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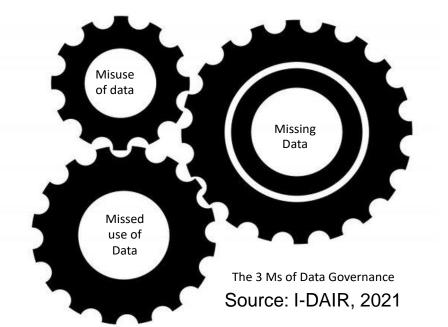
22 June 2021

Digital Health & Al opportunity...

- Digital offers patient-centric and cost-effective ways to reinvent delivery of health services;
- Process/workflow/incentive redesign;
- AI: Confluence of machine learning, large datasets and computing power for precision, preventive and predictive health;
- COVID-19 crisis has refocused attention on health system investments, resilience and the digital opportunity.

... challenges

- Lack of data for health/on impact (missing data/evidence);
- Poor quality, fragmented datasets, lack of interoperability, zero-sum views of data, insufficient trust (missed use);
- Public concerns on data security, ownership, privacy & informed consent (misuse);
- Gaps in Infrastructure, human capacity, and governance





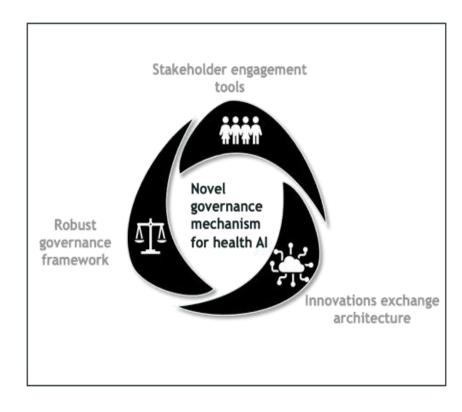
Obstacles specific to AI Governance:

- Lack of governance <u>capacity</u>, and digital literacy.
- Pace of technology change; uncertainty regarding impact & governance failures; absence of human-centered benchmarks.
- Insufficient <u>coordination</u> among ministries, and across stakeholders.
- <u>Centralisation</u> that stifles governance innovation at the edge.
- Confusion between digital, data and Al governance; growing data/Al nationalism.



Accordingly, AI governance has to be <u>values-based</u>, <u>collaborative</u>, <u>agile</u>, <u>distributed</u> and <u>end-to-end</u>: context > data > AI > assessments and redressal.

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A novel governance mechanism for health Al: Source: I-DAIR, 2021

- Manalogica tentrogeand contagentarity solution
- time of a transfer of the property of the particles of th
- governance principles, mechanisms and norms.

Nine core values to drive AI governance in health





Human-centredness & human agency Considering the benefits of DH and AI for all populations **Diversity**Ensure diversity across actors, geographies, at all stages





Trustworthiness

Promote trust with transparent processes and communication; ensure data safety and protection

FairnessAct with integrity and promote fairness





Collaboration

Promote clear roles and responsibilities in an agile way of working

Independence and Neutrality
Stay neutral and promote independence regarding involved parties and activities





Transparency
Ensure reliable and open processes
and communication

Innovativeness

Promote innovation at all stages, e.g. in governance as well



Inclusivity

Make sure that we leave no one behind





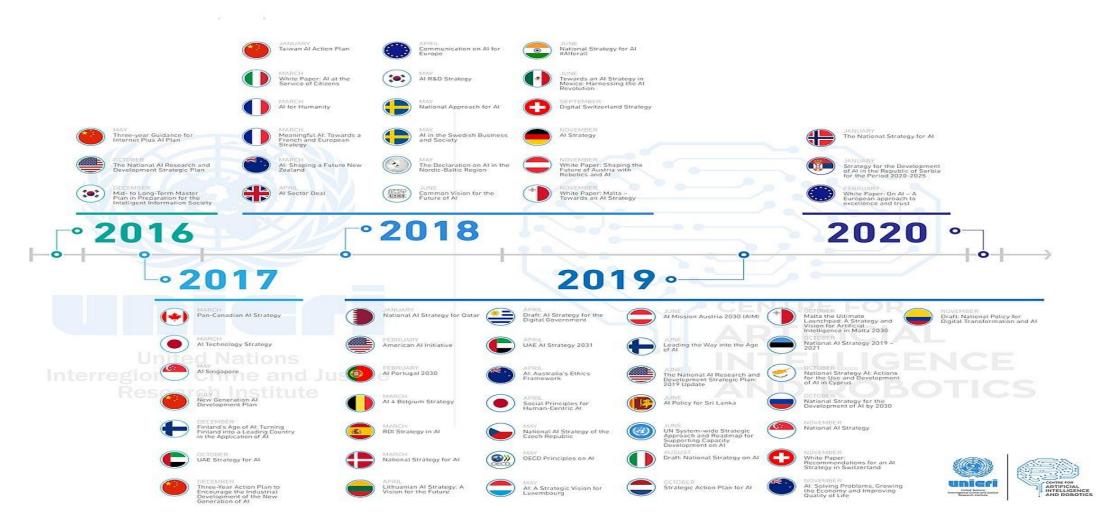
Technology reflects our human values and hierarchy of preferences..

And...

Values and principles help build a culture of human-centered technology development & governance.

This can build a virtuous cycle of values, ethical conduct and trust in technology and its governance.

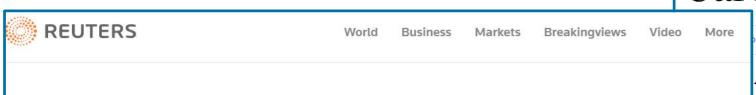
Timeline of strategies, action plans and policy papers setting defining national, regional and international approaches to Al





MEDICAL SERVICES

Why Medical Data is 50 Times More Valuable Than a Credit Card



HEALTHCARE & PHARMA SEPTEMBER 24, 2014 / 8:25 PM / UPDATED 7 YEARS AGO

Your medical record is worth more to hackers than your credit card

As the healthcare company lurches into embracing cloud-based technology, protecting medical data has become even more essential. While banks and other financial organizations have long been data security experts, the healthcare field has been a bit slower to protect its data, which can often be more valuable than credit cards and bank account numbers.

By C

Why Are Medical Records So Valuable to Data Thieves?

When you think of a data breach, what's the first thing that springs to mind? The theft of credit card information? Other financial data falling into the wrong hands? While protecting confidential financial data is very important, it's actually health data and medical records at the highest risk of a breach.



Al is already here, and will grow

Huge potential, many risks

Good national governance & regulation must:

- (1) Encourage innovation
- (2) Manage risks



The shape of Al governance to come

Introduction to Al Governance



Question:

Who will profit from the systems?

World Health Organization

Question:

Who will profit from the systems?

Those who own the systems, and those who own the data

facebook



Al for Health



We empower organizations tackling some of the toughest challenges in global health. Learn how we are working with grantees to advance innovations in health.



"The future is already here — it's just not very evenly distributed."

William Gibson



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