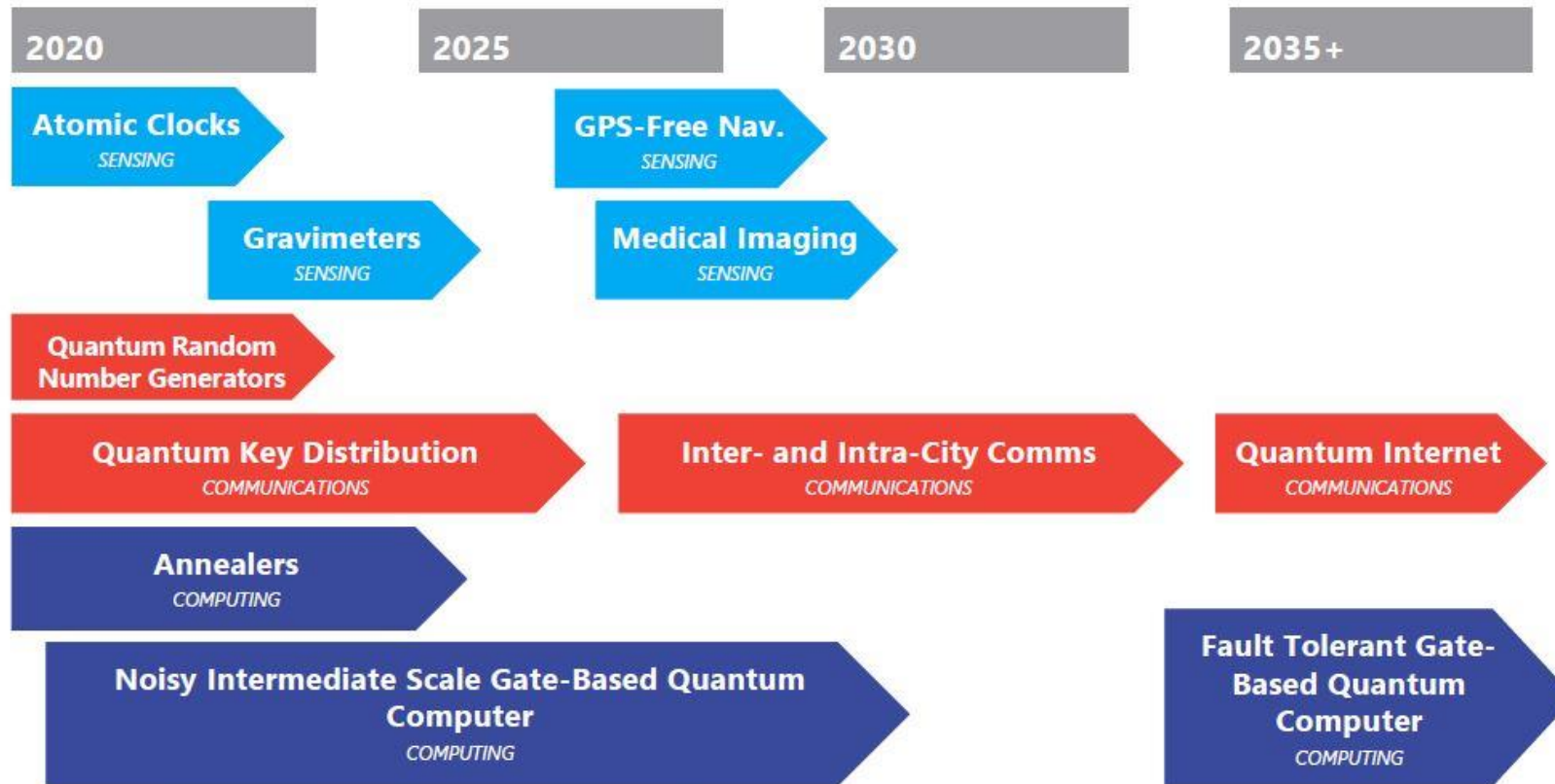
Homomorphic Encryption

Secure Multiparty Computation

Zero Knowledge Proof

Quantum Roadmap

Current Focus: Networking and Security



*Chevron placement represents anticipated start date of commercialization
Source: Expert interviews, Newry analysis

Women?

Surpassing Barriers as an Opportunity

“As cybersecurity became an established discipline, it picked up some of the more worrisome traits from STEM: It’s heavily white and male.”

<https://www.forbes.com/sites/forbestechcouncil/2021/04/23/how-to-address-the-lack-of-diversity-in-cybersecurity/?sh=5b3dda7c2255>

Women and Cybersecurity: The Race for Talent in the USA

The Reality: We still Have A Ways to Go

“Female cybersecurity professionals also face advancement barriers.

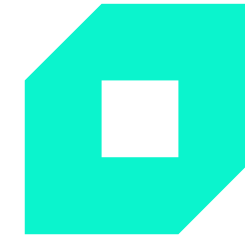
“Men are four times more likely to hold executive roles than their female counterparts, they’re nine times more likely to have managerial roles than women, and sometimes they’re paid 6% more than women...”

Source: <https://www.sdxcentral.com/articles/news/women-in-cybersecurity-arent-unicorns-we-do-exist/2021/11/>

<https://www.forbes.com/sites/forbestechcouncil/2021/03/26/do-you-have-a-cybersecurity-talent-shortage-dont-require-a-four-year-degree/?sh=660dea541b88>

Summary and Recommendations

Path Forward as Examples



Women Know Cyber: 100 Fascinating Females Fighting Cybercrime

- <https://cybersecurityventures.com/women-know-cyber-100-fascinating-females-fighting-cybercrime/>

Summary and Recommendations

Path Forward as Examples

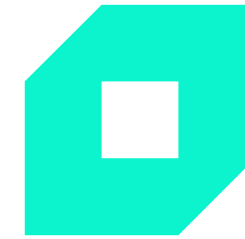
Top Female Leaders in Cybersecurity

- <https://cybermagazine.com/top10/top-female-leaders-cybersecurity>



Summary and Recommendations

Path Forward as Examples



A Guide for Women in Cybersecurity

- <https://cybersecurityguide.org/resources/women-in-cybersecurity/>

Summary and Recommendations

Next Steps

