



The Future of Cybersecurity Minnesota Housing

October 2019

MN Housing at a Glance

- **Quasi-public Specialized Financial Institution**

- Our Mission: Housing is the foundation for success, so we collaborate with individuals, communities and partners to create, preserve and finance affordable housing.
- Independent Board of Directors

- **Issues Debt Securities Separate from State of Minnesota**

- Rated Aa1/AA+ by Moody's and Standard & Poor's
- Typically in the Market every month

- **Over \$3 Billion in Assets**

- \$750 million in Net Worth
- \$1 Billion in Programmatic Spending Annually

- **275 Employees/Contractors**

- **Strong and Successful for More than 40 Years**



State of Cybersecurity



SKILLS GAP STILL NOT SHRINKING



WANTED: QUALIFIED CANDIDATES



TOP 3 REASONS CYBERSECURITY PROS ARE CHANGING JOBS



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State of Cybersecurity - Continued

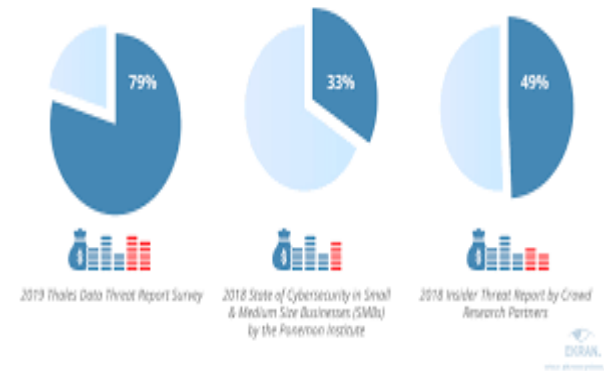
3 IN **4**
SAY
CYBERCRIME IS
UNDERREPORTED



1 IN **2**
SAY CYBERCRIME IS
UNDERREPORTED EVEN
WHEN IT'S REQUIRED
TO REPORT IT



Companies increased spendings on IT security in 2018



Just Think about This – The Aviation Industry

- 15000 aircraft in the sky each day
- \$1,000,000.00 to modify one line of safety software on an aircraft
- 195 days to detect a security breach
- 50% of aviation organizations to do not detect cybersecurity in their global risk register
- 2026 aircraft will generate 80 times more data than it does today.

The Future – The Forth Industrial Revolution in Construction



Is it Real?

- Let's talk a little bit about Uber
- [Katerra](#) – who are they?
- [Rise Modular](#) – A Minnesota company
- Disruption and Friction
- Change is inevitable



What about Cybersecurity?

- The world will be different
 - What we fund
 - How we fund it
 - What we worry about changes
 - Collaboration tools
 - Security on a different plane
 - Governance
 - Risk Modeling





Thank You!

Tony Peleska | Chief Information Officer