MISSION CRITICAL: SECURING HEALTHCARE'S WEAKEST LINK

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SECURING HEALTHCARE'S WEAKEST LINK

Small & Medium

Health Care Providers

+

Business Associates

IT & Security are
Overwhelmed

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SMALL & MEDIUM HEALTH CARE PROVIDERS ARE VITAL LINK

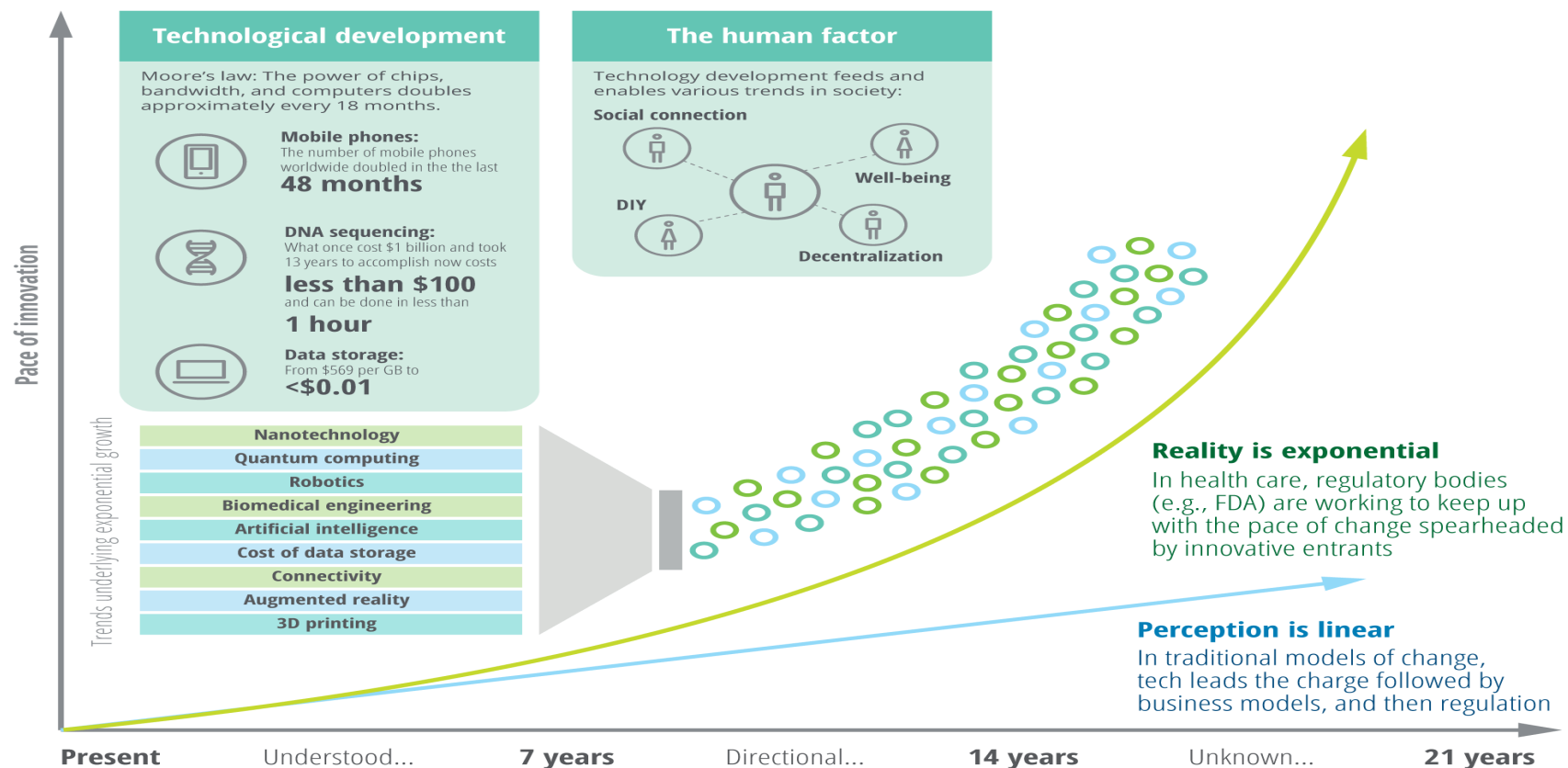
1 in 5 or 75 million Americans covered by Medicaid

- Over 40% of Americans get healthcare from rural & urban providers

- In rural areas, Community Health Centers often only healthcare available

- Provide primary care, specialty care, dental care, mental health, & substance abuse services

- Home Health Care growing rapidly

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PACE OF CHANGE IS ACCELERATING

FIGURE 1

Exponential change will accelerate the pace of disruption

Technological development

Moore's law: The power of chips, bandwidth, and computers doubles approximately every 18 months.

Mobile phones:
The number of mobile phones worldwide doubled in the the last
48 months

DNA sequencing:
What once cost $1 billion and took 13 years to accomplish now costs
less than $100
and can be done in less than
1 hour

Data storage:
From $569 per GB to
<$0.01

The human factor

Technology development feeds and enables various trends in society:

Social connection

DIY

Well-being

Decentralization

Pace of innovation (vertical axis)

Trends underlying exponential growth:
- Nanotechnology
- Quantum computing
- Robotics
- Biomedical engineering
- Artificial intelligence
- Cost of data storage
- Connectivity
- Augmented reality
- 3D printing

Reality is exponential
In health care, regulatory bodies (e.g., FDA) are working to keep up with the pace of change spearheaded by innovative entrants

Perception is linear
In traditional models of change, tech leads the charge followed by business models, and then regulation

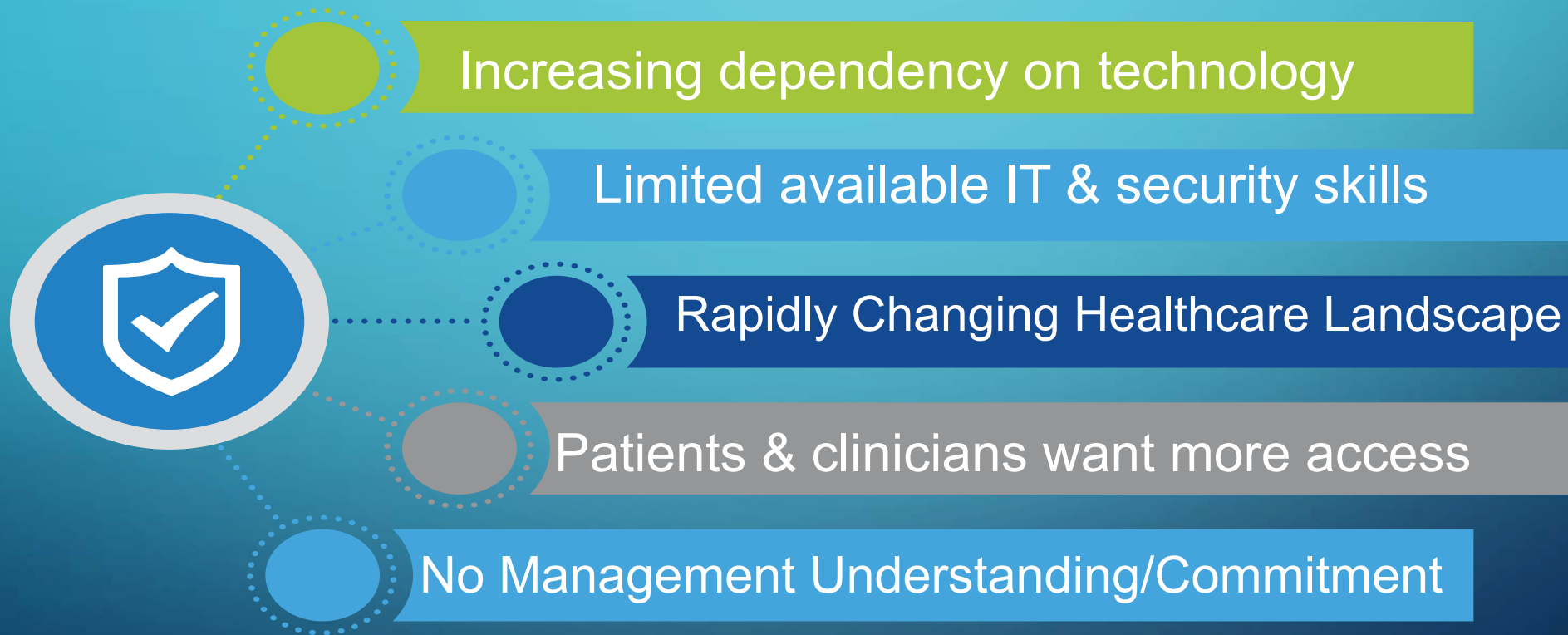**Present** | Understood... | **7 years** | Directional... | **14 years** | Unknown... | **21 years**

Note: All dollar amounts are given in US dollars.

Source: Deloitte analysis.

Deloitte Insights | deloitte.com/insights

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SECURITY CHALLENGES FOR SMALL & MEDIUM ORGANIZATIONS

Increasing dependency on technology

Limited available IT & security skills

Rapidly Changing Healthcare Landscape

Patients & clinicians want more access

No Management Understanding/Commitment

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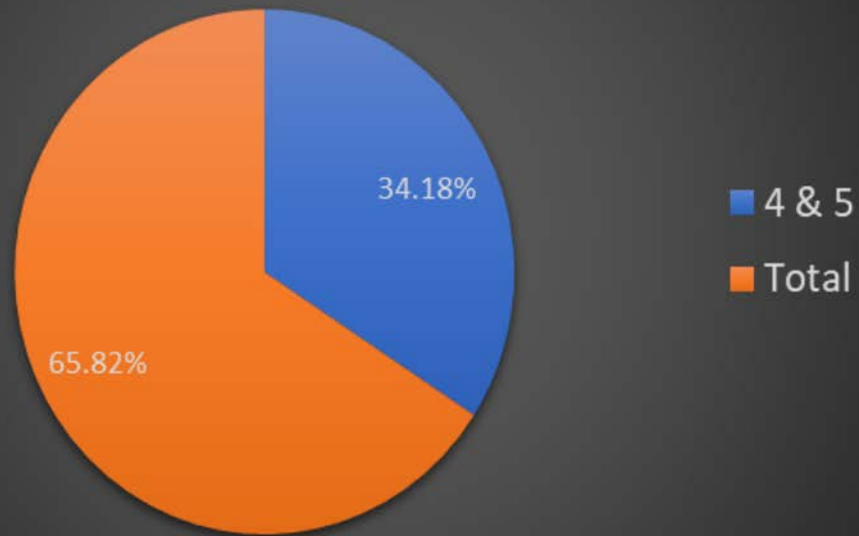
SECURITY IS STILL "CHECK THE BOX" EXERCISE

Reactive not Proactive:

- I'm too Little

- It's too Complicated

- It's too Expensive

- We don't Have the Time

- Compliance is Enough

- 3rd Party Providers Do it for Me

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THE REALITY OF SECURITY

Vulnerability Count for Severity 4&5

34.18% ■ 4 & 5
65.82% ■ Total

- Many Small & Medium Healthcare Organizations have difficulty remediating and monitoring critical vulnerabilities

REAL PROGRESS IS POSSIBLE – ONE CHC SAW VULNERABILITIES DROP MORE THAN ½

Case Study: Total Vulnerabilities Over Time

58.06%
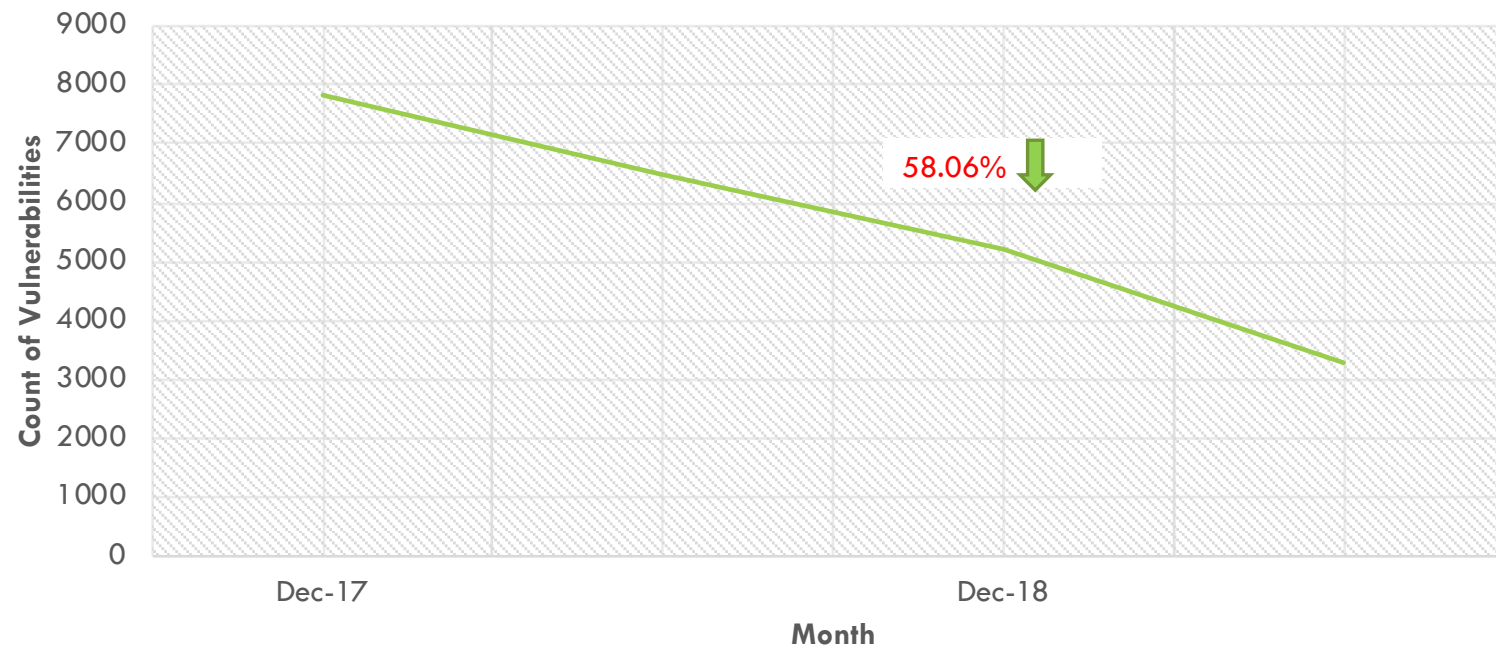
Dec-2017	Sep-2018	Dec-2018	Jul-2019
7828	6477	5191	3283

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WHAT THIS ALL MEANS

- Can HHS Initiatives really be implemented without a security ecosystem?

- Interoperability
- Patient Control of Health Records
- Telehealth
- Home Health

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CYBERSECURITY REQUIRES CHANGE MANAGEMENT

- How do we change the culture to enhance security?

THE WAY FORWARD

- Partner to help implement new technologies and better practices?

- Support training programs to educate healthcare staff on Health IT, Security and Data Analytics to fill the current shortage?

- Set standards that are simpler and easier to implement?

SAME OLD

CHANGE

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