Technequality

Understanding the relation between technological innovations and social inequality



Maastricht University School of Business and Economics



TECHNEQUALITY Policy Brief No 1

Scenarios for the

Impact of Automation on Work in Europe



Contact

Technequality Prof. dr. Mark Levels Maa stricht University, School of Business and Economics, ROA Tongersestraat 49, 6211 LIM Maastricht Tel.:+3143 3883647 e-mai: <u>technequality-sbe@maastrichtuniversity, nl</u>

www.technequality-project.eu

© 2020 – All rights reserved. This publication, nor any part of it, may be reproduced or transmitted in any way, shape or form, or by any means, without explicit permission from the TECHNEQUALITY management board. All pictures were obtained from pxhere.com (2019) where they are distributed under the Creative Commons CCO public domain license.



TECHNEQUALITY has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no. 822330

Policy Brief #1

Integrates findings from:

- 1. Scenarios for the impact of intelligent automation on work (D1.2)
 - Thought experiment based on literature
 - 8 scenarios for impact of technology based on 3 key variables: 1-speed of innovation, 2-speed of adoption, 3-impact on tasks.
- 2. Labour market forecasting scenario's for automation risks (D1.4)
 - Econometric estimations (base: Cedefop Skills Forecast 2018)
 - 18 scenarios for number of jobs in 2030 based on 3 key variables:
 1-automation risk, 2-speed of adaptation, 3-barriers to adoption
 - +3 scenarios for low/med/high automation risk, and speed of adoption depends on relative wages, EPL is regional barrier to adoption.

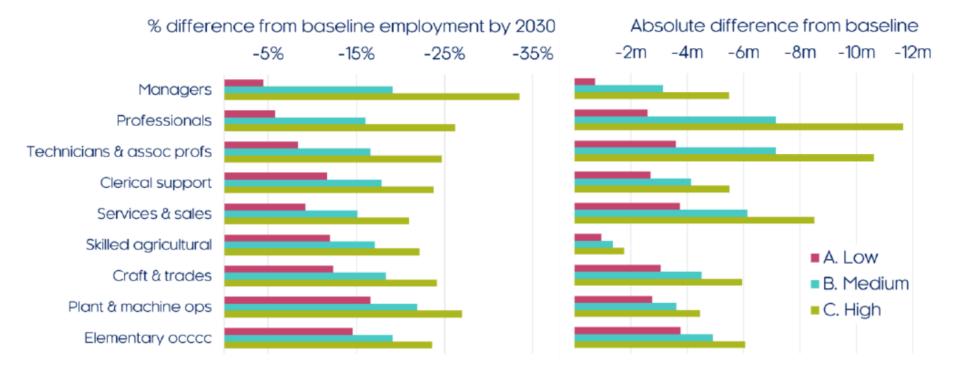
https://technequality-project.eu/files/d71fd-policybrief1v20pdf





Policy Brief #1

Figure 1: Additional scenario results (% difference from baseline by 2030 in EU-28 employment by ISCO-08 occupation)







Policy Brief #1

Total of 21 scenario's \rightarrow web app

Employment composition differences under autonomy

Technequality

Select a country and industry sector to explore Country EU 28 Industry group All industries Select scenario assumption combinations **Technical Potential Time to Full Deployment** Main Restriction Low Mid High 2035 2055 2075 Free New Demand 260000 7 240000 220000 200000 **1280000 £**60000 140000 Ē20000 Ě00000 280000 960000 L40000 20000 0 2018 Baseline 2030 Baseline 2030 Automation scenario

*
 *
 *
 Funded by the Ho
 Framework Progra
 *
 *
 *
 *

1 Managers 2 Professionals 3 Tech and Assoc Prof 4 Clerical Support 5 Services and Sales 6 Skilled Agricultural 7 Craft and Trades 8 Plant and Machine Op

Questions to the PAB

- 1. Could you send us back the signed NDA? (if you have not yet done so)
- 2. What are the most important policy messages?
- 3. How to reach out to policy makers/stakeholders?
- 4. How to reach out to the press?
- 5. Any specific tips on communication in times of covid-19?



