

AI For Health

Trusted shared services and digital business solutions

“Digital Trust”



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ICT SOLUTIONS
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UN FAMILY

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Agenda

- › UN ICC: Introduction
- › Digital Trust: Food for thought

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The ICC Story



Pursuant to GA Resolution 2741 (XXV) of 17 Dec 1970, ICC was created as an UN inter-organization facility.



Setup to provide services for mainframe and data communications – using Cost-Recovery Model (*not-for-profit*)



We still run two mainframe systems!!

Over 50 Clients and nearly 40 service offerings across strategic consulting, emerging technologies, solution development, information security, on premise UN cloud as well as various *aaS cloud solutions.

Emerging Technology:
Blockchain
Machine Learning
RPA
Cloud Native
Applications

Team of circa 420 UN Staff and consultants – almost entirely with ICT skill-set

Data Centres in Geneva (x2), Switzerland; New Jersey, USA; and Valencia, Spain – all within UN jurisdiction (*covered by P&I*)




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ICC's Client Organizations



 ICC offices

Digital Trust

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Digital Trust



› ‘Quantify’ Digital Trust

- HBR: <https://hbr.org/2018/02/the-4-dimensions-of-digital-trust-charted-across-42-countries>
- Tufts University: <https://sites.tufts.edu/digitalplanet/executive-summary/>

› Analyse/model it for digital health:

- National Institute of Health: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4114421/>



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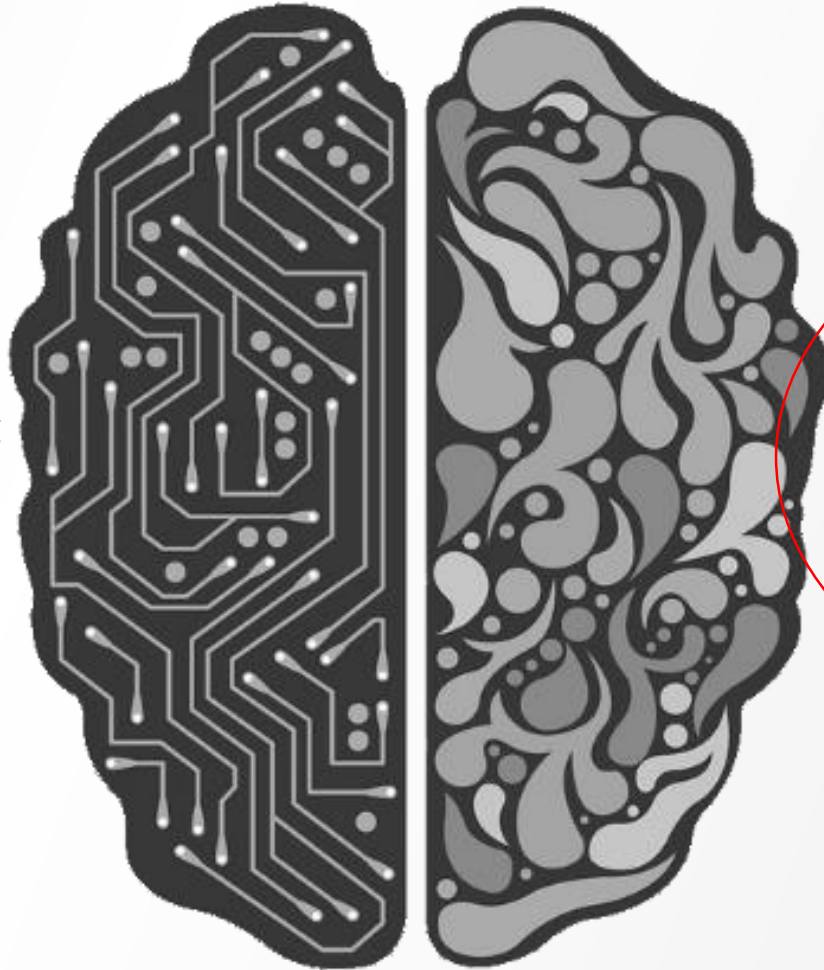
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Digital Trust

› Computation Trust

- **What:** is the (deep) machine learning system doing with my data?
- **How:** is the system reaching it's conclusion?



› Operational Trust

- **Who:** is handling my information; beyond the system – human operators? *(this starts to intersect with privacy concerns)*



Digital Trust: Relational Seq TB Data Platform

Supporting global public health

- › Programme to catalogue genotypic and phenotypic metadata to analyse drug susceptibility testing of 'Mycobacterium tuberculosis'.
- › Under the WHO umbrella, countries are giving data for pipeline processing and subsequent analysis.

Digital Trust & Capacity Building

Example for Country Framework

- › Non-health initiative by IPPC/FAO (Food and Agriculture Organization of the United Nations, Rome)
- › IPPC: Effective action to prevent and to control the introduction and spread of pests of plants and plant products

- › Programme to provide least developed and developing nations with capabilities (process and technology) to effectively manage import/export of plant and plant related (phytosanitary) products:
 - Build and train on new digital processes
 - Provide Digital solutions

Questions

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Thank you!

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