

Developing scientific capacity in the Global South

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Valorisation Addendum

In accordance with article 23.5 of the Regulation governing the attainment of doctoral degrees at Maastricht University, this section discusses the valorisation opportunities of this doctoral thesis. The main ambition of this thesis is to provide insights to create and manage policies that stimulate the development of scientific capacity in lower income countries. A core target group of this research consists of policy makers in developing countries and international agencies that give advice on science, technology and innovation policies for low and middle-income countries.

In this regard, the sixth chapter of this thesis, about the scientific system in Latin America and collaborations with industry, was shared with some of the directors of *Inter-American Development Bank (IDB)* and the *Ibero-American Programme on Science and Technology for Development (CYTED)*. After some interaction with them, my co-author (Fernando Vargas) and I produced an addendum to the paper, requested by *IDB*, that tried to understand if two specific technologies (Plant Breeding and Bioleaching) have the potential for knowledge-based growth in Latin America.

Currently, I am also using some of the knowledge and techniques acquired and developed during the thesis to work on two research projects at SPRU (Science Policy Research Unit, University of Sussex): 1) A Department for International Development (DFID) project that seeks to develop an understanding of knowledge systems and what works to promote science, technology and innovation in Kenya, Rwanda and Tanzania; 2) An UK Research & Innovation (UKRI) / United Nations Development Programme (UNDP) joint report that aims to study how science, research, innovation can best contribute to meeting the Sustainable Development Goals for developing countries.

Other target group are corporations that create and provide services related with science and technology indicators (e.g. *Clarivate*, *Elsevier*, *Times Higher Education World University Rankings*, *ARWU Ranking* and consultancy companies that create policy/research reports using S&T indicators). During my thesis, some interactions were done with *Clarivate* in order to discuss the usage of a citation-based evaluation tool they own (*InCites*).

All original research in this dissertation was (is to be) presented in international conferences and published in peer-reviewed journals or book chapters. Chapter two was presented in a workshop in Stellenbosch (2016) entitled “Science and development: Growth, expansion, and the role of the university system in South Africa”, DRUID16 conference (Copenhagen), STI Conference 2016 (Valencia), and is published in *Research Policy*, a scientific journal well known for examining empirically and theoretically the interaction between innovation, technology and research with a policy focus.

The third chapter was presented in STI2017 conference (Paris), WICK2017 workshop (Turin) and is published in *Research Evaluation*, a journal focused on the evaluation of activities concerned with scientific research, technological development and innovation.

The first version of chapter four was presented in Cape Town on December 11, 2017, and a more advanced version in Globelics 2018 (Accra). This chapter is to be included as a book chapter in a book published by *Springer* on “Africa and the Sustainable Development Goals”. This book is part of the agenda of the *World University Network Global Africa Group*, which aims to enhance the opportunities for building global research collaborations, innovations and impact in support of Africa’s development agenda.

The sixth chapter was presented in Globelics 2015 (Havana), and it is published in the *Journal of Technology Transfer*, a scientific journal that emphasizes research on strategies of knowledge and technology transfer between academia and industry.

Finally, the fifth chapter was presented in two internal workshops in UNU-MERIT and SPRU, and is yet to be presented in other international conferences.

The research also targets the readership in journals and blogs. As part of the dissemination efforts, a section of the first chapter of this thesis was discussed in a short video interview, available on *Youtube*, and was also transformed in a research report published in the *UNU-MERIT* website. I intend to follow a similar approach for my fifth chapter on health research in Africa.