

## Author's Accepted Manuscript

The Impact of Emissions-Based Taxes on the Retirement of Used and Inefficient Vehicles: The Case of Switzerland

Anna Alberini, Markus Bareit, Massimo Filippini, Adan L. Martinez-Cruz



[www.elsevier.com/locate/jeem](http://www.elsevier.com/locate/jeem)

PII: S0095-0696(16)30378-3  
DOI: <https://doi.org/10.1016/j.jeem.2017.12.004>  
Reference: YJEEM2090

To appear in: *Journal of Environmental Economics and Management*

Received date: 21 October 2016  
Revised date: 14 September 2017  
Accepted date: 11 December 2017

Cite this article as: Anna Alberini, Markus Bareit, Massimo Filippini and Adan L. Martinez-Cruz, The Impact of Emissions-Based Taxes on the Retirement of Used and Inefficient Vehicles: The Case of Switzerland, *Journal of Environmental Economics and Management*, <https://doi.org/10.1016/j.jeem.2017.12.004>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

# The Impact of Emissions-Based Taxes on the Retirement of Used and Inefficient Vehicles: The Case of Switzerland<sup>\*</sup>

Anna Alberini<sup>a</sup>, Markus Bareit<sup>b</sup>, Massimo Filippini<sup>c</sup>, Adan L. Martinez-Cruz<sup>d\*</sup>

<sup>a</sup>Professor at AREC, University of Maryland, and research affiliate of CEPE, ETH-Zurich.

<sup>b</sup>Senior researcher at CEPE, ETH-Zurich.

<sup>c</sup>Professor at CEPE, ETH-Zurich, and University of Lugano.

<sup>d</sup>Assistant Professor at CIDE, Mexico, and Research Affiliate at CEPE, ETH-Zurich. Circuito Tecnopolo Norte 117, Aguascalientes, AGS 20313, Mexico.

aalberin@umd.edu

mbareit@ethz.ch

mfilippini@ethz.ch

adan.martinez@cide.edu

\*Corresponding author.

## Abstract

Previous evaluations of emissions-based car taxes have estimated their impact on the shares or sales of new vehicles. In contrast, we ask whether taxes that penalize high emitters induce changes in the retirement of existing and inefficient vehicles. We exploit natural experiment conditions in Switzerland to analyze the impact of three different “bonus”/“malus” annual registration fee schemes implemented at the cantonal level. In the three schemes, the bonus rewards new, fuel-efficient vehicles. The malus is retroactive in canton Obwalden, i.e. it is charged on both new and existing high-emitting cars, but prospective in Geneva and Ticino. We

---

<sup>\*</sup> The authors acknowledge financial support from the SCCER CREST (Swiss Competence Center for Energy Research) which is supported by the Swiss Commission for Technology and Innovation (CTI) under Grant No. KTI. 1155000154.

متن کامل مقاله

دریافت فوری ←

**ISI**Articles

مرجع مقالات تخصصی ایران

- ✓ امکان دانلود نسخه تمام متن مقالات انگلیسی
- ✓ امکان دانلود نسخه ترجمه شده مقالات
- ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
- ✓ امکان دانلود رایگان ۲ صفحه اول هر مقاله
- ✓ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
- ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات