

SECURITY AND THE PEOPLE RISK

IMPROVING YOUR SECURITY POSTURE

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You can do more, than your budget allows

- At the MTUG Conference
 - Many no cost and low-cost items
 - Mostly small to medium larger organizations
- Today
 - People implications
 - The gaps and the options
 - What is on the horizon?



Problem Statement 1 of 2

- Information Security or Assurance, & Cybersecurity
 - Have ingenious people
 - Programs
 - Logic
 - Well-funded
 - Technical resources
 - With a lot of time
 - They are driven

Problem Statement 2 of 2

- People
 - Would like to achieve more
 - Have too little time
 - Prefer habits to change
 - Prefer to do something useful or nothing
 - Do not behave like machines or programs
 - Prefer trust
 - Are social
 - Driven by nature including emotions

Solution 1 of 2

- Technology
 - A temporary & Partial fix for many things
 - Later
 - Does not evolve ahead of threats
 - Does not integrate well with the Organization

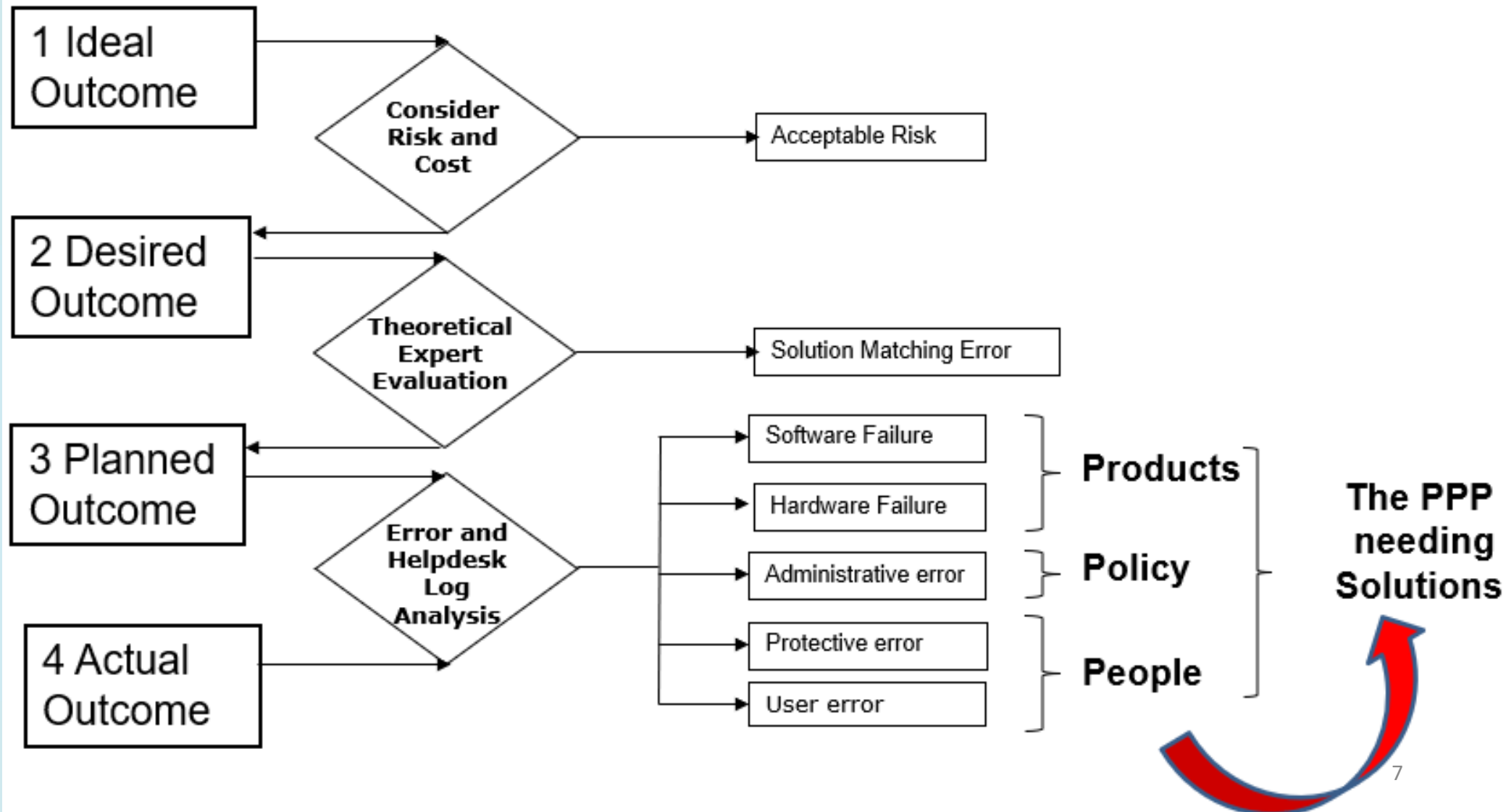
Solution 2 of 2

- People
 - Can Create
 - Aid emergence
 - Share
 - Care
 - Are social

A Model

1. Products
2. Policy & Process
3. People

Security: From concept, to practice, to Solutions



Improving Human Cybersecurity

- Use Technology
- Add human factors
- Maintain and update
- Be creative and predict the future
- Ask:

What are the new risks with every change



The HumanOS

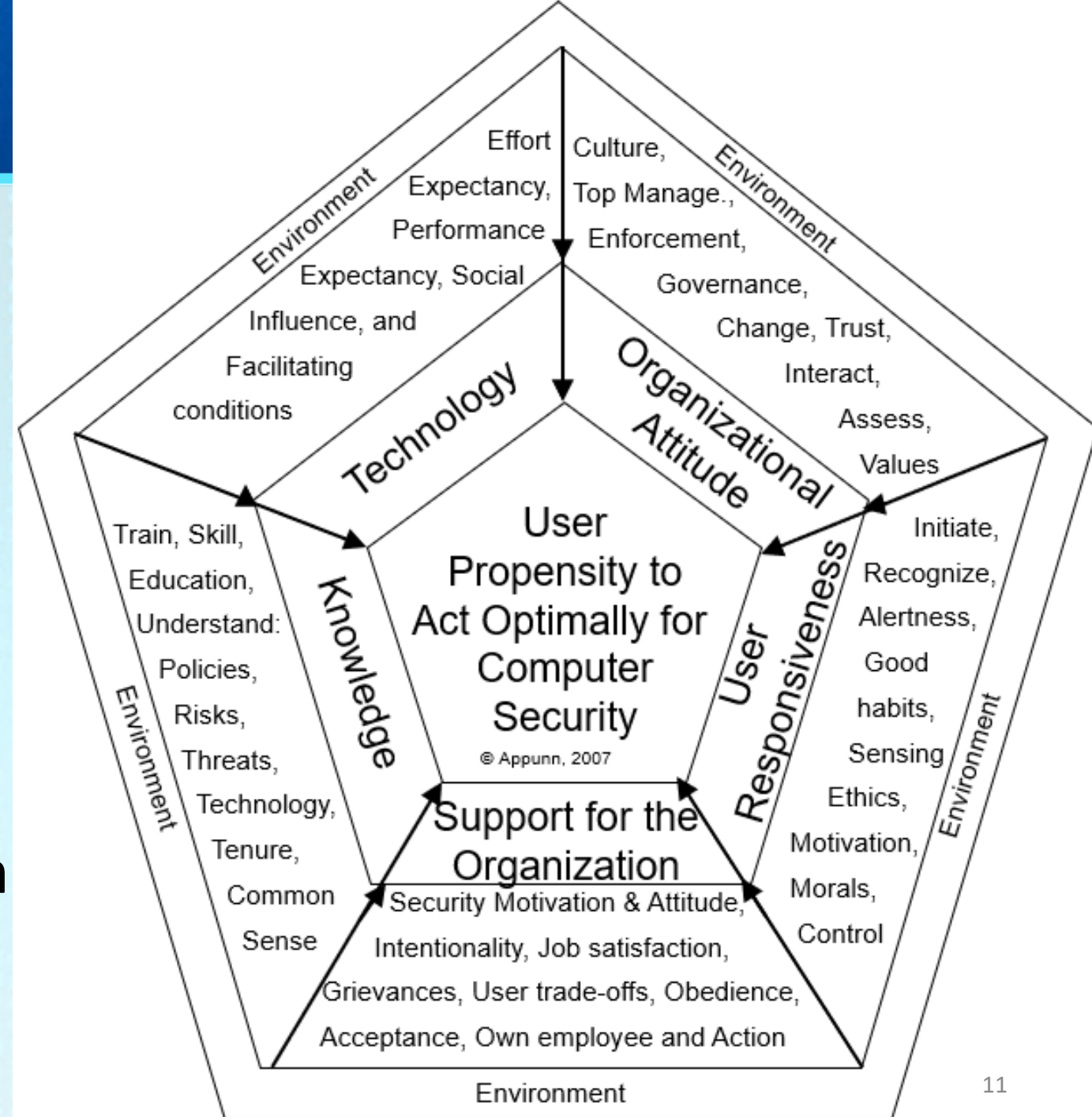
- What is a good password?
 - Difficult to guess
 - Easy to remember
 - Not connected to the identity
 - Long passwords, using words that cannot be associated with the person, and potentially more.
 - What can we learn from China?

What do people not do?

- Things that:
 - ...they do not understand
 - ...they do not believe
 - ...have no purpose
 - ...take too long
 - ...others do not do
 - ...serve no important purpose
 - ...do not serve a personal interest
 - ...the organization does not bother to do well

HumansOS Research

- It is all in the Mind
1. Technology
 2. Knowledge
 3. Organizational Attitude
 4. User Responsiveness
 5. Support for the Organization

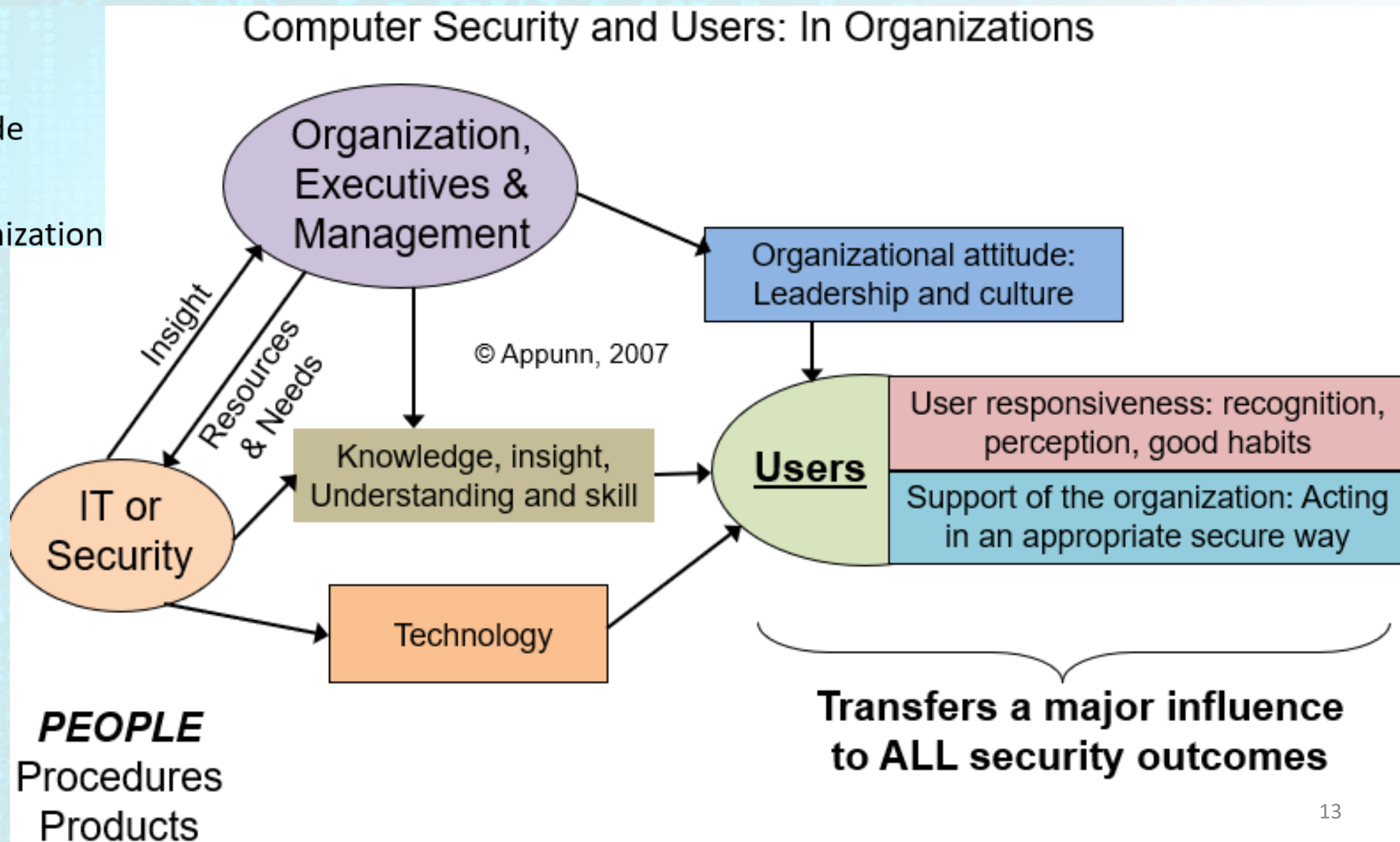


What does the safer HumanOS protect

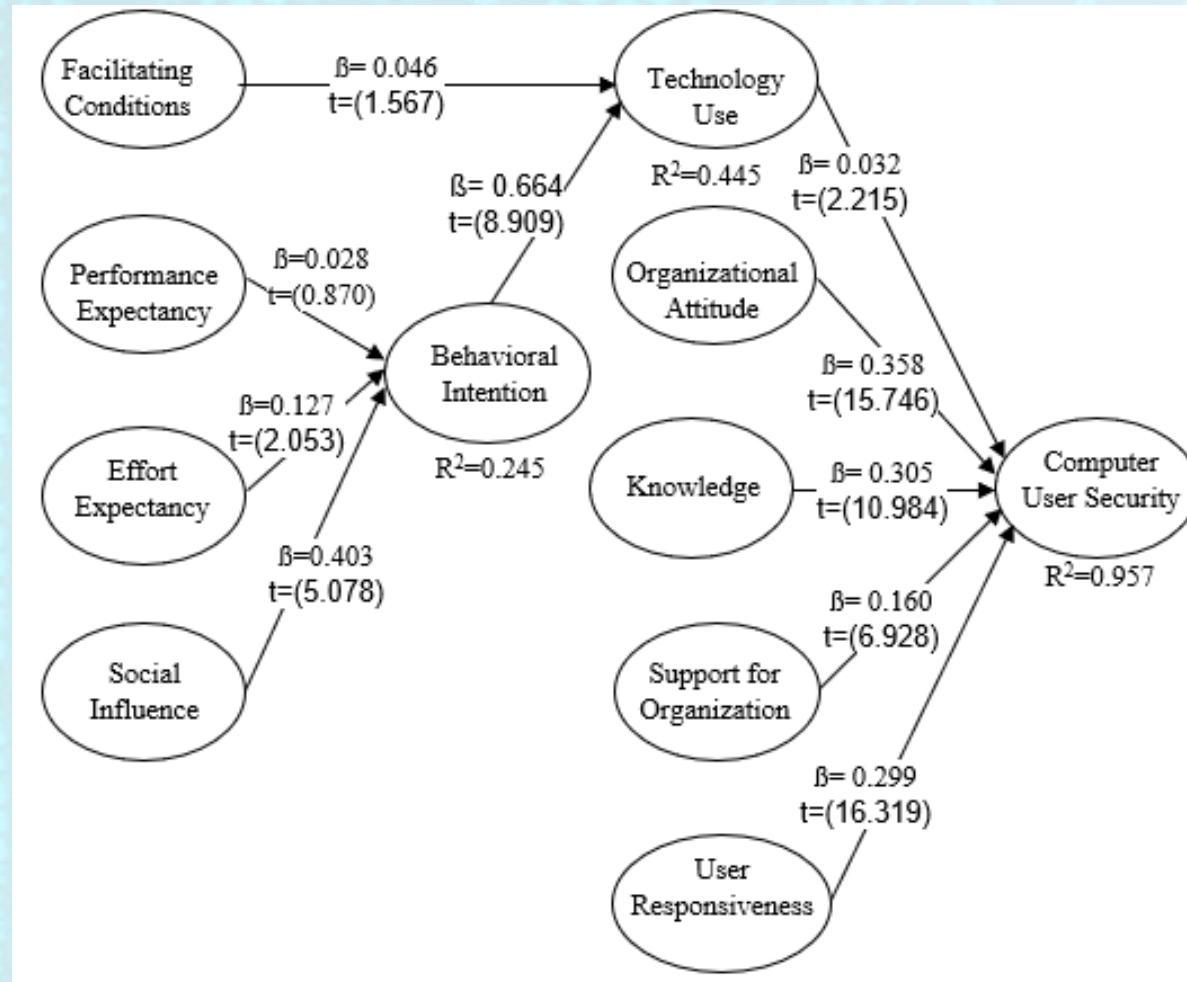
- Internal threat
- Espionage
- Ransomware
- Email compromise
- Clicking and opening
- Being polite
- No suspicion
- Trust, especially when coupled with authority
- Oversharing (Too Much Information Published)

A Logical Explanation

1. Technology
2. Knowledge
3. Organizational Attitude
4. User Responsiveness
5. Support for the Organization



One Can Measure People



- Therefore, one can manage people and know what to improve

Logistics of Security & Assurance

Document	Who?	Audience	Nature	Updates
Policy	Chairman	Users	Rules	24 months
Standard	CSO / CIO	Various	Outcomes	12 months
Procedure	Security	Technical	Processes	6 months
Guideline	Security	Technical	Recommendations	3 months

People
PROCEDURES
Products

What can we do?

- Products (Technology) – that supports people
- Processes and Policy
 - Security Policy that is specific, tailored, and current (1 year & better)
 - Acceptable Use Policy (Verify every 3 months – HR and IT meeting)
 - Standards published and indexed in IT
 - Departmental updates for decentralized data ownership
 - Business Impact Analysis, Business Continuity, Disaster Recovery
 - Unification of Physical and Cybersecurity - ESRM

What can we do – People – the Top 12?

1. Technology

- 1- Invest to support people
- 2 - Recognize Technology acceptance models and enable support
- 3 - “Market” technology protection

2. Knowledge

- 4 - Share knowledge, not only threats
- 5 - Move from Should to create Want

3. Organizational Attitude

- 6 - Executive support for a Security Culture
- 7 - Management support for a security culture

What can we do – People – the Top 12?

4. User Responsiveness

- 8 – Prioritize and recognize support by people

- 9 – Improve sensing – data collection (help desk, events, hear something say something)

5. Support for the Organization

- 10 – Motivation, satisfaction acceptance

- 11 – Grievances, rejection, user trade-offs, obedience, actions

12 - Measure

Measure Departments

- Be careful of “gotcha” approaches
- Measure to remedy weak areas
 - It is **VERY harmful** to treat areas that have no problem

The Future?

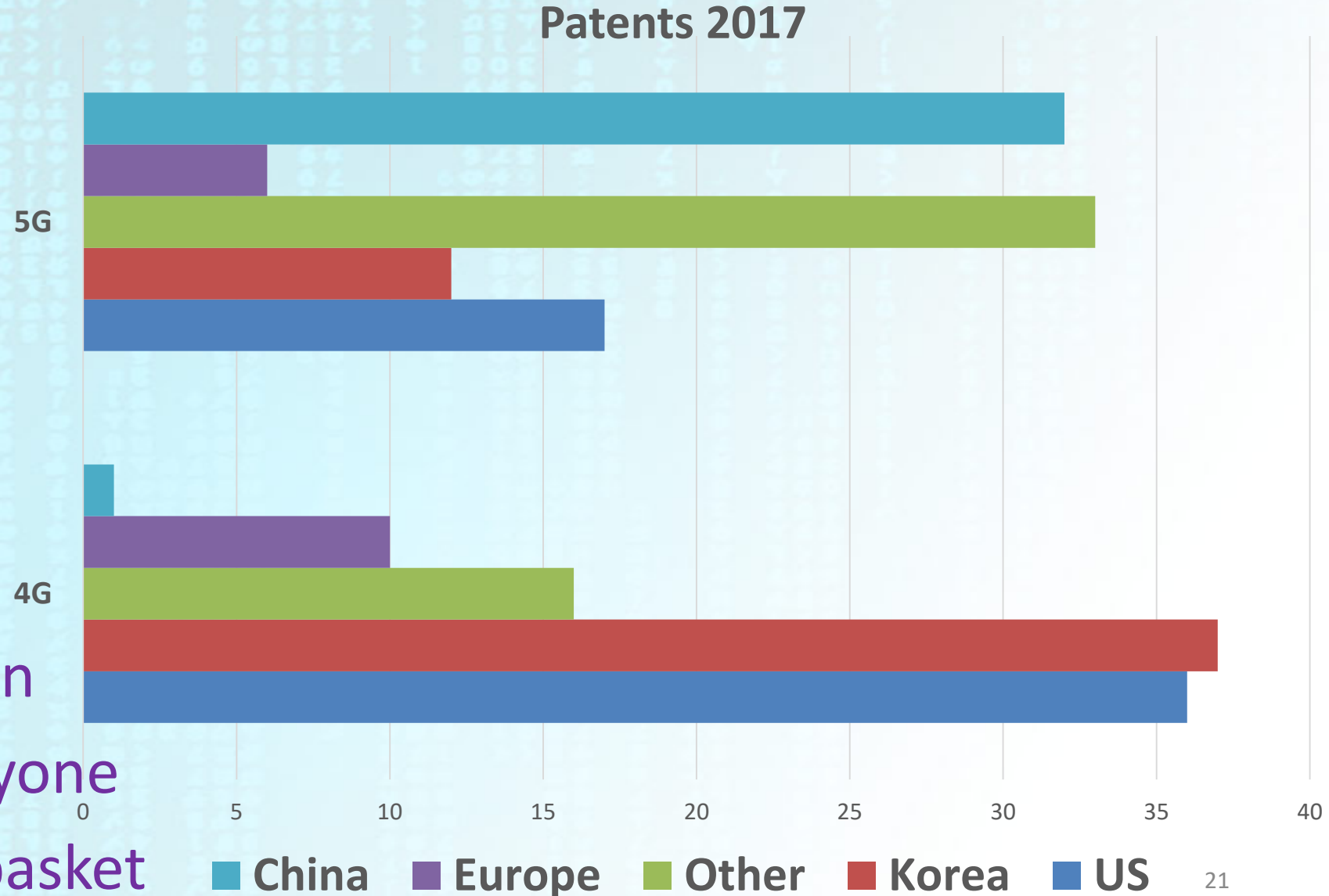
- 5 G! Watch a 2-hour movie in 5 seconds?
 - Why do you want or need 5G?
- By 2025:
 - Your body, your health, your interaction, healthcare,
 - Utilities (water, sewer, electricity, internet)
 - Buildings, parking, security, surveillance ...
 - Mobility, roads, danger, maps, enforcement, defence (insurance)
 - Autonomous mobility (it is more than a car)
 - Domestic Robotics (domotics)
 - Environment, weather, sustainability
 - Things will be made to “please” you ... until ...

Total Capitulation?

5G Deployment and Patents

- 2019 3 M
- 2020 29 M
- 2021 203 M
- 2022 545 M
- US a distant second

- When everything is in one basket, everyone attacks the one basket



- 12 things that can help your organization
- We can predict the future, we can prepare

• Q&A

- Thank you



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- <https://www.thomas.edu/2016/10/06/thomas-college-launches-security-center/>

Sources for Assistance



THOMAS