

Is Your Company Ready for the Next Cyber Threat?

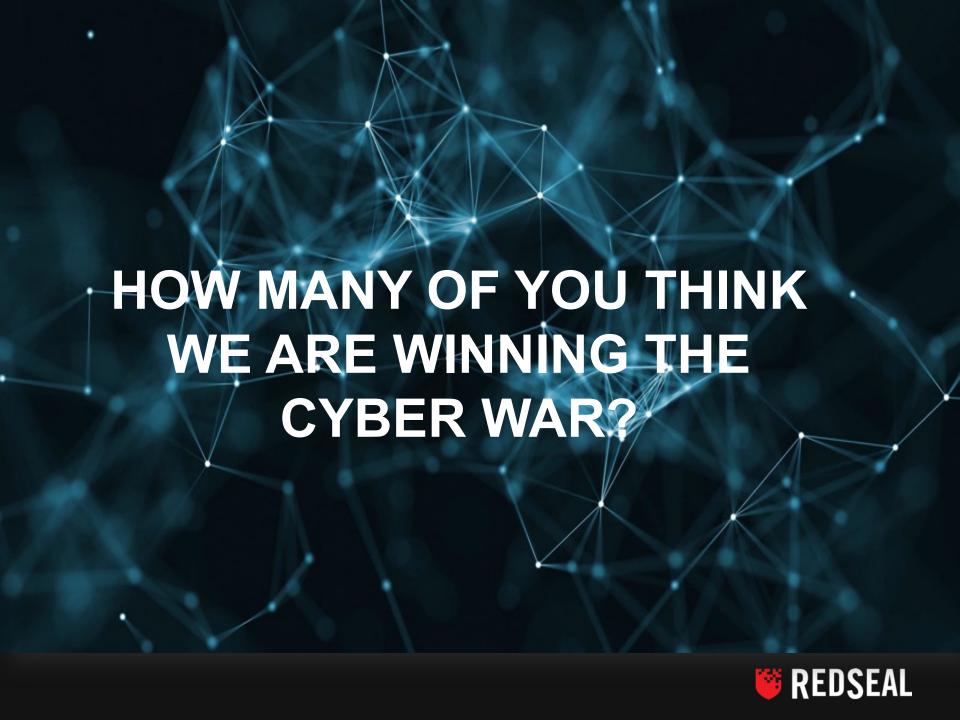
RAY A. ROTHROCK

Foreword by Richard A. Clarke, former U.S. National Coordinato for Security, Infrastructure Protection, and Counter-terrorism

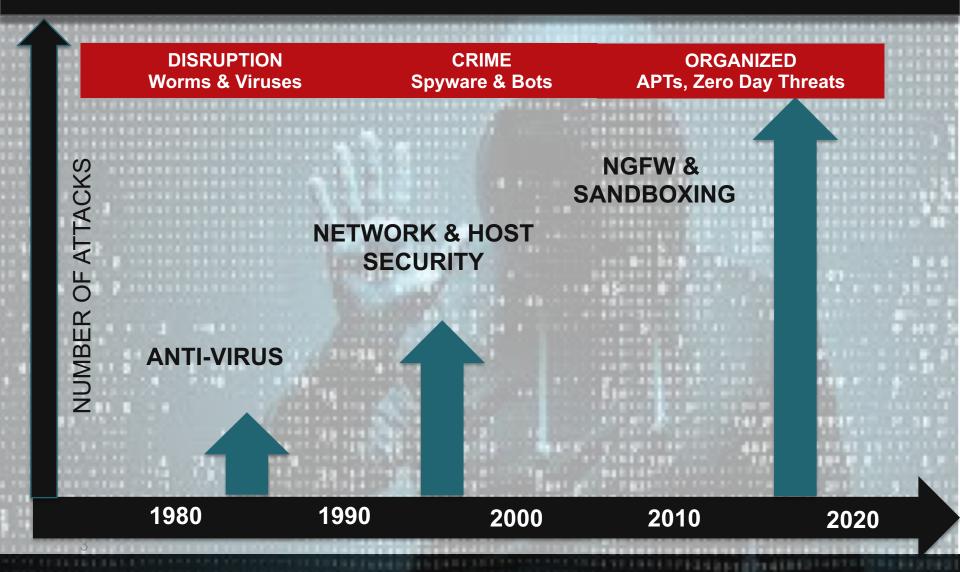
Ray A. Rothrock

Chairman & CEO, RedSeal, Inc. Venrock, Partner Emeritus Forbes Midas List Former Chair National Venture Capital **Association** Member of the MIT Corporation Vice Chairman, UTIMCO Distinguished Alumnus Texas A&M Director - Check Point Software Technology, Ltd. Trustee Carnegie Institute of Science Director - Roku, Inc. Up and to the Right - Bassist **April 2019**





TRENDS SUGGESTS THE HACKERS ARE WINNING





2013 TIPPING POINT









WHAT DOES THIS MEAN?



THE
HACKER
IS ALREADY
INSIDE.



AND AT WHAT COST?

\$2 Trillion
By 2019
\$1 Trillion
Intellectual
Property
Forbes, 2016





HOW DO WE KNOW THIS?

Organizations still fail basic cyber hygiene tests.

Organizations are rarely in compliance all of the time, if ever.

Organizations struggle to stay prepared to respond to latest threats.

Time is our enemy. Organizations can't respond fast enough.

Organizational leaders face tough questions, changing risks, and unknown threats.

Their customers wonder.





RESILIENCE DIVIDEND: BEING STRONG IN A WORLD WHERE THINGS GO WRONG*

Dr. Judith Rodin

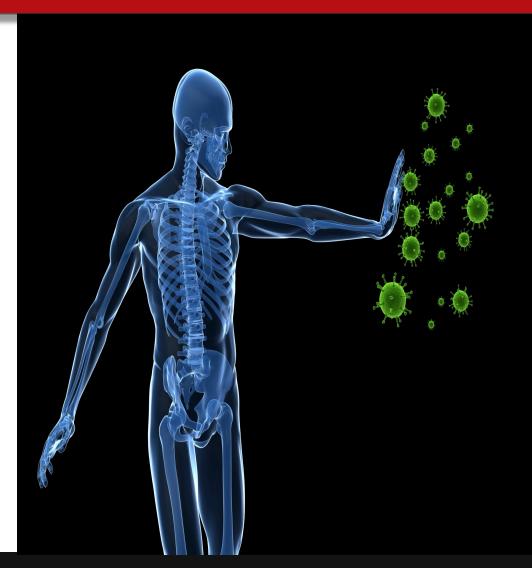
President, Rockefeller Foundation

Book originally published 2014



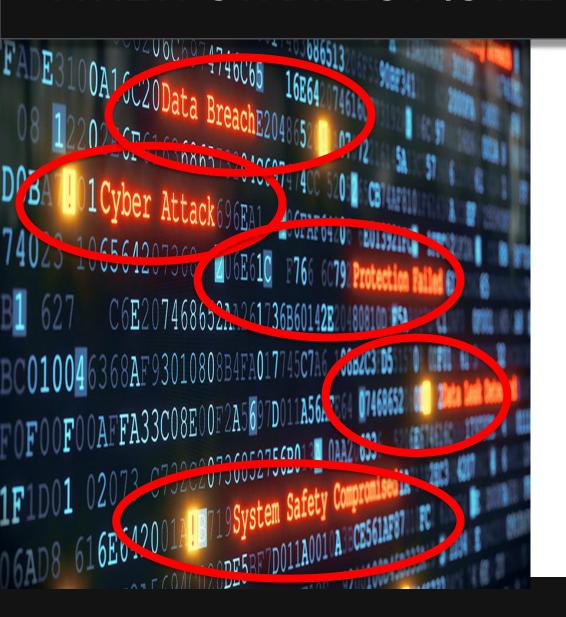
A MODEL FOR RESILIENCE

THE HUMAN BODY





A NEW STRATEGY IS REQUIRED



MY PATTERN
RECOGNITION
SUGGESTED
NEW THINKING
WAS NEEDED:

RESILIENCE

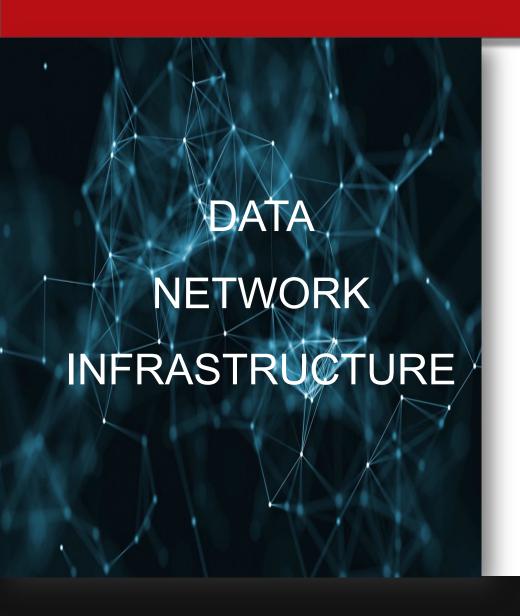


RESILIENCE IS A STRATEGY





TECHNOLOGY



MOST SYSTEMS
WERE NOT BUILT
WITH RESILIENCE
IN MIND



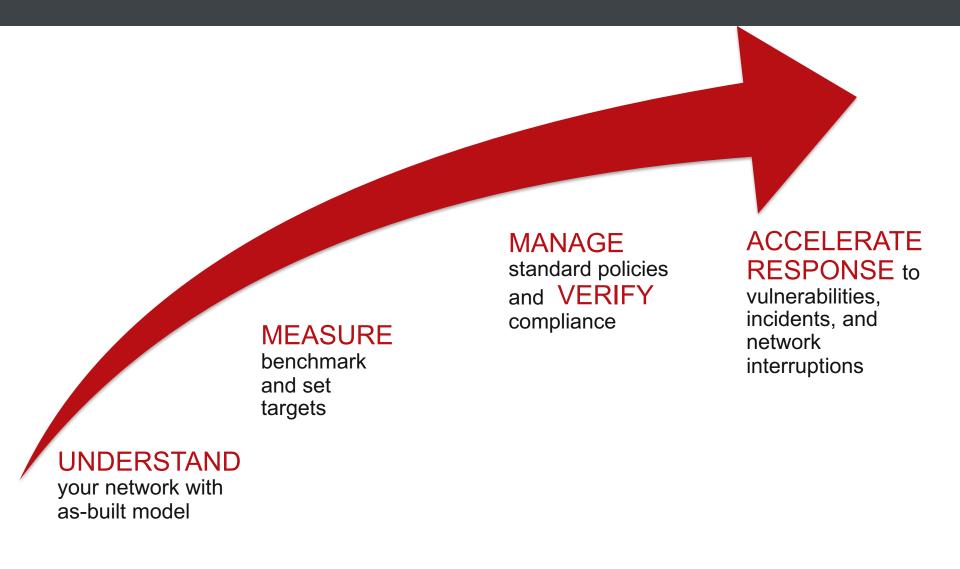
THE PATH TO DIGITAL RESILIENCE

- 1. UNDERSTANDING and VISIBILTY
- 2. MEASUREMENT
- 3. COMPLIANCE
- 4. ACCELERATE RESPONSE





THE BUILDING BLOCKS OF DIGITAL RESILIENCE





UNDERSTAND THE DIGITAL INFRASTRUCTURE: NETWORK AND DATA

DATA MOVES ON A PATHWAY.

DATA PATHWAYS ARE PROGRAMMED.

YOU DO NOT KNOW EVERY PATH IN A MODERN ENTERPRISE **76%**

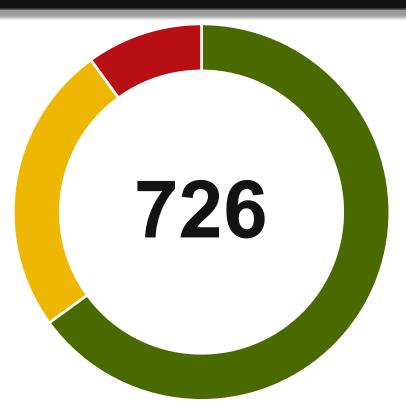
Of CEOs believe they have an accurate blue print of their network infrastructure

100%

Of RedSeal customers find network devices, sub nets, and pathways that weren't on the blueprint, if they had one



YOU CAN MEASURE RESILIENCE

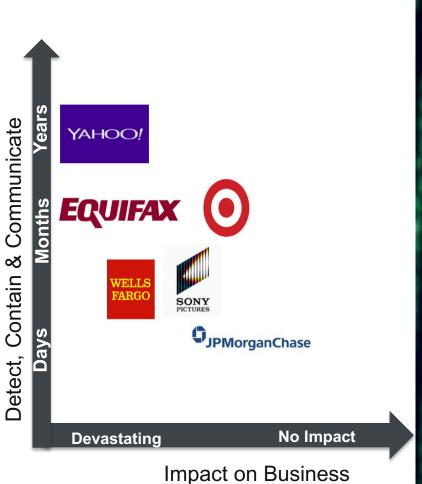


- Vulnerabilities in Network Context
- Routing Configurations Secure and Proper
- Pathways Known, Unknown or Inapproriate Pathways





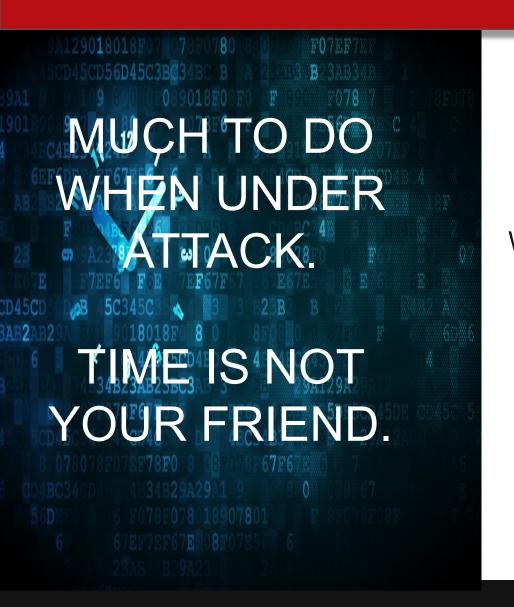
WE ARE A LONG WAY FROM RESPONSIVE







ACCELERATE RESPONSE | TECHNOLOGY



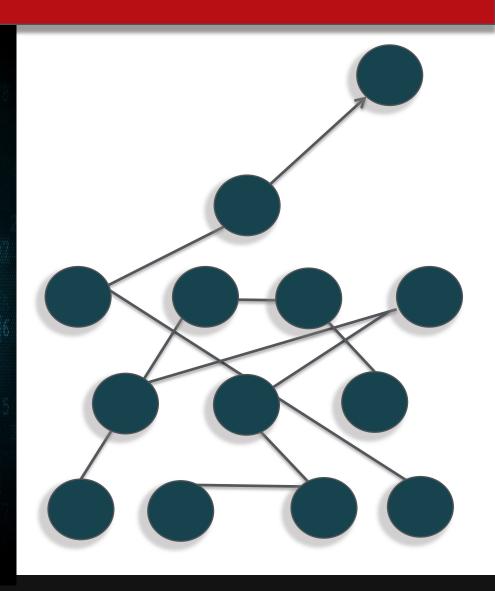
INCIDENT LOCATION **BLAST RADIUS** ALL POSSIBLE PATHS WHAT DATA AND ASSETS ARE AT **RISK** WHAT ARE MY OPTIONS INITIATE CONTAIMENT VALIDATE CONTAINMENT **ASSESS DAMAGE**



REPAIR & RECOVER

NO STRAIGHT LINE TO SUCCESS

SKILLED PEOPLE, DÉFINED AND REHEARSED OCESSES, TECHNOLOGY ARE INVOLVED





RESILIENCE IS A STRATEGY





WE CAN DO THIS: DIGITAL RESILIENCE

We <u>must</u> be better prepared, through digital resilience.

We *must* create trust, confidence, and capability.

Starts in the C-suite

STRATEGY

PEOPLE

PROCESS

TECHNOLOGY



KEY TAKEAWAYS from D.R.

- Frame RESILIENCE as a business issue, not a cyber security issue.
- Ask "What can go wrong?"
- Basic cyber training for everyone.
- Share the truth about visibility, infrastructure and issues.
- Put experts at the table.
- Establish metrics and measure often.
- Preparation is critical to your cyber strategy.



WHAT'S A BOARD TO DO

- Frame RESILIENCE & CYBER as business issues, not a technical cyber security issue.
- Basic cyber training for everyone. Step and repeat.
- Create a standing Cyber Resilience Committee.
 - Ask "What can go wrong?"
 - Share the truth about visibility, infrastructure and issues.
 - Put experts at the table.
 - Establish metrics and measure often.
- Resilience requires preparation. Both are critical to your cyber strategy.

WHAT'S A PERSON TO DO

- Learn to recognizing a phishing email delete it.
- Use two-factor authentication wherever you can.
- Make backups of your computers (ransomeware).
- Patch and upgrade your hardware and software.
- Manage your passwords. Change your passwords.
- Don't do sensitive business on public WiFi.
- Check regularly and lock your credit bureau records.
- Think before you act on email, browsers and your phone.



MY VISION



A world where DIGITAL RESILIENCE delivers CONFIDENCE in the face of cyber attack.



QUESTIONS



