

Be the Disrupter and Not the Disrupted

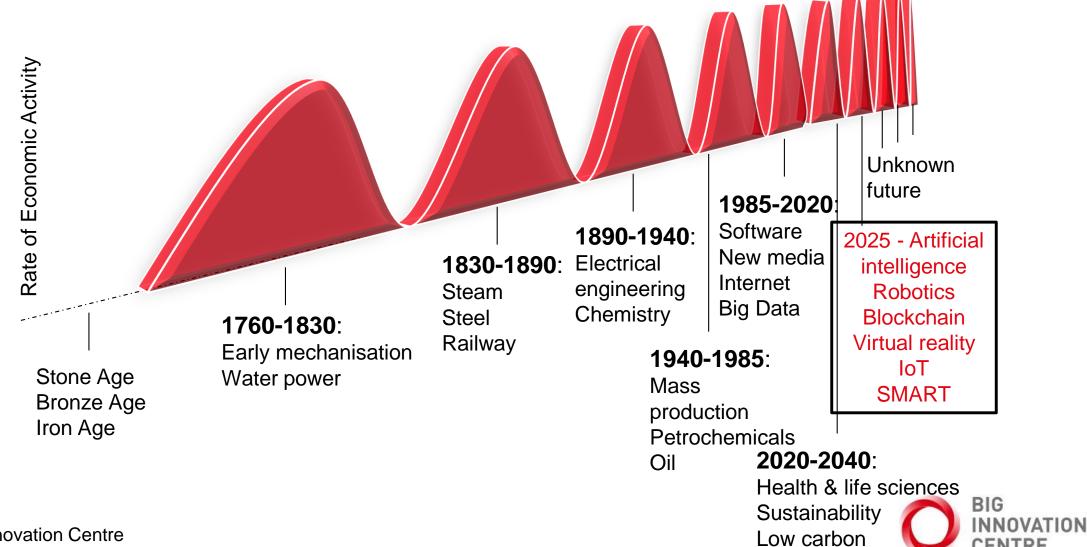
A Necessity or a Tall Order for the Public Sector?





Professor Birgitte Andersen – CEO Twitter: BirgitteBIC

New technological, business and economic opportunities





How to disrupt?

Global growth hubs at scale:

About **innovation** and **ecosystems** interconnections







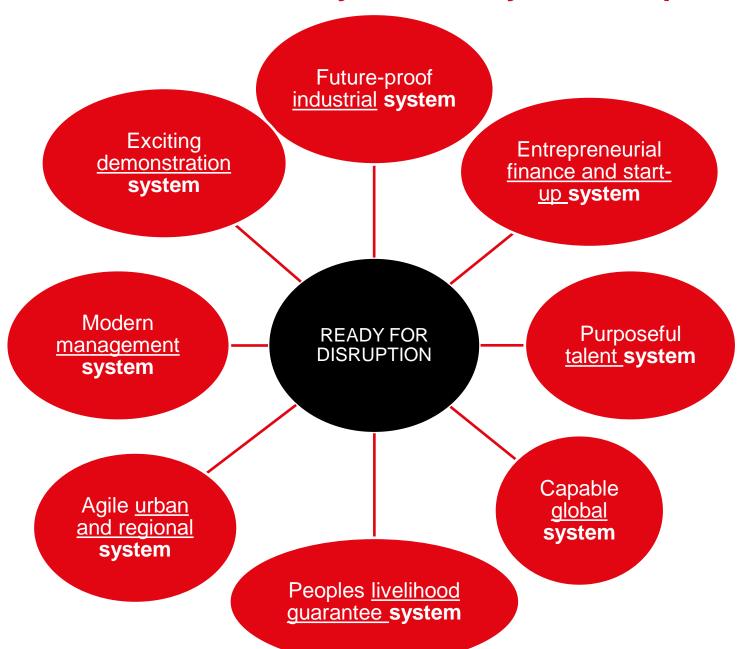








An Innovation Ecosystem ready for disruption



Creative disruption:

- Attract visibility of sectors
- Attract technologies and capabilities
- Attract investment and investors
- Attract trade and commerce
- Attract talent
- Add real value in decision making for business leaders and policy makers



https://www.innovationeye.com/







Outsourcing

Crowdcube

RENERHAL COO .TSEF | The secial property |













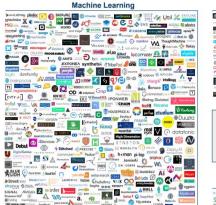
1000 AI

Transport &

InsurTech

600 - Al Investors









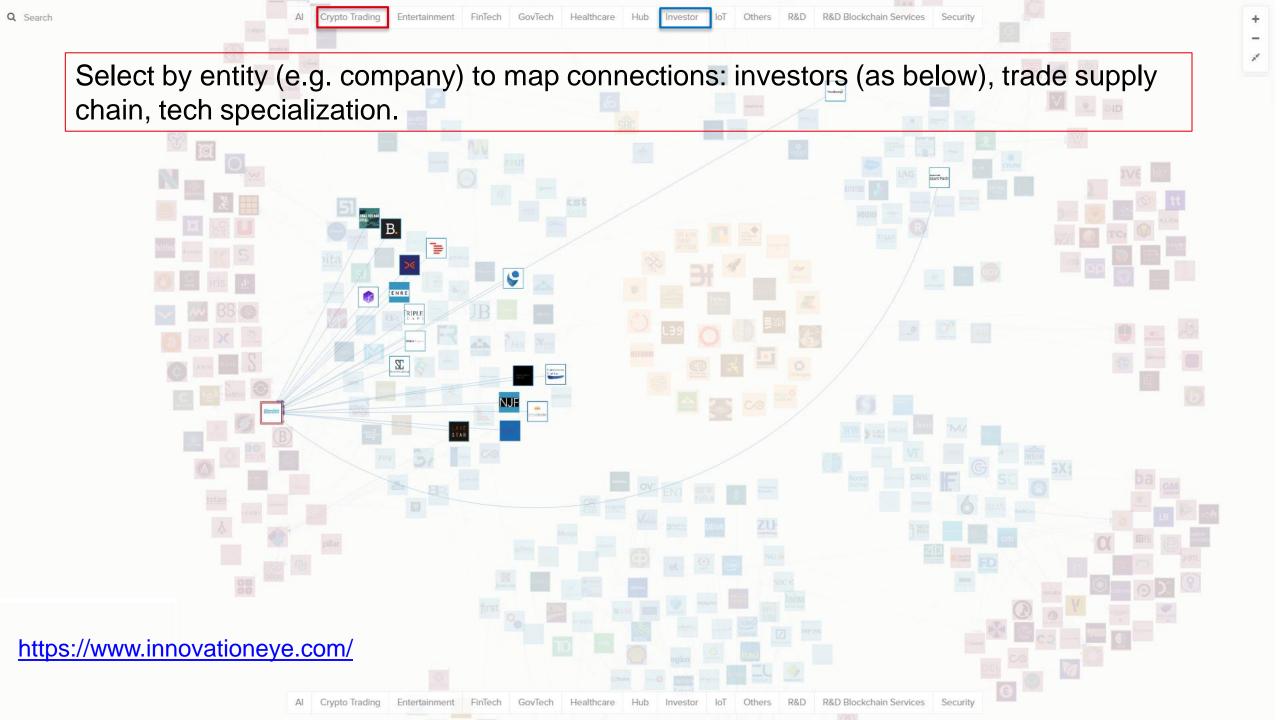




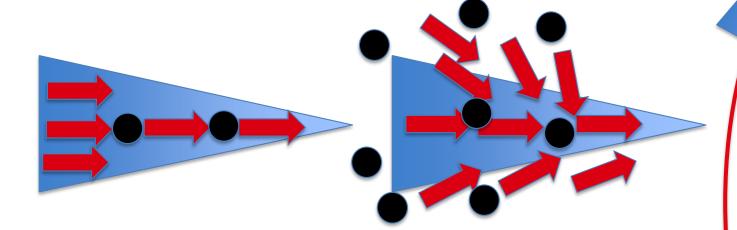




systems



Public sector approach towards co-creation/



Closed Innovation

Self-centric Open Innovation 1:0

Up to 1990

1990 - 2010

Ecosystem-centric Open Innovation 2:0

New trend: solving shared challenges



Users and co-producers of the innovation ecosystem

Enterprising state (Government, policy makers, and public sector)

Business leaders, financiers and entrepreneurs

Quadruple Helix

Universities, R&D institutions and science parks (Researchers and Innovators)

Civil Society (us)





THOUGHT LEADERSHIP & TASKFORCES IN UK PARLIAMENT







All Party Parliamentary Group on Blockchain



THOUGHT LEADERSHIP & TASKFORCES IN BIG INNOVATION CENTRE





AREAS FOR PUBLIC SECTOR TO DISRUPT

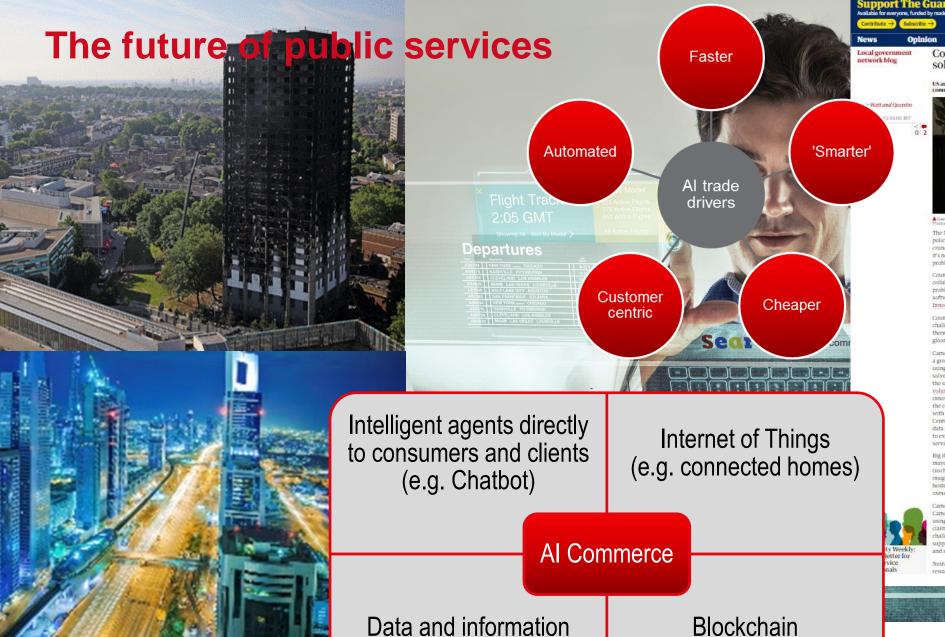
Fairness, transparency, trust, privacy

The "Law and Economics" on ethics – all about the data

DATA CAPITALISM and the **PUBLIC VALUE** of data

- Law moral rights to own your data (exclusive rights)
- **Economics** grow the value-pie in an economic system through the new growth engine (BIG DATA & AI) ethics is about economic based rights to a share of the created value
- Corporate governance social economic responsibility around privacy and use





exchanges (both private

and public)

Search jobs Catting Signin Q Search The UK edition Guardian

Councils call in the geeks to help them solve local problems

US authorities are not the only ones using crowdsourcing to tackle



The New York Times recently reported on a decision by the city's office of policy and strategic planning to use a geek squad of "civil-minded numbercrunchers' to crack down on restaurants illegally dumping cooking oil. But it's not just councils in the US that are bringing in the geeks to solve local

Councils across the country are using open innovation events such as hacks, challenges, camps and jams, as well as creating innovation centres, to help

Camden council in central London is a great example of a local authority voluntary sector funding, through a the council is now joining together with Google and the Big Innovation Centre to stage a "hack day" bringin



insights around specific problems. In the UK, many of these days have been

and service users will be involved throughout the process.

Nesta has demonstrated how challenge prizes can be used to stimulate and





S rejects Labour's claim



UK metal detectorists guilty of theft after concealing



Blockchain (e.g. peer to peer 'smart' contracts)

INTERNET GROOMING

ACCEPT ALL COOKIES



Right to be forgotten...

Whose data is it anyway?

raw data, behavioral data, data base analytics

From IPO to IDO?

CREATIVE DATA COMMONS

DATA SHARING and public value

A Data Charter on how data can used:

Access to private data drives entrepreneurship, innovation and increased welfare

- Shift from policies around controlling the data itself to governing the uses of data
- Adopt an **'opt-in unless you opt-out' approach** to personal and business data disclosure
- Introduce 'fair use' of personal and business data
- A 'social contract' (benefits in exchange for sharing data, as with patents)

DATA CAPITALISM & DIGITAL SUSTAINABILITY

Key implications

Automated Decision-Making

Inequality

Security threats

Data Ethics

Algorithmic Biases

Accountability

Technological Unemployment

Monopolisation

Inclusivity

Cybersecurity

Long-term extinction



Streamline the construction process from start to finish



Smart cities and intelligent homes

Software



Sphere 1

Sphere 3

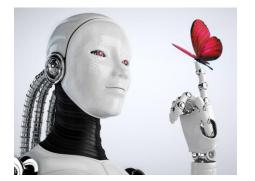
Sphere 2

Sphere 4

General – (Sci Fi)

Robots

Construction Site Robotics and drones



Smart Sensors for Smart Buildings





Silicon Valley's Next Target: Disrupt the **Construction and Real Estate Industries**

'Construction Tech' and 'Real Estate Tech' are the next greenfield







TECH GIANTS

Being the industry and controlling the industry





DEEP DIVE

PUBLISHED

Technology powerhouses like Apple, Microsoft and Alphabet (Google's parent company) have boomed far beyond their West Coast roots, ranking among the largest firms in the world. Their growth is not only measured in sales or market capitalization, but also in employees, scope of services and the facilities that are constructed to accommodate them.

The new age of engineering and construction technology





CONSTRUCTION DIVE Deep Dive Opinion Data Library Events Jobs

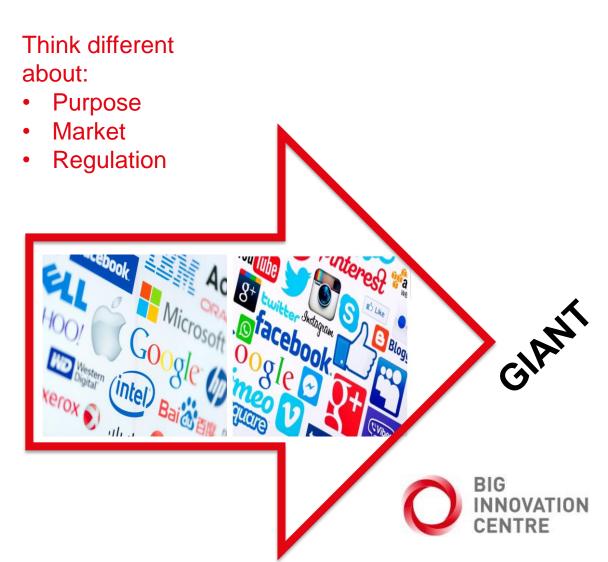
Commercial Residential Tech Design Products Green Econ Legal/Regs

The winner takes all...

A Tall Order for the Public Sector? How to control the giants? 3 **Data control Platform Public** AItechnology control sector access capability offering

BIG is good but even BIGGER is better

MONOPOLISATION of TECH GIANTS











Industry practices and emerging new routines

Policy and regulation landscaping

Infrastructure development (physical and digital) Blockchain and DLT specific aspects

INDUSTRIES

- FINANCE AND CRYPTOCURRENCIES
- INSURANCE
- LOGISTICS AND TRANSPORT
- NATIONAL SECURITY AND DEFENCE
- PUBLIC ADMINISTRATION
- CREATIVE INDUSTRIES
- THE NEXT GENERATION SERVICES
- EDUCATION AND RESEARCH
- CHARITIES AND NGOs
- AGRICULTURE AND FOOD
- MANFACTURING
- HEALTH CARE
- ENERGY AND ENVIRONMENT
- PUBLIC SECTOR





WHAT WORKS:

PROTOCOLS & ACCOUNTABILITY:

Blockchain for Government use cases or solutions?

Must demonstrate:

Best practice for *Blockchain for Government* protocols? Focus on:

		PUBLIC	MANAGEM BLOCKCHA		PROTOCOLS					
	PUBLIC DOMAINS	Operation excellence	Service excellence	Product excellence	Purpose	Ethics	Safety / security	Trust	Sustainability	Impact
•	National Identity Management Systems									
•	Tax and Internal Revenue Monitoring	TEST	TA DI F	Clear ways to TEST what excellence looks like			TESTABLE		Clear ways to TEST if the protocols are followed	
•	Post Brexit border control of trade									
•	Work and Pensions									
•	Grants and Student Loans			Clear pattern of				• Clear r	pattern of	
•	Land Registration and Property	ACCOUN	NITA DILLITY	ACCOUNTABILITY who is accountab	•	AC	COUNTABILITY	ACCOL	JNTABILITY, and accountable?	
•	Intellectual Property Rights									
•	Public Procurement									
•	Voting and Democracy									
•	Secure Banking Services									
•	Healthcare						M	HS =		
•	Education and skills	- ^		s.do.		Lads				
•	Sport	MY NEXT	матсн	2		200	Eng	land	% truu	
•	Justice and Tribunal			Department for		Departme	tment 77	HS	AND	
	Services	SPC SPC		Digital, Culture		of Hea	Ith &		vernym	
•	Environment, Food and	I P ENG	3/ 44/5	Media & Sport		Social		ital	• Cirry i i i	
	Rural Services						- 19			



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ECOSYSTEM PLAYER

DATA GOVERNOR (data value, IDO)

SOCIAL VALUE (not tech giant value)

