

# Trusted Data Sharing

## Current State of Affairs in Lawmaking



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Founding Member Alliance for IoT Innovation (AIOTT), Chair Policy Working Group, Security in IoT & Privacy in IoT Taskforce Leader

Co-Founder & Director of the Institute for Accountability in the Digital Age

Member of the European AI Alliance & European Cybersecurity Organisation



‘As a European Commissioner, the question I've been probably asked the most in the last few weeks is:

# What is your priority?

Is it 5G? Is it artificial intelligence? Is it industry? Services? Audiovisual? Tourism? Space? Defence?’

Last week, Commissioner Breton (Internal Market (DG GROW), Digital Single Market (DG CNECT) and DG Defense & Aerospace

‘Obviously, all these topics are priorities.

But for me, **their foundation, their common denominator, what runs through all their activities from end to end, is ...**

# Data.

Last week, Commissioner Breton (Internal Market (DG GROW), Digital Single Market (DG CNECT) and DG Defense & Aerospace

‘Dominance is not the Result of Technological Excellence that we are not able to catch up.

It is the result of their:

1. Ability to Access
2. Ability to Exploit,

Last week, Commissioner Breton (Internal Market (DG GROW), Digital Single Market (DG CNECT) and DG Defense & Aerospace

# Start with Common Understanding: Definitions

## Data is not a four letter word

Data	<p>Data of any form, nature or structure, that can be created, uploaded, inserted in, collected or derived from or with cloud services and/or cloud computing, including without limitation proprietary and non-proprietary data, confidential and non-confidential data, non-personal and personal data, as well as other human readable or machine readable data.</p> <p>EC Cloud Service Level Agreement Standardisation Guidelines</p>
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N-Dimensional Approach | Multi-story of connected data types:  
Classified | Confidential | Sensitive | Personal | Non-Personal | Derived |  
Meta | Proprietary | IPR | Open | Encrypted | Anonymized | Et cetera |

**Every kind of data needs to be addressed differently**

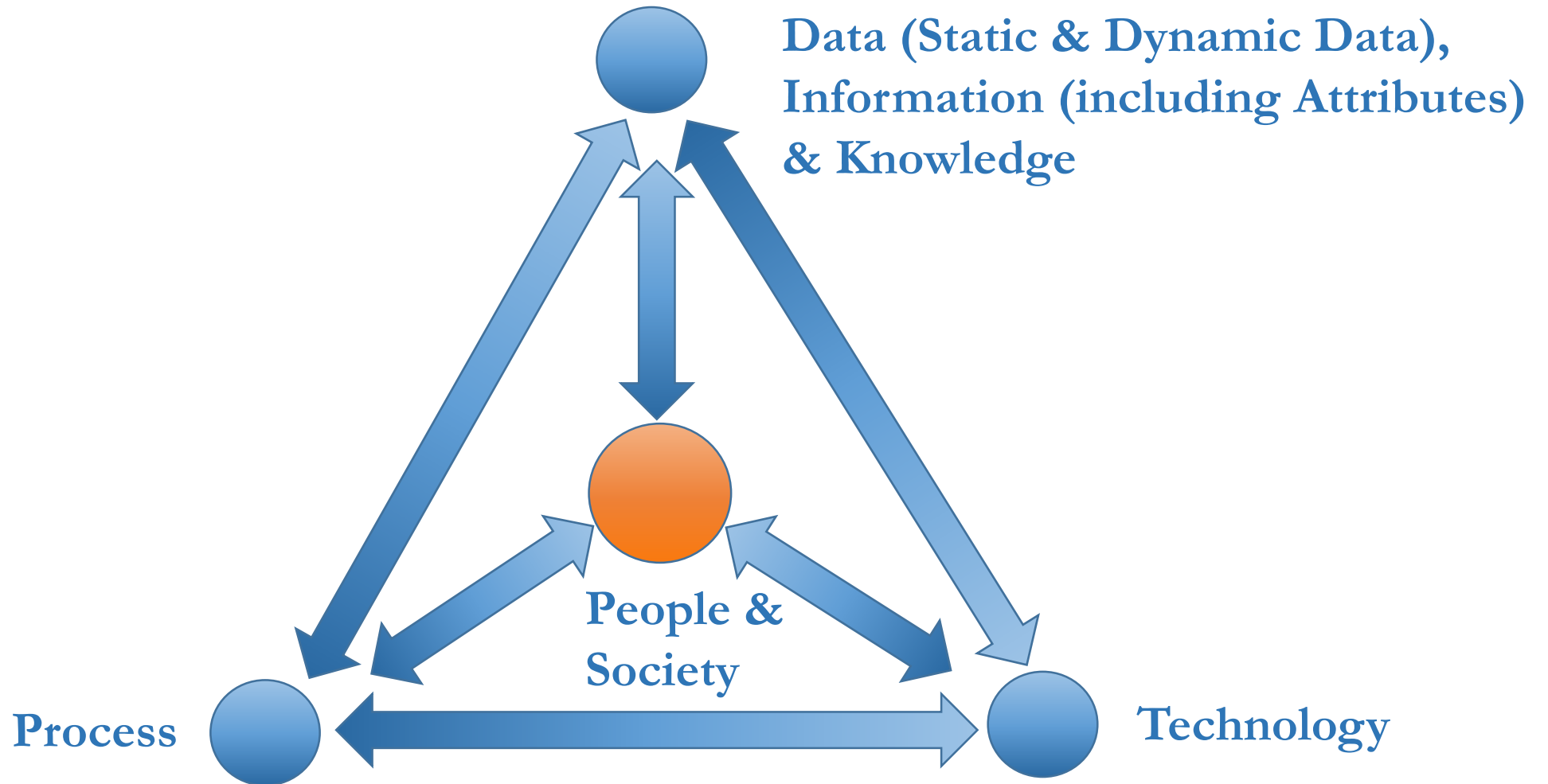
Stand-Alone  
Connectivity  
Inter-Connectivity  
Hyper-Connectivity

# The Dynamics in the Digital Age

The only constant is: Change

# People, Process, Technology & Data

Human-Centric Organisations & Systems





# Data Control Data Access Use & DRM

# Data Control

## Data Access

## Use & DRM

Data Control

**Data Access**

Use & DRM

# This will be Fun

# Facebook has been ordered to disclose records of thousands of apps that may have misused personal data.

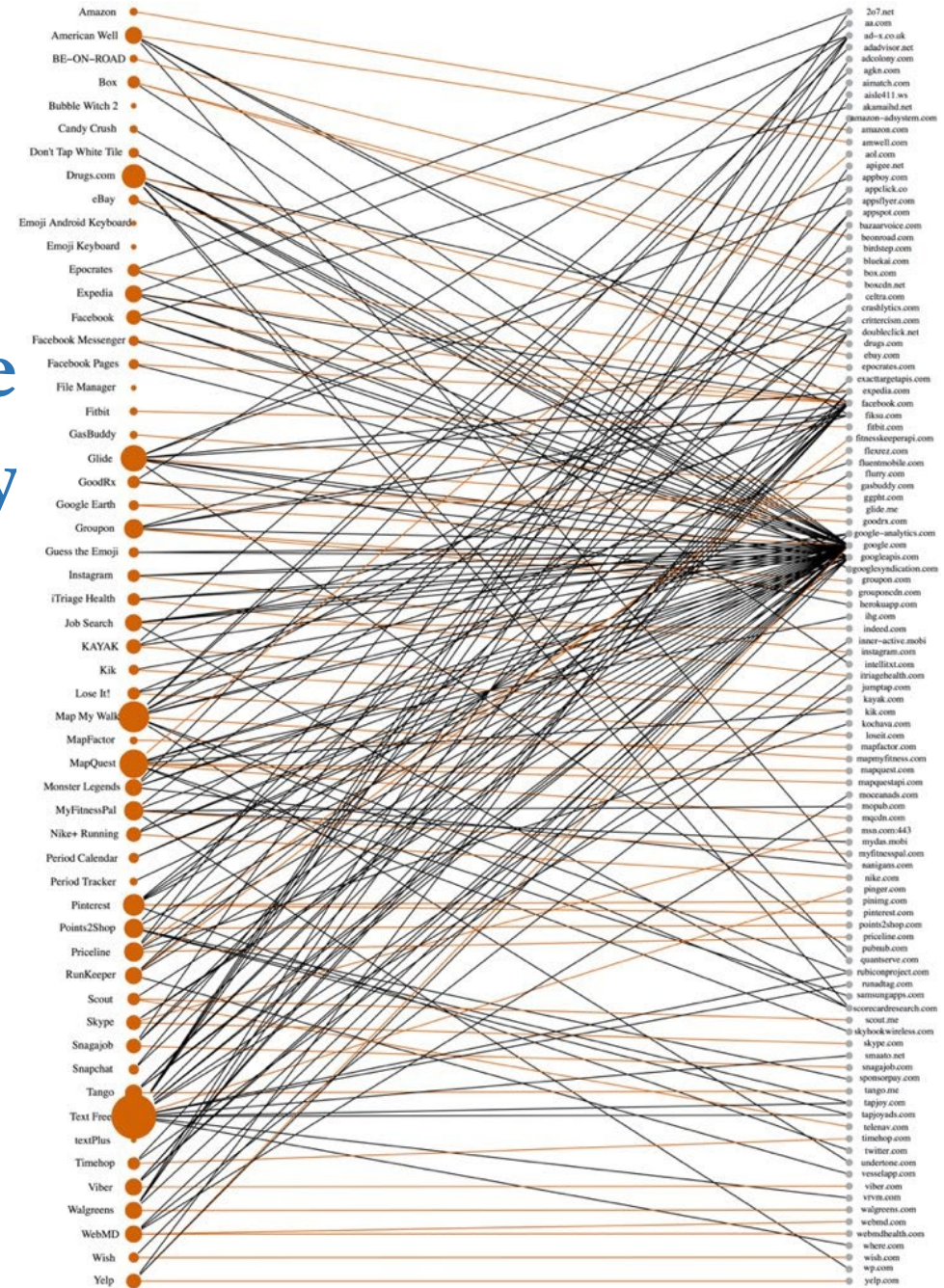
# #CambridgeAnalytica January 2020

# Shadow Cloud + Shadow Edge/IoT + Shadow Apps + (personal) Data

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# Unknown/Unclear Data Sharing a.k.a. MIST



# Data Control Data Access **Use & DRM**

‘Dominance is not the Result of Technological Excellence that we are not able to catch up.

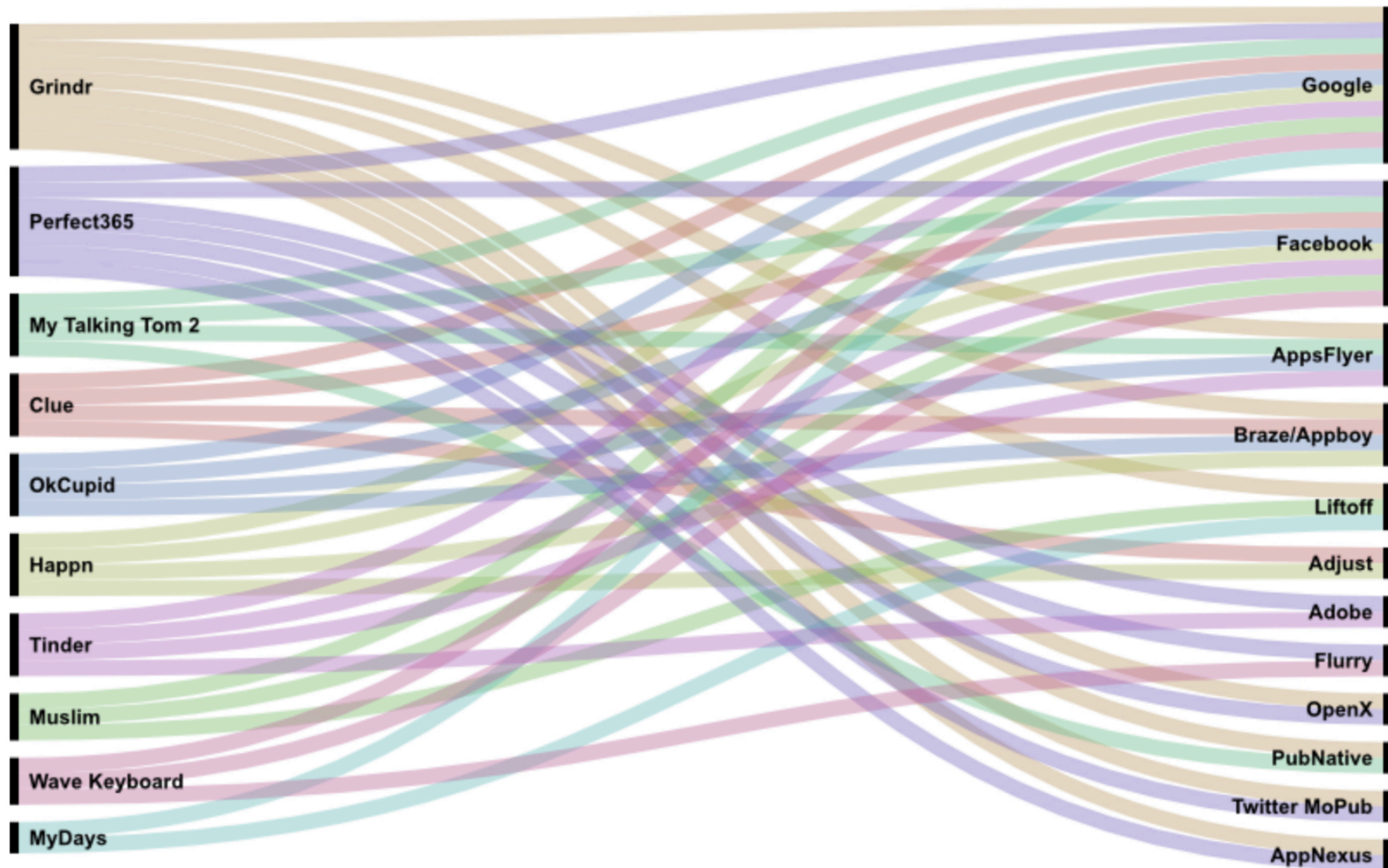
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Human-Centric:

Freedom

Human Values

Innovation

Opportunities

So, also These:

Data Control

Data Access

Use & DRM

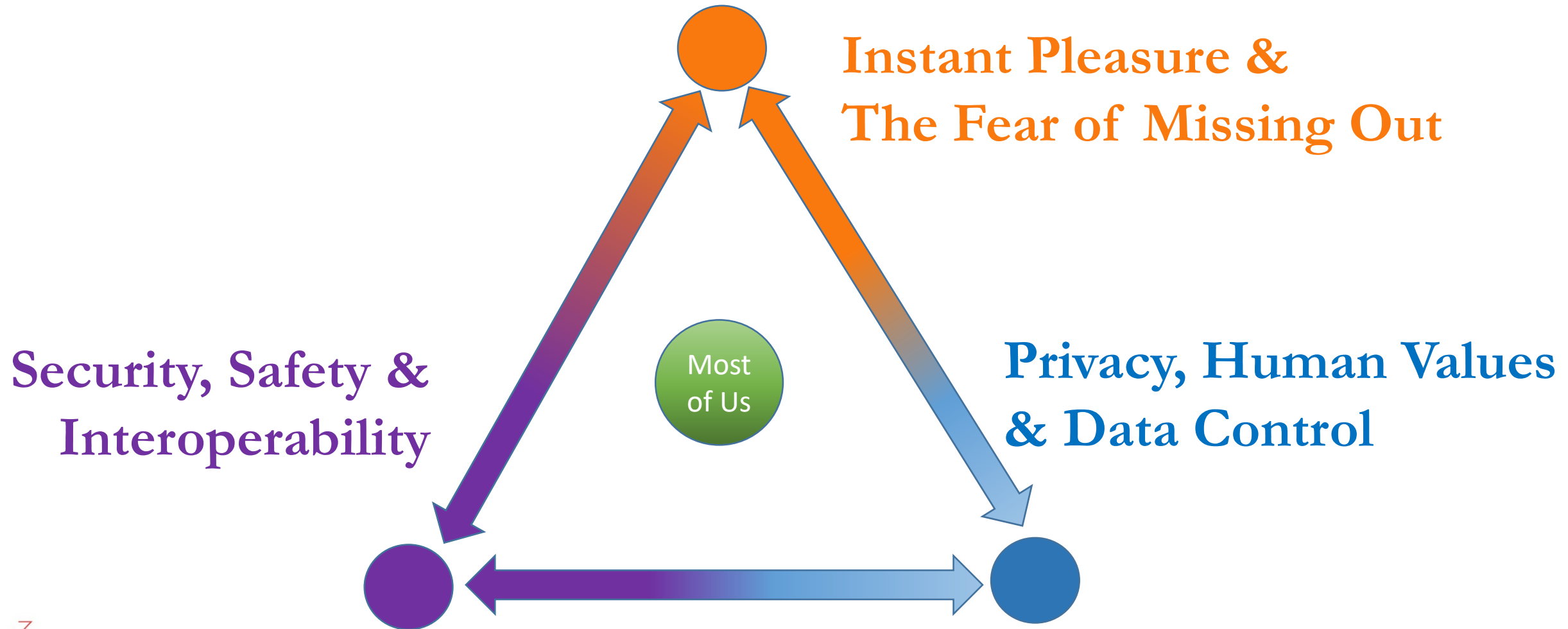
Accountability



# 7 Phases of the Data Life Cycle (Personal & Non-Personal)



# Real Life Dilemma in this Digital Age



2006





‘I want Europe to strive for more by grasping the **opportunities** from the digital age **within safe and ethical boundaries.**’

Ursula von der Leyen, President

[https://ec.europa.eu/commission/sites/beta-political/files/political-guidelines-next-commission\\_en.pdf](https://ec.europa.eu/commission/sites/beta-political/files/political-guidelines-next-commission_en.pdf)

Vestager will coordinate work on a European approach to artificial intelligence. During her Hearing, she emphasised the need to develop AI built according to **‘Trust by Design’**, as well as retaining human oversight of such systems, and addressing the risk that automated decision-making could cement inequalities.

Vestager will oversee work on a new legislative proposal (Digital Services Act (DSA)) that would include ‘upgrading our liability and safety rules on digital platforms, services and products.’ Vestager also stated that the DSA may need **to regulate the way that companies use and share data.**

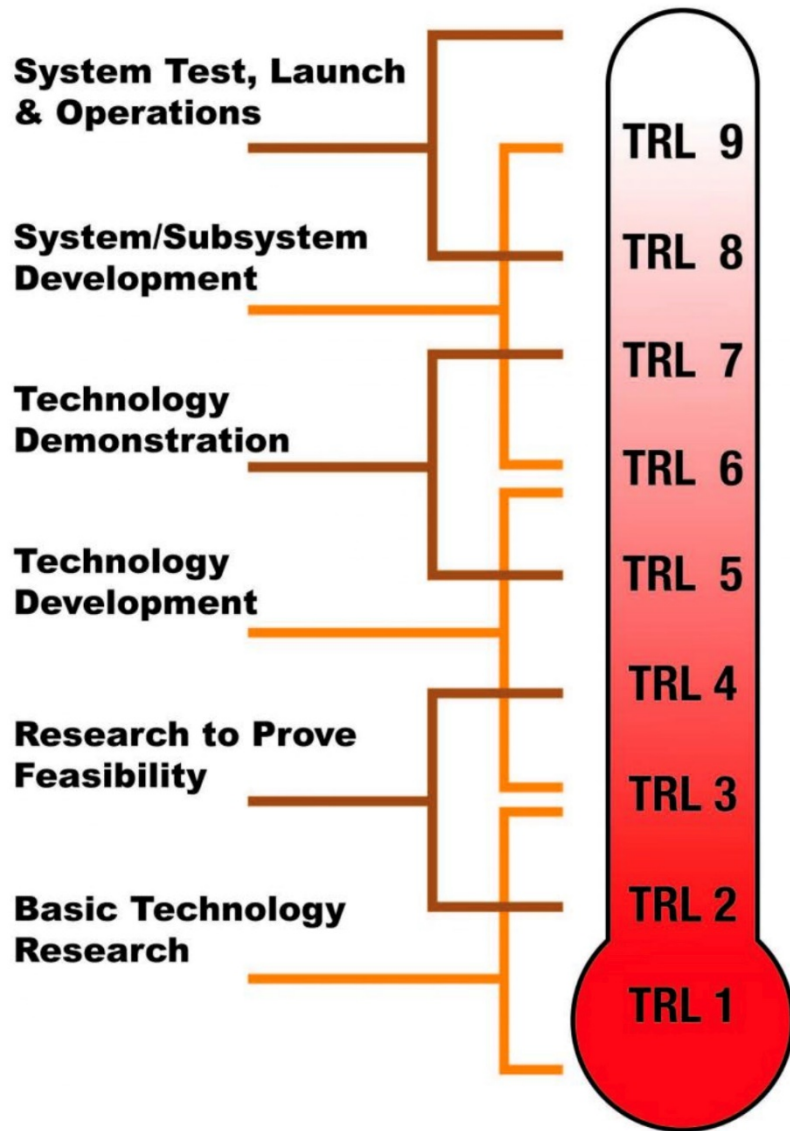
**Executive VP Margrethe Vestager**

Not If,  
But How

REGULATION IN DIGITAL AGE	NETWORK	SYSTEMS	DATA	APPLICATION	PEOPLE
NIS Directive	✓	✓		Impact-Based?	
Cybersecurity Act	✓	✓	✓	✓	?
Free Flow of Non-Personal Data Regulation		✓	✓	✓	✓
General Data Protection Regulation	✓	✓	✓	✓	✓
Payment Services Directive		✓	✓	✓	✓
Product Liability Directive	?	?	?	?	✓
Radio Equipment Directive	✓	✓	✓	Impact-Based?	
eIDAS Regulation	✓	✓	✓	✓	✓



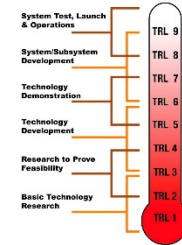
Data Sharing:  
No One Can  
Do This Alone



# How to measure DSRL?

## Data Sharing Readiness Level

# #DSRL



## Various Internal DSRLs

## Various External DSRLs

# Top 5 Excuses for Data Sharing Blocking

We are not 'allowed' to share, because:

1. it is our **Intellectual Property** ...
2. of **Compliance & Regulatory Restrictions** ...
3. it is **Technically** not possible ...
4. we have the **Policy** not to share ...
5. we do **Not Know How** and **What** to share ...

'It is better to offer no excuse than offer a bad one'

George Washington

# Stop Pointing To The Other One



**This is a Challenging Problem Set**

**There is No One Solution**

**There is No One Group with the Answer**

**There is No One Technical Fixture**

**This is about Working Together, as Teams**

**To Achieve Outcomes.**

**This is a Team Sport**

To Make an Investment of  
EUR 1 in Technology Work,

One Needs to Invest  
3 Units in People &  
Organisations



Europe has Great Capabilities

Inward & Inbound  
Outward & Outbound

If, and Only If, We Organize Ourselves

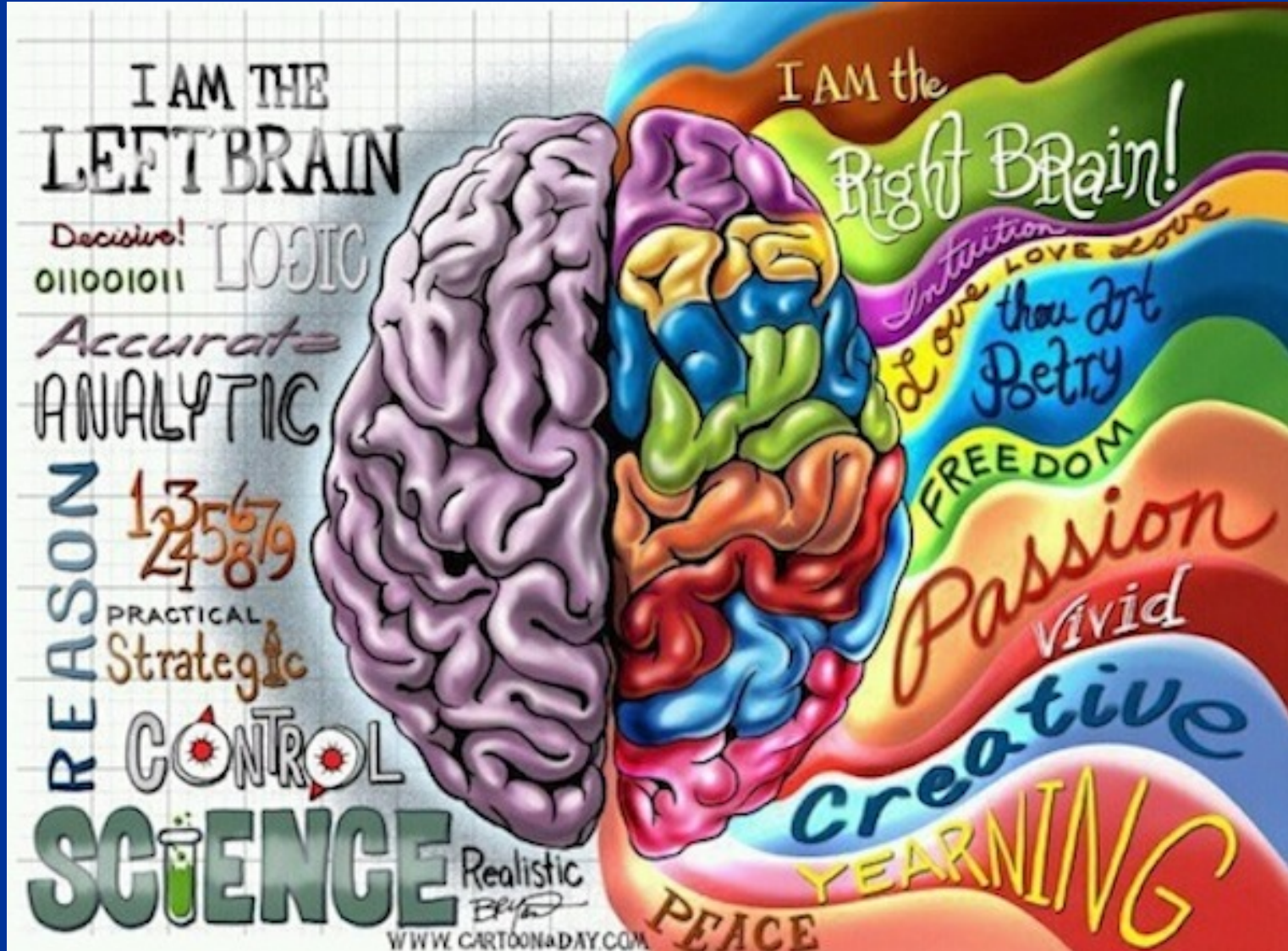


# Building Trust that is Enough to Start Trusted Sharing Data:

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**THE BEST WAY TO PREDICT THE FUTURE  
IS TO CREATE IT**

# People, Data & Technology Symbiosis: Multiplicity



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