

Research on Tap: Global Development Policy

February 12, 2018

Labor Mobility and Human Development

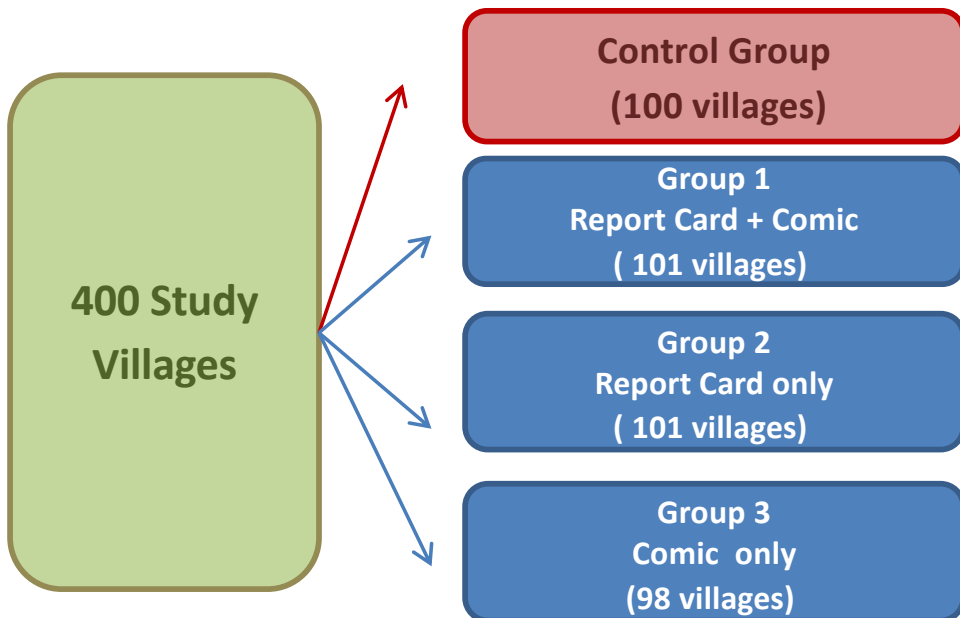
Samuel Bazzi

*Assistant Professor
Economics, CAS*

Female Labor Migration and Poverty Reduction



Information Sharing Service: RCT



Skills and Livelihoods

Kehinde Ajayi

*Assistant Professor
Economics, CAS*



Boston University Office of the Vice President and Associate Provost for Research



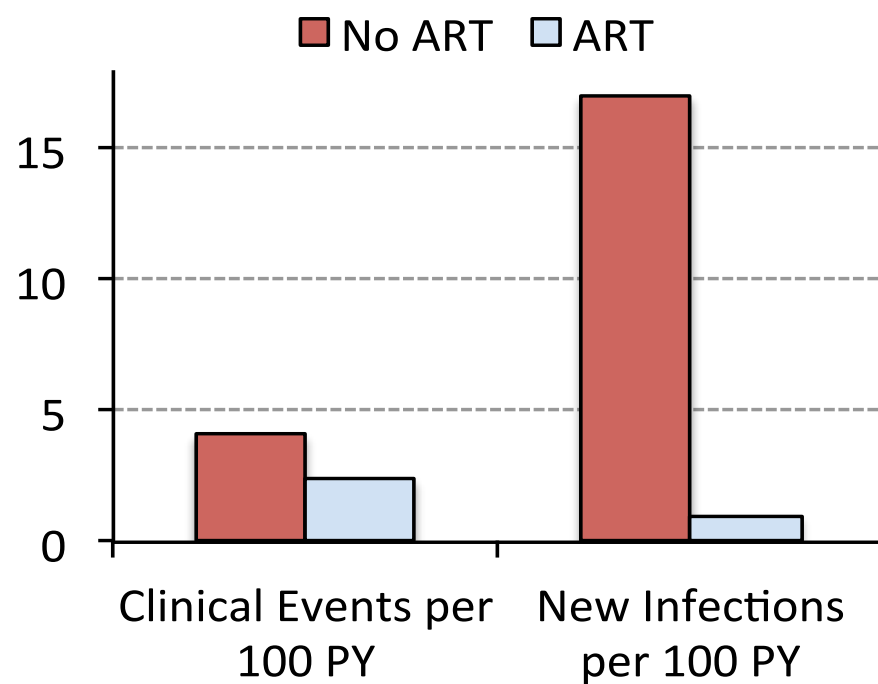
Beliefs about HIV in the Age of Mass Treatment: Evidence from Rural South Africa

Jacob Bor

*Assistant Professor
Global Health and Epidemiology, SPH*

HIV treatment is highly effective prevention

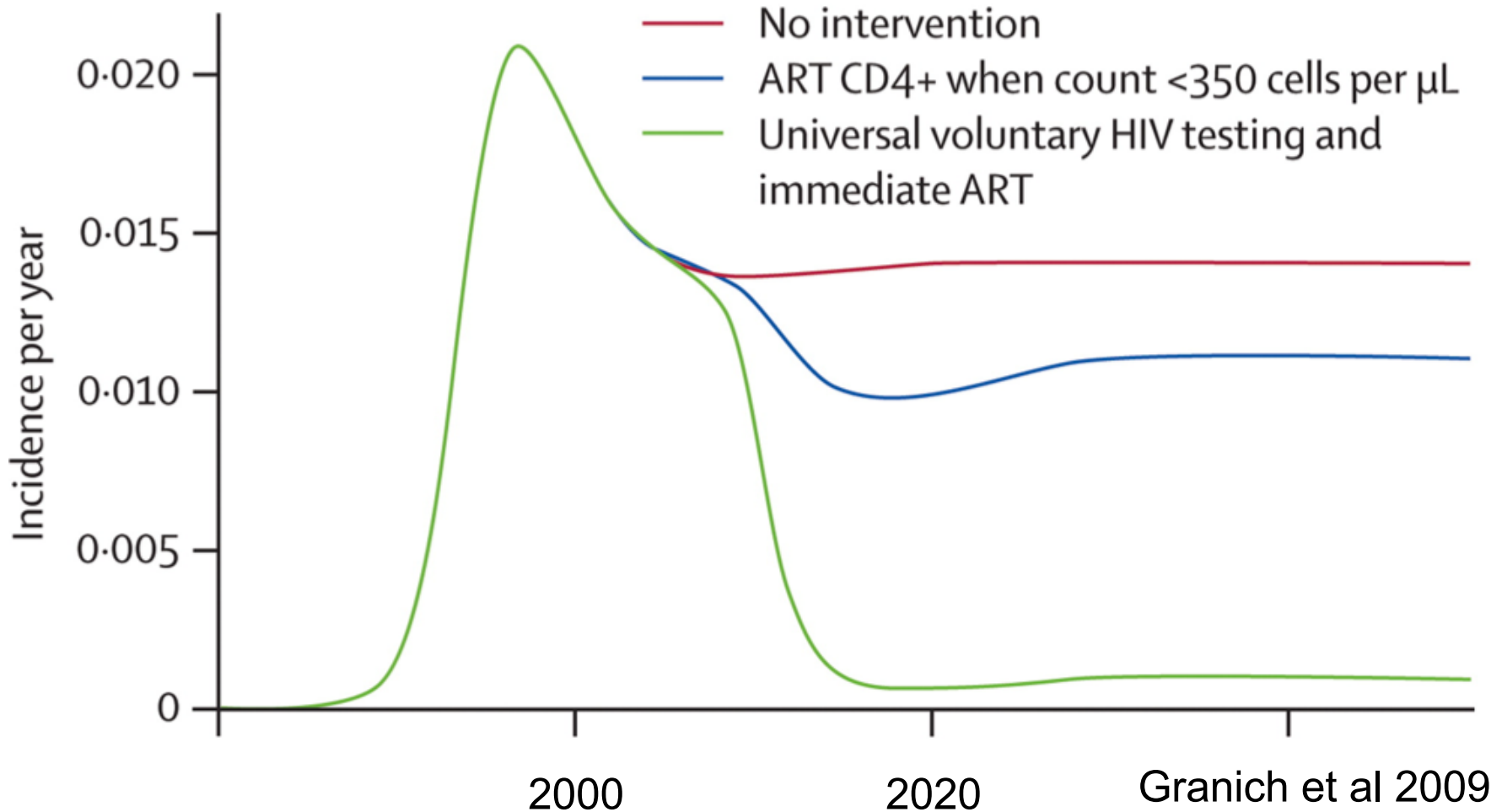
- HPTN-052 trial: 96% reduction in risk
- PARTNERS cohort: 0 infections in 58,000 sex acts
- WHO 2015 Guidelines: “universal test-and-treat”



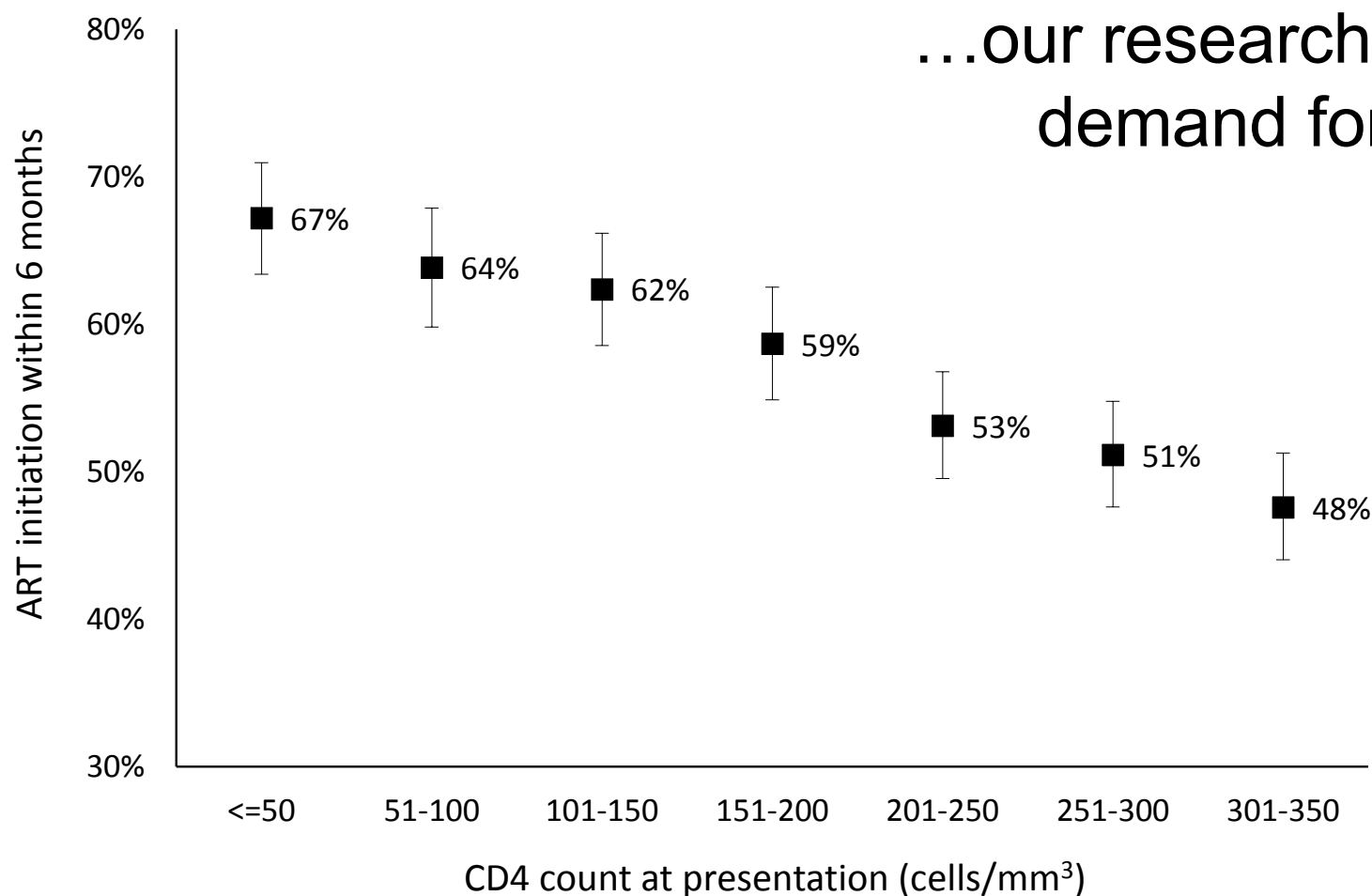
The primary rationale for “test-and-treat” is prevention.

Clinical v. prevention benefits of ART in patients with CD4 > 500.

Models predict “test-and-treat” could end AIDS



But only if people test for HIV and start ART early in disease progression

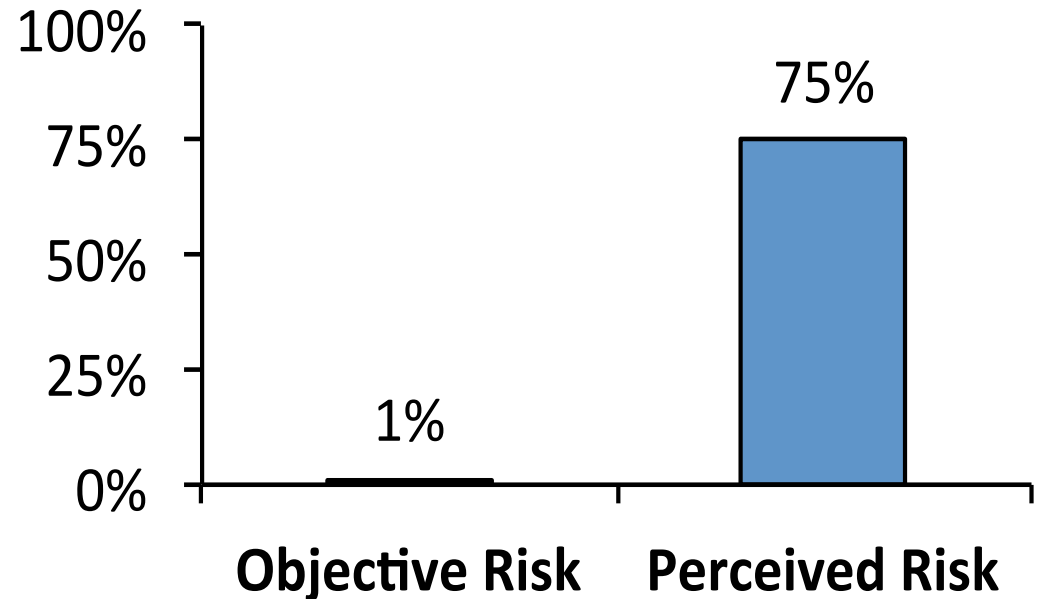


Bor, et al.
Failure to initiate HIV treatment at high CD4 counts.
TMIH, 2018.

A major knowledge gap

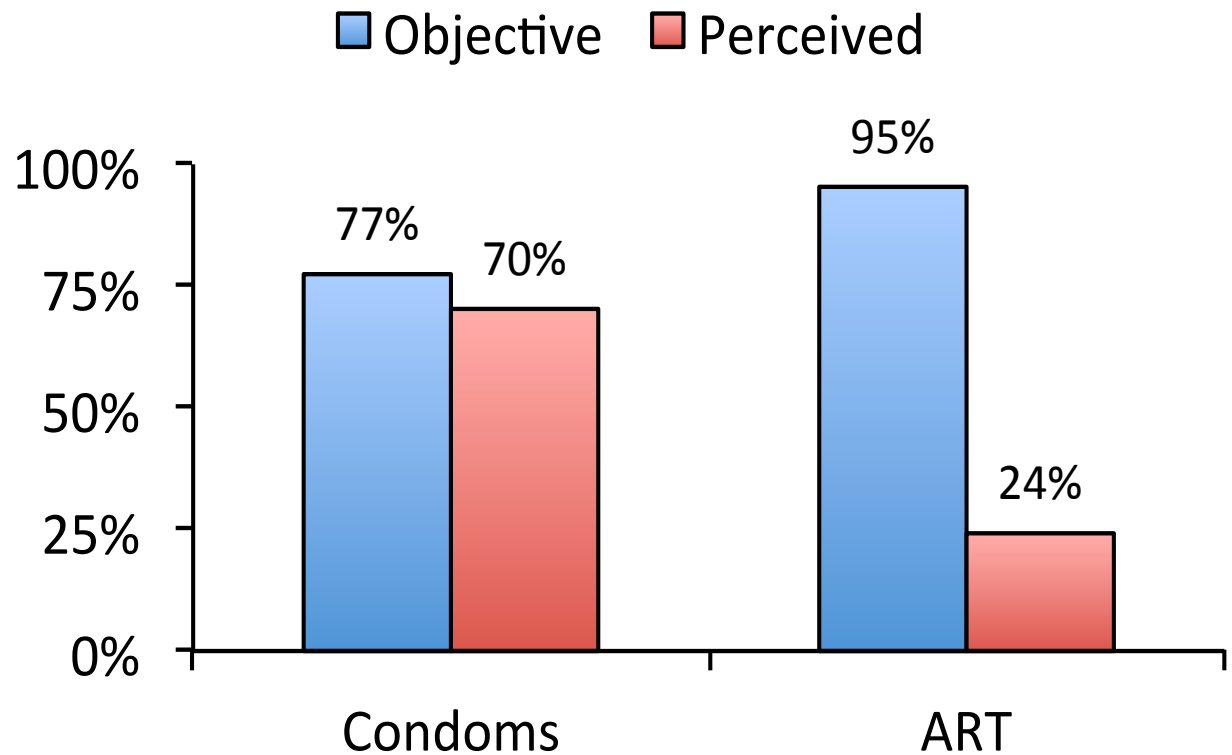
We surveyed 425 young adults in rural South Africa, Fall 2017

Objective v. perceived risk of transmitting HIV while on ART and virally suppressed



People underestimate the prevention benefits of ART

Objective v. perceived efficacy of condoms and ART in reducing HIV transmission risk



Mahesh Karra

*Assistant Professor
Global Development Policy, Pardee*

My Work

How I classify my work:

- International health and development economics

My research focus:

- Relationships between population, health (maternal and child health), and economic development in low- and middle-income countries

My research approach:

- Micro (individual level) and macro (population level)
- Primary data approaches (field experiments, intervention research)
- Secondary data analysis and modeling (simulation)
- Quantitative and qualitative methods
- Economics, statistics, applied demography

Current Work



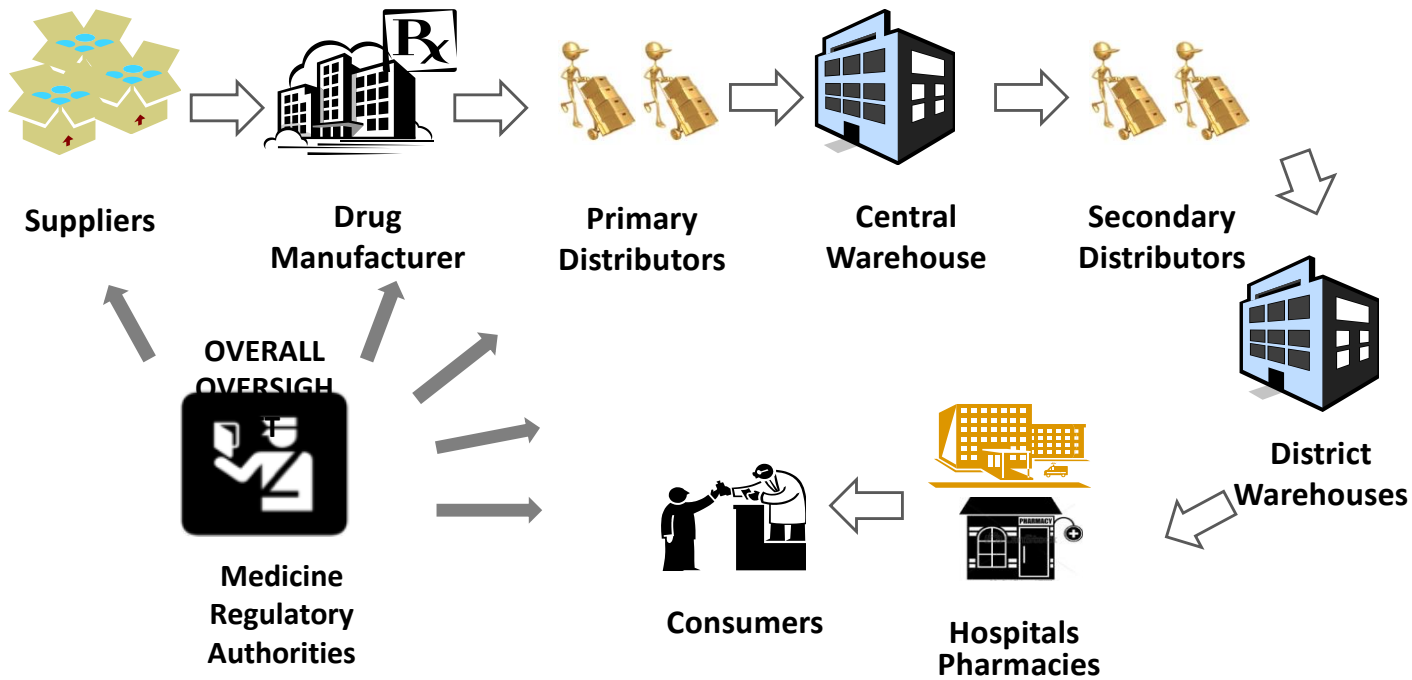
Non-Fieldwork Projects: distance and measurement, women's autonomy and empowerment, Demographic Dividend modeling

Can Engineering Address the Global Development Impasse?

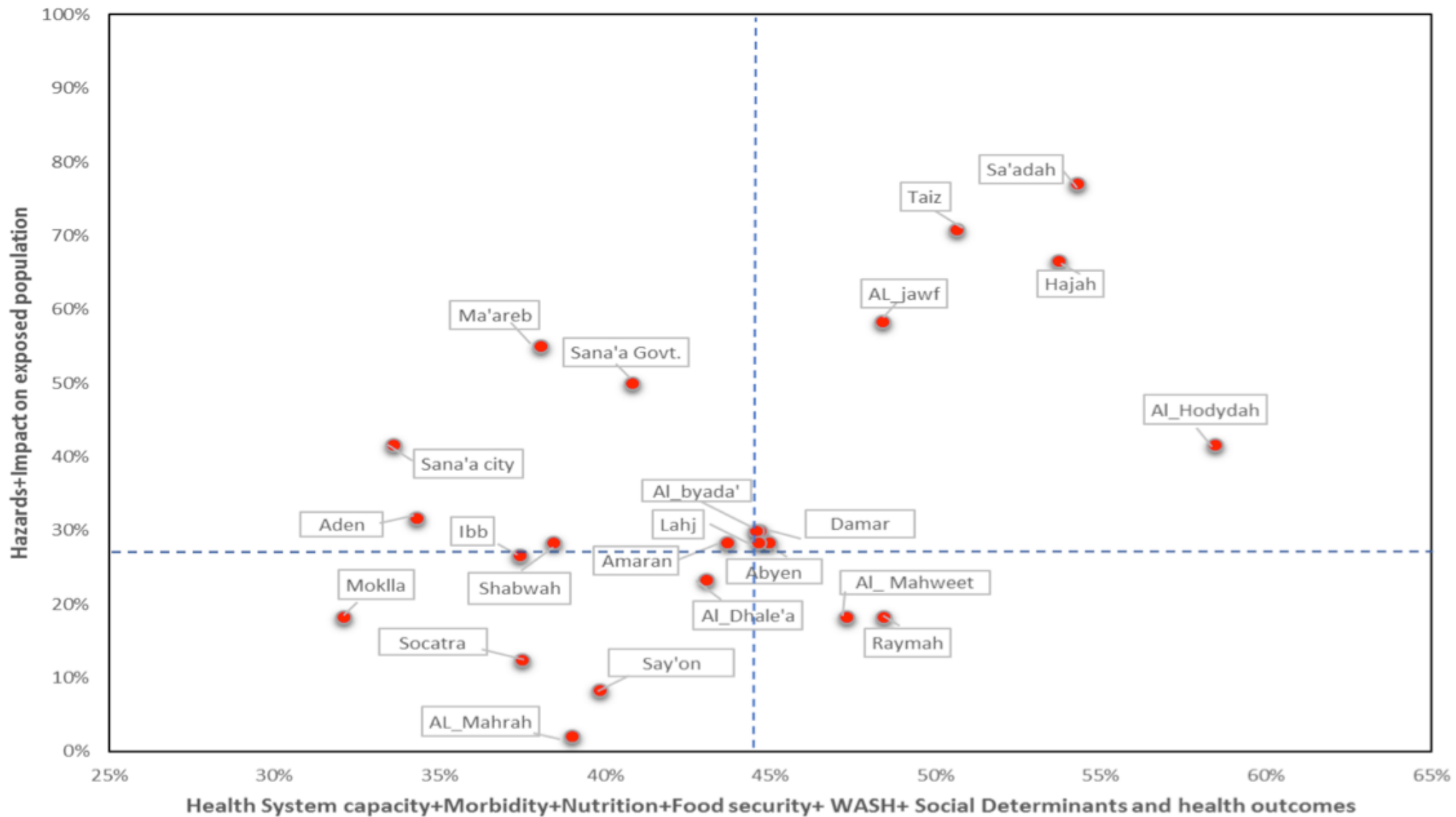
Muhammad H. Zaman, PhD
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PharmaChk: Strengthening Health Systems



Mathematical Modeling of Health Systems



Bruce Larson*

*Research Professor
Global Health, SPH*

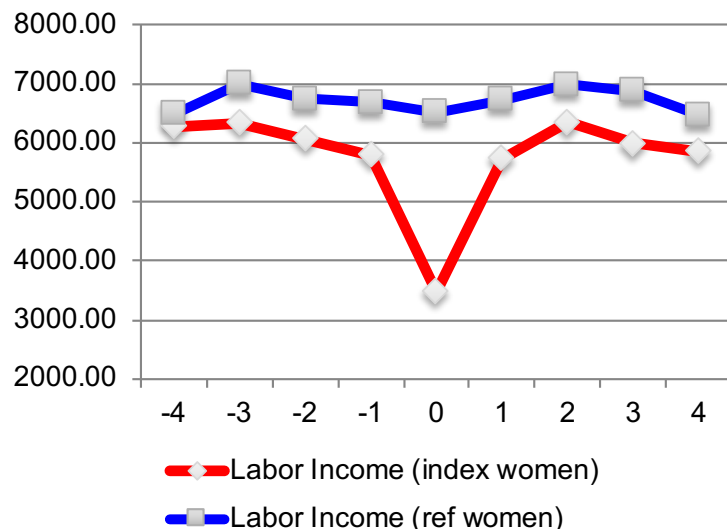
*Ph.D., Agricultural Economics

What do we (and I) do in the Department of Global Health?

Health services research → multidisciplinary research, studies how social factors, financing, organizations, technologies, and behavior affect access to health care, quality and cost, and in the end health and well-being (see www.ahrq.gov)

Implementation science → also multidisciplinary research, studies how to increase uptake of interventions already proven effective into routine practice (see www.gacd.org)

HIV treatment and income (Kenya, KES per month)



Where, with whom, and with whose \$s?

e.g., Kenya, South Africa, Zambia, Uganda, Botswana

e.g., KEMRI, Wits, PATH, Walter Reed

e.g., NIH, PEPFAR, BMGF, CDC, USAID

How do we do it?

Randomized – individual (SLATE)

Randomized – cluster (EMMA)

Quasi-experimental (ISHED, CBCO)

Costs of programs (VMMC, PIMA POC)

Costs of chronic patient care (HIV cohorts)



Rachael Garrett

*Assistant Professor
Earth & Environment, CAS*

1. Impact of trade & conservation policies on land change

Growing demand for meat in emerging economies



Governance responses: 2006-2017

Cargill - Eating up the Amazon

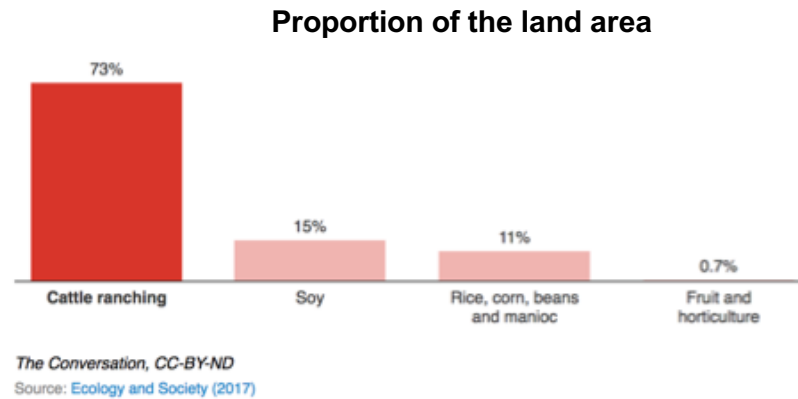
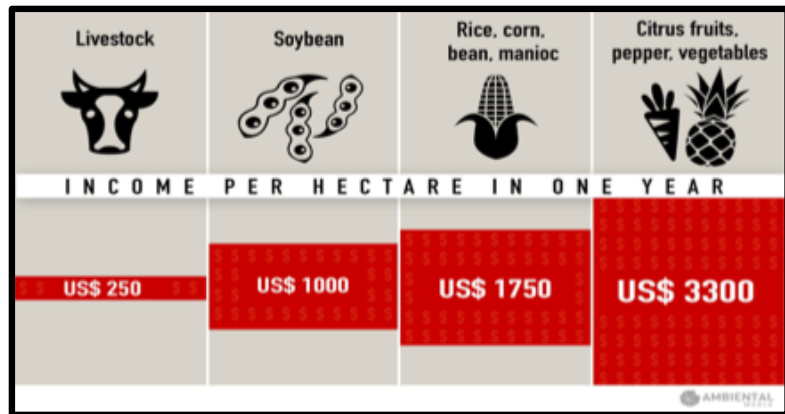
Cargill announces zero deforestation policy across entire global supply chain

BRAZIL'S DEFORESTATION RATES ARE ON THE RISE AGAIN

Major global companies commit to halting destruction of Brazilian Cerrado

2. Opportunities for scaling up sustainable agriculture

Low income land uses occupy a majority of the Amazon



High-value fruit & veggies



www.acaisseeds.com



BU Photography

Low-income ranching on degraded pastures



BU Photography

Improved ranching



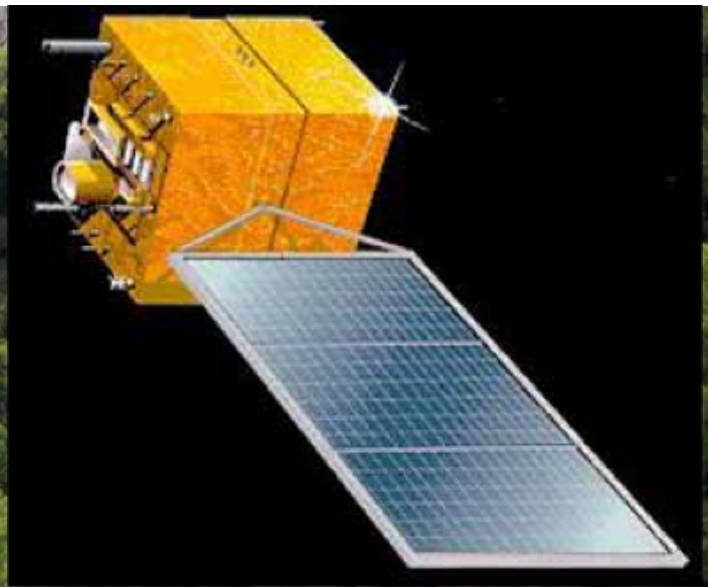
R Garrett



Julie Klinger, PhD

*Assistant Professor
Frederick S. Pardee School of Global Studies*

*Associate Director
Land Use and Livelihoods Initiative
Global Development Policy Center*



Anthony Janetos

*Frederick S. Pardee Professor of Earth and Environment and
Director, The Pardee Center for the Study of the Longer-Range
Future*

Assessing the Impacts of Multiple Breadbasket Failures - Anthony Janetos and John Patrick Connors

Risk = Magnitude of Impact X Probability of Occurrence

Focus on risks that are globally important, recognizing that underlying phenomena may not be global, and global risks can be a consequence of regionally significant phenomena.

Objectives:

Evaluate the likelihood of occurrence of such events

Assess impacts of breadbasket failures in food and energy systems

Quantify risks associated with failure of multiple breadbaskets

GCAM is an integrated assessment model that integrates economic, energy, land use, water, and physical Earth systems models.

We use GCAM to model changes in agricultural production, prices, land use, and emissions from 1990-2100.



We ran 60 scenarios of shocks to agricultural production given both RCP 4.5 policy targets and no climate policy targets (120 scenarios total).

Larger shocks have greater impacts on land change and emissions.

The response of the shock is dependent upon the the crop, which affects the suitable areas for re-allocation.

Emissions are largely a consequence of how much forest has been reallocated to agriculture.

Bioenergy crops dominate scenarios without explicit carbon policy

But forests expand dramatically when carbon is priced explicitly



Henrik Selin & Adil Najam

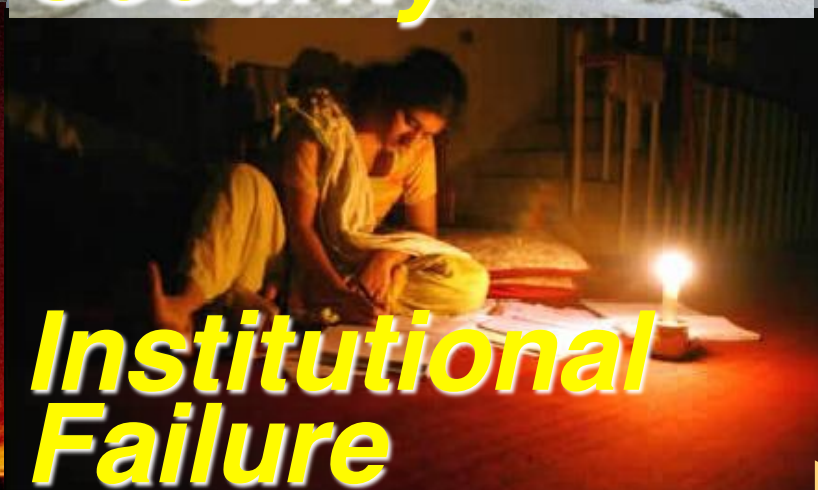
Pardee School of Global Studies, Boston University

Understanding Insecurity

Society



State



Violence

Social Disruption

Does “Corporate Social Responsibility” Have an Impact in LMICs?



Warren Kaplan

PhD, JD, MPH

*Clinical Assistant Professor
Global Health, BUSPH*

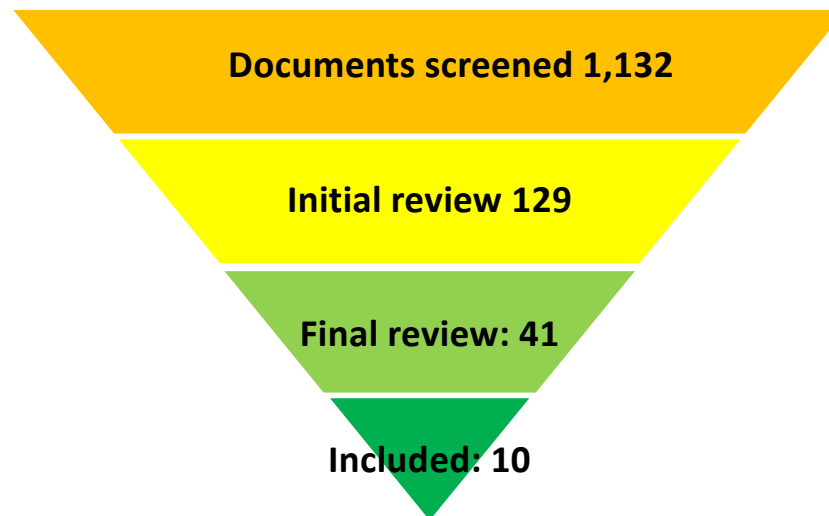
Systematic review of CRS program evaluations

Period: 2000-2018

Language: English

Search engines: science and social science literature with focus on **business**

Type of CSR programs: impact on education, health & safety, nutrition and poverty reduction



Countries: Sri Lanka, UK (2), Equatorial Guinea (2), Nigeria, Bolivia, Dominican Republic, Mexico

Industries: Extractive (6), Construction, Sports (2), Education,

Experimental Designs: not even a pre-post with control?

Study design	RCT	ITS	Panel	Pre-/Post		Post only	
				Control	No control	Control	No control
	0	0	0	0	5	3	2

Assessment of quality of evidence of the 10 studies included using GRADE

High	Moderate	Low	Very low
True effect lies close to estimate	True effect lies close to estimate but possibility it is substantially different	True effect may be substantially different from estimate	Estimate of effect is very uncertain
0	0	8	2

Min Ye

*Associate Professor
International Relations
Pardee School of
Global Studies*



Common Perceptions of BRI:

Driven by external ambition—global domination

Driven by individual leadership's spur—durability

Driven by security and politics—waste of money

Unpacking:

Who were the domestic actors behind its creation?

Agencies & interests: foreign affairs; economic bureaucrats; grand strategists

How is the Chinese state governing the initiative?

Autocratic promotion; economic technocrats

What are the dynamics of its implementation?

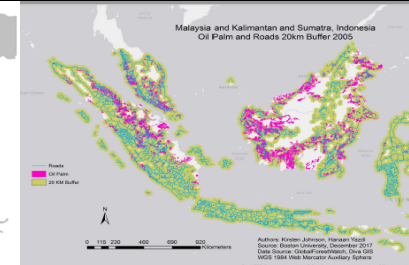
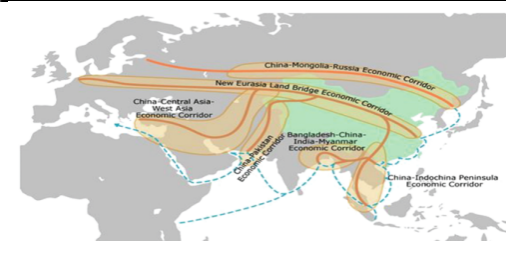
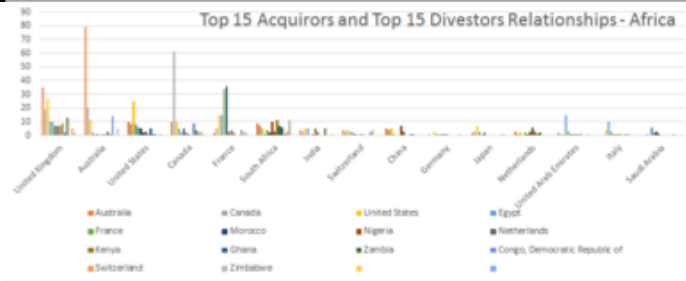
Domestic regional economic planning; external business expansion

Importance to:

evaluate whether it is a sustainable national strategy

anticipate its effects both domestically and abroad

come up with feasible responses to it.



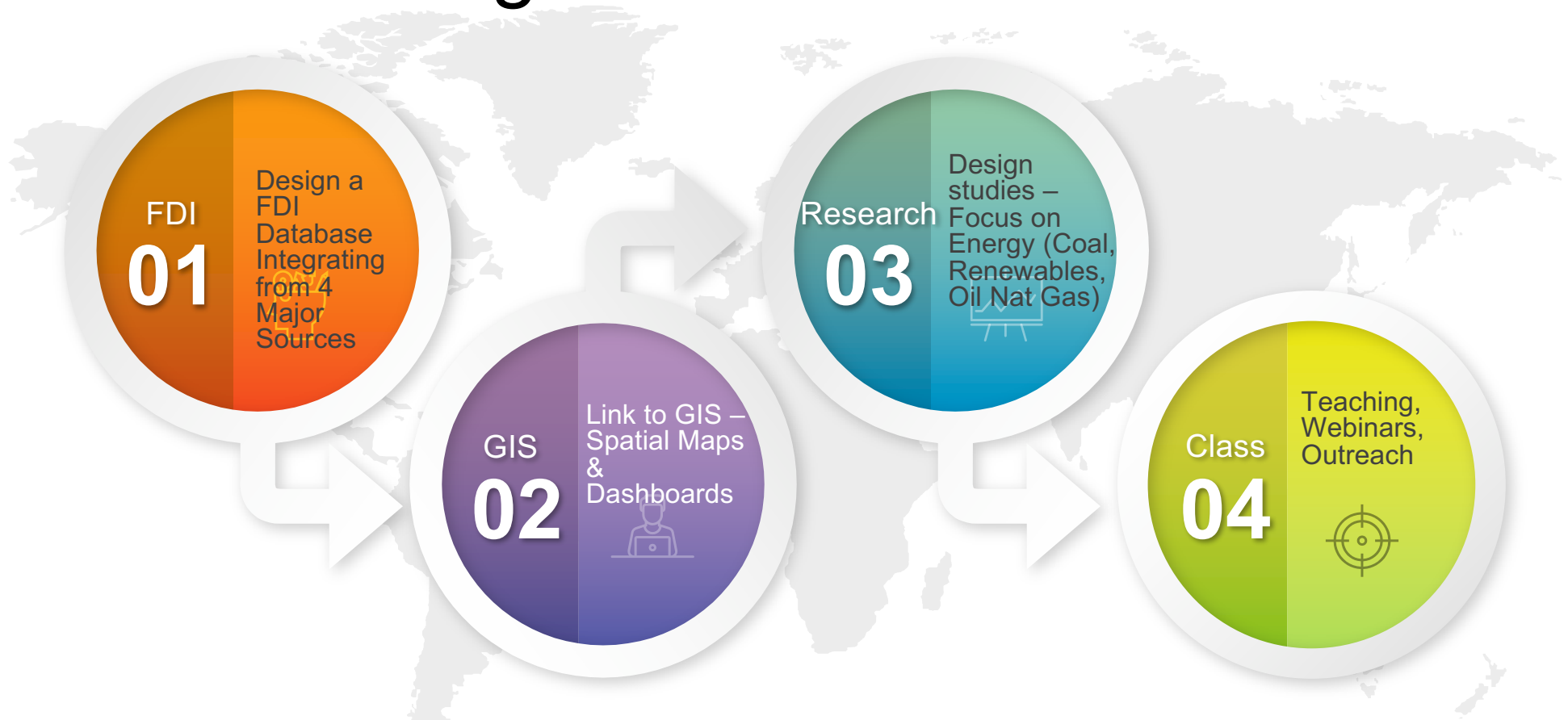
Suchi Gopal

*Josh Pitts, Jamie Baldwin, Kevin
Gallagher & Zhongshu Li**

*Mapping Global Patterns of
Energy Investments*

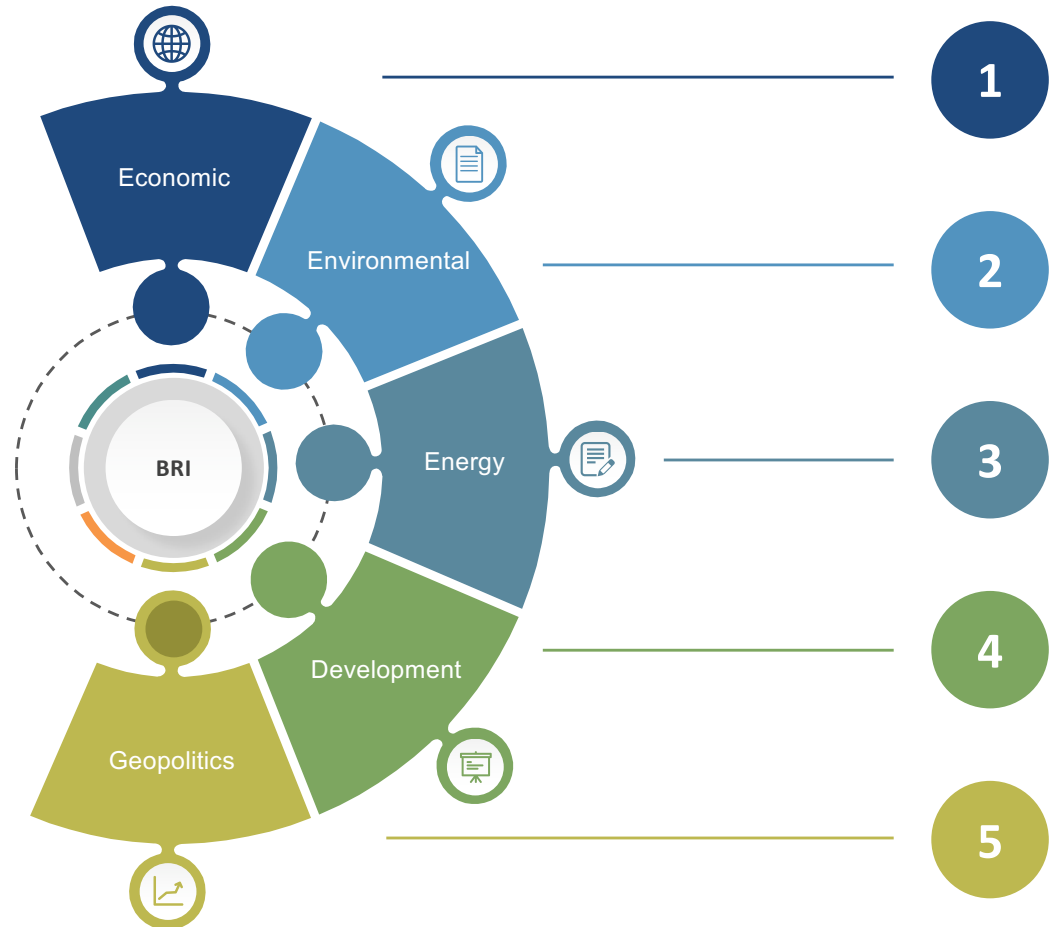
*Earth & Environment, CAS
Global Development Policy Center*

Research Agenda



The goal of our project is to build have a unique database combining four sources of foreign direct investment by source and destination country. The database tracks annual foreign investments flows in general, relevant features such as industry breakdown, type and amount of investment, as well as spatial location. We are particularly interested in capturing flows in the energy sector and subsectors.

Research Questions in the Context of BRI



1

How are international and regional trade impacted by BRI? How is the current trade with China? How will it change due to BRI?

2

What are the environmental impacts of BRI in regions? What is the existing biodiversity status in a region? Assess food and water security.

3

What is the level of investment capital for energy infrastructure in various regions? What is the current energy status of the region? How will BRI drive investments in renewables or biofuels?

4

What are the current geographies and demographics of key Asian BRI countries? How will they be impacted by BRI?

5

What are the current geographies and demographics of key Asian BRI countries? How will they be impacted by BRI?

Kevin P. Gallagher

*Professor
Frederick S. Pardee School for Global Studies;
Director
Global Development Policy Center*

Global Economic Governance Initiative

Mission → multidisciplinary research that examines the extent to which international economic institutions foster financial stability, human development, and environmental sustainability.

- **Financial Stability:**
 - Financial regulations and trade/investments
 - Strengthening the global safety net
 - Central Banks and stability
- **Development Finance**
 - Development banks in the Amazon
 - Financing green energy
 - Chinese Overseas Development Finance
- **International Trade:**
 - Trade Rules and access to medicines
 - The Trading System and Climate Policy



The Belt Road and Beyond: China and global development

