



So you think you can *trust*....

Presenter:

Moira de Roche – IP3 Chair



Me?

I'll talk about


- ☐ The world today
- ☐ Why is trust an issue?
- ☐ What do we need?
- ☐ A recipe for success



Doomsday



The world today

- ❑ Almost total reliance on technology
 - ❑ Disaster relief
 - ❑ Suppliers & users
 - ❑ Geographically dispersed
 - ❑ Who are we dealing with?
 - ❑ Are they even humans?
 - ❑ Apps – do we question their integrity
- 



Vulnerabilities & attacks

- ❑ Unforeseen circumstances
- ❑ Compound exponentially
- ❑ Malicious software in Internet of Things



Why is trust an issue?

- ☐ Confidence – limit or enable economic growth
- ☐ Improve trust:
 - ☐ In technology
 - ☐ Amongst humans
- ☐ Trust a multi-disciplinary concept
 - ☐ Security
 - ☐ Safety
 - ☐ Reliability
 - ☐ Usability



Challenges

- ☐ Erosion of trust with each attack or malfunction
- ☐ Consumers can't evaluate security of service providers
- ☐ Is security built in at every level?
 - ☐ Creation
 - ☐ Maintenance
 - ☐ Use
- ☐ Digital literacy
 - ☐ Essential in **21st** Century
 - ☐ Includes Privacy and Security

Examples

- ❑ Credit card details on e-commerce sites

- ❑ Equifax

- ❑ US website vulnerability

- ❑ Apache – known bug fixed three months late

- ❑ Wannacry ransomware

- ❑ From government hacker toolkit

- ❑ More than 300,000 people affected

- ❑ NHS UK – Old software

- ❑ Your phone tracks
your every move



What do we need?



- ☐ Assurance of skills and knowledge of service providers
 - ☐ Certified ICT Professionals
- ☐ Governments
 - ☐ Agree a set of binding norms for nation states
 - ☐ Legislate for data breach reporting to assist consumers
- ☐ Develop a reference model for personal data protection guidelines
- ☐ Understand contribution of ICT to economy

We also need

- ☐ Governments as defensive/offensive instruments in cyber attacks
- ☐ Industry collectives working in the public interest
- ☐ Cooperating international organisations
 - ☐ Regulations
 - ☐ Standards
 - ☐ Professional certification
 - ☐ Cross-border issues



Duty of Care

iDOCED - ifip Duty of Care in Everything Digital

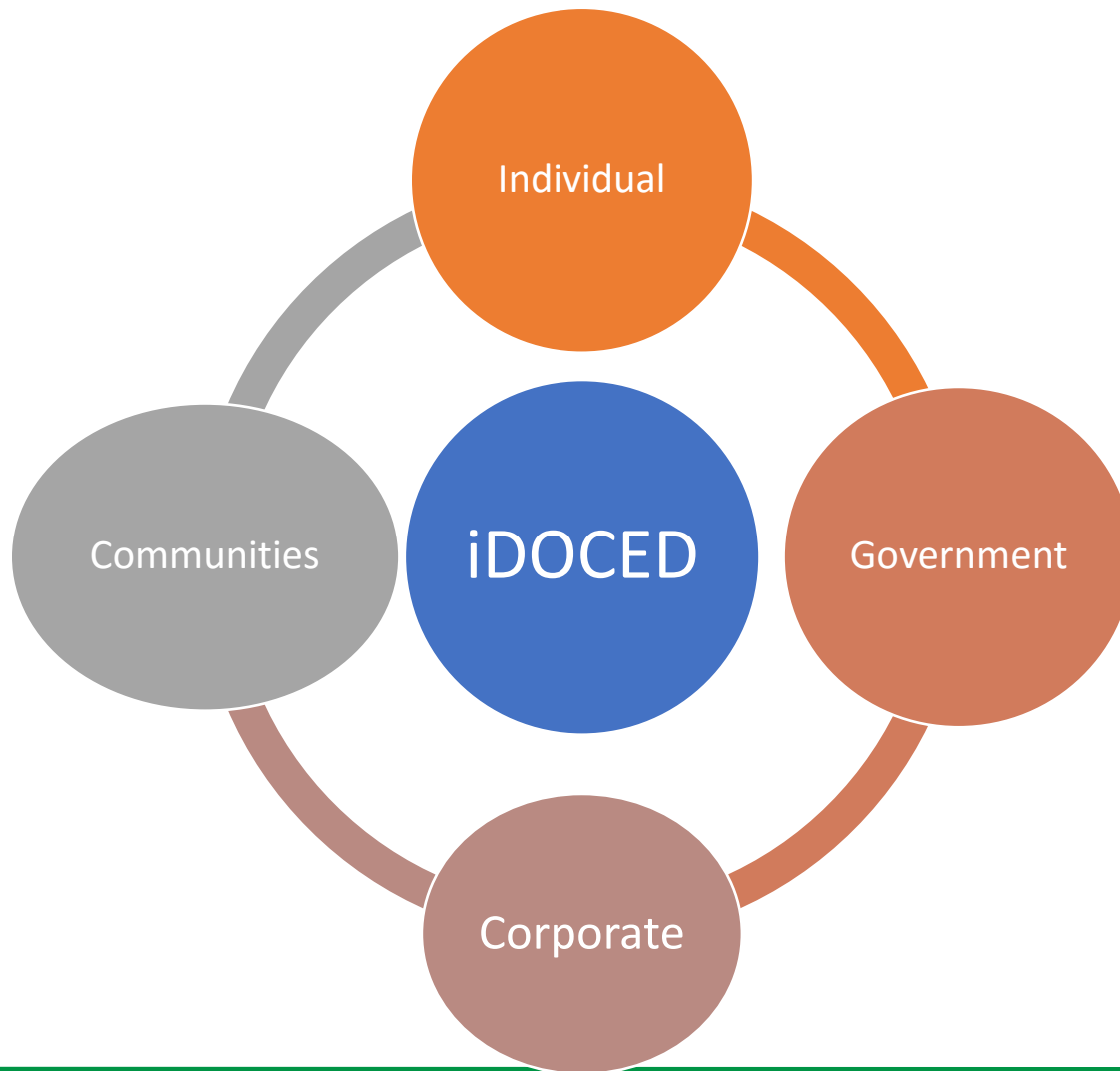
- ☐ Digital World
- ☐ Cost not most important factor
 - ☐ Reliability
 - ☐ Accountability
 - ☐ Ethics
- ☐ Legal liability
- ☐ Digital Skills
 - ☐ Privacy & security

iDOCED is designed to remind and support both providers and consumers of digital products and services that they have a duty of care in ensuring that they act responsibly in relation to the digital world, the organization states.

A Professional



Duty of Care



Individuals

- ☐ Be aware
- ☐ Ask questions about the tools you use
- ☐ Inform yourself
- ☐ Make demands on your legislators
- ☐ Demand properly qualified and credentialed providers
- ☐ Passwords
- ☐ Protect yourself

Consumers

- ☐ Check qualifications of providers
- ☐ Trust
 - ☐ Competence
 - ☐ Ethics
- ☐ *Duty of Care*



Government

Customers and regulators

- ☐ Work with international organisations
 - ☐ Regulation
 - ☐ Standards
 - ☐ Professional standards and accreditation mandatory
 - ☐ Develop partnership agreements with other countries
- ☐ Legislate reporting of cyber attacks
- ☐ Trusted threat intelligence sharing
 - ☐ State sponsored attacks
- ☐ *Duty of Care*

Community & Corporate

Develop information security awareness

- ☐ Establish collaborative models
- ☐ Submit actions to scrutiny
- ☐ Educate consumers
 - ☐ Give them more power
- ☐ Support and recommend trustworthy companies
- ☐ *Duty of care*
- ☐ Governance issue
- ☐ Address staff shortages

IFIP IP3

Recipe for increasing confidence

Ingredients

- Competence
- Ethics
- Continuous professional development
- *Cyber-Security specialism*

Method

1. Exercise proper judgement
2. Choose your provider
3. Ensure privacy & security
4. Value professionalism
5. Demand action from leaders

*“Ensuring cyber security and cyber resilience is also a **duty of care** of the individual **ICT professional**, in all stages of a system life cycle (design, development and operation). This means that most, if not all, types of **ICT functions and jobs must contribute to cyber security and cyber resilience.**” Leon Strous, Immediate Past President, IFIP*



Martha Beck

Denial exists because
human infants, though
equipped with
trust-o-meters, are built to
trust, blindly and
absolutely, any older
person who wanders past.

– *Martha Beck*

Double Quotes
doublequotes.net