

The Effects of LCCs Subsidies on the Tourism Industry *

Christian Bontemps, Gianmaria Martini, Flavio Porta

▶ To cite this version:

Christian Bontemps, Gianmaria Martini, Flavio Porta. The Effects of LCCs Subsidies on the Tourism Industry * . 2024. hal-04709694

HAL Id: hal-04709694 https://hal.science/hal-04709694v1

Preprint submitted on 25 Sep 2024

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers. L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

The Effects of LCCs Subsidies on the Tourism Industry*

Christian Bontemps^{1,2}, Gianmaria Martini³, and Flavio Porta³

¹ENAC, École Nationale de l'Aviation Civile ²TSE, Toulouse School of Economics ³University of Bergamo

May 22, 2024

Abstract

This paper studies the relationship between air transportation, tourist flows, and subsidies to Low Cost Carriers (LCCs), a policy used by many national and local governments to stimulate tourist arrivals. To test the policy empirically, we use a two-stage empirical model. In the first stage, we estimate a structural model applied to air transport, and in the second stage, we link passenger arrivals to regional tourism flows. In this way, we use exogenous shocks (subsidies to LCCs) in airline supply to analyze the causal link with tourist arrivals. This model is applied to tourist flows from European regions to Italian regions from 2016 to 2018. Our counterfactual analyses consider two regimes for implementing subsidies to LCCs, following the literature coming from Oates (1993, 1999) contributions: a centralized, uniform policy for all regions and a decentralized policy in which subsidies are adopted by a single region. Our simulations reveal that subsidies to LCCs are effective in stimulating tourism, and that a centralized regime is more effective than a decentralized one. In fact, the latter generates externalities in regions that do not implement the subsidy, making the decentralized policy economically sub-optimal and unsustainable.

JEL classification: R41, R48, O18

Keywords: Air transportation and tourism, structural model

^{*}We would like to thank Federico Boffa, Paula Navarro, Salvatore Piccolo, Patrick Rey for many helpful comments. Christian Bontemps acknowledges funding from the French National Research Agency (ANR) under the Investments for the Future program (Investissements d'Avenir, grant ANR-17-EURE-0010).