



Global Knowledge®

Trends in Cybersecurity

Presented by Ray Lugo

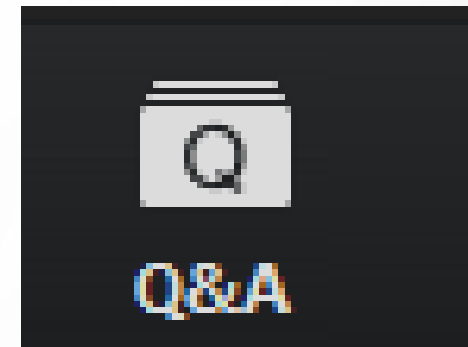
Building Skills to Enable Success

Attendee Information

Open and hide your control panel with orange arrow

Join audio

- Mic and Speakers to use VoIP
- Telephone and dial in using the info provided



Note: Today's webinar is being recorded.

Presenter: Ray Lugo

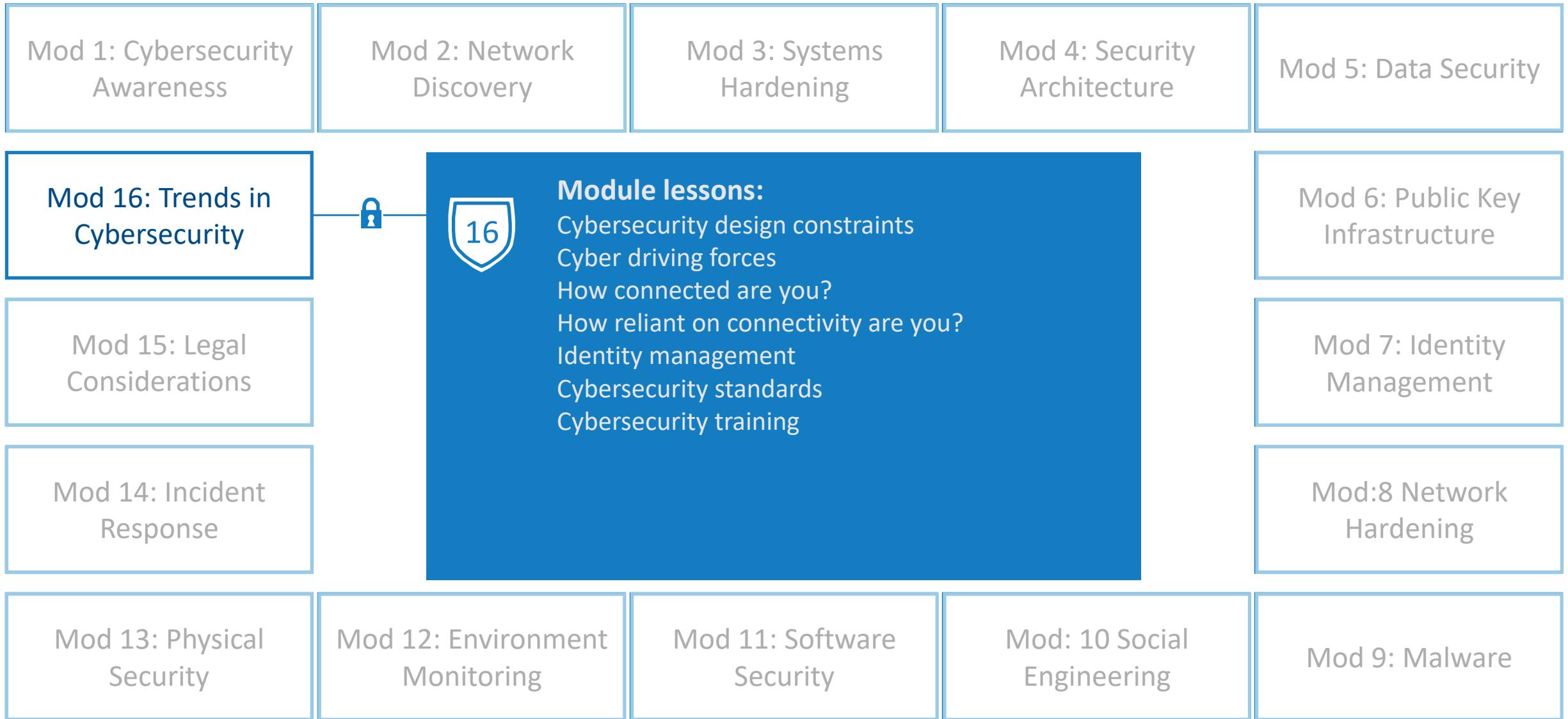
Ray, Graduated with a Telecommunications degree in the late 80s. I worked for several organizations such as, IBM, Rolm, MCI WorldCom, and Metropolitan Fiber Systems installing and maintaining telecom systems and WAN circuits for their customer base.

I witnessed VOIP deployments early on which lead to my LAN technologies and securing LAN exposure. I then became a Global knowledge instructor in 2001 in which I deliver various Telecom, Networking and Cybersecurity courses.



Trends in Cybersecurity





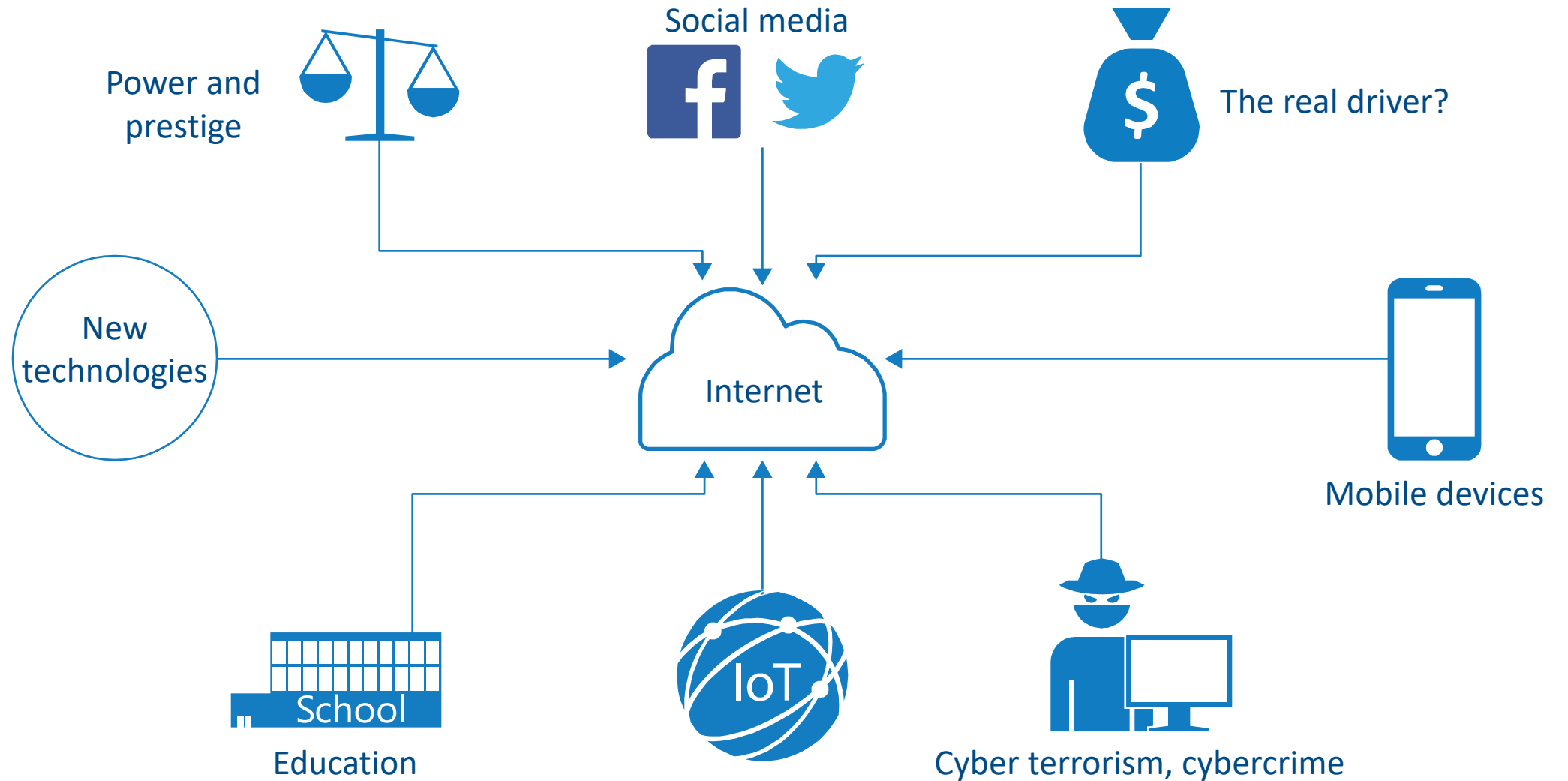
Module 16: Trends in Cybersecurity

Cybersecurity design constraints

Constraints that may prevent having the “ideal” IT or IT security solutions in place.

- Budget
- Regulations
- Technical capability
- Design capacities and limitations
 - Materials
 - Equipment
 - Compatibility
 - Processes
- Staff capability
- Political issues

Cyber driving forces



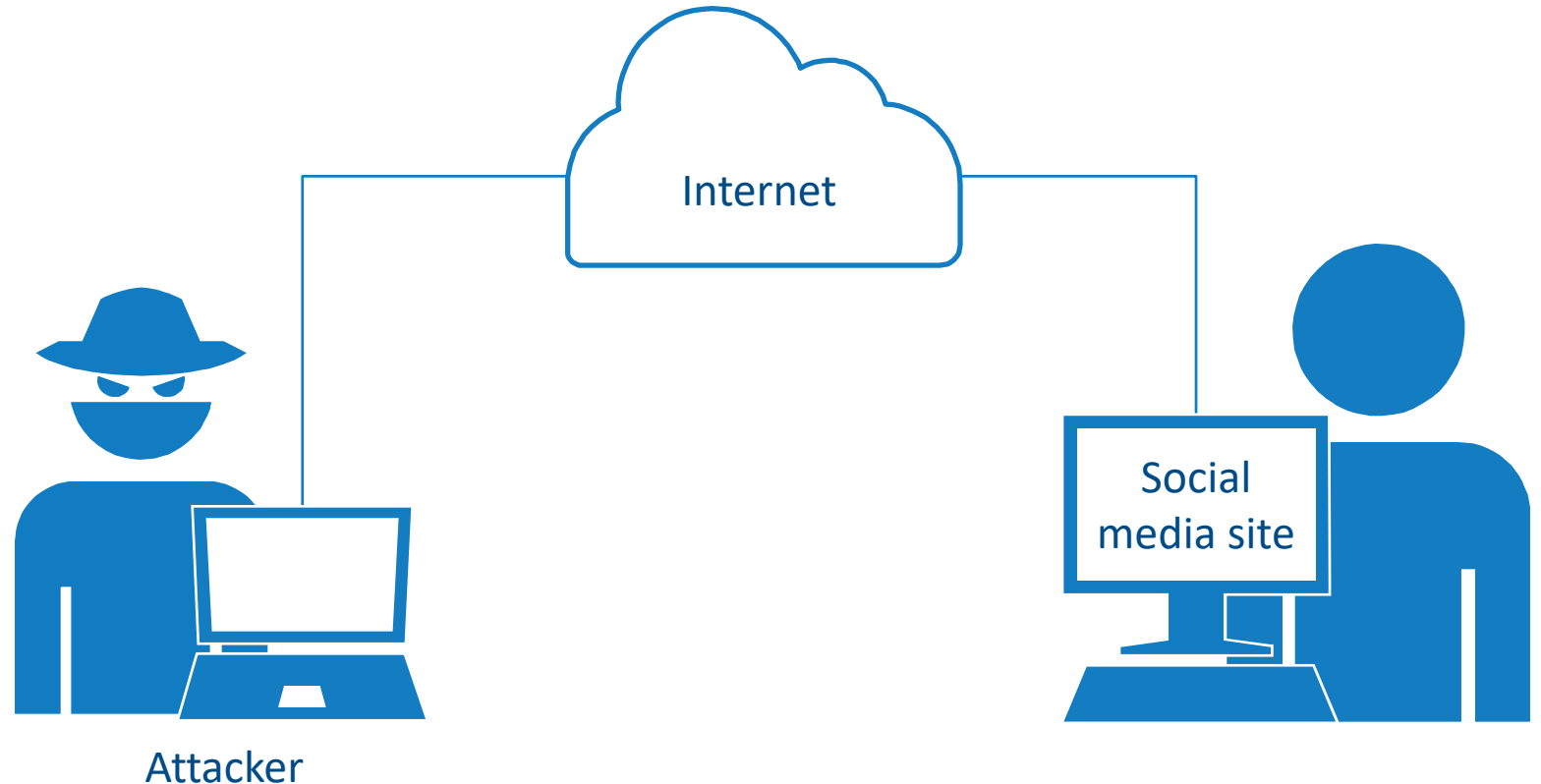
Mobile devices

- Do you ever *not* carry a cell phone?
- How long can you go without checking it?
- Do you have the right to restrict access to your cell phone records?
 - How about with a company-provided phone?
- Can the company you work for restrict cell phone usage at work?



Social media

- Social media is THE killer app for mobile devices, if not the entire Internet.
- Could you be required to have a social media account in the near future?
- Is your social media presence or digital ID part of a background check today?
- What if, on a job application, you say you don't have a digital identity?



IoT devices present security problems for businesses and consumers:

- **Businesses:** Each device is potential gateway into network for hackers to access data and controls to physical systems.
- **Consumers:** Risk to privacy exists as devices can record vast amounts of data that can be pieced together to create a deeply intimate portrait of a person's life.

Internet of Things



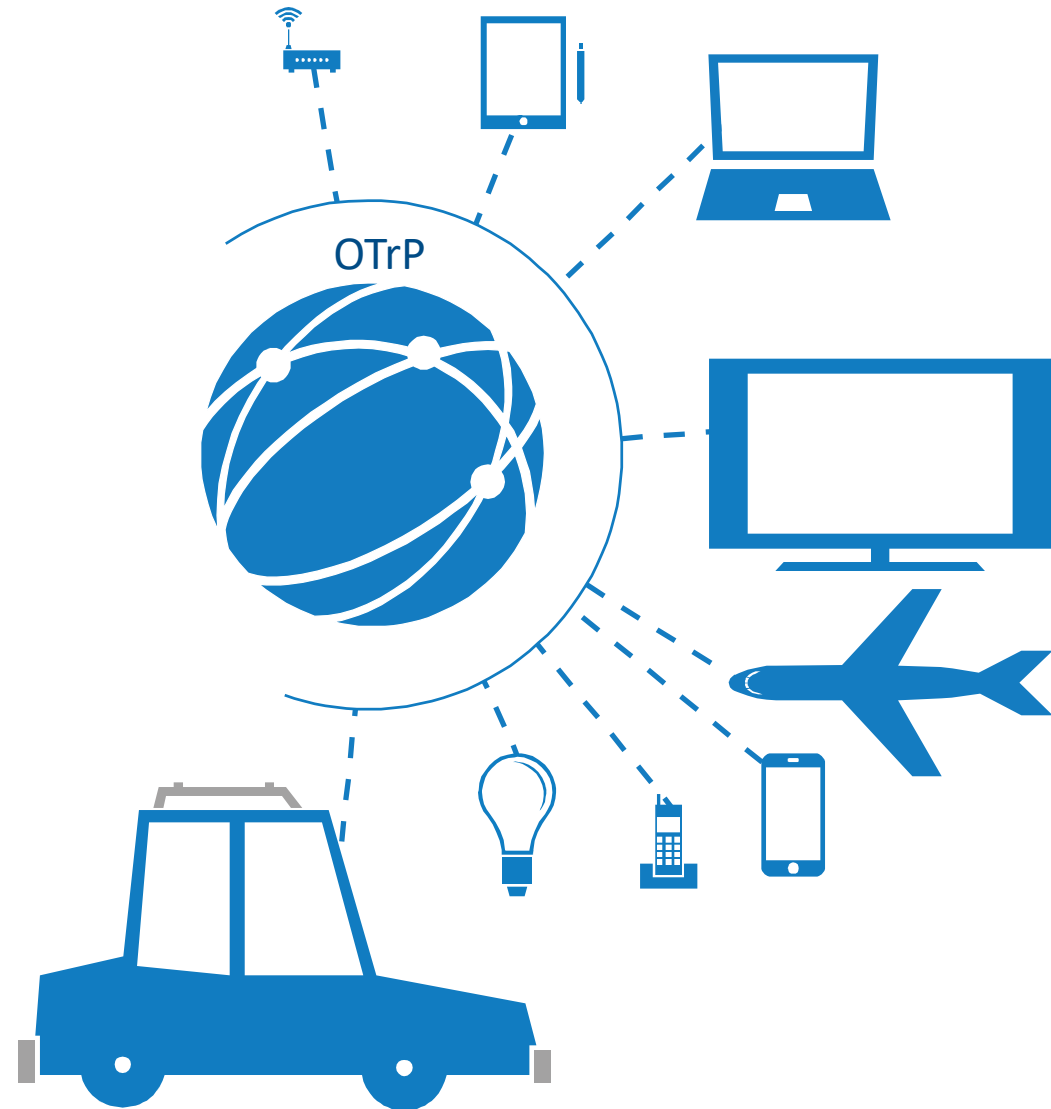
ICS: SCADA

SCADA systems monitor important infrastructures:

- Electric grids
- Water supplies
- Pipelines

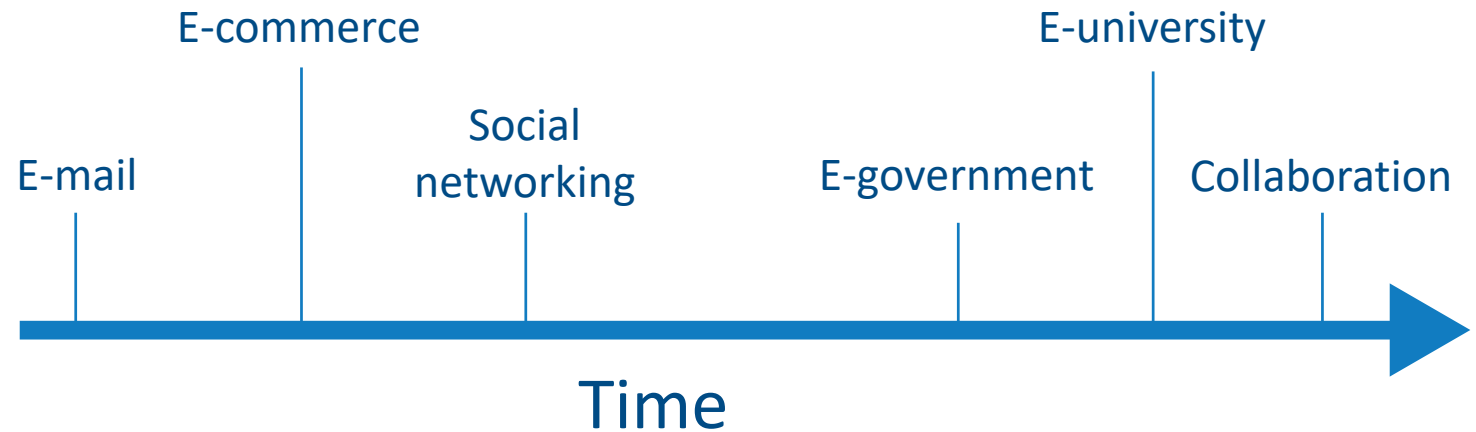
The need for standards

- The lack of security standards for IoT devices leaves networks vulnerable.
- OTrP offers a solution.



New technologies

- As new technologies are developed, will security be a priority in the development rationale?
- Does cyberlaw keep up with new technologies?
- Will you have the right or power to restrict access to, and storage of, your personal information?
- Could your medical history become part of a background check?
- Who will own the Internet in the future?



How connected are you?

- Most people spend time on the Internet just about every day:
 - E-mail
 - Shopping
 - News
 - Weather
 - Social media
 - TV
 - Other interests
- How many people do you know who don't use the Internet? How quickly is that number dwindling?

Discussion

How many computers are in your home today? How about in your car?

How reliant on connectivity are you?

If the Internet were to be down for a few days, what would be the impact on your life?

- How will you buy things?
 - Your electronic payments aren't working. How much cash do you have on you today?
- How will you get more cash?
 - ATM machines are not working.
- How will you pay at a store?
 - Store cash registers may not work.
 - Credit cards cannot be accepted.
- How will you get paid?
 - Auto-deposit won't be working.

Identity management

- The more connected we become, the bigger issue identity management becomes.
- Options for reducing the number of IDs and passwords you must maintain/administer include:
 - Federated identity
 - Biometrics
 - Fingerprint reader on phone
 - Facial recognition for screensavers
 - Smart cards
 - RFID
 - Password management tools

Discussion

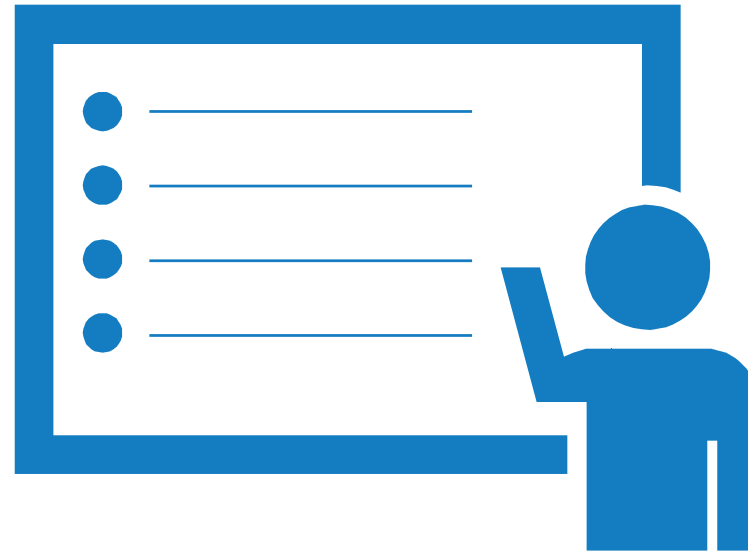
How many different systems do you access today at work and in your personal life?

Cybersecurity standards

- Standards in IT continue to evolve. No one standard is foolproof or futureproof for your environment.
- Organizations focused on developing standards:
 - NIST
 - ENISA
 - ETSI
 - ISO
 - IETF
 - IEEE
 - COSO

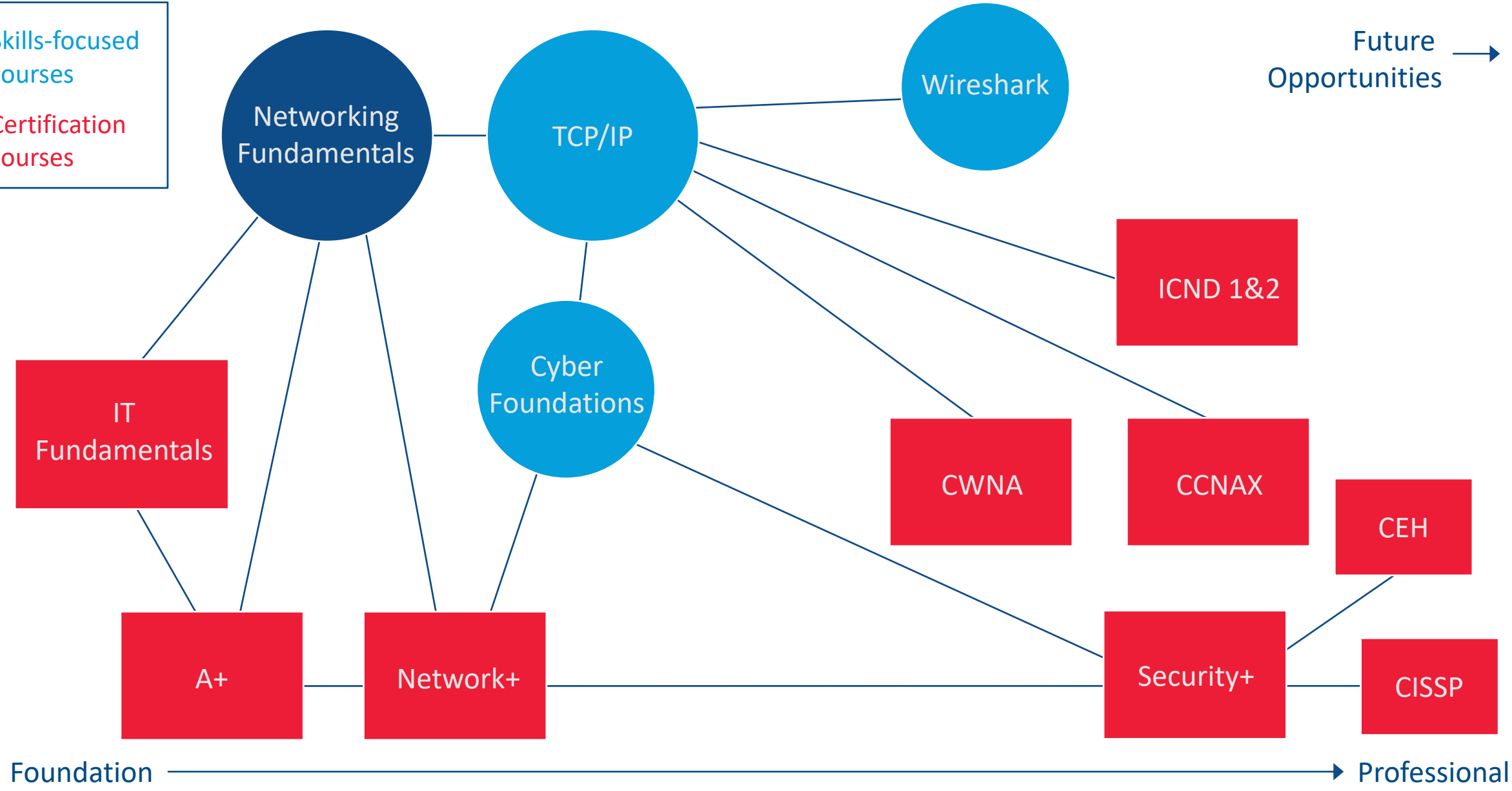
Cybersecurity training

- IT training is an important part of IT budget/career plans.
- Delivery of education is changing.
- What kind of education will be asked for when hiring in the future?
 - College degree
 - Certifications
 - Hands on
- Consider training in other fields:
 - Linux/UNIX
 - Virtualization
 - IPv6
 - Networking
 - Vendor



● Skills-focused courses
■ Certification courses

Future Opportunities →



Planning Your Journey

Global Knowledge Cyber Security courses track

Networking Fundamentals course 3150

TCP/IP course 9025

Troubleshooting TCP/IP Networks with Wireshark course 9879

Cybersecurity Foundations course 9701

*CompTIA IT Fundamentals course 100419

*CompTIA A+ course 100287

*CompTIA Net+ course 3291

*CompTIA Sec+ course 3404 (Popular Cybersecurity starting certification)

*CompTIA CASP course 2951 (CompTIA's highest level Cybersecurity certification)

*Interconnecting Cisco Network Devices 1 course 4548

*Interconnecting Cisco Network Devices 2 course 4549

*Cisco CCNA Routing and Switching bootcamp course 4574

*Enterprise Wireless Administration aka CWNA course 3602

*EC-Council Certified Network Defender course 4935

*EC-Council Certified Ethical Hacker course 3617

*Certified Information Security Manager course 9817

*Certified Information Systems Security Professional course 9803

Questions



Courses

Cybersecurity Foundations

Security+ Certification
Prep Course

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