Industry 4.0 for Inclusive Development

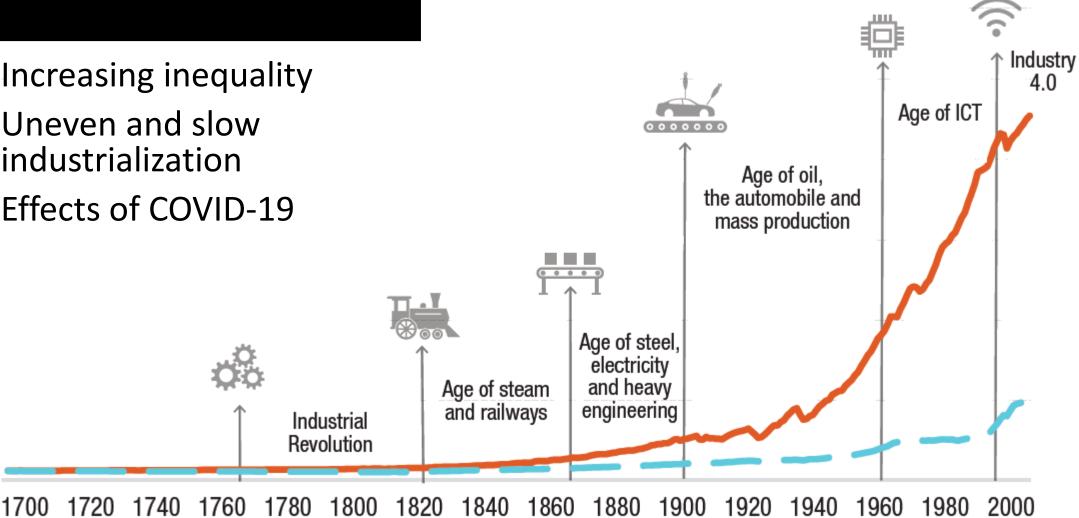
Introduction of the Issues Paper by Mr. Clovis Freire, Economic Affairs Officer, Science, Technology and Innovation Policy Section, DTL, UNCTAD



CSTD 2021-2022 Inter-sessional Panel 17 November 2021, Geneva and Online

The big picture

- Increasing inequality
- Uneven and slow industrialization
- Effects of COVID-19



Industry 4.0

Hardware

Robots, cobots, 3D printers, traditional machinery

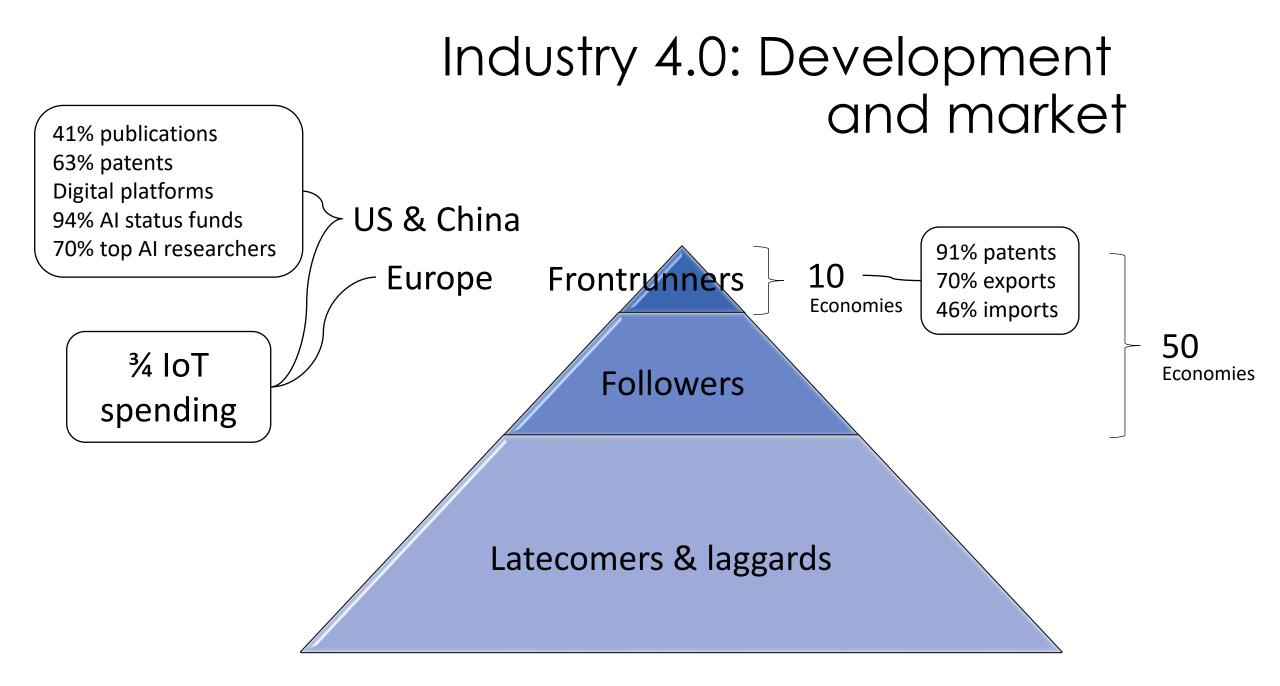
Connectivity

Industrial IoT, actuators and sensors

Software

ICTs, AI and Big data





Benefits

Productivity

INDUSTRIA 4.0

Energy efficiency

Sustainability



Industry 4.0 and inequalities

Jobs, wages and profits

- Profitability of firms & wages of skilled works
- Technological revolutions
 - Technological gaps

Specific challenges

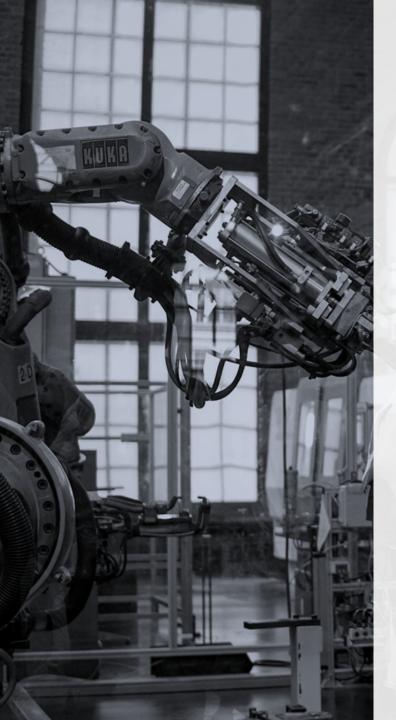
Loss of jobs

Reshoring

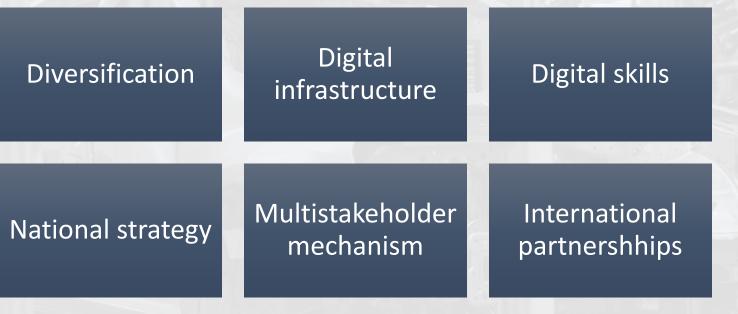
Protecting workers

Gender perspective





Tackling the preconditions for Industry 4.0





Fostering adoption of Industry 4.0 Raise awareness

Investment promotion plan

Financing

Protecting workers and easing workforce transitions

International collaboration

Share Knowledge & information

Design policies, strategies & implement initiatives

Build capacity

Promote technology transfer

Legal frameworks, guidelines, norms & standards

Conclusions

- Risk to perpetuate gaps
- Don't miss this new wave
- Diversification & Industry 4.0

Industry 4.0 for Inclusive Development

https://unctad.org/system/files/information-document/CSTD2021-2022_Issues01_Industry4.0_en_1.pdf

