



Introduction to the BRIDGE Project: Building Resilience In a Dynamic Global Economy

Dr Pablo Salas

C-EENRG, Department of Land Economy, University of Cambridge, UK

www.bridgeproject.net www.ceenrg.landecon.cam.ac.uk/research/the-bridge-project







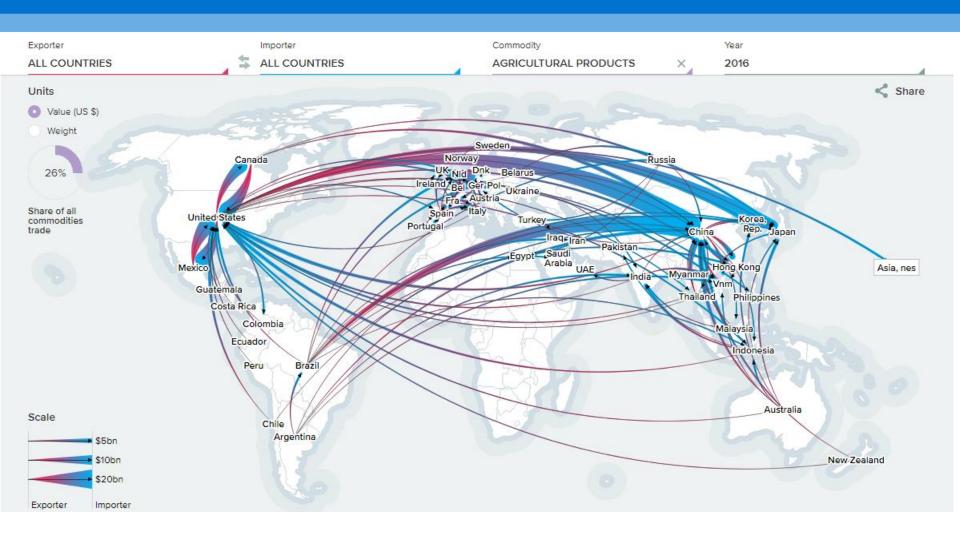








Global trade of agricultural products

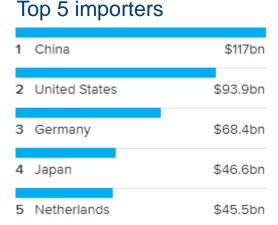




Global trade of agricultural products









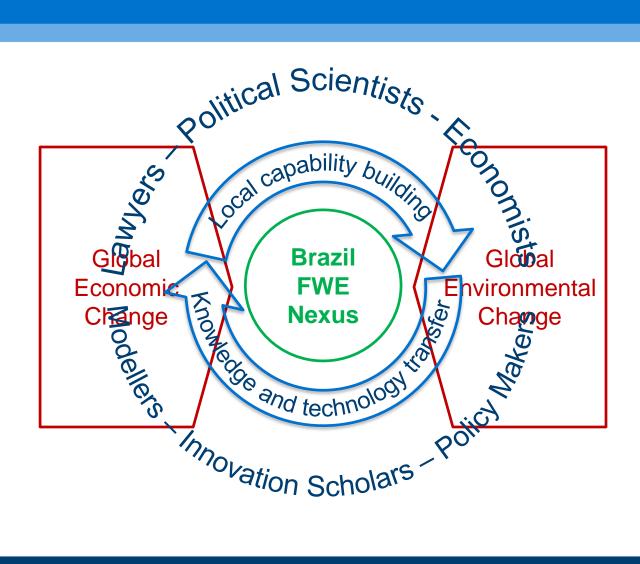
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When you're almost 800 Billion Dollars a year down on Trade, you can't lose a Trade War! The U.S. has been ripped off by other countries for years on Trade, time to get smart!

2:23 PM - 2 Jun 2018



Building Resilience around the Nexus in Brazil





Team Leaders

- J-F Mercure

Jorge Viñuales

Baltazar Guerra

- Neil Edwards

Hector Pollitt

Radboud University



Netherlands

CEENRG

Cambridge Centre for Environment inergy and Natural Resource Governance







UK

Brazil

UK

UK





Team at Radboud University



Dr. Jean-Francois Mercure
J.Mercure@science.ru.nl



Dr. Sören Lindner S.Lindner@science.ru.nl



Florian Knobloch
F.Knobloch@science.ru.nl

The team at Radboud University is led by **Jean-Francois Mercure**, who is Assistant Professor in Energy, Climate and Innovation, and the **Scientific Director of BRIDGE**.

The team focuses on quantitative modelling in **energy**, **land-use**, **economics**, **innovation and climate change**.



Team at the Open University



Dr. Neil Edwards neil.edwards@open.ac.uk



Dr. Philip Holden philip.holden@open.ac.uk

The team at the Open University is led by **Neil Edwards**, who is Associate Professor in Earth System Science at The Open University.

The team focuses on development and use of climate, land surface and carbon cycle models and data.



Team at Cambridge Econometrics



Hector Pollitt hp@camecon.com



Unnada Chewpreecha uc@camecon.com

The team at Cambridge Econometrics is led by **Hector Pollitt**, who is the Director and the Head of International Modelling at Cambridge Econometrics.

The team focuses on the integration of the models developed in BRIDGE into the macroeconomic platform E3ME-FTT.



Team at C-EENRG, University of Cambridge



Prof. Jorge Viñuales jev32@cam.ac.uk



Dr. Maria Augusta Paim map75@cam.ac.uk



Dr. Pablo Salas pas80@cam.ac.uk

The team at the University of Cambridge is led by **Jorge Viñuales**, who is Professor of Law and Environmental Policy at Cambridge and is the Director of the Centre for Environment, Energy and Natural Resource Governance (C-EENRG).

The team focuses on mapping complex regulatory systems, politico-legal networks and strategic policy-making in the areas of the Nexus in Brazil.



Team at UNISUL

Prof. Baltazar Guerra baltazar.guerra@unisul.br



Prof. Rafael Faraco Rafael.Faraco@unisul.br

Prof. Celso Albuquerque Celso.Albuquerque@unisul.br







Issa Berchin issaberchim@gmail.com



The team at the Universidade do Sul de Santa Catarina is led by **Baltazar Guerra**, who is Professor of Management and Director of the Research Group in Energy Efficiency and Sustainability (Greens) at UNISUL.

The team focuses on **public engagement and outreach**, fostering the dialogue of key public and private actors and decision-makers in the area of food, water and energy in Brazil, and on **sustainable pilot projects** at the community level.



Technology Transfer



Dr. Jessica Ocampos jao37@cam.ac.uk



Dr. Pablo Salas pas80@cam.ac.uk

Dr. Jessica Ocampos is an Associate Consultant at Cambridge Enterprise (the technology transfer office of the University of Cambridge) and the Director of Camnexus, a spin-off of the University of Cambridge, created to support innovation in and technology transfer to developing regions, especially Latin America.

Dr. Ocampos is supporting the **knowledge and technology transfer between Brazil** and the UK, with especial focus on the **development of local innovation capacity** for technological development of water, food and energy related technologies.



Team Interactions

Biophysical modelling, Climate change



(Lead: Neil Edwards)

Land-use, energy, diffusion of technology, emissions

Radboud University

(Lead: J-F Mercure)

Macroeconomics



(Lead: Hector Pollitt)

WP2 Quantitative modelling





(Lead: Jorge Viñuales)



policy, policy engagement

Environmental law.



Policy sphere

WP3 Policy Engagement

Pilot action projects, Dissemination, public engagement

(Lead: Baltazar Guerra)



Linking UK-Brazil technology transfer offices



(Lead: Pablo Salas & Jessica Ocampos)

WP6 Technology Transfer

WP4-5 Engagement & Pilot Projects



Special Guests - CISL



Eliot Whittington
Director of The Prince of Wales's Core

Director of The Prince of Wales's Corporate Leaders Group, Cambridge Institute for Sustainability Leadership, University of Cambridge.



Dr Gemma Cranston

Programme Director, Natural Capital Portfolio, Cambridge Institute for Sustainability Leadership, University of Cambridge.

Special Guests - Brazil



Dr Luiz Alberto da Cunha BustamanteLegislative Advisor of the Brazilian Senate and Chevening Scholar at Queen Mary University of London.



Pedro Tiê Cândido Souza
Head of the Environment and Climate Change Section at the Brazilian Embassy in London.

Special Guests – Food and Water Experts



Prof. Howard Griffiths

Co-Chair of the Cambridge University Strategic Initiative in Global Food Security and Professor of Plant Ecology, Department of Plant Sciences, University of Cambridge.



Claudio Bacigalupi

Head of Sector Water at European Commission Directorate for Development Cooperation.

Special Guests – Benny Dembitzer



Benny Dembitzer

Managing Director of Grassroots Africa.

Member of the team awarded the 1985 Nobel Peace Prize on behalf of IPPNW (International Physicians for the Prevention of Nuclear Weapons)











Food-Water-Energy Nexus Workshop

Newnham College, Cambridge, UK

26th of June 2018

- 9:00 9:30 Registration.
- 9:30 10:40 Introduction to the Food-Water-Energy Nexus and the BRIDGE Project

09:30 - 09:40	Dr Pablo Salas, C-EENRG, University of Cambridge.
	Welcome message and introduction to the BRIDGE project.

- 09:40 10:00 Dr Jean-Francois Mercure, Radboud University, Netherlands. Overview of the EWF Nexus science.
- 10:00 10:20 Prof Baltazar Andrade Guerra, UNISUL, Brazil. The Brazilian Nexus, stakeholder engagement and pilot action projects.
- 10:20 10:40 Eliot Whittington, CISL, University of Cambridge. Introduction to the Cambridge Institute for Sustainability Leadership.
- 10:40 11:00. Coffee break.
- 11:00 12:15 Assessing Nexus complexities throughout policy analysis and sectoral modelling.
 - 11:00 11:25 Dr Maria Augusta Paim, C-EENRG, University of Cambridge. Hydrological risk in Brazil and diversification of the electricity mix.
 - 11:25 11:50 Dr Neil Edwards, Open University. Climate and biodiversity modelling in South America.
 - 11:50 12:15 Dr Soeren Lindner, Radboud University, Netherlands. Modelling land use change with FTT: Agriculture.
- 12:15 13:20. Lunch
- 13:20 15:20 Food security in a complex Nexus network.
 - 13:20 13:50 Prof Howard Griffiths, Plant Sciences, University of Cambridge. The challenge of an evergreen revolution.
 - 13:50 14:20 Dr Luiz Alberto da Cunha Bustamante, Queen Mary University of London. The new Brazilian biofuels policy: RenovaBio.
 - 14:20 14:50 Dr. Rafael Ávila Faraco, Dr. Celso Lopes de Albuquerque Junior, João Marcelo Pereira Ribeiro, UNISUL, Brazil. Food stability, urban agriculture practices as initiatives for mitigation and adaptation to climate change and BRIDGE's pilot module
 - 14:50 15:20 Issa Ibrahim Berchin, UNISUL, Brazil. Education for sustainable development and the WEF Nexus: a Sustainable Development Goals' perspective
- 15:20 15:40. Coffee break.





















- 15:40 17:40 Nexus networks and stakeholders beyond academia. Linking the Food-Water-Energy Network and sustainable development
 - 15:40 16:10 Claudio Bacigalupi, European Commission Directorate for Development Cooperation. The NEXUS approach as a way to address water efficiency in development actions
 - 16:10 16:40 Dr Gemma Cranston, CISL, University of Cambridge. The Nexus Network.
 - 16:40 17:10 Secretary Pedro Tiê Cândido Souza, Embassy of Brazil in London. The integrated approach to sustainable development: the Brazilian experience
 - 17.10 17.40 Benny Dembitzer, Managing Director of Grassroots Africa.

 The Death of Empathy
- 17:40 18:00. Closing remarks



BRIDGE: Building Resilience In a Dynamic Global Economy: Complexity across scales in the Brazilian Food-Water-Energy Nexus

The BRIDGE project aims to develop a framework of analysis and policy engagement to improve the resilience of the Brazilian Food-Water-Energy (FWE) nexus to global environmental and economic change, in close cooperation with Brazilian policy makers and academic community. It combines established UK expertise and specifically developed, state-of-the-art analytical capacity in socio-economic and environmental modelling to build a robust environmental policy assessment methodology for the Brazilian FWE nexus in the context of global change.

BRIDGE is a project funded by the Newton Fund, and is led by the University of Cambridge (UK), University of the South of Santa Catarina UNISUL (Brazil), Radboud University (Netherlands), Cambridge Econometrics Ltd (UK) and The Open University (UK).

For more information about the project, please visit our website:

https://www.ceenrg.landecon.cam.ac.uk/research/the-bridge-project









