



Strategies for Designing Sustainable Societies post COVID-19 and Role of 4IR Technologies



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November 3rd, 2020



Prelude

Covid-19 and new possibilities

Covid-19: the three war fronts

Covid-19 in the context of 4ir

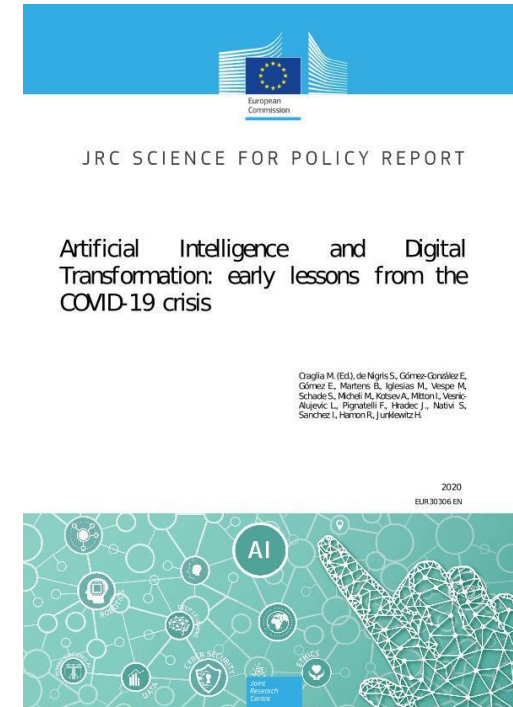
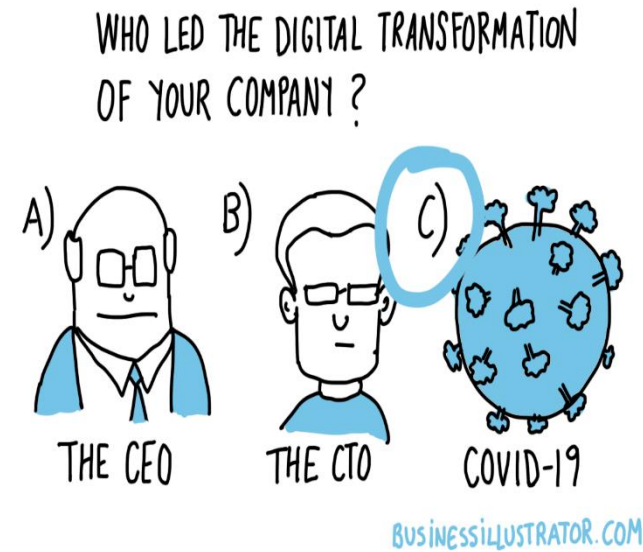
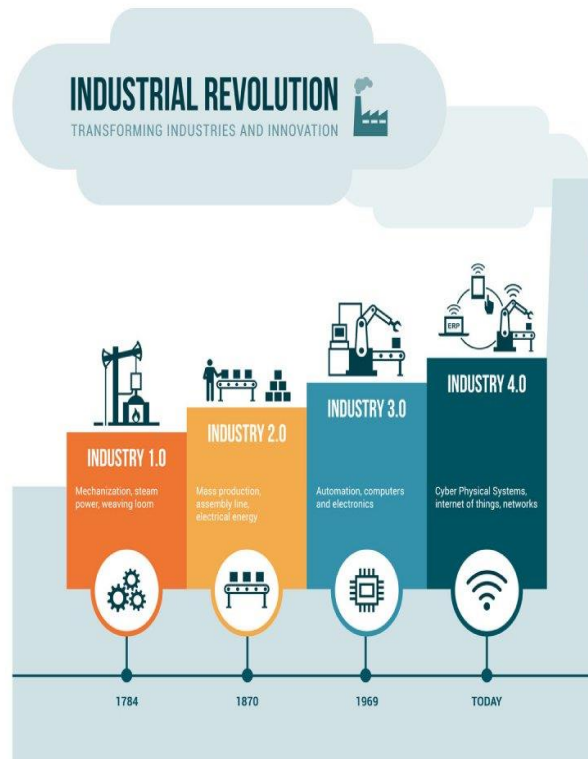
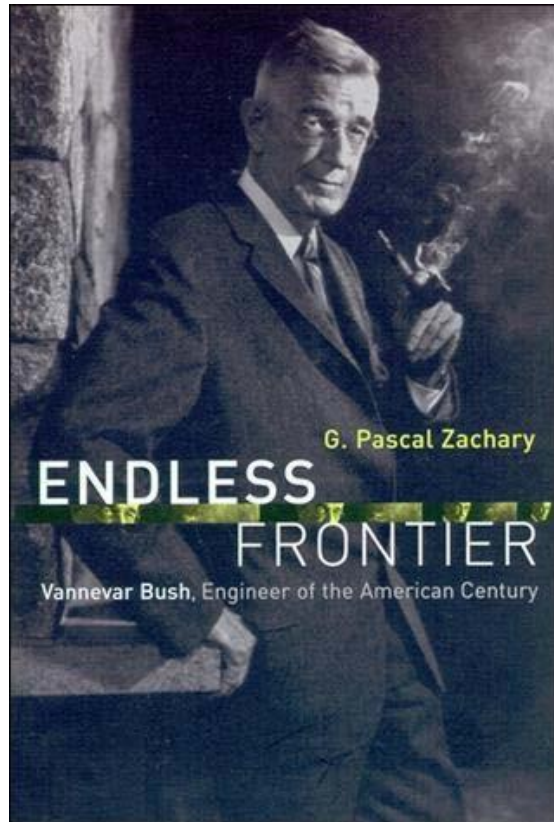
Epilogue

Inspiration from the Past Crisis's!



COVID-19: The dawn of 4IR-a New Endless Frontier

- World War 2 led to Science the Endless Frontier- COVID leading to a **4IR Endless Frontier**.



Covid-19 and The fundamental questions



Source: Johns Hopkins University, national public health agencies
Figures last updated 21 October 2020, 09:55 BST

- ① How do we get a vaccine and therapeutics to beat this “Blitzkrieg” pandemic?
- ② How do we rebuild towards a greener, cleaner and more sustainable and inclusive World?
- ③ Is the World that is less dependent on Fossil Fuels possible?

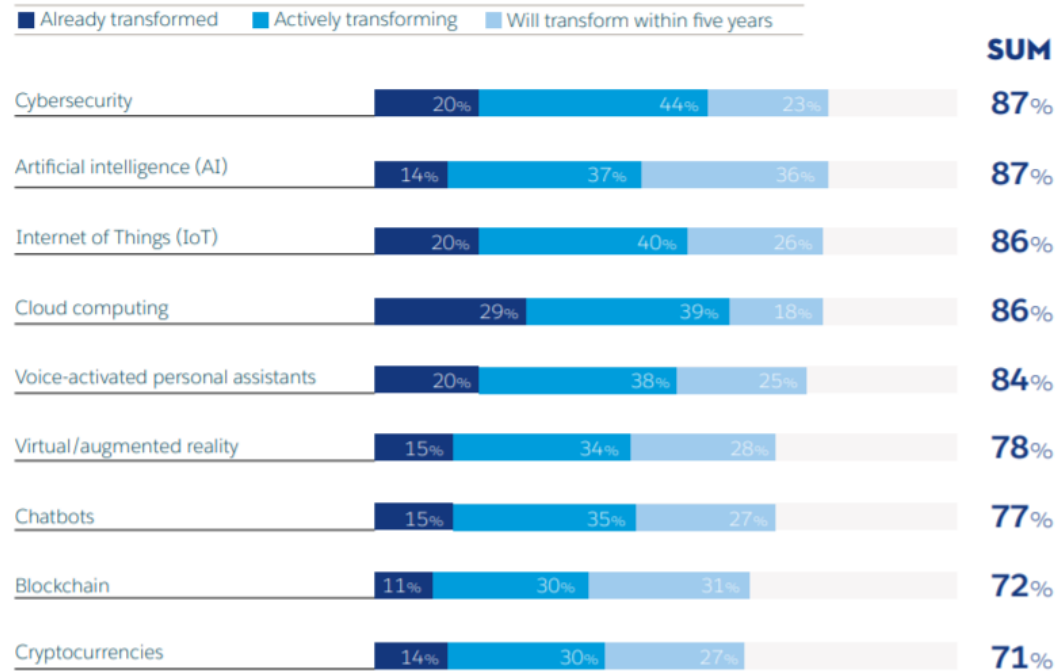
Our FIGHT is on 3 FRONTS !!!

3Cs - COVID-19, Clean Economies, Climate Change

COVID-19 -TURBO-CHARGING THE 4IR

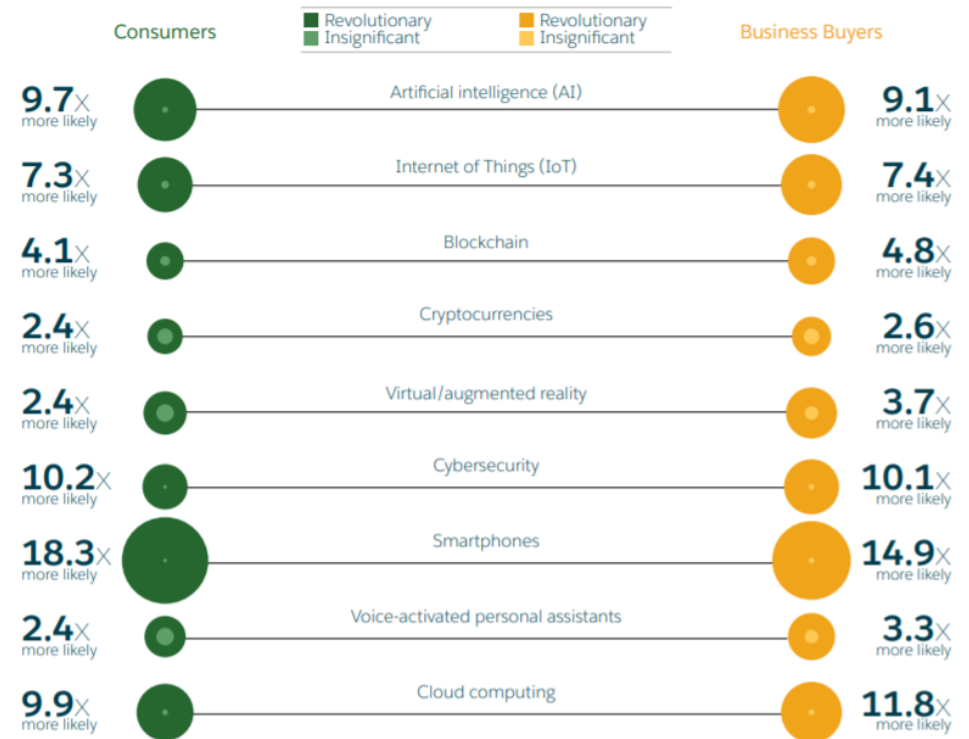
The Fourth Industrial Revolution Is in Full Swing

Percentage of Customers Who Believe the Following Technologies Will Transform Their Expectations of Companies



Modern Technology Advances Are Seen as Revolutionary, Not Hype

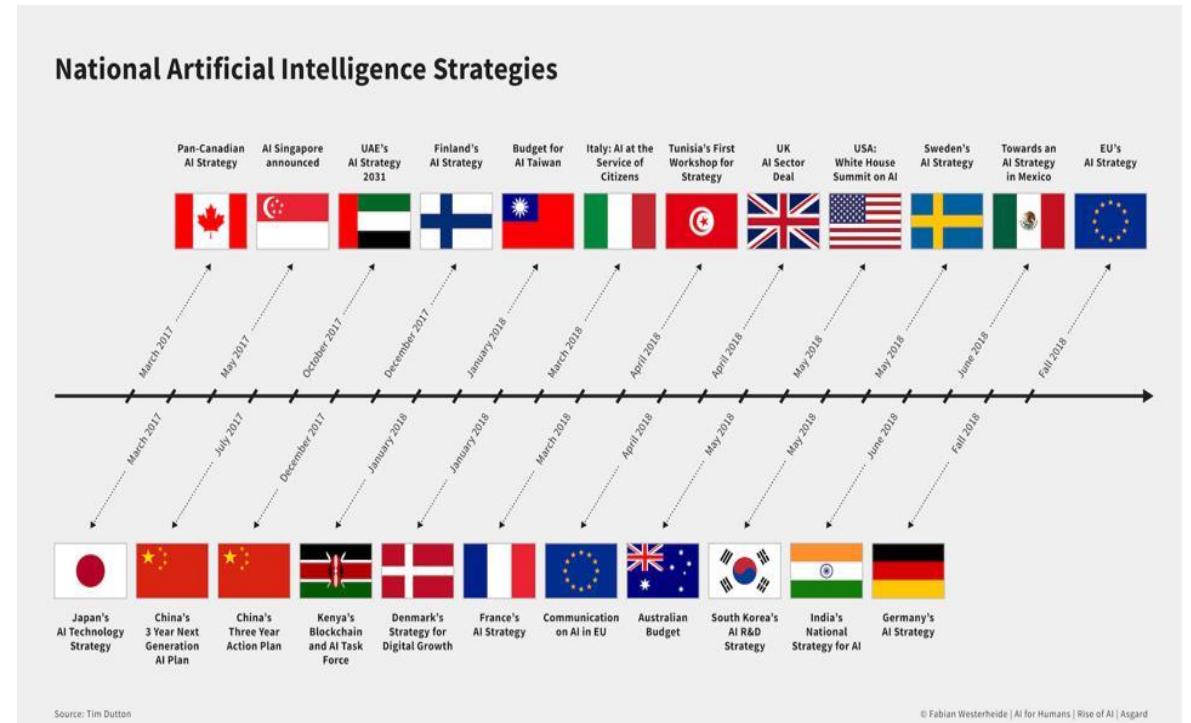
Likelihood of Customers Rating Each Technology as Revolutionary vs. Insignificant



Salesforce (2018), The State of the Connected Consumer

COVID-19 – Digital-Continental Drift

- COVID-19 and Great Reset of Economies



Forbes 2020

Covid-19: Korea's digital and green new deal

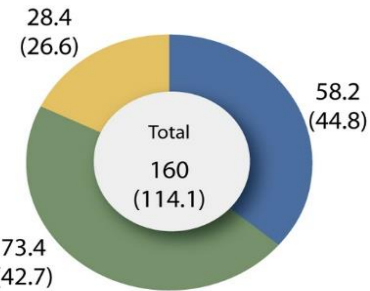


South Korea's President Moon Jae-in speaks at the Douzon Bizon's office in Chuncheon, Gangwon Province on June 18, 2020. [Photo by Bluehouse]

Korean New Deal investment plan

Unit: trillion won

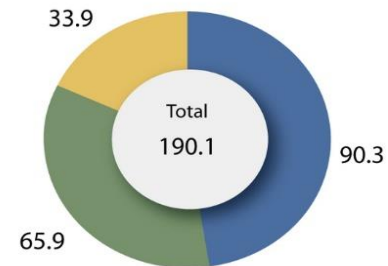
■ Digital New Deal ■ Green New Deal ■ Safety net



*(Government investments)

Jobs created

Unit: 10,000 jobs



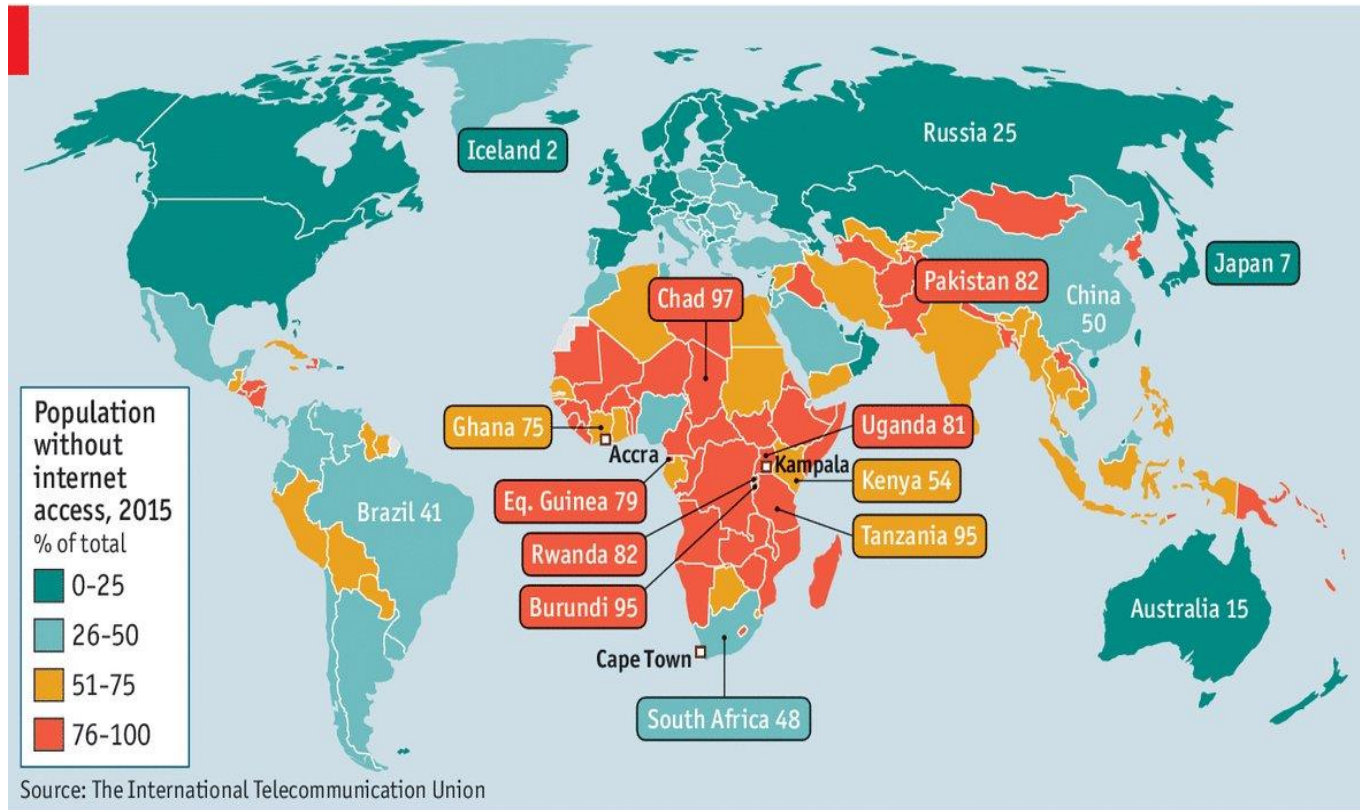
Source: Korean Government

Every country will require **some form of NEW DEAL** if we are to build a greener, cleaner and sustainable world.

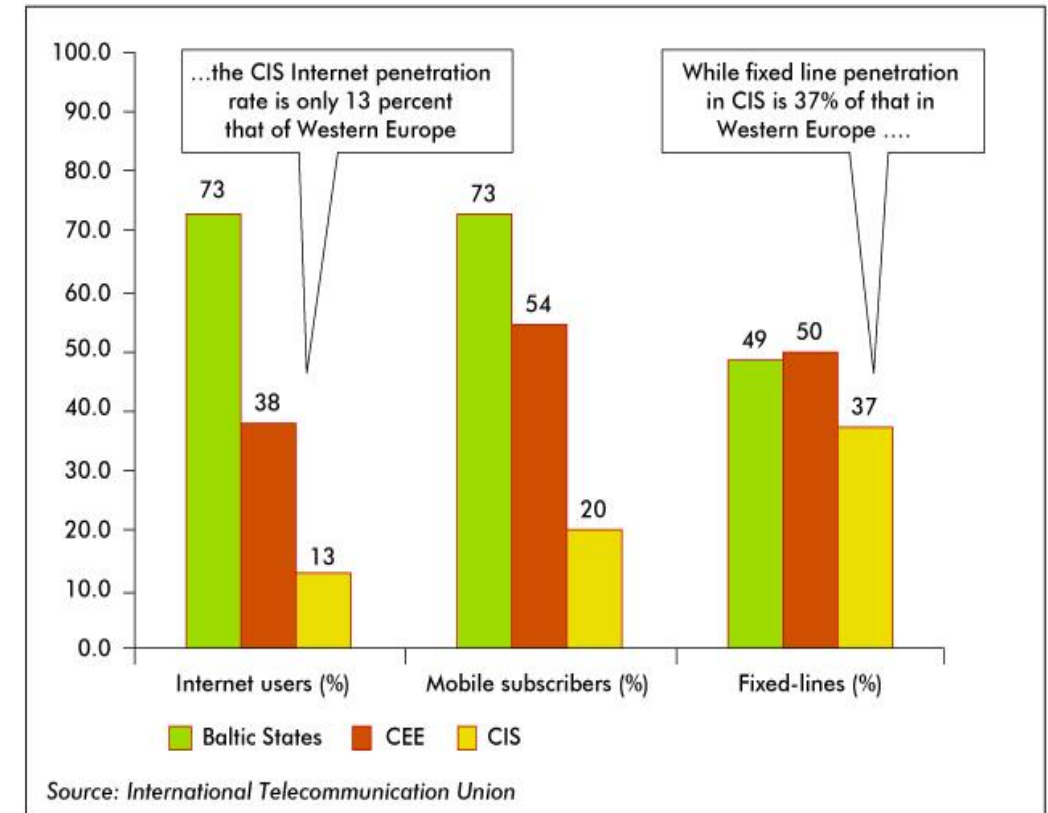
- System wide transformation of national economies built around digital and green projects.
- Requiring large scale funding – Digital projects, green power infrastructure, economy-wide reform programs and inclusive policies
- Critical to navigating the post-COVID-19 era, projected to become hybrid tact.

Witnessing an Emerging 4IR- Continental Drift

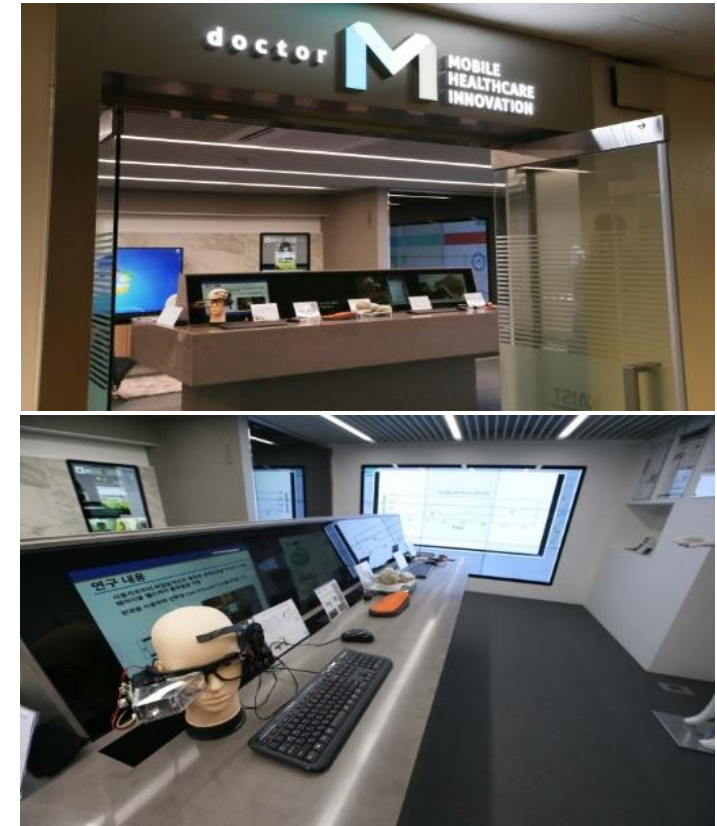
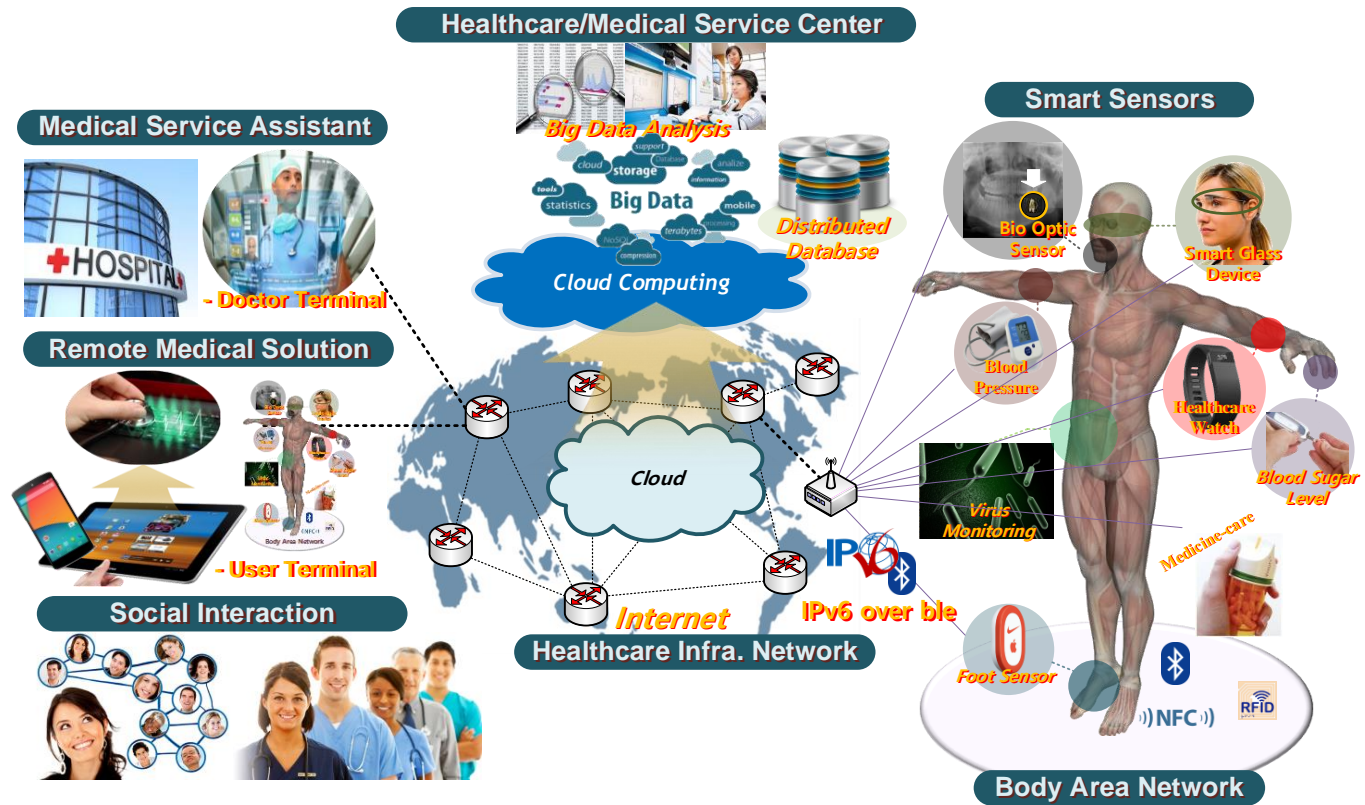
- The digital divide mean many economies are being left behind in the 4IR era



Economist.com



Covid-19, The 4ir and “Hybridtact” World

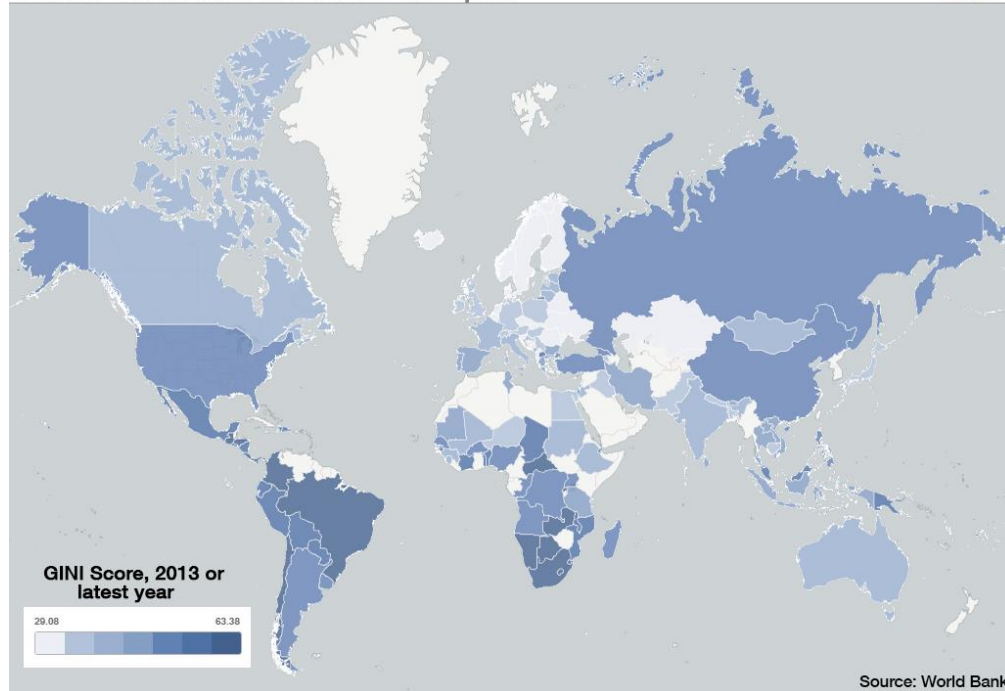


- Similar transformations in Education, Trade, Supply Chains, Industry 4.0, Banking, virtually every sector

Covid-19 and future of jobs

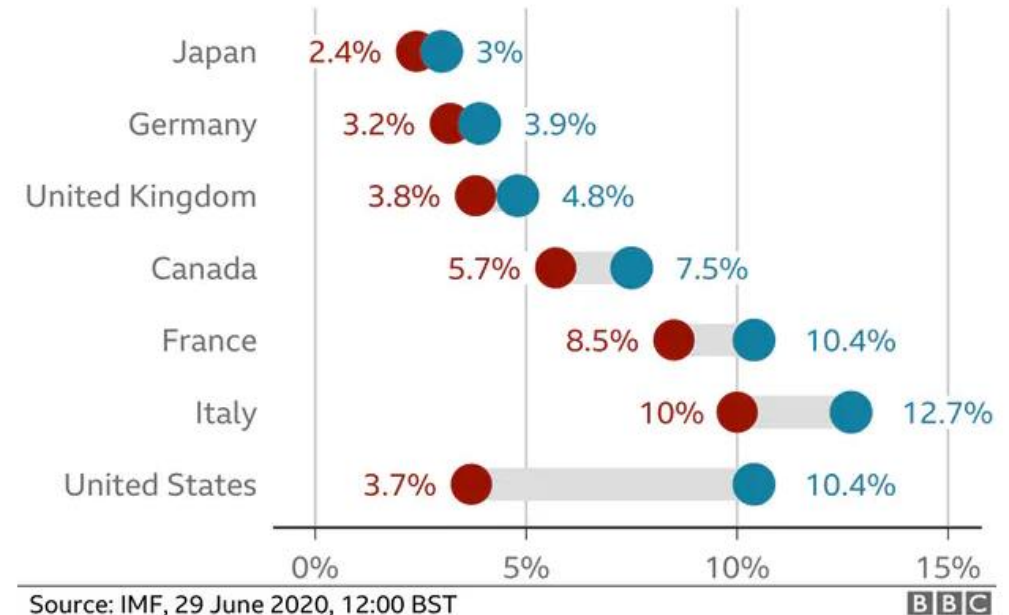
What does inequality look like around the world?

Darker countries are more unequal



World economies struggling with rising unemployment

Yearly unemployment rate change, 2019-2020

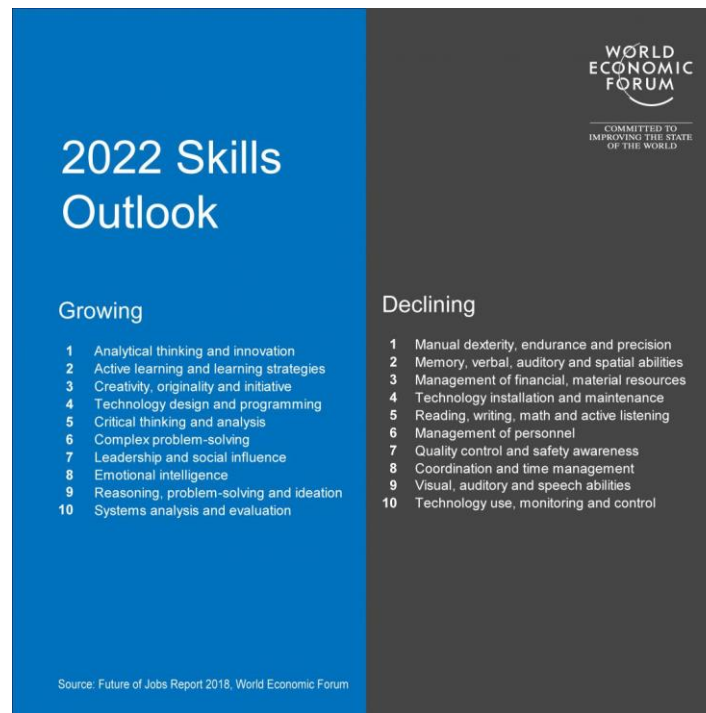


COVID-19 exacerbating existing economic inequality across the globe

New jobs and new skills for 4IR era

- However, such transformation implies that states will/should create new and better jobs

The “hybridtact transformation implies that countries will or should create new and better jobs. By working towards "a 4IR New Deal" with a focus on reskilling and revamping education systems and providing adequate social protection for the those adversely affected by the 4IR transformations, countries will be able to avert the simmering unemployment crisis.



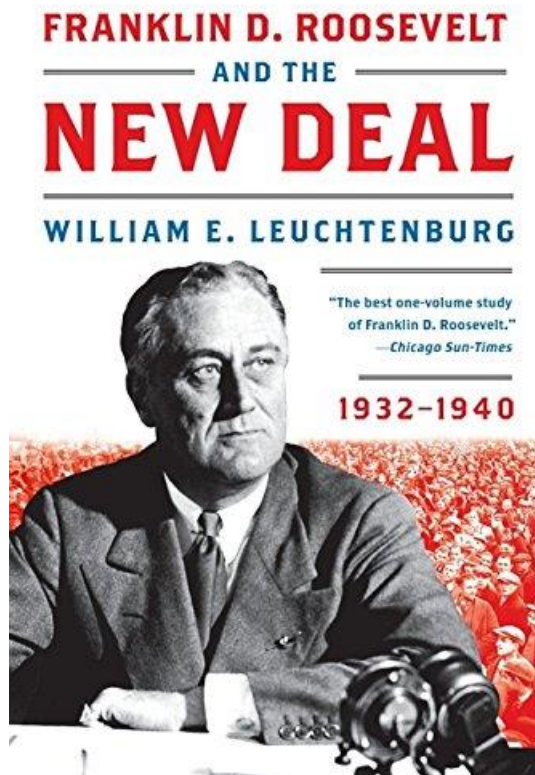
WEF 2018



WEF 2018

COVID-19, 4IR and the Role of Governments

- By embracing the original responsibilities of pathbreakers, governments will open new possibilities of the 4IR.



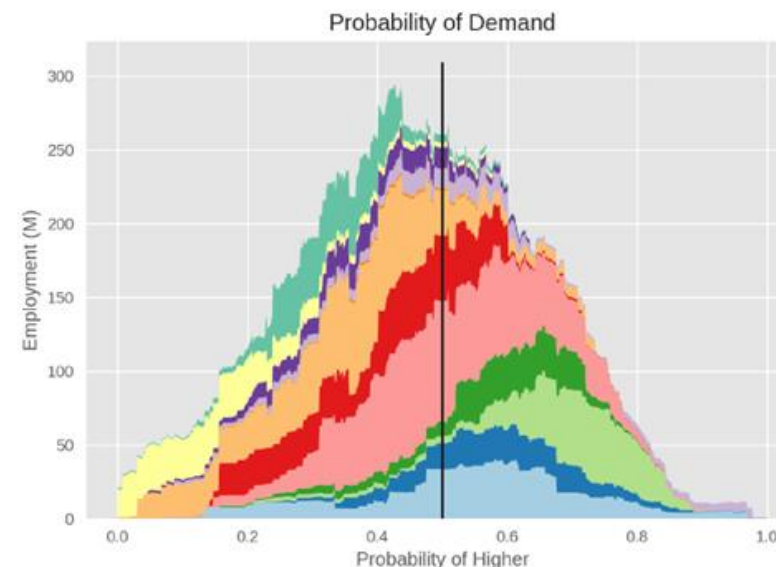
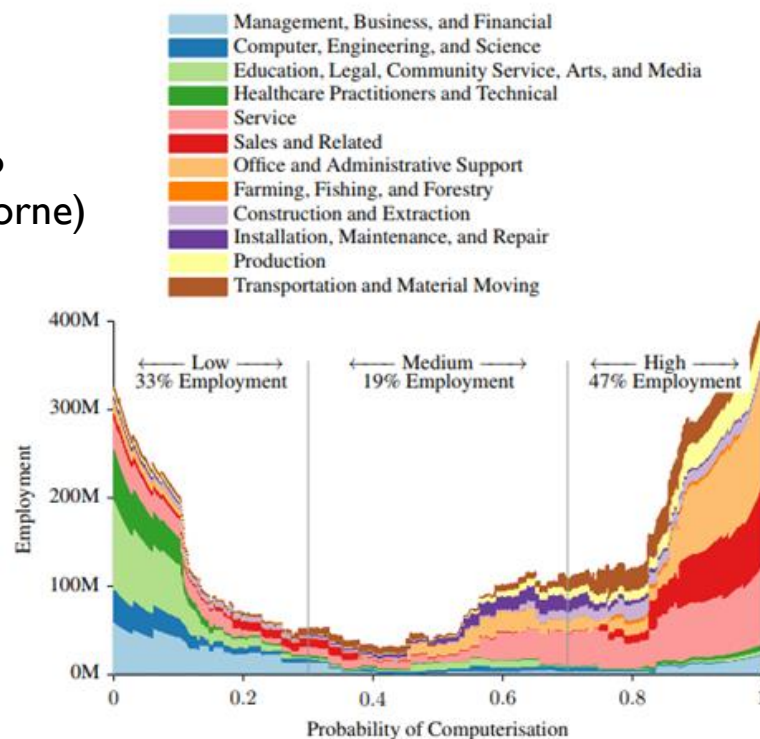
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Concerns with Job Displacement by AI

- Same for Oxford report: probability of computerization → probability of demand

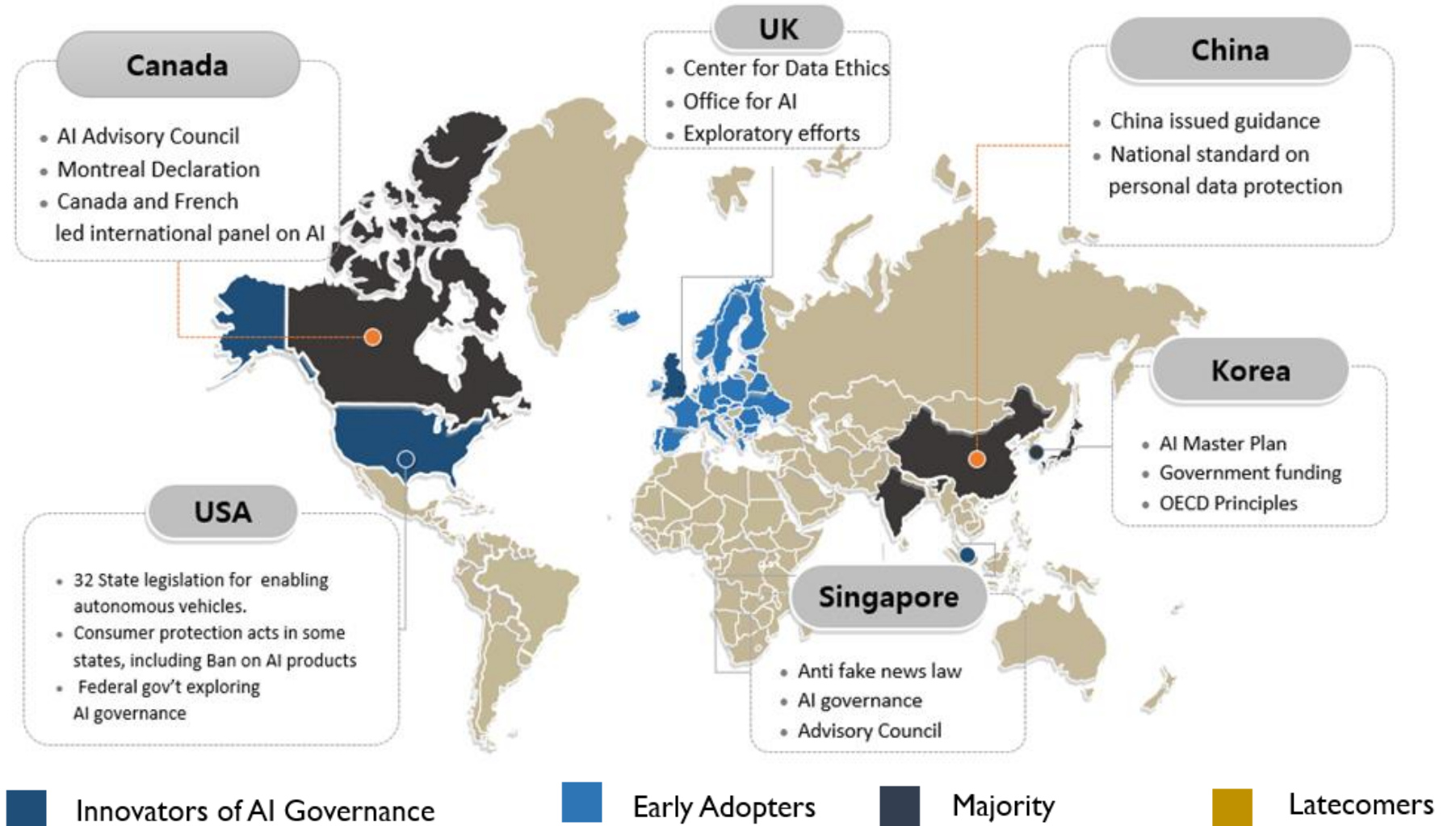
Oxford 2016
(Frey & Osborne)



Oxford 2018
(Bakhshi et al.)

4IR Technology Governance

- Assessing agility of AI governance in major countries (FIRIC 2019) → pioneering governance frameworks including coherent strategies and funding, ethical and responsible AI principles, innovative regulations



The Great Reset & Governance

- COVID-19 has opened up new potentials to transform the world based on the → Fourth Industrial Revolution (4IR).

Economic System thinking

- Realization of technological potentials for prosperity and sustainability in the post-COVID-19 world calls for the 4IR New Deal, a system-wide transformation of national economies based on 4IR technologies

4IR Governance & Social Security

- Underpinning the New Deal should be principles of social protection and responsible development of 4IR technologies

Strategies for Designing Sustainable Societies post-COVID-19 and the Role of 4IR



Thank you.

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