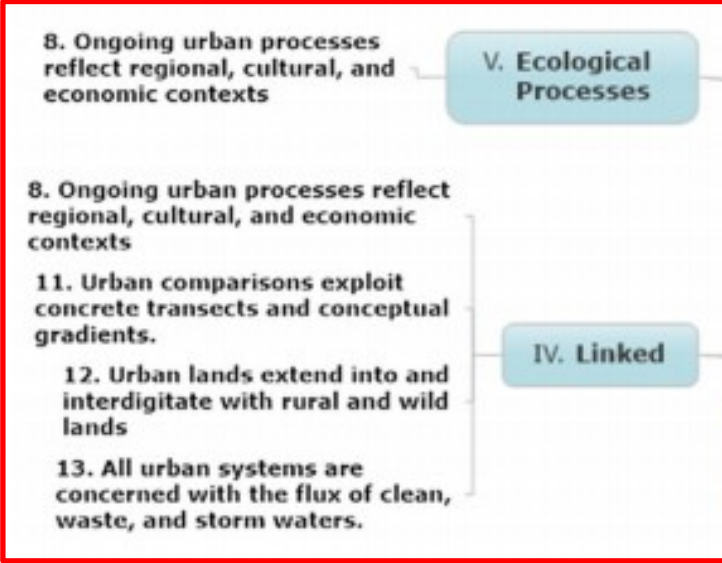


Programa de Pós-Graduação em
Ecologia & Conservação

Aspectos sociais, econômicos e culturais em ecossistemas urbanos

Complexos ecossistemas urbanos



- 1. Cities are ecosystems
- 2. Urban contains remnant or emergent biota
- 3. Urban biota are diverse and multidimensional
- 4. Human values and perceptions mediate feedbacks
- 10: Boundary setting for ecological research is driven by scientific and practical questions.
- 13. All urban systems are concerned with the flux of clean, waste, and storm waters.



- 8. Ongoing urban processes reflect regional, cultural, and economic contexts
- 9. Urban design and development can be treated as ecological experiments.
- 13. All urban systems are concerned with the flux of clean, waste, and storm waters.



- 2. Urban contains remnant or emergent biota
- 3. Urban biota are diverse and multidimensional
- 5. Differential distribution of ecological processes and ecosystem services
- 6. Urban form is heterogeneous at many scales.
- 7. Urban systems respond to planned, incidental, and accidental human actions.
- 9. Urban design and development can be treated as ecological experiments.

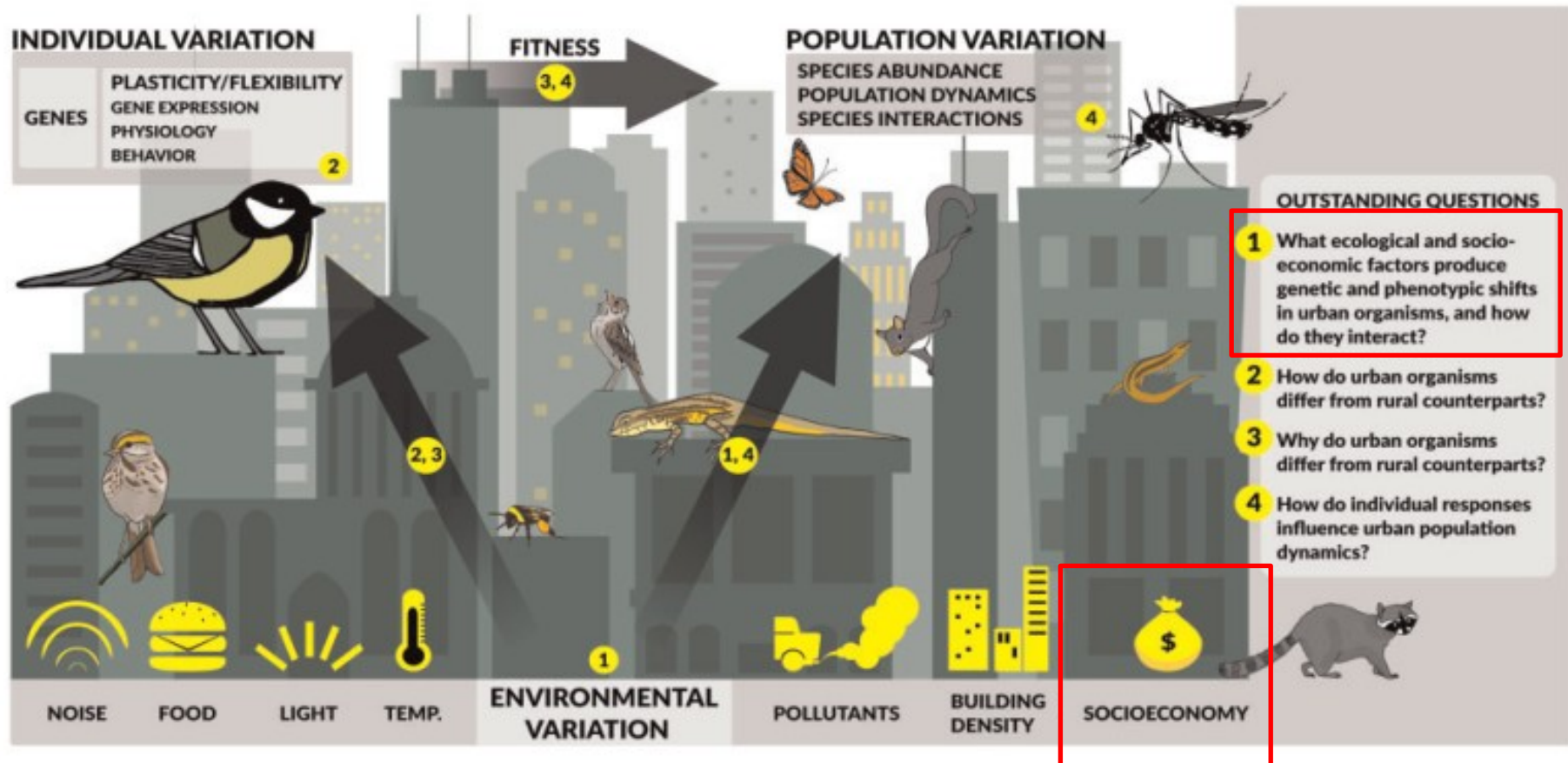


Fig. 1 Outstanding questions for urban ecology (1–4) in the context of environmental, individual, and population variation. Some representative common animals found in cities around the globe are pictured. Environmental variation can affect individual and population-level variation. Individual variation affects individual fitness which then can lead to changes at the population-level.

Quais fatores ecológicos e socioeconômicos produzem mudanças genéticas e fenotípicas em organismos urbanos e como esses fatores interagem entre si?

Impactos diretos e indiretos sobre os ecossistemas

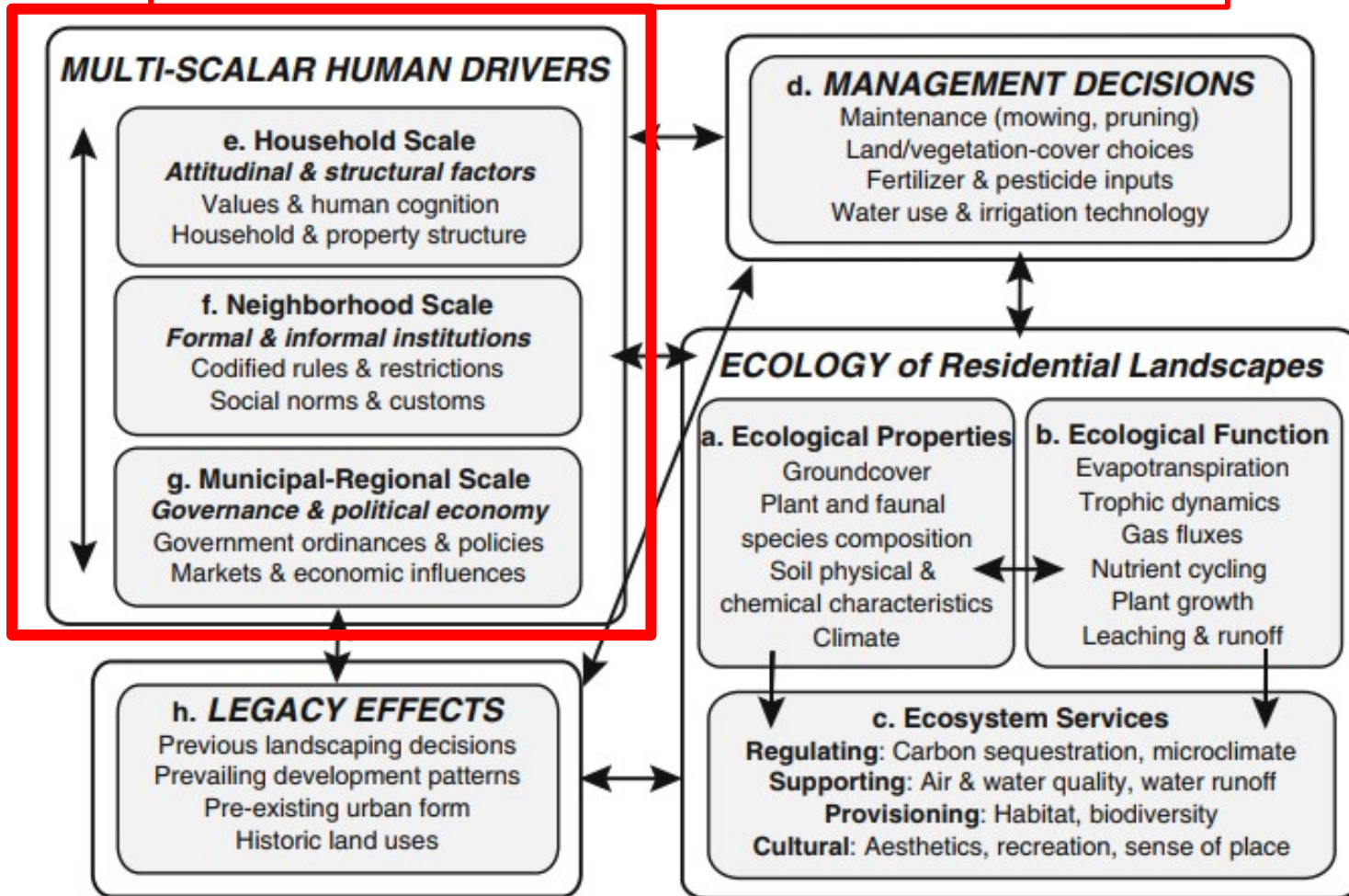
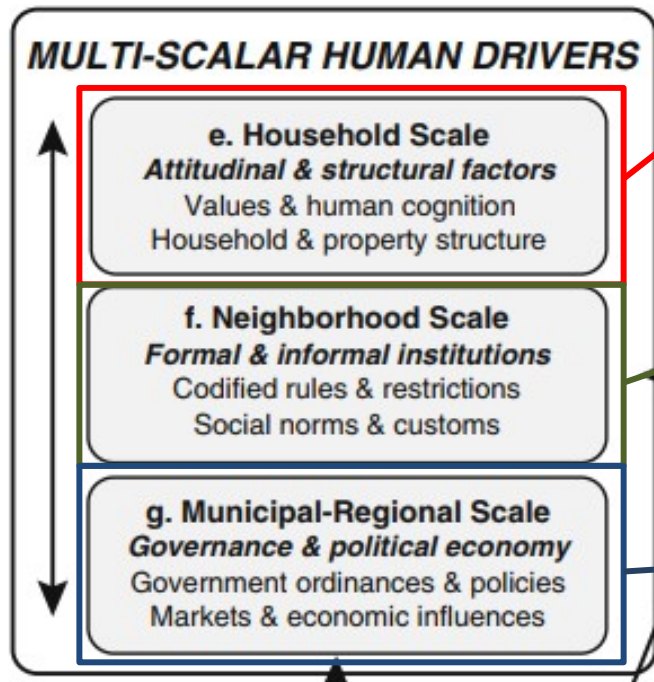


Fig. 2 Conceptual framework of multi-scalar social-ecological interactions of residential landscapes. *Arrows* represent interactions between framework components

Cook, *et al.* (2011)



Cook, *et al.* (2011)

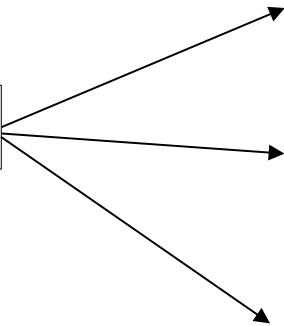
- **Escala domiciliar/familiar**
 - Residentes - Decisões
 - Vantagens socioeconômicas
 - Estilo de vida
 - Educação
- **Escala de vizinhança**
 - Comunidade
 - Normas Sociais
 - Costumes
- **Escala municipal/regional**
 - Política
 - Esfera governamental
 - Interesses econômicos

Cidades são complexos sistemas **socioecológicos**



Fatores que determinam as tomadas de **decisões** humanas

Decisões

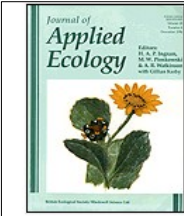


Individual = Renda individual, espaço de ação limitado

Coletivo = Imposições dos grupos sociais e cultural

Político = Interesses, demandas e decisões políticas

- Sociais
- Econômicos
- Culturais



JOURNAL ARTICLE
Managing urban ecosystems for goods and services

Kevin J. Gaston, María L. Ávila-Jiménez and Jill L. Edmondson
Journal of Applied Ecology
Vol. 50, No. 4 (August 2013), pp. 830-840

Landscape Ecol (2016) 31:401–413
DOI 10.1007/s10980-015-0256-7



RESEARCH ARTICLE

Different social drivers, including perceptions of urban wildlife, explain the ecological resources in residential landscapes

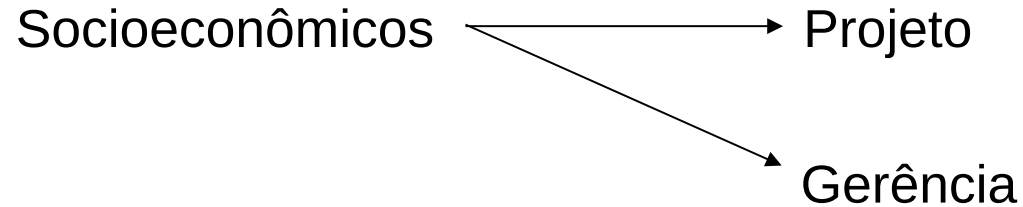
J. Amy Belaire · Lynne M. Westphal · Emily S. Minor

Urban Ecosyst (2012) 15:19–52
DOI 10.1007/s11252-011-0197-0

Residential landscapes as social-ecological systems: a synthesis of multi-scalar interactions between people and their home environment

Elizabeth M. Cook · Sharon J. Hall · Kelli L. Larson

Individual



p.ex.
Renda → + Riqueza vegetal

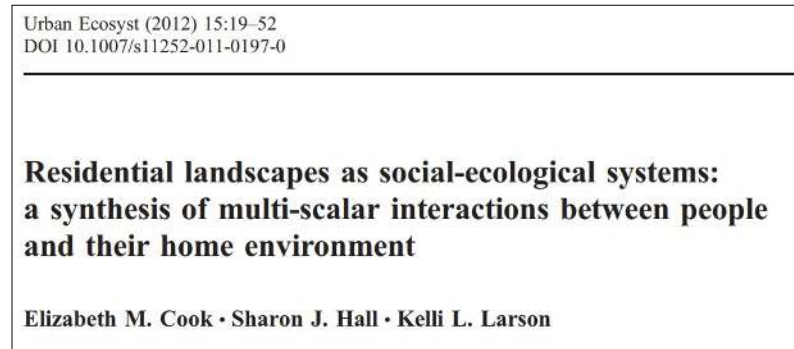


- Manejo dos quintais e varandas
- Heterogeneidade ambiental
- Áreas maiores
- Percepção social (grupos)
- Subúrbios afastados

-  **Biodiversidade**

Belaire, *et al.* (2016)

Coletivo



- Indivíduo parte do **coletivo**
- Cultural – Não mais somente adaptativo
- Vegetação exótica/ Introdução de espécies
- Tomada de decisões políticas
- Formas de consumo

ETHOS

- **Conservação e apreço pela natureza como algo cultural**
- **Transmitir para futuras gerações**





SYMPOSIUM INTRODUCTION

A New Framework for Urban Ecology: An Integration of Proximate and Ultimate Responses to Anthropogenic Change

Jenny Q. Ouyang,^{1,*} Caroline Isaksson,[†] Chloé Schmidt,[‡] Pierce Hutton,[§] Frances Bonier[¶] and Davide Dominoni^{||-#}

- **Cidades mais ricas/de países mais ricos**
- **Mais parques**
- **Áreas verdes**

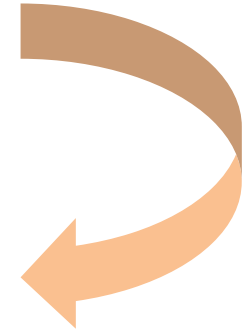
- Maior disponibilidade de alimento
- Maior disponibilidade de locais para nidificação



Político

- Sofre influência do coletivo
- **Interesses, demandas e decisões** políticas

- **Atua em escalas mais amplas**
 - **Municípios**
 - **Estados**
 - **País**



- **Justiça ambiental**
- **Políticas de consumo**
- **Políticas econômicas**

- **Bom funcionamento da nação**
- **Serviços ecossistêmicos**
- **Medidas de intervenção**

Article

Measuring the Ecological Impact of the Wealthy: Excessive Consumption, Ecological Disorganization, Green Crime, and Justice

Michael J. Lynch¹ , Michael A. Long², Paul B. Stretesky³, and Kimberly L. Barrett⁴




Social Currents
2019, Vol. 6(4) 377–395
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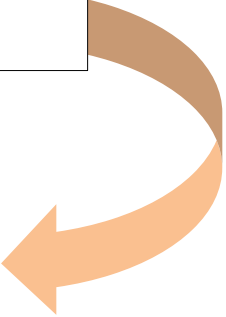


Opinion Article

Weak Democracies, Failed Policies, and the Demise of Ecosystems in Poor and Developing Nations

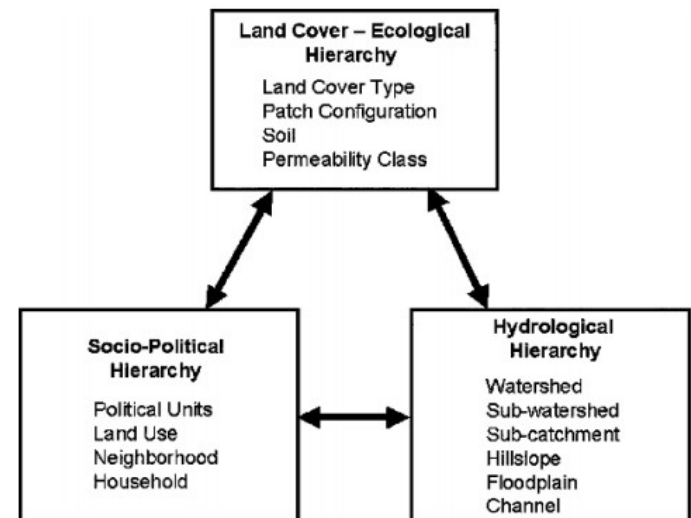
Fernando Mayer Pelicice¹

Tropical Conservation Science
Volume 12: 1–9
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DOI: 10.1177/1940082919839902
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- Países **pobres**
 - Países **em desenvolvimento**
 - Políticas fracas
 - Abertura para **exploração**
 - **Corrupção**
 - Grande **desigualdade** econômica e social
- 

Desigualdade

- 5 tipos de **hierarquias socioculturais** são importantes para padrões e processos dos sistemas ecológicos humanos
- **Riqueza** (econômica)
- **Poder** (Política)
- **Status** (Individual e Coletivo)
- **Conhecimento** (vantagens de controle)
- **Território** (recursos)



Desigualdade de renda



Article

The Impact of Urbanization on Income Inequality: A Study in Vietnam

Nguyen Minh Ha ^{1,*}, Nguyen Dang Le ² and Pham Trung-Kien ³

¹ Business and Economics Research Group, Ho Chi Minh City Open University, 97 Vo Van Tan Street, District 3, Ho Chi Minh City 700000, Vietnam

² Department of Financial Informatics and Statistics, Ministry of Finance, Ho Chi Minh City 700000, Vietnam

³ Faculty of Economics, Binh Duong University, 504 Binh Duong Avenue, Binh Duong Province 590000, Vietnam

Conservation Biology

Contributed Paper

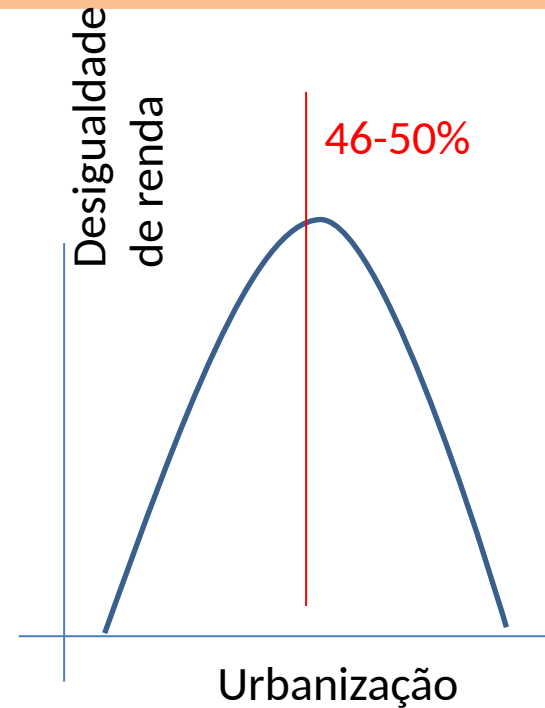
A Cross-National Analysis of How Economic Inequality Predicts Biodiversity Loss

TIM G. HOLLAND,^{*§} GARRY D. PETERSON,^{†**} AND ANDREW GONZALEZ[‡]

^{*}Department of Geography, McGill University, 805 Sherbrooke Street W., Montreal, Quebec H3A 2K6, Canada

[†]Department of Geography and McGill School of the Environment, McGill University, 805 Sherbrooke Street W., Montreal, Quebec H3A 2K6, Canada

[‡]Department of Biology, McGill University, 1205 Docteur Penfield Avenue, Montreal, Quebec H3A 1B1, Canada



Prejuízos à biodiversidade

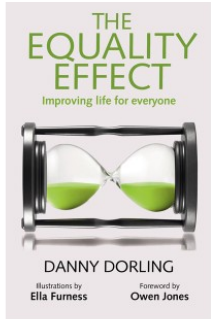
The Impact of Population, Affluence, Technology, and Urbanization on CO₂ Emissions across Income Groups

Lars Sorge^{a,b} and Anne Neumann^{a,c}

^aDIW Berlin, ^bBerlin University of Technology, ^cNTNU Trondheim

July 2019

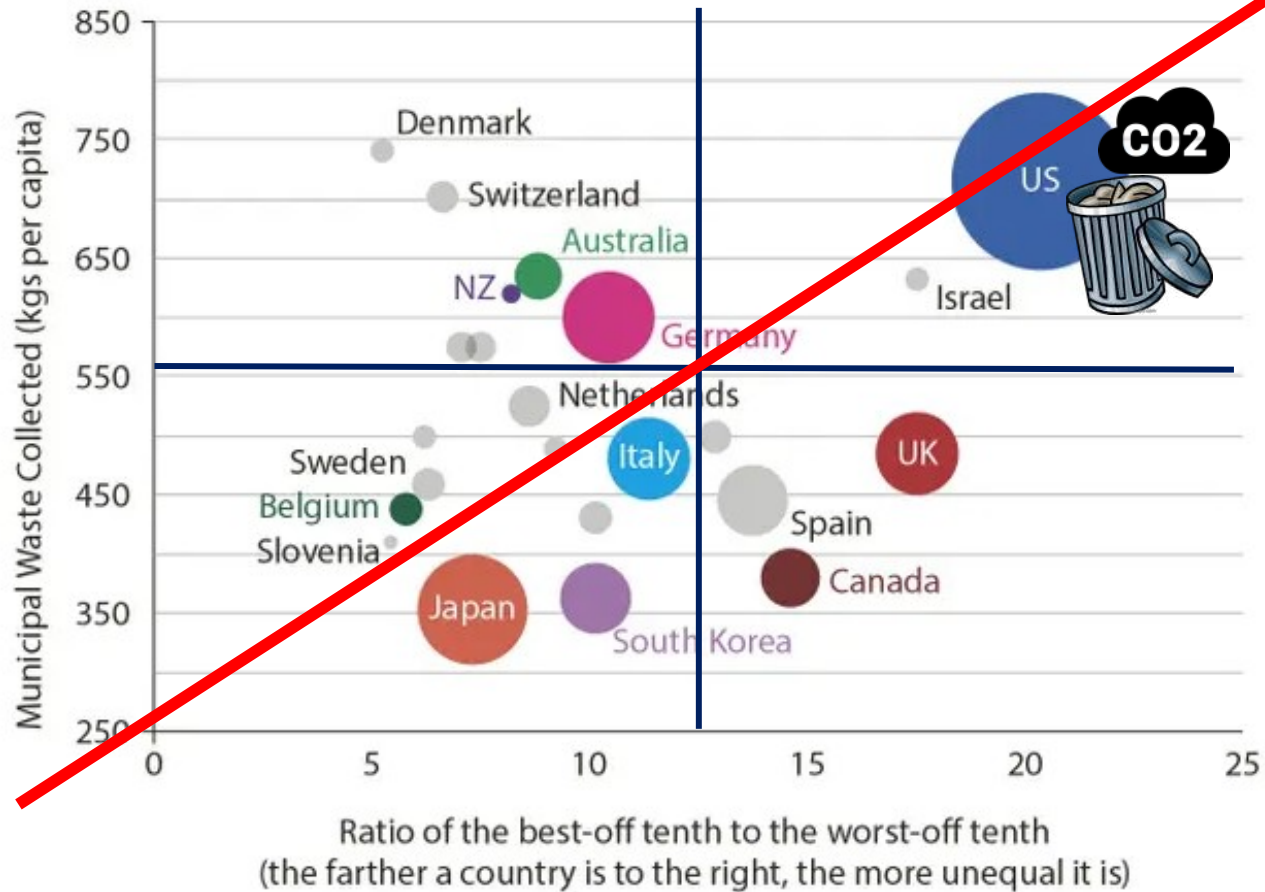
Desigualdade de renda



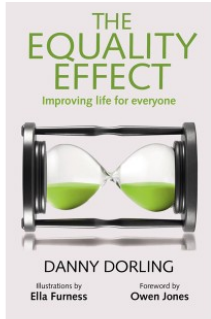
Danny Dorling

Tue 4 Jul 2017 10:41 BST

- + produtos que não duram (porém mais baratos)
- + desperdício
- + lixo

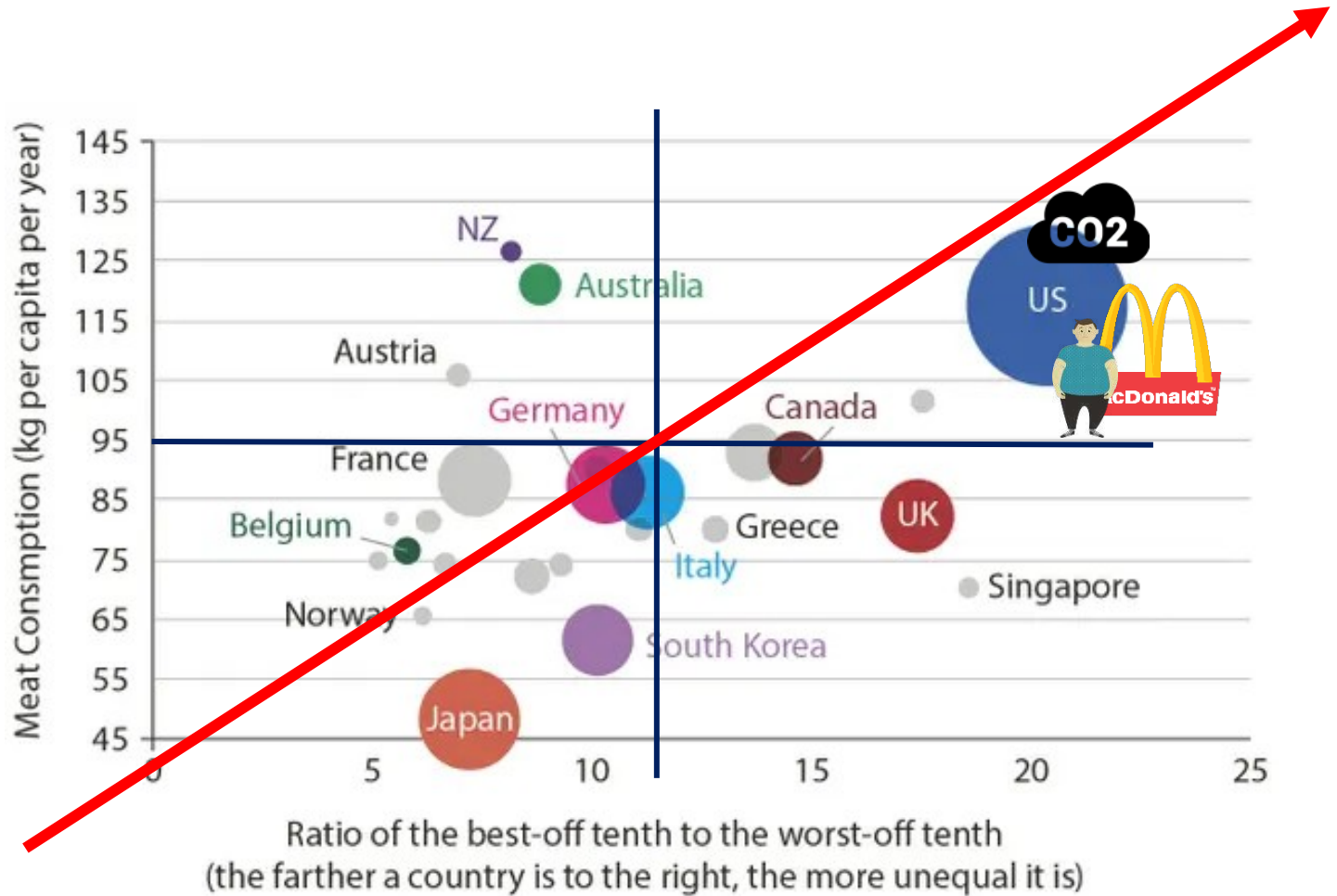


Desigualdade de renda

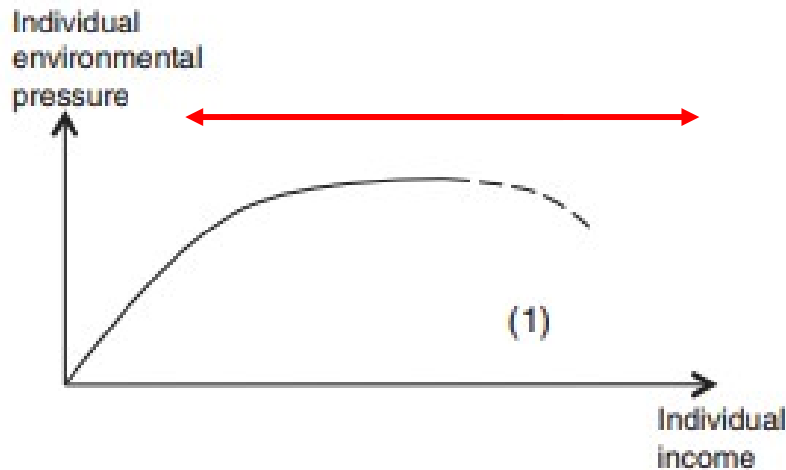


Danny Dorling

Tue 4 Jul 2017 10.41 BST



Desigualdade de renda



- Grupos marginais exercem uma **menor** pressão ambiental
- Aumento e redução de renda
- “Igualdade” é ambientalmente desfavorável a princípio
- **Escolhas** de consumo

- **Satisfação material** para depois a visão ambiental se concretizar

- Investimento em desenvolvimento sustentável

Ecological Economics 116 (2015) 191–200

Contents lists available at ScienceDirect

Ecological Economics

journal homepage: www.elsevier.com/locate/ecocon



ELSEVIER



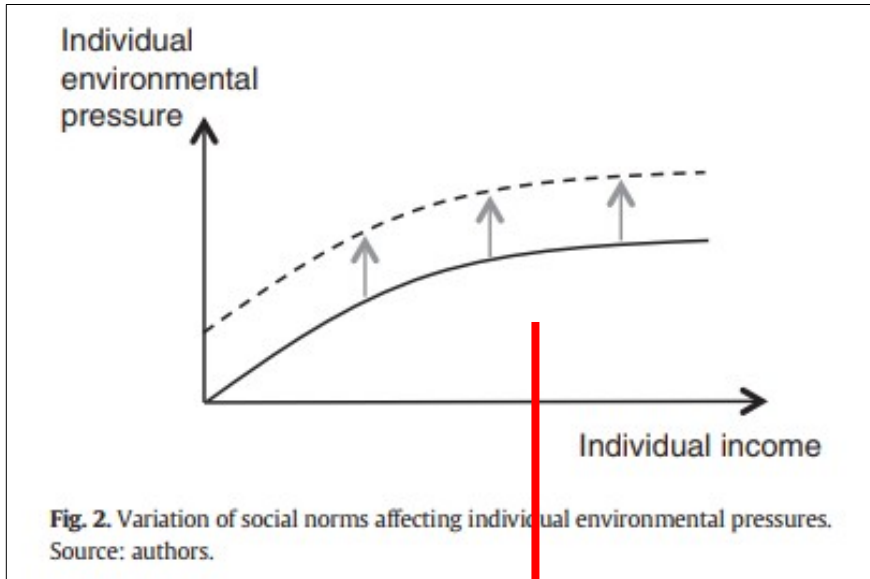
Surveys

Mechanisms explaining the impact of economic inequality on environmental deterioration

Alexandre Berthe, Luc Elie *



Desigualdade de renda



Berth & Elie (2015)



- Consumo conspícuo
- Consumo ostentatório
- Normas sociais
- Ricos VS Pobres
- Pressão ambiental
- Resultado da **desigualdade**
- Grupos menos favorecidos em competição por **status social**



- **Marxismo ecológico**
- **Capitalismo**



Ecological Economics 11 (1994) 169–178

ECOLOGICAL
ECONOMICS

Inequality as a cause of environmental degradation

James K. Boyce

Department of Economics, University of Massachusetts, Amherst, MA 01003, USA

Received 15 March 1993; accepted 15 February 1994

James K. Boyce

- Balanço entre **vencedores e perdedores**
- Desigualdade econômica e social
- **Desigualdade ambiental**



As pessoas precisam ter consciência dos prejuízos que a degradação ambiental causa a suas vidas. O que os poderosos, os “vencedores” segundo o sistema de Boyce deveriam ressarcir os “perdedores” pelos danos ambientais causados, uma vez que estes primeiros não são donos dos ecossistemas e seus serviços.



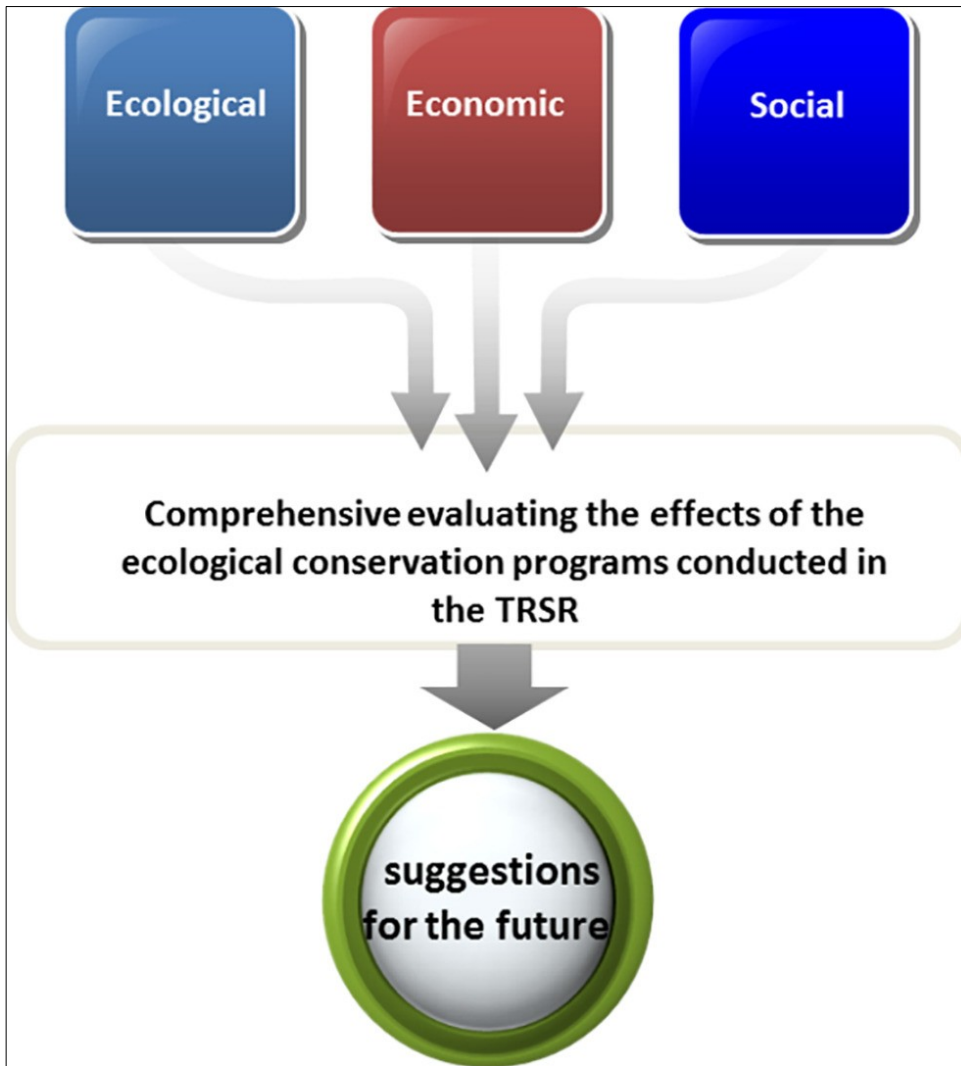
Changing use of ecosystem services along a rural-urban continuum in the Indian Trans-Himalayas

Ranjini Murali ^{a, b, c} ✉, Kulbushansingh Suryawanshi ^{a, b}, Stephen Redpath ^{a, d}, Harini Nagendra ^e, Charudutt Mishra ^{a, b}

Highlights

- Local ES use decreased along a gradient of urbanization.
- Imported ES use increased along a gradient of urbanization.
- Local ES use increased with income only in small urban centres.
- Use of imported ES increased with income in all settlement types.
- Changes caused due to urbanization start early in the rural-urban continuum.

- **Redução** do uso dos serviços ecossistêmicos
- Aumento do uso de serviços *importados*
- Em cidades a **renda** foi um fator determinante para a obtenção e uso dos SE



Ecological and socioeconomic effects of ecological restoration in China's Three Rivers Source Region

Wenping Sheng ^a, Lin Zhen ^{a, b, c}, Yu Xiao ^a, Yunfeng Hu ^a

- Educação básica
- Educação ambiental
- Programas sociais

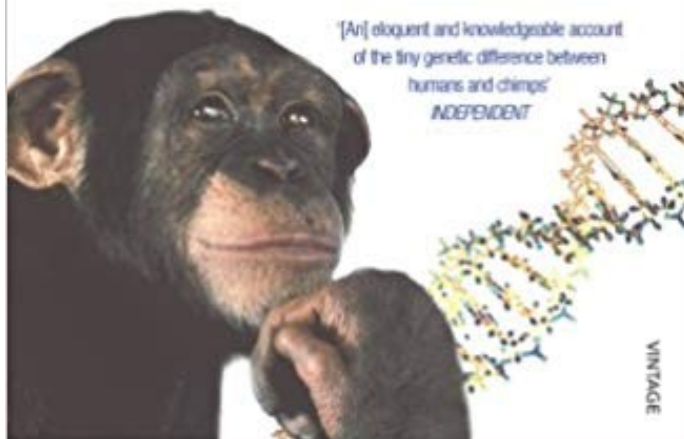


JARED DIAMOND

author of guns, germs and steel and collapse

the rise and fall
of the
third chimpanzee

how our animal heritage affects the way we live



'[An] eloquent and knowledgeable account
of the tiny genetic difference between
humans and chimps'
INDEPENDENT

VINTAGE



7ª EDIÇÃO

Fernando Fernandez

*O poema
imperfeito*

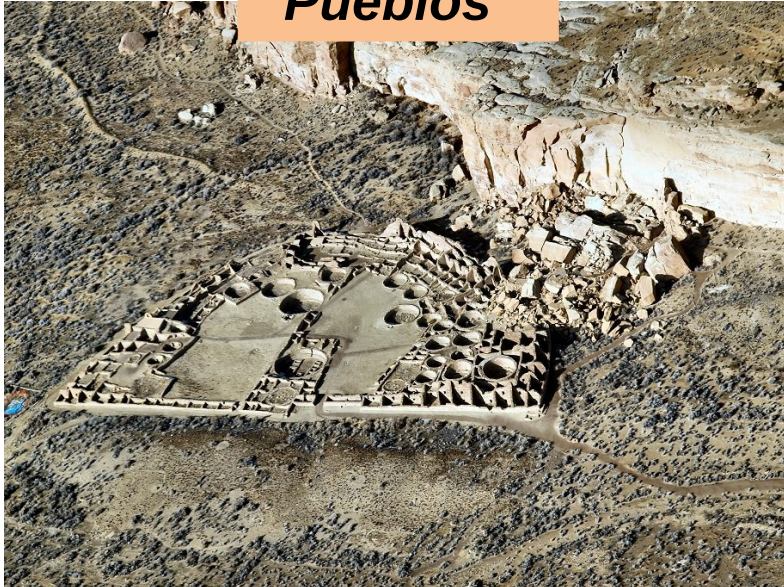
*Crônicas de Biologia,
Conservação da Natureza
e seus Heróis*

FUNDAÇÃO GRUPO Boticário
de Proteção à Natureza

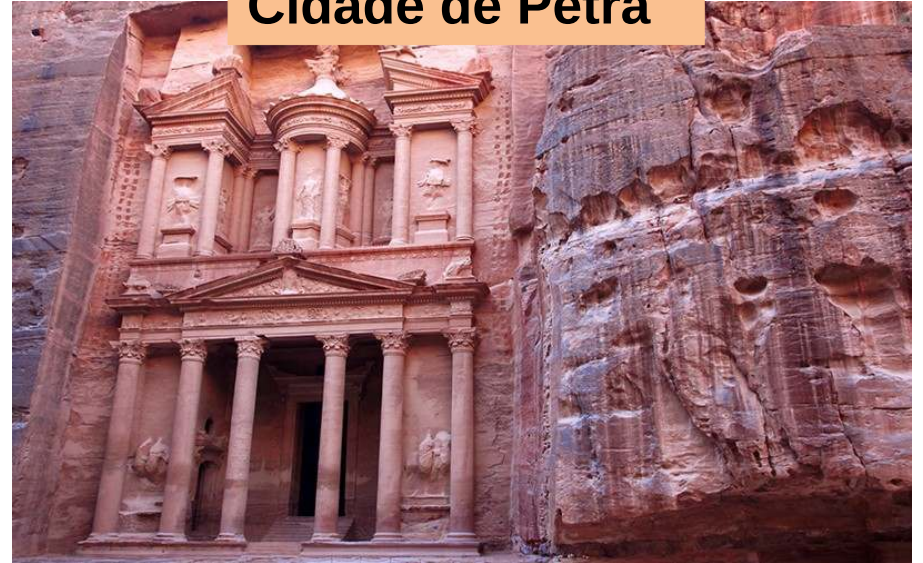
Editora



“Pueblos”

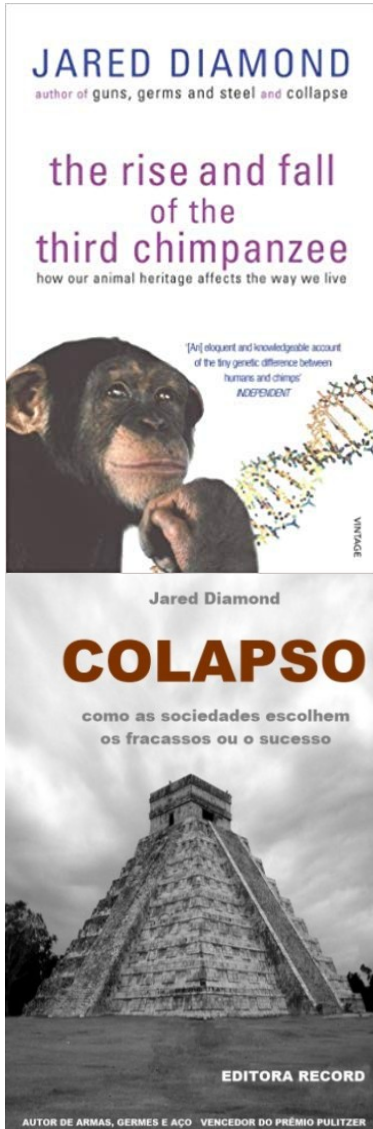


Cidade de Petra



Ilha de Páscoa (*“Rapa Nui”*)





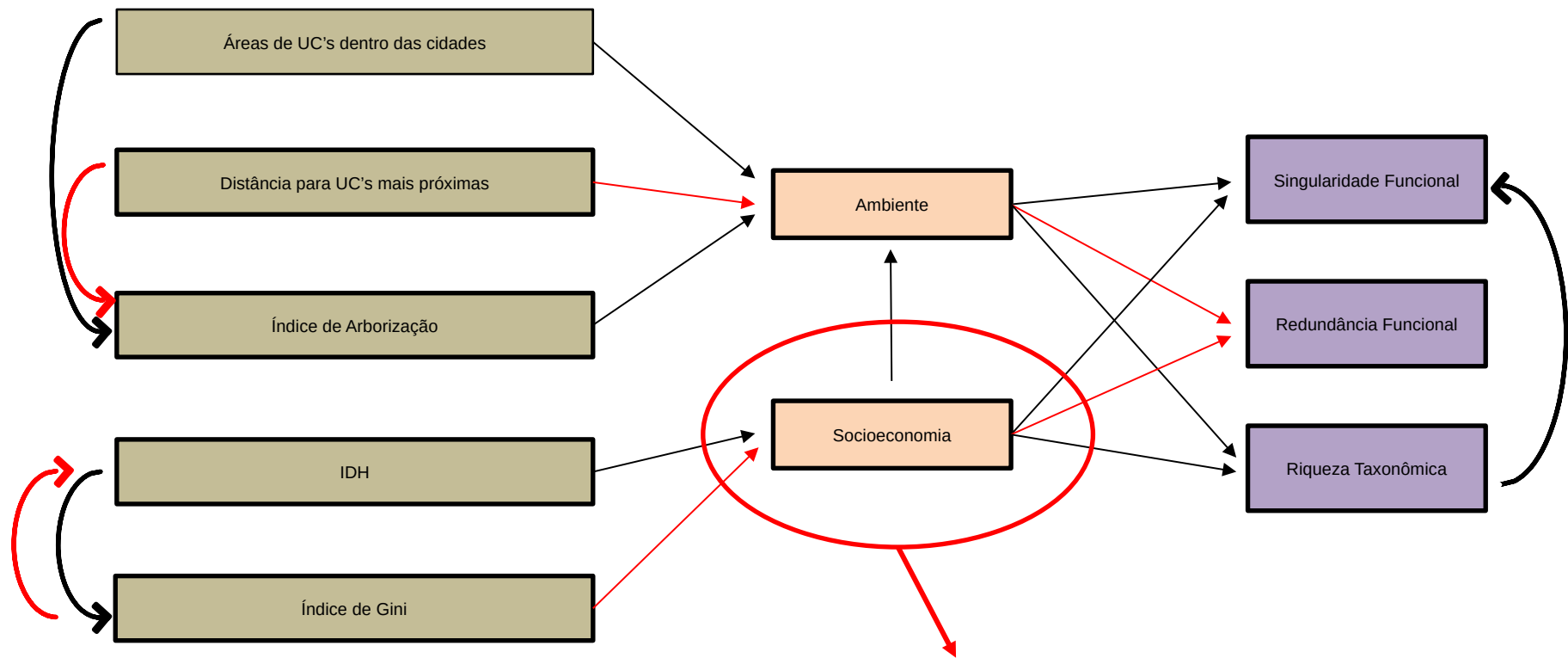
- **Superpopulação**

- Mudanças de hábitos
- Estilo de vida
- Consumo
- Sustentabilidade

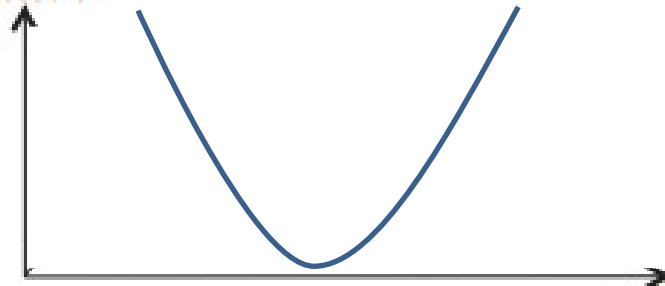


Environmentally friendly





Individual
environmental
pressure



Individual
income