

This is a presentation of the following unpublished document and is licensed under Creative Commons: Attribution-Noncommercial-Share Alike 4.0 license:

Lynch, Kenneth ORCID logoORCID: https://orcid.org/0000-0002-5296-2864 (2017) Interdisciplinary research for ecosystems services in informal settlements? In: Bilateral Early Careers Research Workshop on ecosystems services for water and food security, 26/1/2017 - 28/1/2017, American University of Cairo. (Unpublished)

EPrint URI: https://eprints.glos.ac.uk/id/eprint/5654

Disclaimer

The University of Gloucestershire has obtained warranties from all depositors as to their title in the material deposited and as to their right to deposit such material.

The University of Gloucestershire makes no representation or warranties of commercial utility, title, or fitness for a particular purpose or any other warranty, express or implied in respect of any material deposited.

The University of Gloucestershire makes no representation that the use of the materials will not infringe any patent, copyright, trademark or other property or proprietary rights.

The University of Gloucestershire accepts no liability for any infringement of intellectual property rights in any material deposited but will remove such material from public view pending investigation in the event of an allegation of any such infringement.

PLEASE SCROLL DOWN FOR TEXT.



OUTLINE

Interdisciplinary research for ESS?

IDR for ESS in informal settlements

Urban agriculture in informal settlements



at Cheltenham and Gloucester



RESEARCH THAT OPENS UP NEW SOURCES AND METHODOLOGIES BEYOND THOSE FOUND IN A SINGLED DISCIPLINE.

THE CONCEPTS AND SKILLS THAT ARE NEEDED TO BE EFFECTIVE WHATEVER THEIR DISCIPLINARY ROOTS – 'REQUISITE KNOWLEDGE'.

BARRIERS TO IDR

- Career
- Institutional university or institute
- Institutional finders or collaborators
- Policy pathways eg ministries, civil service
- Disciplinary use of language, terminology, theory, evidence



BA (2016) EARLY CAREERS RESEARCHER BARRIERS

- Need to secure firm disciplinary theoretical &methodological foundation in one or more disciplines.
- Need to secure relevant publications and research experience.
- Need to find a disciplinary 'home'.
- IDR can take longer.
- Easier to pursue discipline-focused publication plan (while developing teaching [UK PGCert.], passing probation
- Need to meet needs of national research evaluation.
- Conservative discipline-focused peer review (publication, bidding)



"A treacherous journey, and a fragile career path."

Anonymous contributor to BA(2016)

"I would advise them not to do it until they have a permanent contract ... Too much IDR early on can be career suicide."

Anonymous contributor to British Academy (2016)

"To be honest: don't ...there is still a culture where Prof X with expertise is worth more than someone who can do a bigger picture."

University of Nottingham, contributed to BA (2016)

MOTIVATION TO IDR

- Intrinsic promotes deeper understanding, intellectually stimulating, opportunities & possibiltles of cracking 'wicked problems'
- Extrinsic deeper understanding, balance for weaknesses of single discipline, complex problems demand complex solutions.
- UK REF 2014 impact case studies submitted: 60% drew on IDR.



BARRY & BORN(2013) TYPOLOGY

- Integrative-synthesis; combining insights from different preexisting disciplines.
- Subordination-service mode; 1 or more disciplines occupy a service mode to other discipline(s).
- Agonists can-antagonistic; transcends disciplines it draws from and critiques in order to creat a new interdisciplinarity.



ROUTES TO SUCCESS

- Publishing in recognised disciplinary journals
- Building social-academic networks information, reputation building, partnerships, invitations
- Securing funding



IDR – IT MAY NOT BE WHAT IT SEEMS ...

- Research evaluation eg research funded by BBSRC
 assessed by 22 of 36 sub-panels of the UK REF 2014; ESRC
 all 36.
- UKRCs large % of IDR proposals to specific calls, but up to 60% funding through responsive mode.



KEY SKILLS OF IDR RESEARCHERS

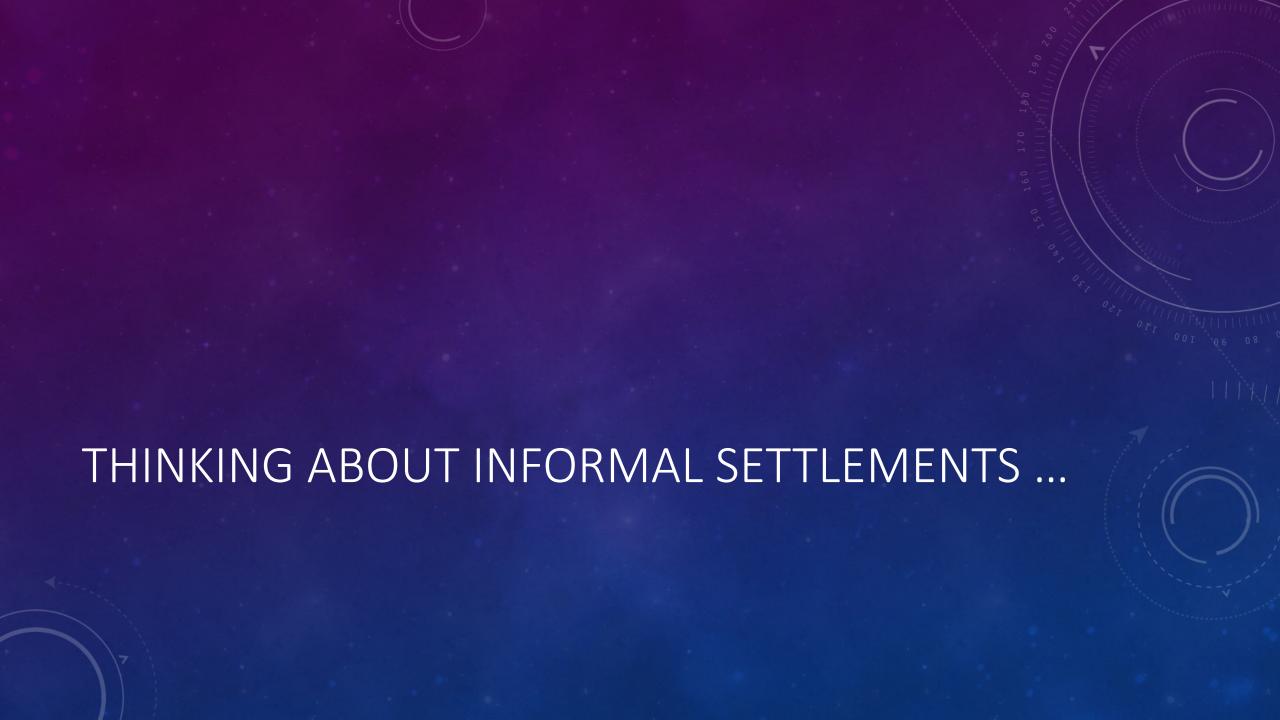
- Methodological expertise & flexibility.
- Language learning & translating.
- Synthesising.
- Collaborating team working.
- Convening.
- Engaging to diverse (academic/non-academic) audiences.



CRITERIA FOR IDR (BRITISH ACADEMY, 2016)?

- Sum of whole greater than parts?
- Inclusive leadership structure?
- Resources planned for dialogue, co-learning, integration?
- How do the disciplines benefit, transform?
- Disciplinary 'hospitality'?
- Different scales and communication been recognised?
- Coherence of approach to data?
- Necessary experience and training?





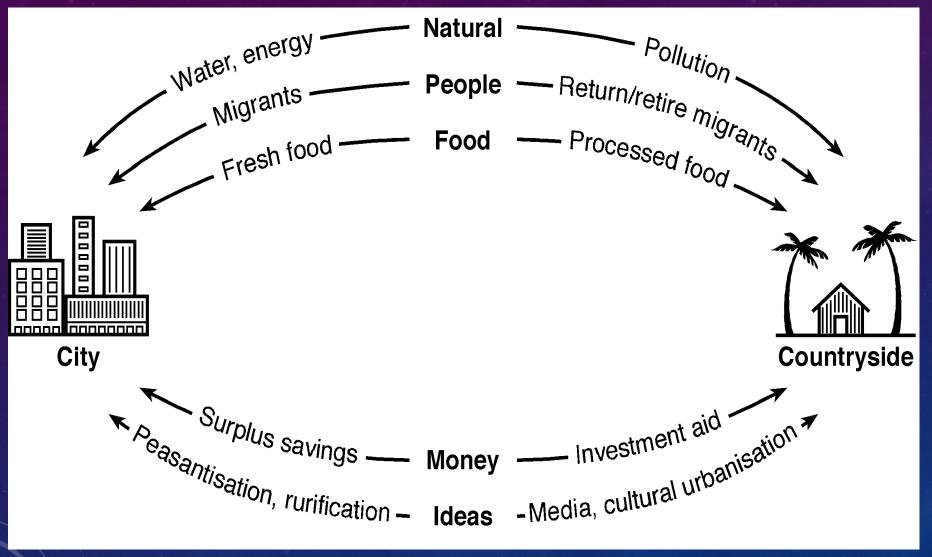
CAREFUL ...

What do we mean by 'informal settlement'?





Flows between city & countryside (Lynch, 2004)





'They are not "Informal Settlements"—they are habitats made by people.'

Lorena Zárate, Mexico City. April 26, 2016



WHY ARE INFORMAL SETTLEMENTS IMPORTANT?

- Often the majority of urban dwellers living in informal settlements.
- They are growing and 'densifiying'.
- Poorer people often more reliant on ESS for livelihoods (5 capitals).
- Dwellers already limited access to ESS.
- Populations most vulnerable to shocks or LT changes.



"Degradation of ecosystem services hits the poor disproportionately. It is also sometimes the principal factor causing poverty."

Mayers et al, 2009

"the dynamic relationship between poverty, ecosystem services and pollution that sees vulnerable and poor urban dwellers suffer disproportionately from environmental impacts."

UN Habitat, 2015



ECOSYSTEMS DISSERVICES?

- Fear of attack by criminals or animals.
- Mental health impacts of living in hazardous environment.
- Pest & zoonotic disease hazard.
- Environmental risks landslips, floods.

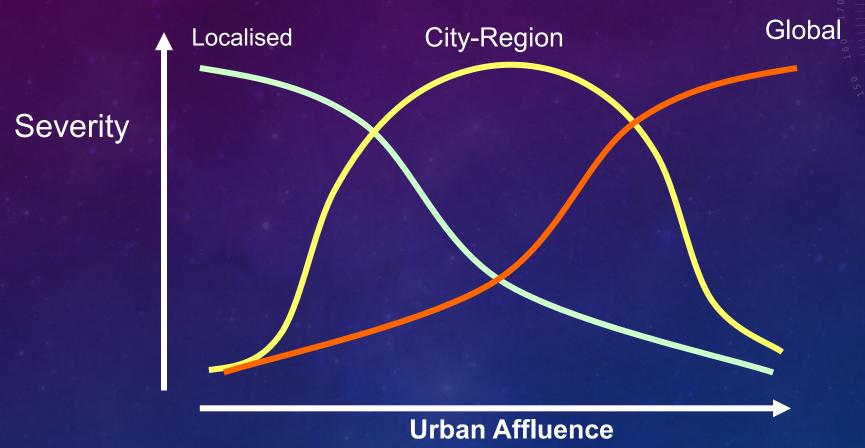




Urban Environmental Burdens & Spatial Scales

	Local	City-Region	Global
Air	Indoor air pollution	Ambient pollution and acid rain	Contribution to CO ₂ emissions
Water	Access to water	Pollution of local water	Aggregate H ₂ O consumption
Waste	Unsafe waste handling	Unsafe/ destructive waste disposal	Aggregate waste generation

Affluence and Urban Environmental Burden

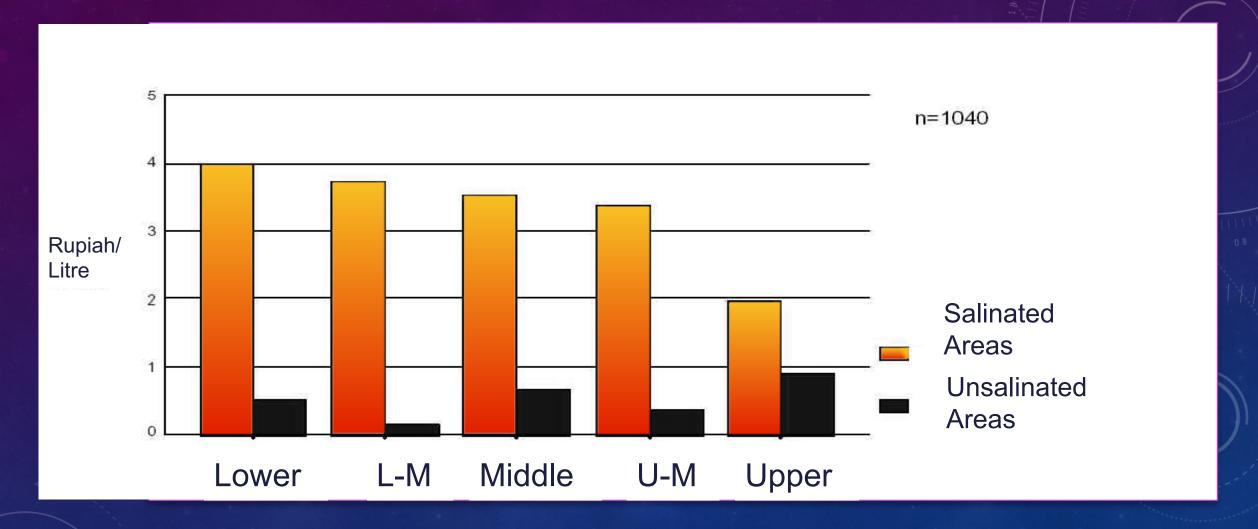


Source: Adapted from McGranahan & Satterthwaite, 2000



Price of drinking water in Jakarta, Indonesia

by geographical features and wealth quintiles





High income

Low

Middle

Medium

Low

High density



'Managing to provide sufficient ecosystem services and fewer dis-services will no doubt require multidisciplinary, collaborative, policy-relevant and context-sensitive research.

Knowledge from such research would be useful towards intervention in informal settlements across the heterogeneous urban contexts in developing countries.'

Adegun, 2014



CONCLUSIONS

• ???

