Building trust in digital government



Digital transformation training programme Module #4



house rules before

we start

- Make sure your name is displayed
- Keep your video on unless you have connectivity issues
- Mute if you're not speaking
- Don't hesitate to ask questions by raising your hand or using the chat

Where we are

- 1. Introduction to digital government
- 2. Human-centred design for digital services
 - 3. Agile and open ways of working
 - 4. Building trust in digital government

- 5. Data: uses, opportunities and risks
- 6. Making the right tech choices
- 7. Hacking common barriers to digital government

Learning objectives



Understand the common barriers and enablers to trust in digital government



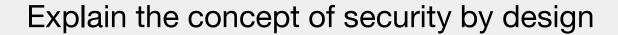
Differentiate types of data and their protection requirements



Understand the importance of privacy and global legal frameworks around it



Apply basic cyber hygiene principles



- 1. Barriers and enablers to trust
- 2. Categorisation of data
- 3. Data protection
 - a. Data privacy
 - b. Cyber security

1. Barriers and enablers to trust

- 2. Categorisation of data
- 3. Data protection
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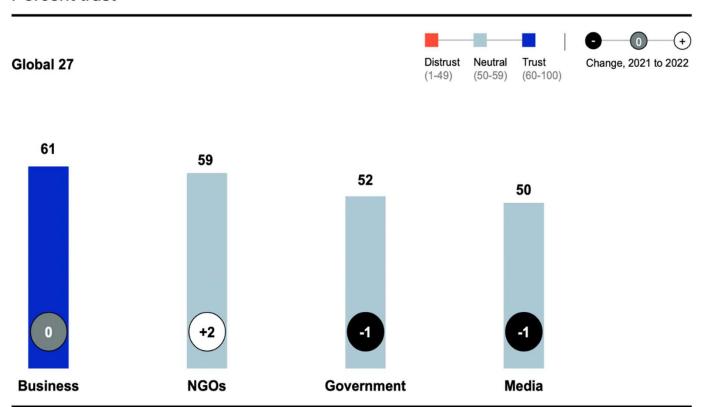
Why is trust in digital government important?

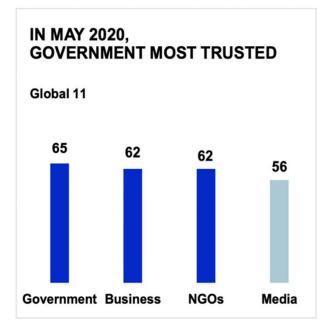
Given a situation of uncertainty regarding the conduct of a government, trust is the belief that this conduct will conform with a certain set of positive expectations

UNDP Policy brief - Trust in public institutions

TRUST DECLINES FOR GOVERNMENT AND MEDIA; BUSINESS STILL ONLY TRUSTED INSTITUTION

Percent trust





Trust in digital systems was put to the test during the pandemic.

Taking rushed decisions on the use of digital may work in the short term but negatively impact human rights in the long term.



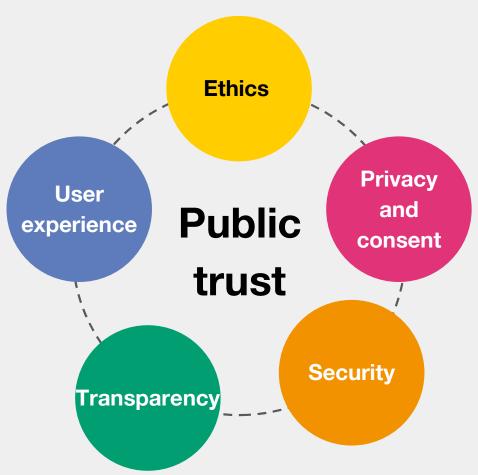
Barriers to trust in digital government

- Lack of digital awareness
- Bad experience of government, and especially of online services
- Fear of data breaches and cyber attacks
- Poor perception of government, and fear of governmental data abuse

Digital government can help build trust through:

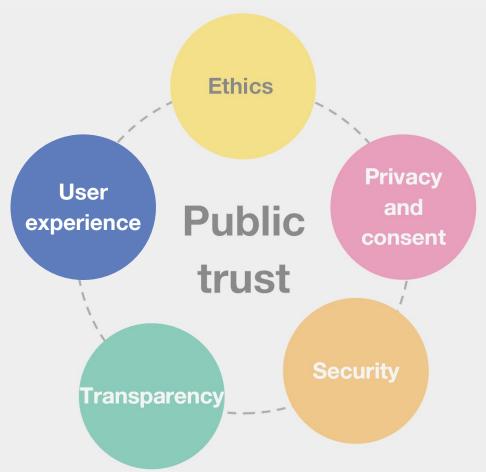
- Increased transparency and accountability
- Responsive, effective and inclusive service delivery
- Enhanced citizen participation

Trustworthy use of data and technology





Trustworthy use of data and technology



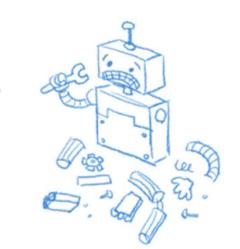




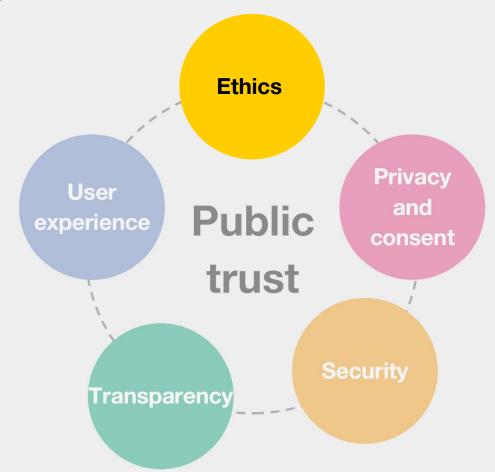


404. That's an error.

The requested URL /doesntexist was not found on this server. That's all we know.

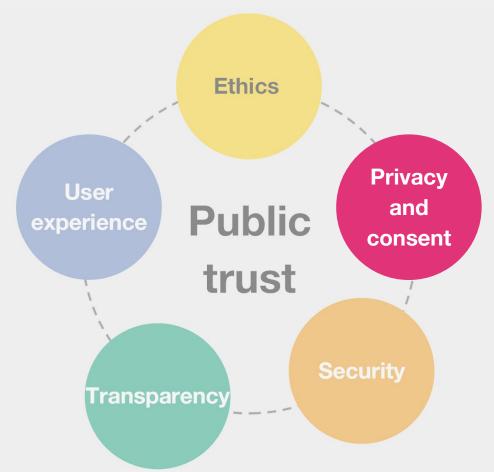


Trustworthy use of data and technology





Trustworthy use of data and technology





Data privacy is the right to have control over who can control your data, and for what purpose.







Audrey Tang, Digital Minister, Taiwan

Women in GovTech Special Report 2021.

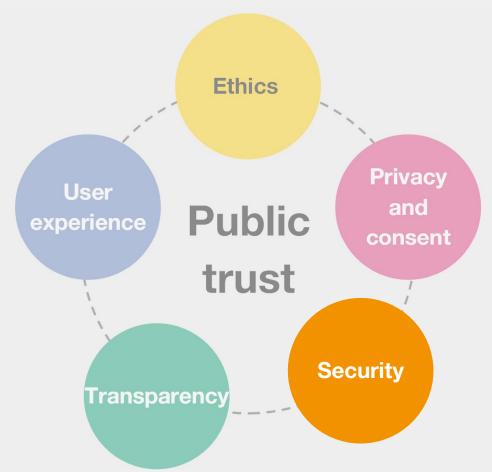
By Yun Xuan Poon

19 JAN 2022

DIGITAL GOV



Trustworthy use of data and technology





Data security refers to the measures taken to prevent unauthorised access or use of data.

Example

Personal info of 1.5m SingHealth patients, including PM Lee, stolen in Singapore's worst cyber attack



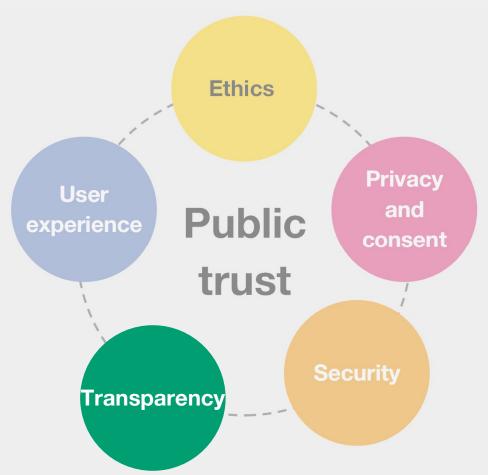
Axa division in Asia hit by ransomware cyber attack



Stages in a cyber attack

Survey	Delivery	Breach	Affect
Investigating and analysing available information in order to identify potential vulnerabilities	Getting to the point in a system where you have an initial foothold in the system	Exploit vulnerability and gain unauthorised access	Carrying out activities within a system that achieve the attacker's goal

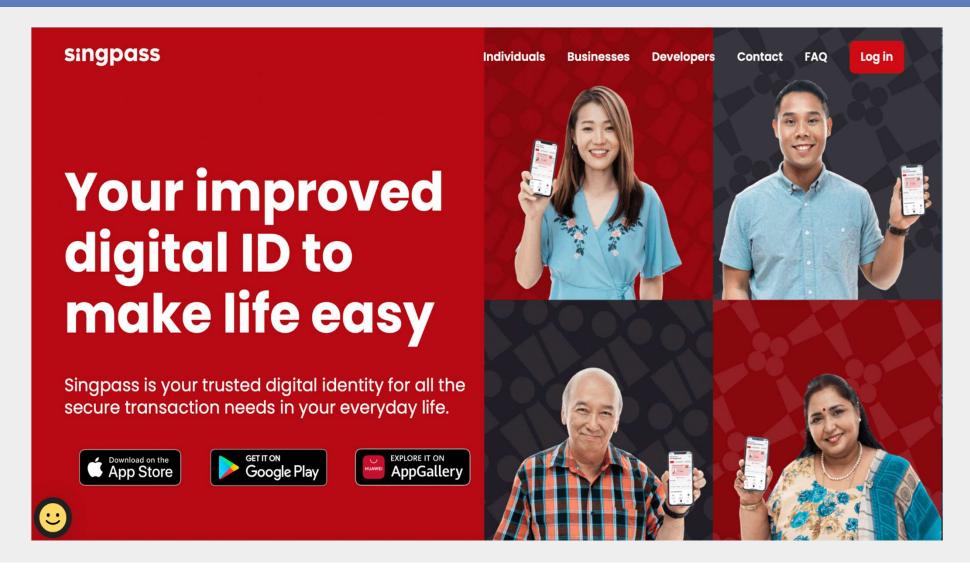
Trustworthy use of data and technology





What people need to know

- For what purpose their data is being used
- How their data is being used
- Who uses their data, and is responsible for it
- If their data was breached



Preparedness and incident response are as important as preventive cyber security measures.



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Opinion

Businessweek

Equality

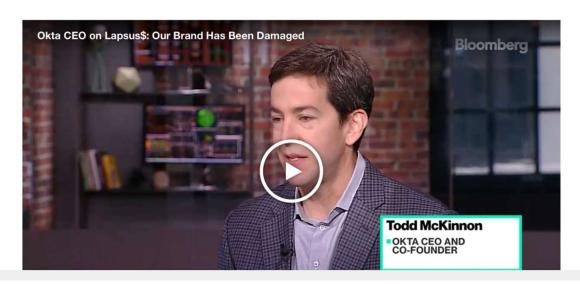
Green

CityLab

TechnologyCybersecurity

Okta CEO Says Lapsus\$ Hack is 'Big Deal,' Aims to Restore Trust

- Number of victims affected remains under investigation
- Company is preparing report for customers amid scrutiny





- 1. What are the risks associated with the increased use of data in the public sector?
- 2. What do you think are the barriers to trust?

1. Barriers and enablers to trust

2. Categorisation of data

3. Data protection

a. Data privacy

b. Cyber security



Why categorise data?

- Understand the different types of data
- Understand what is being done with which data
- Understand how to protect which data

Data exists on a spectrum from closed to open.

The Data Spectrum Small / Medium / Big data Personal / Commercial / Government data Internal access Employment contract + policies Sales reports

Shared

Open

theodi.org/data-spectrum

Closed

@ 00

Small / Medium / Big data

Personal / Commercial / Government data

Internal access
access

Employment contract + policies Explicitly assigned by contract

Sales reports Driving licences

Closed

Shared



Small / Medium / Big data

Personal / Commercial / Government data

Closed

Shared

Open



theodi.org/data-spectrum

Small / Medium / Big data

Personal / Commercial / Government data

Group-based Internal Named **Public** access access access access Employment contract + policies **Explicitly assigned** Via authentication Licence that by contract limits use Sales reports **Driving licences** Medical research Twitter feed

Closed

Shared



Small / Medium / Big data

Personal / Commercial / Government data

Group-based Internal Named **Public** Anyone access access access access Employment contract + policies Via authentication **Explicitly assigned** Licence that Open licence by contract limits use Sales reports **Driving licences** Medical research Twitter feed Bus timetable

Closed

Shared





- Locate your organisation's data on the ODI data spectrum.
- 2. What is your own assessment of how your organisation is protecting these different categories of data?

Small / Medium / Big data

Personal / Commercial / Government data

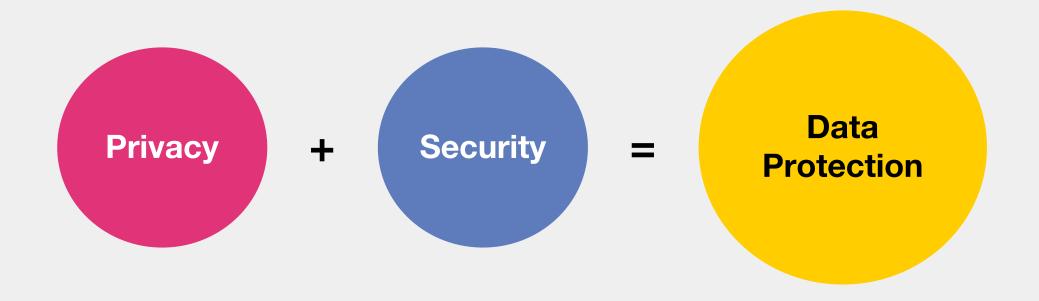
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Closed

Shared



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'No one shall be subjected to arbitrary interference with his privacy, family, home or correspondence, nor to attacks upon his honour and reputation. Everyone has the right to the protection of the law against such interference or attacks.'

Article 12 of the 1948 Universal Declaration of Human Rights



Example





Data subjects are the people whose data is being processed.

Data controllers determine the purposes and means for processing personal data.



The General Data Protection Regulation (GDPR) has strengthened conditions for **consent**.

Access

- Access
- Rectification

- Access
- Rectification
- Be forgotten

- Access
- Rectification
- Be forgotten
- Restrict processing

- Access
- Rectification
- Be forgotten
- Restrict processing
- Data portability

Biggest GDPR fines

€ 746

million

€ 225 million

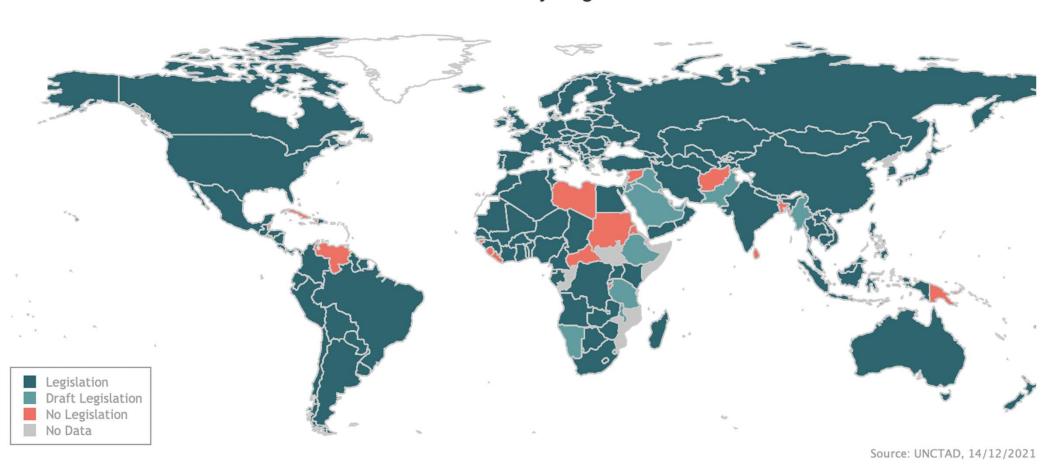
a



€ 90 million



Data Protection and Privacy Legislation Worldwide



71% of countries have legislation 13% no legislation

9% draft legislation 5% no data



- 1. How would you assess your current services in terms of individual privacy rights that we discussed: right to access, right to rectification, right to be forgotten, right to restrict processing and data portability
- 2. What could be done better?

- 1. Barriers and enablers to trust
- 2. Categorisation of data
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What comes to your mind when asked how you would **secure** a digital service?

85% of data breaches are caused by **human error**.

Confidentiality Integrity Availability



Example



ABOUT EUROPOL OPERATIONS, SERVICES & INNOVATION

CRIME AREAS & STATISTICS

PARTNERS & COLLABORATION

CAREERS & PROCUREMENT

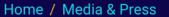
MEDIA & PRESS

PUBLICATIONS & EVENTS







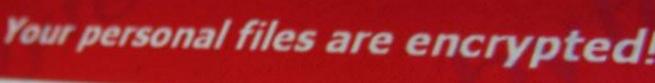




NEWS

World's most dangerous malware EMOTET disrupted through global action

27 JAN 2021



me moutest his encryption produced on this computer: photos, videos, ments, etc. Here is a complete list of encrypted files, and you can personally to

Ransomware 2048 generated for this The angle of the private key, which will allow you to decrypt the files, located and the Internet; the server will destroy the key after a time seemed in the window. After that, nobody and never will be able to restore files...

to datan the private key for this computer, which will automatically decrypt files, you 300 USD / 300 EUR / similar amount in another currency.

as went to select the method of payment and the current by attempt to remove or damage

batten of the private t

Example



Global financial and economic losses from the "WannaCry" attack that crippled computers in at least 150 countries could swell into the billions of dollars, making it one of the most damaging incidents involving so-called ransomware.



Example



Dear eBay Member,

We regret to inform you that your eBay account could be suspended if you don't re-update your account information.

To resolve this problem please visit link below and re-enter your account information:

https://signin.ebay.com/ws/eBaylSAPI.dll?SignIn&sid=verify&co_partnerId=2&siteid=0

If your problems could not be resolved your account will be suspended for a period of 24 hours, after this period your account will be terminated.

For the User Agreement, Section 9, we may immediately issue a warning, temporarily suspend, indefinitely suspend or terminate your membership and refuse to provide our services to you if we believe that your actions may cause financial loss or legal liability for you, our users or us. We may also take these actions if we are unable to verify or authenticate any information you provide to us.

Due to the suspension of this account, please be advised you are prohibited from using eBay in any way. This includes the registering of a new account. Please note that this suspension does not relieve you of your agreed-upon obligation to pay any fees you may owe to eBay.

Regards, Safeharbor Department eBay, Inc The eBay team This is an automatic message, please do not reply

Cyber hygiene tips

- Update software regularly
- If in doubt, do not click or open
- Use strong passwords and multi-factor authentication
- Don't send sensitive information unencrypted by mail
- Protect your devices with antivirus software
- Check the security policy for accessing government information

What can governments do?

Increase cyber security awareness



WHO WE ARE WHAT WE DO

WHERE WE WORK REPORTS AND DATA

NEWS AND INFORMATION

WORK WITH USAID

HOME » NEWS AND INFORMATION » » USAID LAUNCHES CYBERSECURITY AWARENESS CAMPAIGN IN MONGOLIA

REGIONAL **DEVELOPMENT MISSION FOR ASIA**

HISTORY

OUR WORK

Economic Growth and Trade

Environment

Sustainable Mekong

Global Health

Peace and Security

USAID LAUNCHES CYBERSECURITY AWARENESS CAMPAIGN IN MONGOLIA

For Immediate Release

Monday, February 28, 2022

Ulaanbaatar, Mongolia - The United States Agency for International Development (USAID) and DAI formally launch its "My Online Information Is Mine," a cybersecurity awareness raising campaign that aims to raise Mongolian citizens' awareness of cybersecurity threats through creative music. In collaboration with Mongolian pop artists Hishigdalai and Gangbay, the campaign released a rap song with messages about online privacy and cybersecurity embedded in a story about love and trust. Joining today's panel were Steven Wintakes, Deputy Development Advisor, USAID Mongolia, B. Dulguun, Hishigdalai's manager, and Sh. Erkhembayar, Gangbay's manager.



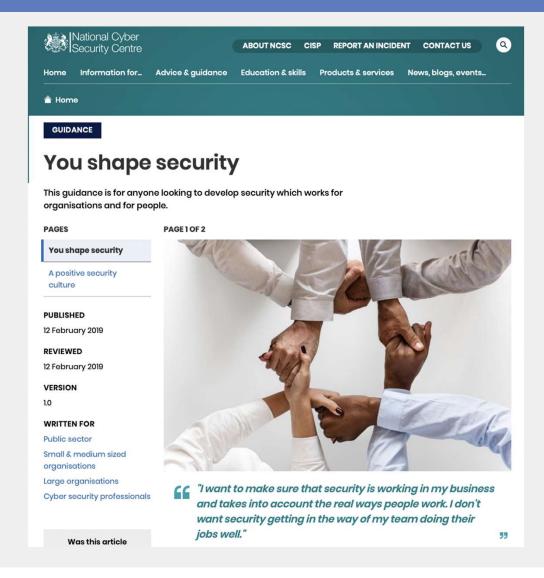
USAID Launches Cybersecurity Awareness Campaign in Mongolia

USAID Digital Asia Accelerator

What can governments do?

- Increase cyber security awareness
- Adopt a human-centred approach to cyber security

Example



What can governments do?

- Increase cyber security awareness
- Adopt a human-centred approach to cyber security
- Build incident response capabilities

Example

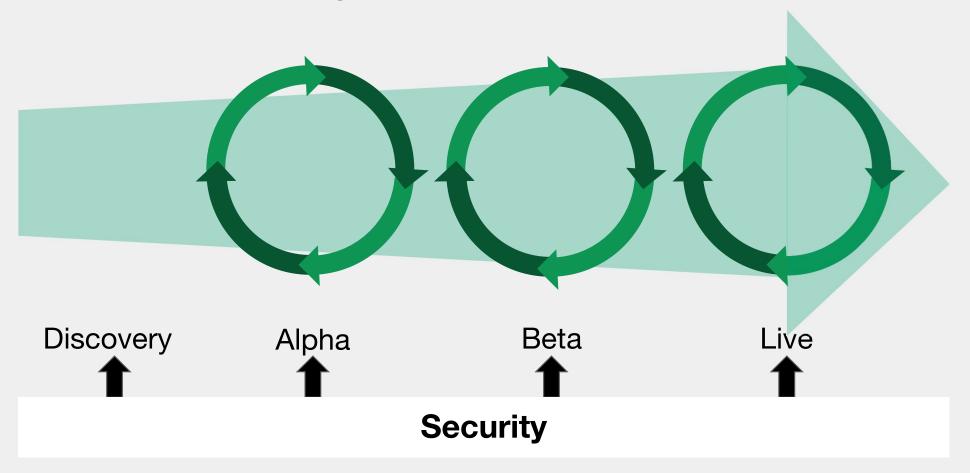


in the Asia Desifie region

Response Teams)'s Strategic Partnership application has

It is difficult to add security in after a digital service is built.

Security by design



What can you do concretely?

- Set up multi-disciplinary digital teams
- Implement service standards
- Involve information security experts in procurement
- Test regularly



- 1. What are the biggest challenges that you foresee in building trust in digital services in your context?
- 2. What are the quick wins and the next steps that you can take to make digital services more secure?

Takeaways

- Digital government can help build people's trust through increased transparency, enhanced citizen participation and responsive, effective and inclusive digital services.
- The dimensions of a trustworthy digital service are user experience, ethics, privacy, security and transparency.
- Data categorisation helps to assess the level of protection required for different types of data.

Takeaways

- Data privacy is a fundamental human right which all digital services should respect and protect.
- Governments have an important role to play in improving cybersecurity by increasing awareness, designing human-centred security policies and building incident response capability.
- Security is not an afterthought and must be included in all stages of the service development lifecycle.

Next module:

Data: uses, opportunities and risks



public digital This presentation has been designed using resources from Flaticon.com and Unsplash.com.