This repository contains the data and code that replicates tables and figures for the following paper:

**Title:** TECHNOLOGY-MINDED CLIMATE DELEGATES CAN DELAY SUSTAINABILITY TRANSFORMATIONS

**Authors**: Maximilian Nicolaus Burger1, Donia Mahabadi1,2, Björn Vollan\*,1

**Affiliations:** 1 Department of Economics, Philipps University Marburg, 35032 Marburg, Germany

2 Leibniz-Institute of Ecological Urban and Regional Development, Weberplatz 1, 01217 Dresden, Germany

**Correspondence:** \* bjoern.vollan@wiwi.uni-marburg.de

**ORCID:** Burger:0000-0003-2334-3885; Mahabadi: 0000-0002-2104-9247; Vollan: 0000-0002-5592-4185

**Classification:** Social Sciences

**Keywords:** Technological optimism, Carbon pricing, Climate delay, Mindset, Leverage points

**DOI:** [10.1038/s41893-024-01434-3](https://doi.org/10.1038/s41893-024-01434-3)

# Abstract

To transform global policies and actions on climate change, Meadows’ leverage framework highlights the need to identify deep leverage points such as mindset and paradigm shifts. Our analysis focuses on the mindset of climate delegates regarding the paradigm that technological innovation can achieve the 1.5 °C target without systemic changes. Surveying UNFCCC COP24 delegates reveals that respondents believing in technological solutions indeed support less stringent climate policies.

# License

The data and code are licensed under a Custom Data License Agreement. See **LICENSE.txt** for details.

# Software requirements

All analysis were done in Stata version 16:

* Add-on packages are included in **scripts/libraries/stata** and do not need to be installed by user. The names, installation sources, and installation dates of these packages are available in **scripts/libraries/stata/stata.trk**.

# Instructions

1. Save the folder ‘replication\_delegates’ to your local drive.
2. Open the master script ‘**run.do’** and change the global pointing to the working direction (line 20) to the location where you save the folder on your local drive
3. Run the master script ‘**run.do’** to replicate the analysis and generate all tables and figures reported in the paper and supplementary online materials

# Dataset

* Online-survey with COP 24 delegates: The dataset is named ‘delegates\_raw.dta’

# Descriptions of scripts

**01 – clean.do**

This script processes the raw survey data and prepares it for analysis.

**02\_analysis.do**

This script estimates the regressions in Stata, and creates figures and tables, displayed in the main text.

**03\_analysis\_som.do**

This script carries out all estimations and creates all figures and tables contained in the supplementary online material.