

# Industry 4.0 and Just Transition

A brief introduction into IndustriALL's work on Industry 4.0







Working Conditions







## **BACKGROUND**

IndustriALL's four strategic objectives



Advance workers' rights



**Building union power** 



**Confront global capital** 



Sustainable industrial policy



## FROM RESEARCH TO ACTION I

IndustriALL: research + policy + strategic plan + action



- World conference on Industry 4.0 (October 2017)
  - Adoption of Action Plan
  - The Challenge of Industry 4.0 and the Demand for New Answers





- Trainings and workshops (in 2018/2019)
  - Company Networks (i.e. SKF)
  - Sectorial Activities (i.e., Global Conference ME)
  - Regions (Global South)

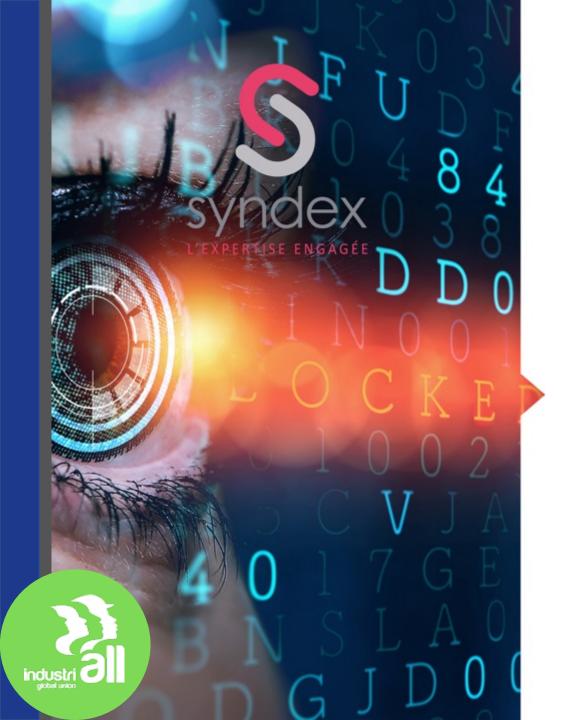


## FROM RESEARCH TO ACTION II

IndustriALL: research + policy + strategic plan + action

- New research and update in 2021
  - Working document May 2021: survey by sectors
  - Early 2022: Research document + presentation material (syndex)
- Now: develop + roll out strategy
  - In accordance with Congress action plan
  - internal debate + decisions
- Experts' meeting + work in the regions
  - Surveys
  - Trainings









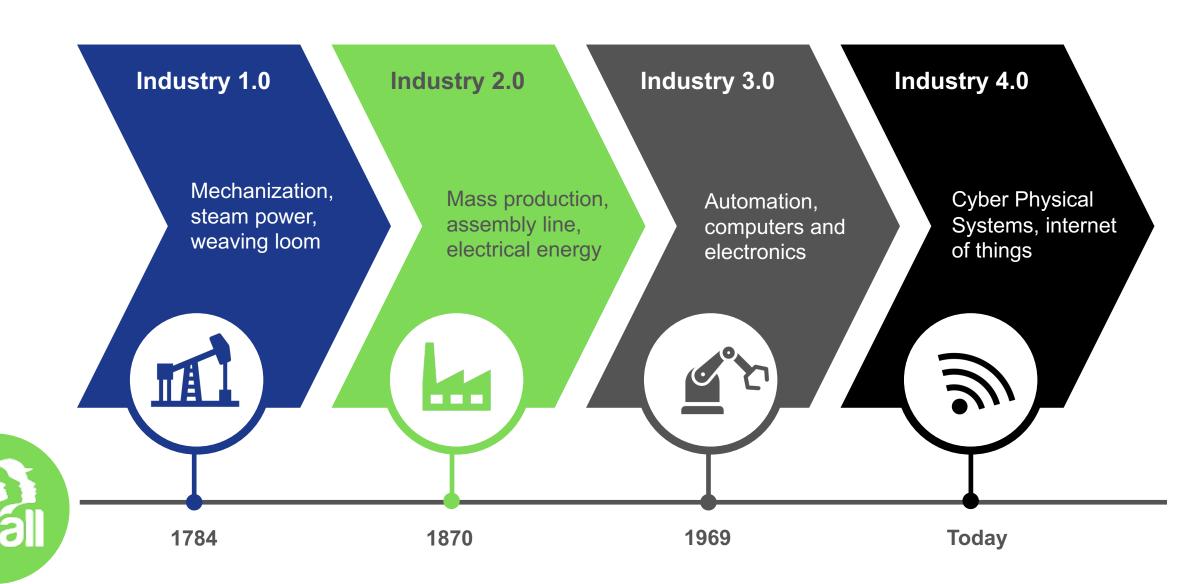


The future of work and industry 4.0 in the face of multiple drivers of change

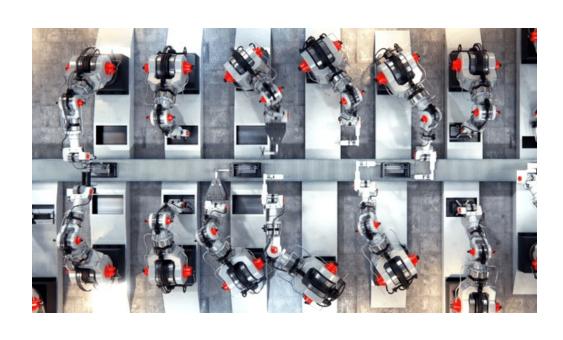
Research Results + political implications

## FROM STEAM POWER TO INDUSTRY 4.0

more than 2 centuries of continuous changes



### **ROBOTS TEACH EACH OTHER: CLOUD PICKING**

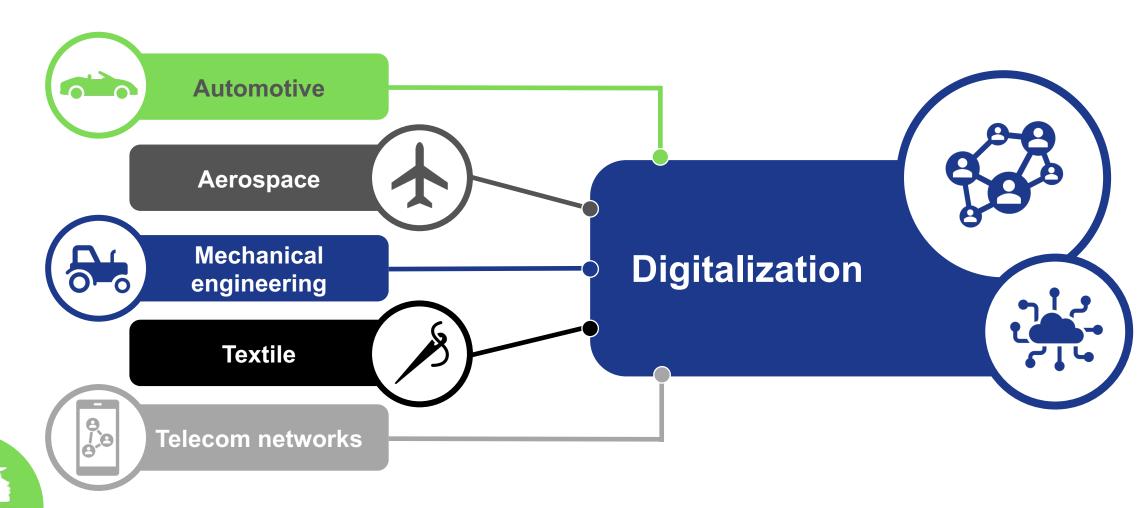


## Hand-Eye-Coordination with Robots (Google)

- 14 robots learned simultaneously within ~800.000 pick attempts to grasp varied objects from a bin; a monocular camera is used
- several robots exchange their experiences
- also unknown objects are being picked, deviations of camera position are being compensated due to the robustness of the used algorithms



## **EVERY SECTOR TRANSFORMED BY INDUSTRY 4.0 and DIGITALIZATION**



## JOBS AT RISK – WE WORK ON ANSWERS



**Techno pessimism** 

**Techno optimism** 



40 to 50 % jobs at risk with automation
(McKinsey, Frey & Osborne, Roland Berger)

10 % to 15 % at risk with automation
(OECD, France Stratégie)



- New jobs are being created (data analysts...).
- Some jobs are being transformed due to digitalization (maintenance...).
- Others are destroyed by digitalization.

### NATIONAL POLICIES: INDUSTRY 4.0 STRATGIES

The race is on: Competition on the back of workers?



## IndustriALL's APPROACH + ACTIVITIES

In this congress period happen:

- Capacity Building
  - Rollout research to staff + regions
- Tool Box: i.e. training material
  - Presentations, Trainings
- Part of overall "The Future of Work and Just Transition"
  - Added Research + Experts' meeting/s
- IndustriALL: Sectors + Regions enabled
  - Translate knowledge in action

