



Large inequality in international and intranational energy footprints between income groups and across consumption categories

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A PhD project and a contribution to the LiLi – Living well within Limits project

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by

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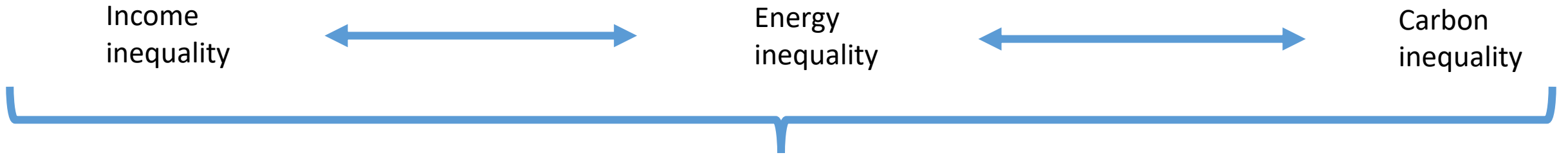
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Agenda

- Idea
- Method
- Results
- Discussion

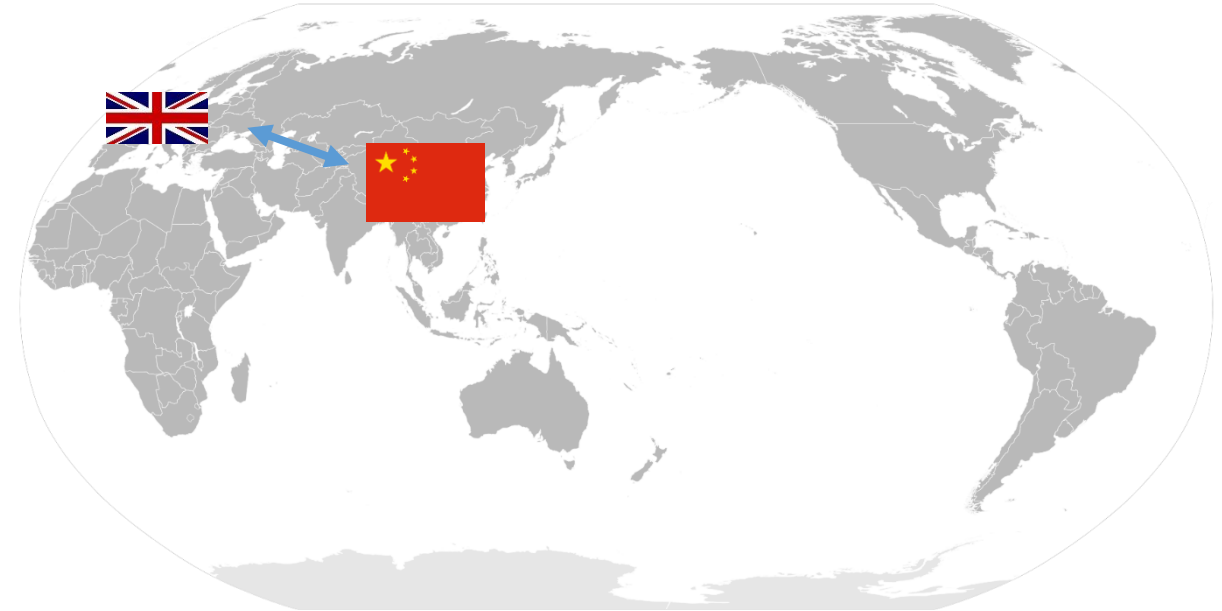
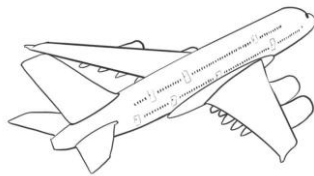
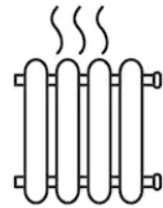
Idea



All are large and coupled but..

Idea

Energy services



How does this energy service inequality compare nation to nation and where do nations stand within the global distribution?

Method

Expenditure data for income groups

by
Eurostat and Global
consumption database

86 countries, 4-5 income
groups

Input output model

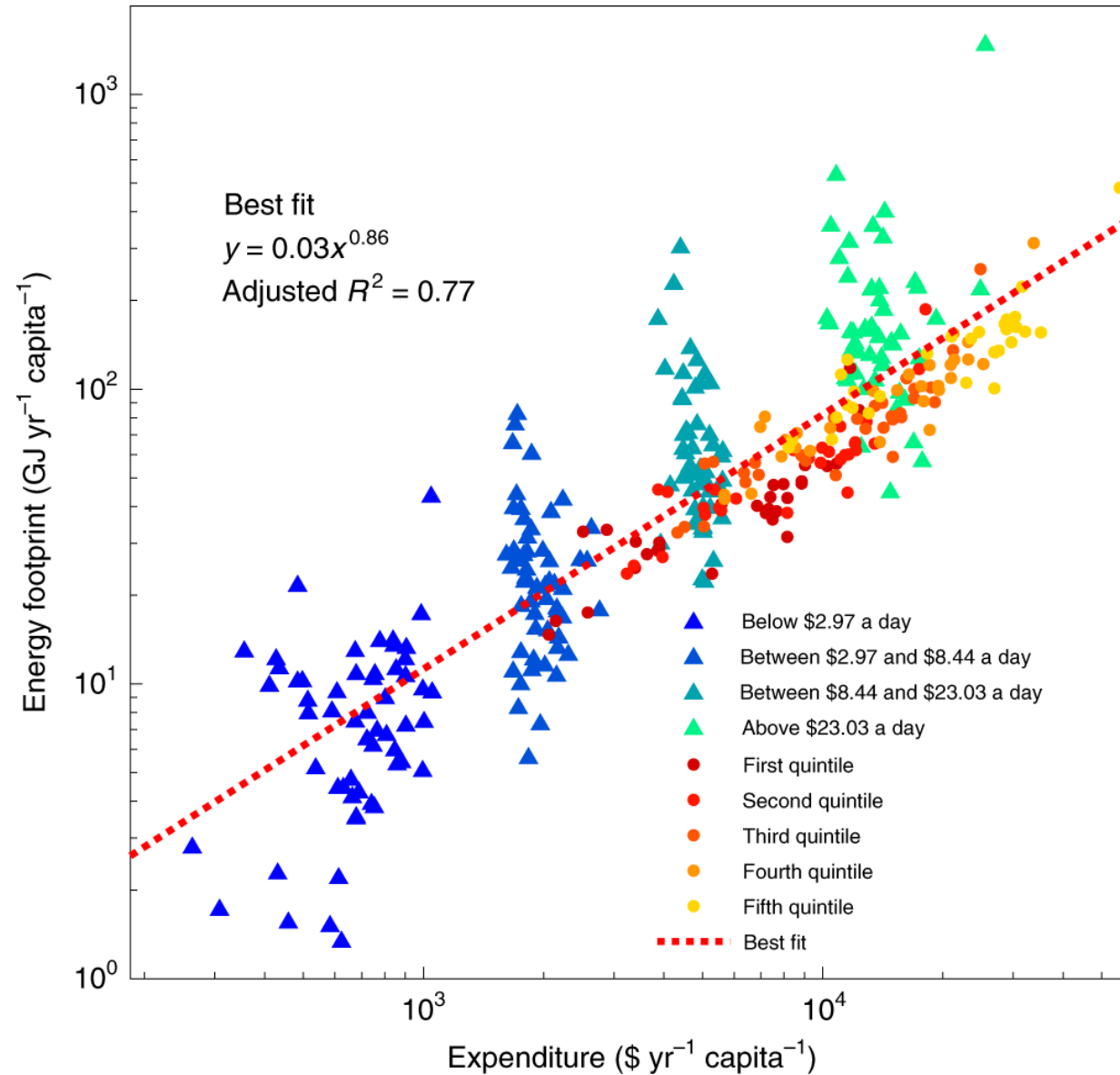
GTAP 9 for 2011

IEA final energy data

2011

Results

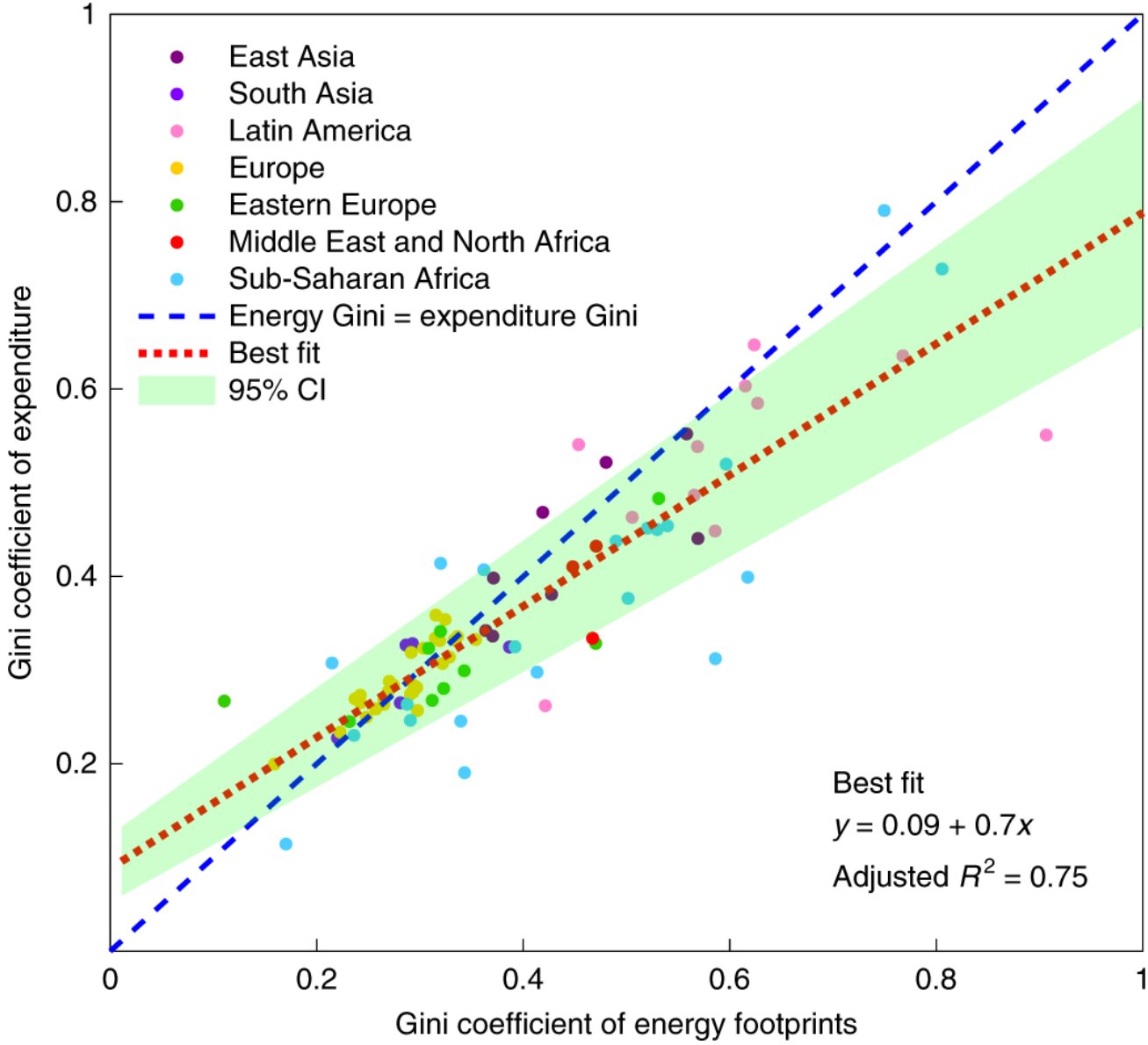
No surprise



Energy scales
with expenditure
and income:

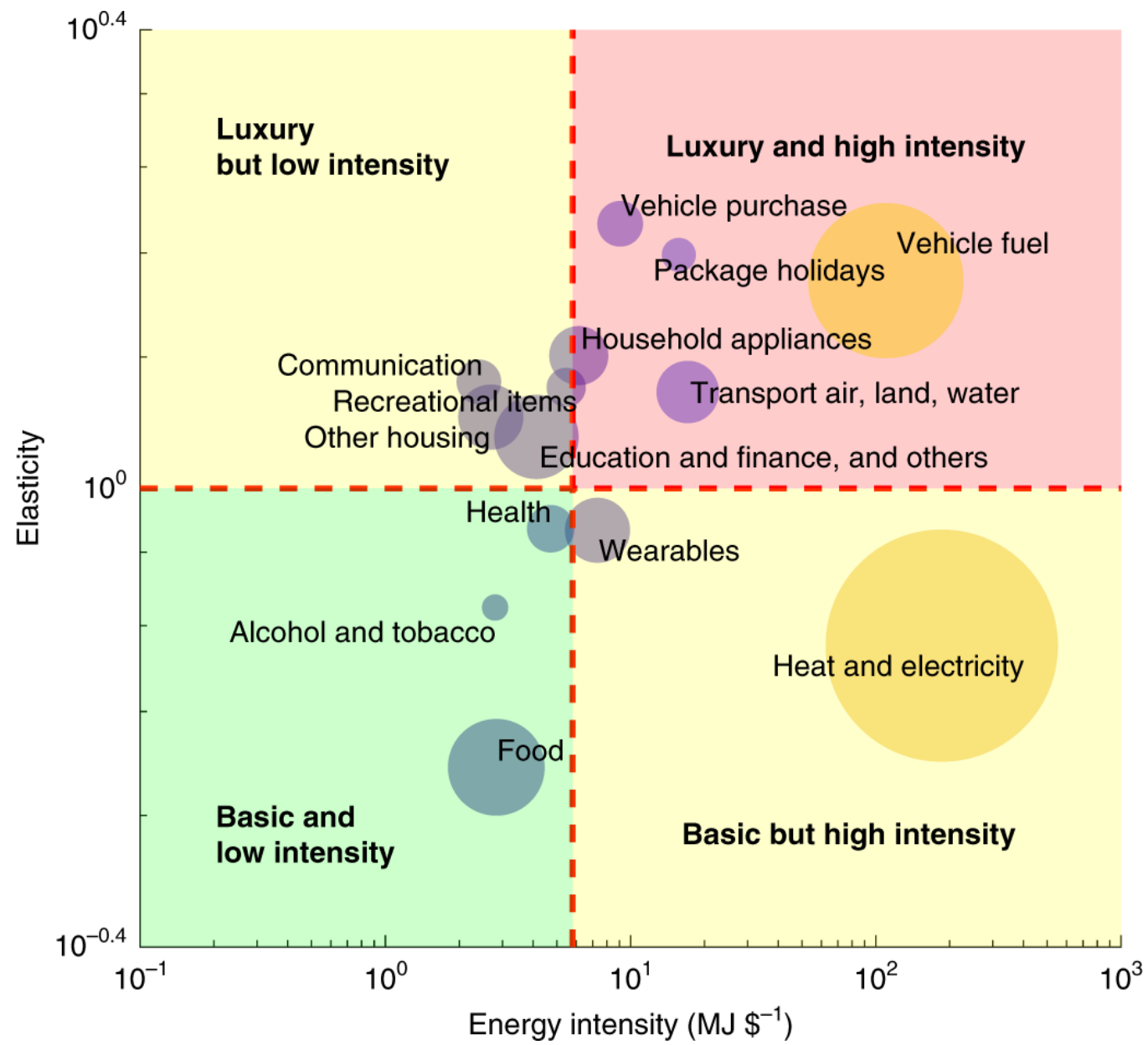
weak relative
decoupling

Surprise



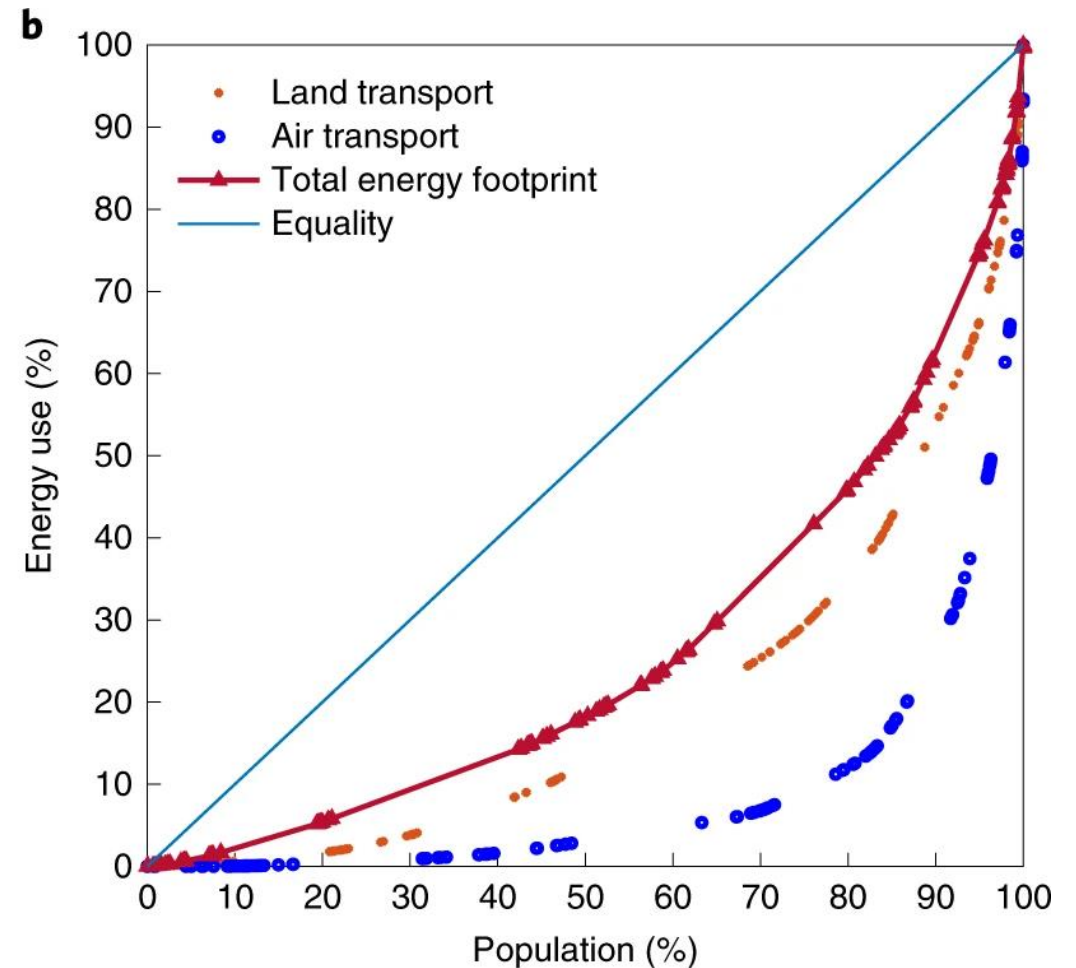
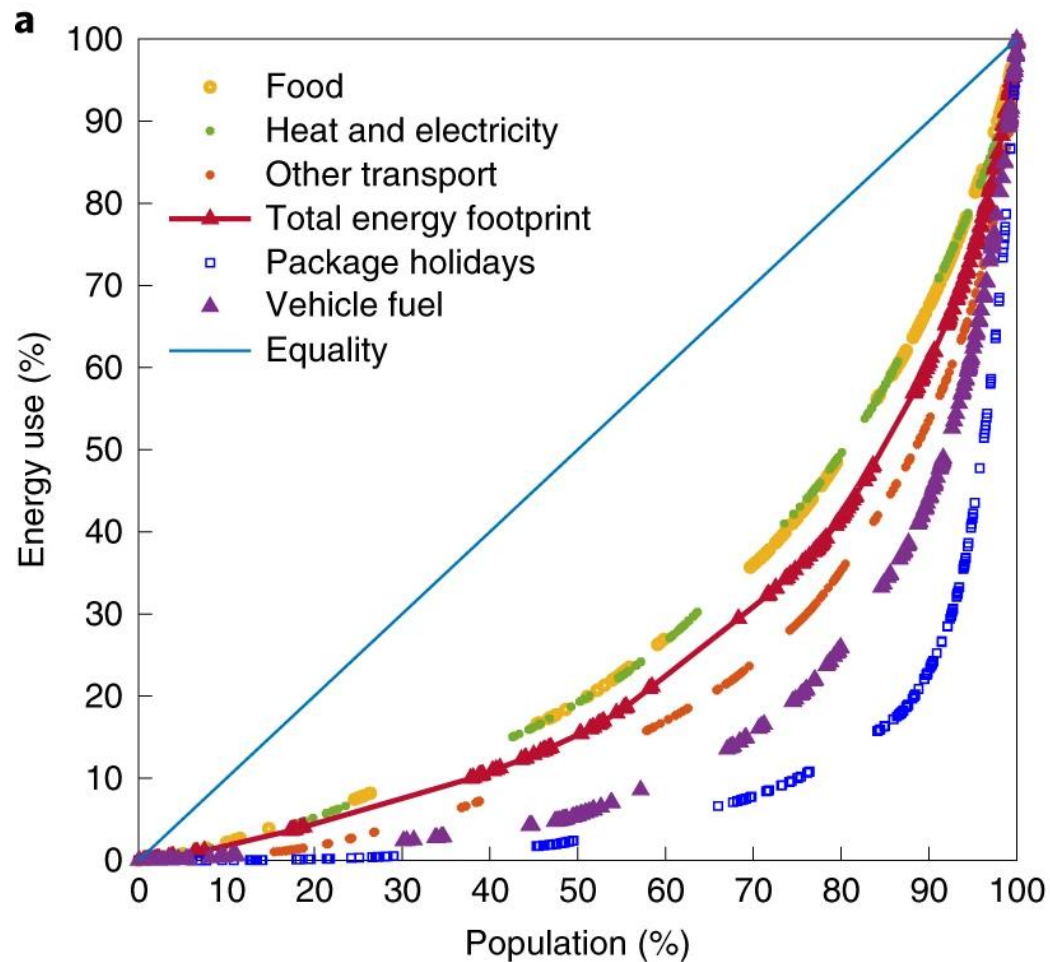
Energy inequality can be larger than expenditure inequality

Surprise



Luxury consumption is quite energy intensive

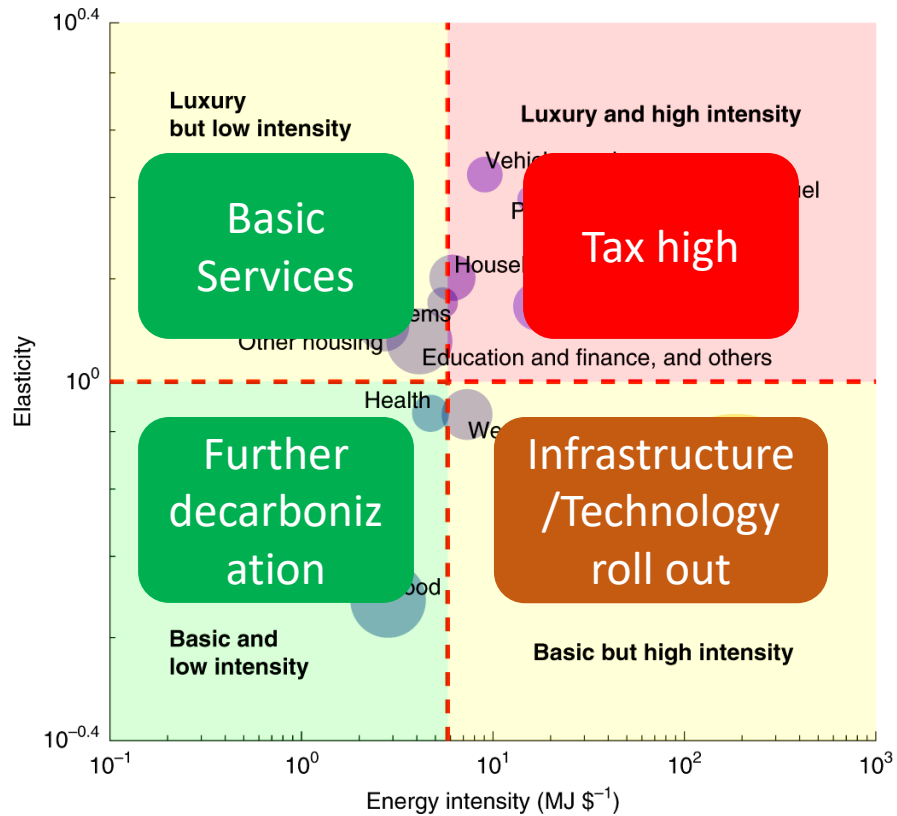
No surprise but crucial for energy justice



International energy inequality varies with consumption purpose

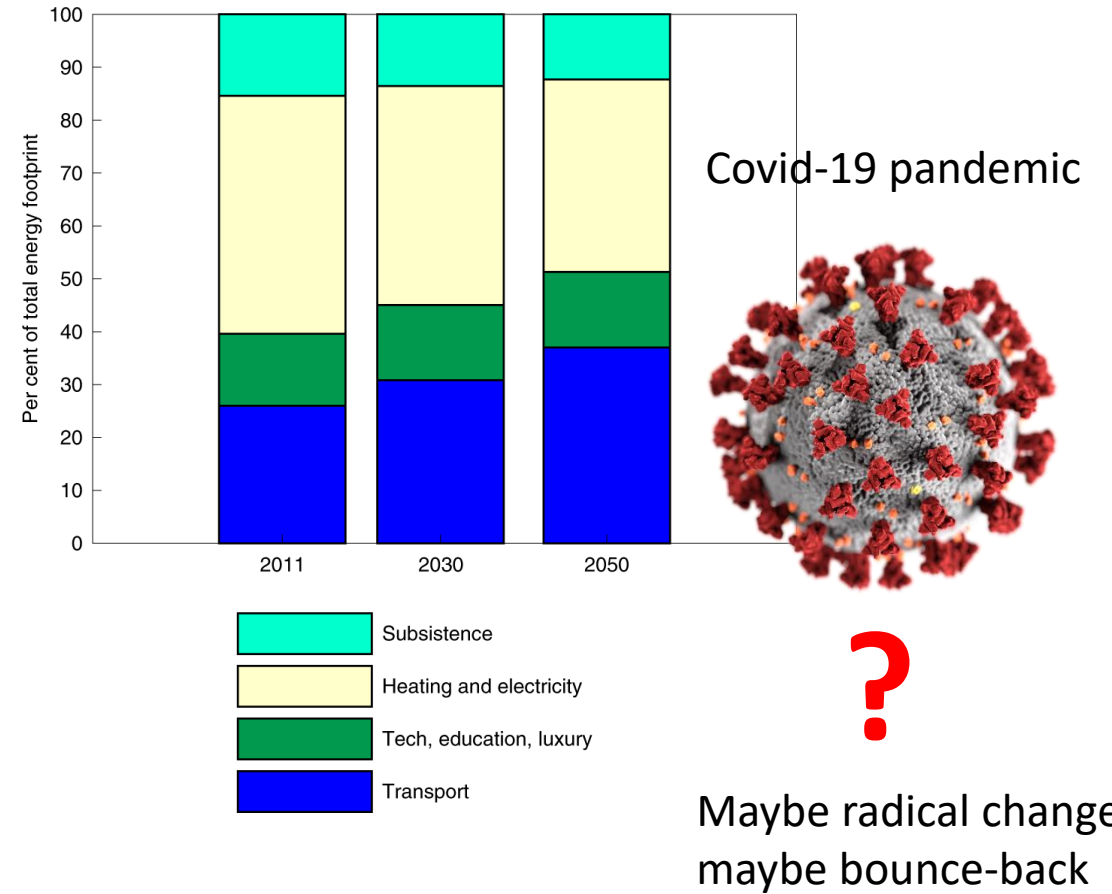
Discussion

Policy approaches based on results



by Yannick Oswald

The business as usual future looks grim

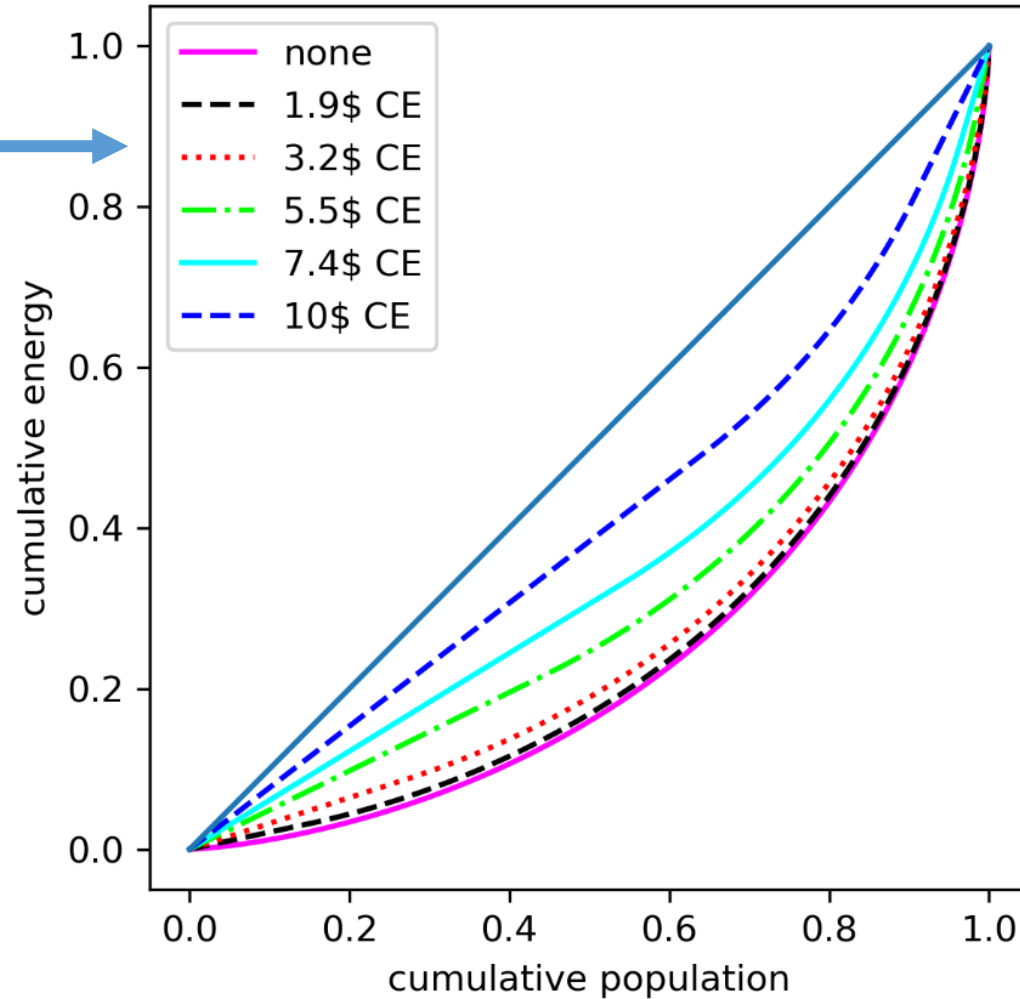


Maybe radical change, maybe bounce-back

Outlook

Redistribution scenarios

Energy inequality
under different
consumption
expenditure (CE)
floor and caps



Work in progress!