

PUTTING DATA TO WORK FOR BETTER HEALTH AND HEALTH SYSTEMS

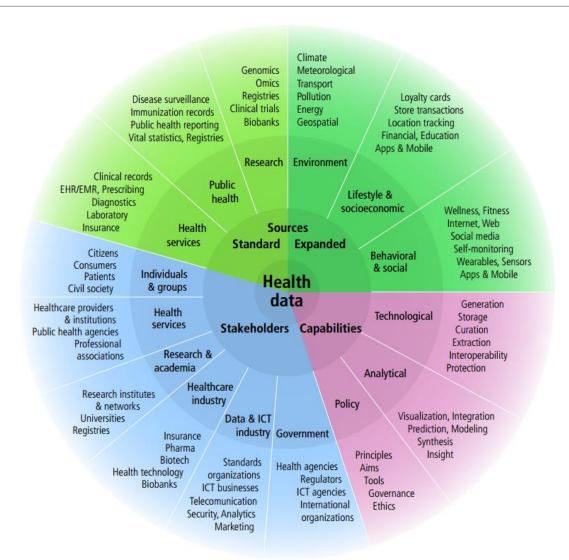
Luke Slawomirski Eindhoven, ND 12 April 2018





The health data ecosystem is evolving and growing









This bestows immense opportunities ...



Clinical practice improvement (quality)

- Faster access to critical information
- Improved <u>clinical decision making</u>
- Better patient experience and satisfaction



System management

- Monitor <u>performance</u>
- Allocate resources better and <u>reduce waste</u>
- Ensure better access to care



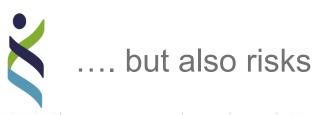
Surveillance

- Evaluate <u>public health</u> interventions
- Faster detection and response to public health emergency
- Inform policy



Research & innovation

- Statistical power
- Vast and varied datasets
- 'Real world evidence' for innovation





POLICY

ONE STEP TOO FAR FOR LEGENDARY DANISH TRANSPARENCY

Danish regional health authority have collected data from patients illegally in the past seven years, in a scenario reminiscent of George Orwell's 1984 ★1

FINANCIAL TIMES

HOME WORLD US COMPANIES MARKETS OPINION WORK & CAREERS LIFE & ARTS

Digital health + Add to myFT

Fears raised over Google's DeepMind deal to use NHS medical data

records for mobile app

Academics concerned over company's access to private

There comes a point when the weight of criticism becomes so much that the dam hursts

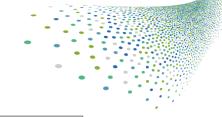
More from Nick

Read next

Could onli to predict 1



OECD work on health data governance commenced in 2010







OECD Health Policy Studies

Health Data Governance

PRIVACY, MONITORING AND RESEARCH





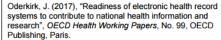
BIG DATA FOR GROWTH AND WELL-BEING



OECD publishing



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OECD Health Working Papers No. 99

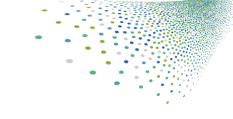
Readiness of electronic health record systems to contribute to national health information and research

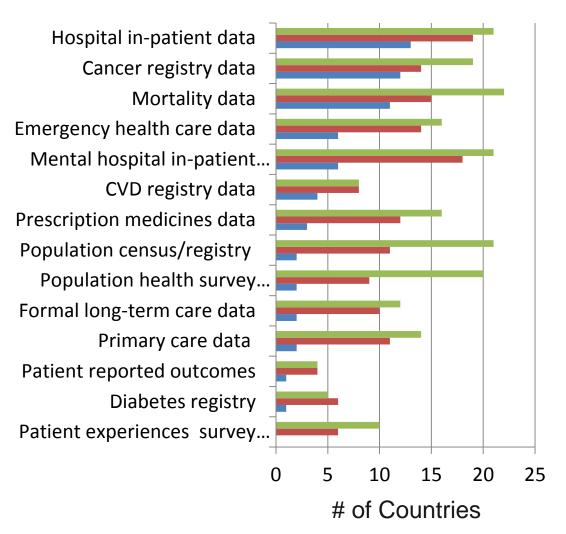


ECD



Data rich – information poor





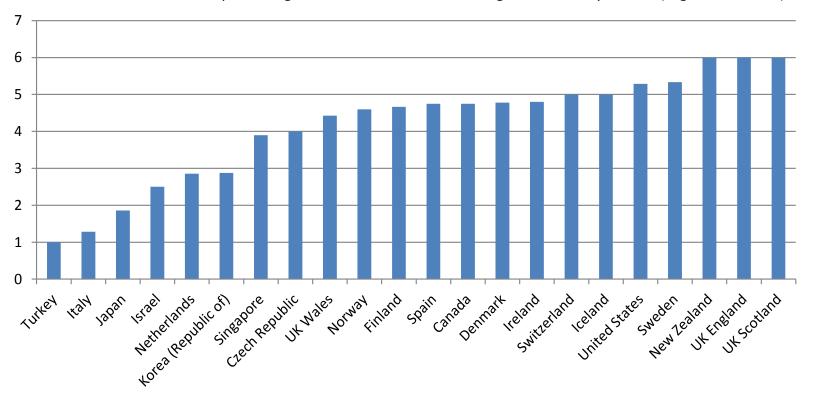
- National personal health data available
- Unique ID included and used consistently
- Record linkage to regularly monitor health care quality and system performance



Variation in sharing and accessibility of data for R&D purposes

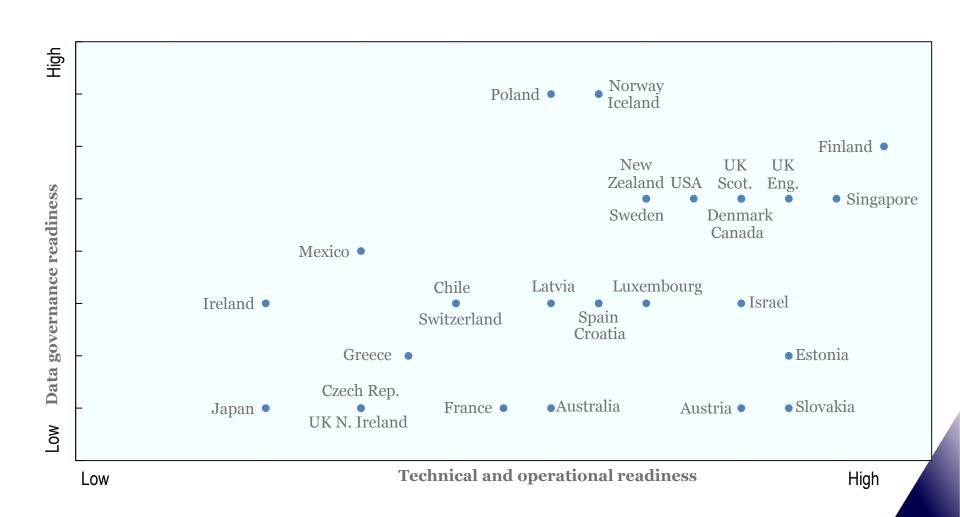


■ Score is the sum of the percentage of national datasets meeting 6 accessibility factors (Highest score =6)





Harnessing Electronic Health Record (EHR) data





A health data governance framework (2015)

8 key mechanisms

- 1 Health information system
- 2 Legal framework
- 3 Public communication plan
- 4 Certification or accreditation of processors
- 5 Project approval process
- 6 Data de-identification steps
- Data security and management
- Data governance review cycle

Evaluate benefits and risks of data uses

Benefits

- Rights to health
- Health care quality & efficiency
- Scientific discovery & innovation
- Not using available data is a risk benefit foregone

Risks

- Rights to privacy
- Societal trust in government & institutions
- Societal values toward privacy & sharing data

- Not a zero sum game
- Whole of government endeavour
- Across sectors

Take informed decisions to use personal health data

Right data governance to maximise benefits and minimise risks



... became an OECD Council Recommendation

January 2017

- 1. Establish national health data governance frameworks
 - Encourage availability & use of health data to advance public policy objectives
 - Promote privacy protection & data security
- 2. Harmonise frameworks between countries
 - Enable multi-country research

www.oecd.org/els/health-systems/health-data-governance.htm



12 measures to maximise benefits & manage risks

Engagement and participation

Approval procedures for the use of personal health data

Coordination and cooperation

Public disclosure and transparency

Capacity of public sector health data systems

Recognition of the role of technology

Clear provision of information

Monitoring and evaluation mechanisms

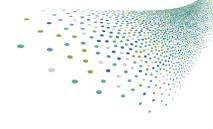
Effective consent and choice mechanisms

Training and skills development in privacy and security

Controls and safeguards

Certification or accreditation







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