

Technical change, competitiveness, and employment

Citation for published version (APA):

Rubiconto, F. (2022). *Technical change, competitiveness, and employment: A sustainable perspective*. [Doctoral Thesis, Maastricht University]. Maastricht University. <https://doi.org/10.26481/dis.20221107fr>

Document status and date:

Published: 01/01/2022

DOI:

[10.26481/dis.20221107fr](https://doi.org/10.26481/dis.20221107fr)

Document Version:

Publisher's PDF, also known as Version of record

Please check the document version of this publication:

- A submitted manuscript is the version of the article upon submission and before peer-review. There can be important differences between the submitted version and the official published version of record. People interested in the research are advised to contact the author for the final version of the publication, or visit the DOI to the publisher's website.
- The final author version and the galley proof are versions of the publication after peer review.
- The final published version features the final layout of the paper including the volume, issue and page numbers.

[Link to publication](#)

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal.

If the publication is distributed under the terms of Article 25fa of the Dutch Copyright Act, indicated by the "Taverne" license above, please follow below link for the End User Agreement:

www.umlib.nl/taverne-license

Take down policy

If you believe that this document breaches copyright please contact us at:

repository@maastrichtuniversity.nl

providing details and we will investigate your claim.

Summary

Throughout the last decades, persistent unemployment and low economic growth have emerged as structural features in many European countries. Additionally, climate change and resource depletion represent some new cost burdens on the already strained economies of these countries. Despite the claims of the European Union on the promising role of environmentally-friendly technologies in prompting international competitiveness, fostering job creation, and kick-starting a sustainable growth path, a clear macroeconomic assessment of the issue at stake is still missing. This project intends to fill that gap.

Environmental innovation has numerous direct and indirect effects on demand, growth and employment. Due to the scarcity of data, the research uses new modelling and simulation techniques to investigate these effects. In particular, an increase in productivity in the less polluting sectors and an increase in the quality of environmentally friendly products are introduced and compared. The main goal is to identify the most suitable instruments for reducing emissions while sustaining growth and employment.