

Cybersecurity Challenges

Carsten Sørensen

Digital Innovation
Department of Management
London School of Economics and Political Science

c.sorensen@lse.ac.uk
[@verbalpiercing](#)
WeChat: VerbalPiercing
carstensorensen.com
scholar.carstensorensen.com
digitalinfrastructures.org
enterprisemobilitybook.com
uk.linkedin.com/in/carsten

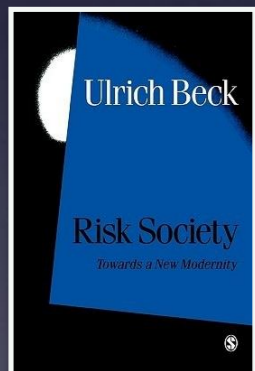


Interconnectivity Risks

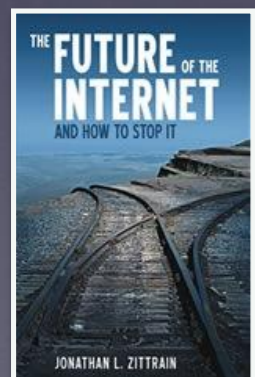
- Centralisation, Decentralisation, and Distribution (Paul Baran, 1964)
- Complexity, interconnectivity, and normal accidents (Charles Perrow, 1984)
- Risk society (Ulrich Beck, 1992; http://en.wikipedia.org/wiki/Risk_society)
- The generativity of an open Internet (Jonathan Zittrain, 2008)



Perrow, C. (1984). *Normal Accidents. Living with High-Risk Technologies.* New York: Basic Books.

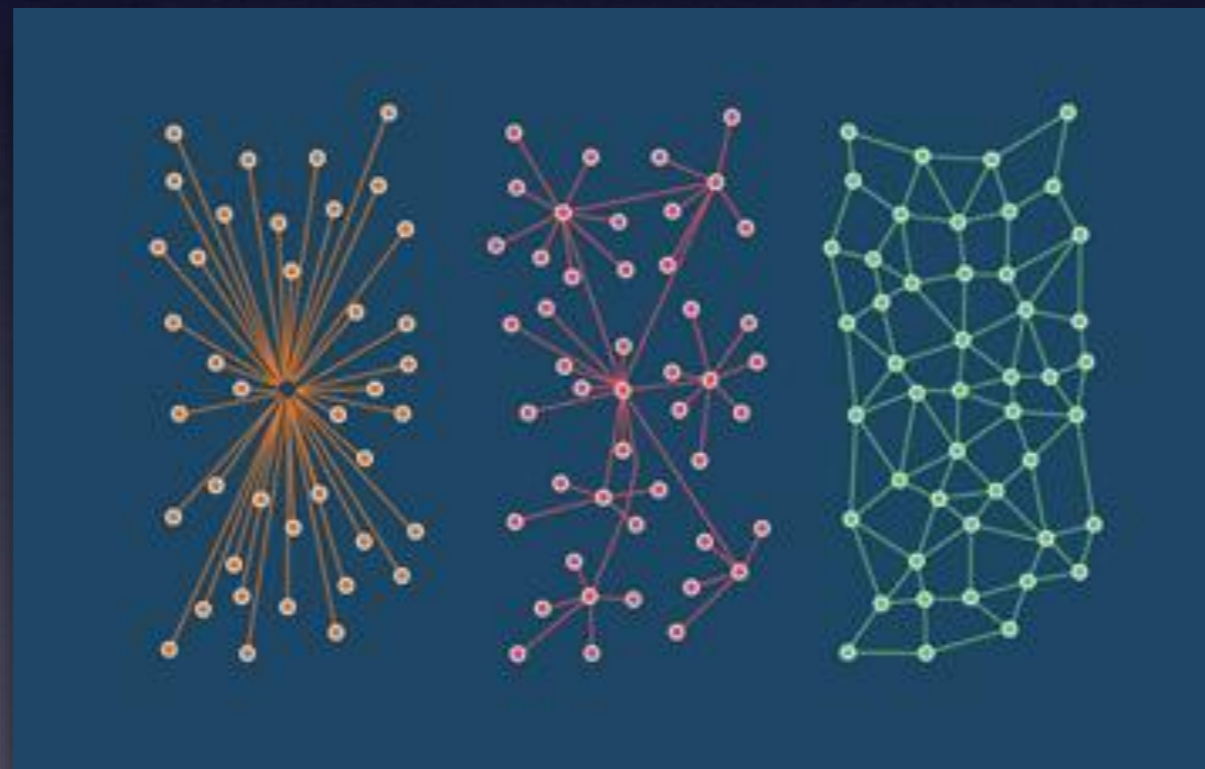


Beck, U. (1992). *Risk Society: Towards a New Modernity.* London: Sage.



Zittrain, J. (2008). *The Future of the Internet: And How to Stop It.* London: Allen Lane.

Global Digital Platforms vs. Distributed Agency



Platforms not agnostic

Baran, P. (1964). On distributed communications networks. *IEEE transactions on Communications Systems*, 12(1), 1-9.

Agnostic



Upwards- & Downwards Flexible
Any service on any infrastructure



Tight

Dams

Power Grids

Nuclear Plant

Aircraft

Rail Transport

Nuclear
Weapons
Accident

Space
Missions

Airways

Coupling

Assembly Line
Production

Military
Adventures

Mining

R&D Firms

Single-Goal Agencies
(post office)

Universities

Loose

Linear

Complex

Interactions



Thanks!

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uk.linkedin.com/in/carsten

