

## New Directions in Productivity Measurement and Efficiency Analysis

### Counting the Environment and Natural Resources

Edited by Tihomir Ancev, School of Economics, University of Sydney, M.A. Samad Azad, Tasmanian School of Business and Economics, University of Tasmania and School of Economics, University of Sydney, Australia and Francesc Hernández-Sancho, University of Valencia, Spain

This book explores novel research perspectives on the intersection of environmental/natural resource economics and productivity analysis, emphasizing the link between productivity and efficiency measurement and environmental impacts. The purpose of the book is to present new approaches and methods for measuring environmentally adjusted productivity and efficiency, and for incorporating natural resources in standard national accounting practices. These methods are applicable in many contexts, including air and water pollution, climate change, green accounting, and environmental regulation

'I congratulate the Editors and contributors for focusing on a challenging issue and arranging contributions from different countries on a range of productivity and efficiency issues through the lens of environmental sustainability and natural resource use efficiency. The book provides valuable insights for analysts, students of economics, and policymakers.'

– Irfan Ahmad Baig, Australian Journal of Agricultural Resource Economics

'... this book provides a comprehensive coverage of methods and applications for measuring environmentally adjusted efficiency and productivity and shadow prices of pollutants. This volume will be a useful reference for those scholars and policy professionals interested in studying the abatement of environmental pollution in the production processes, and thereby in environmental policy.'

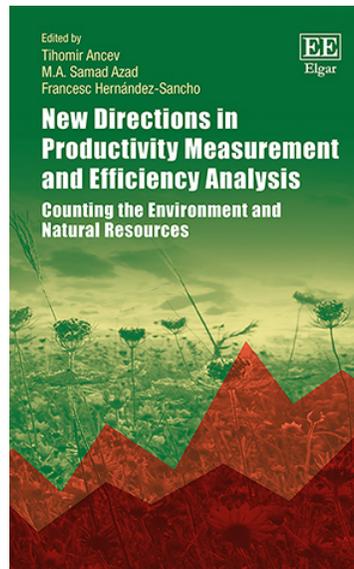
– Surrender Kumar, Journal of Economic Literature

'Consistent growth of productivity is key to improving standards of living, but not if it comes at the expense of environmental quality. This important and timely book provides a compact yet rigorous survey of methods for measuring environmentally adjusted productivity with several chapters demonstrating methodological advances. Empirical applications range from total factor productivity in a large panel of OECD countries, to productivity of shrimp farming in Bangladesh, and crop-farming in southern Australia where deteriorating weather conditions had masked productivity growth.'

– Alan Randall, The Ohio State University, US and The University of Sydney, Australia

'The international community has signed up to the Sustainable Development Goals and economic measurement has to better gauge how the economy and the environment interact. Productivity is a core economic indicator. Yet, in its traditional set-up, it takes no account of environmental services provided to the economy, such as natural resource flows or emission sink services. This book brings together the latest research to account for these environmental services and does so in an authoritative way. An excellent overview of the theoretical foundations blends with extensive references to the literature and many empirical examples.'

– Paul Schreyer, OECD, France



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