

Essays on Technological Change and its Environmental Impacts

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- Abstract: My thesis sheds new light on measuring technological change and its environmental impacts, in order to better understand to what extent current technological progress enables the achievement of sustainability targets. To this end, I make use of new opportunities for empirical economists arising from the widespread adoption of digital technologies. My contributions to this field of research include (1) insights into the usefulness of web-based information to measure technological change, and (2) a novel understanding of the link between digitalisation and energy use patterns, as well as changes in mobility, based on large-scale firm-level data.