



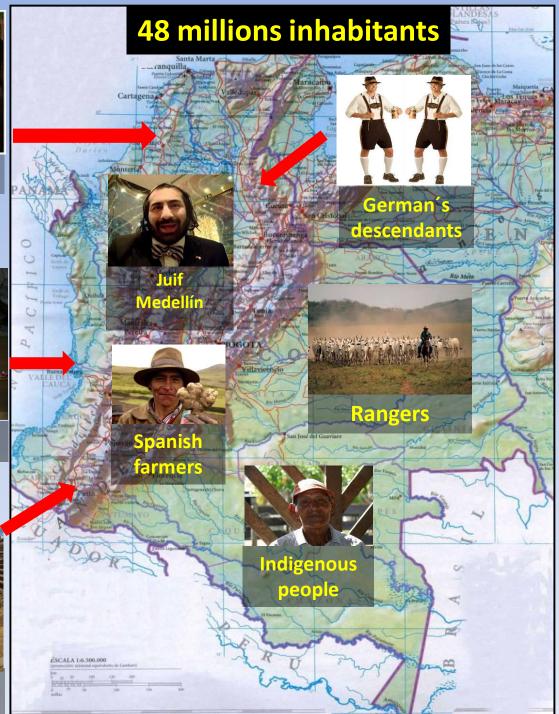
Arab migration



Afro-descendants

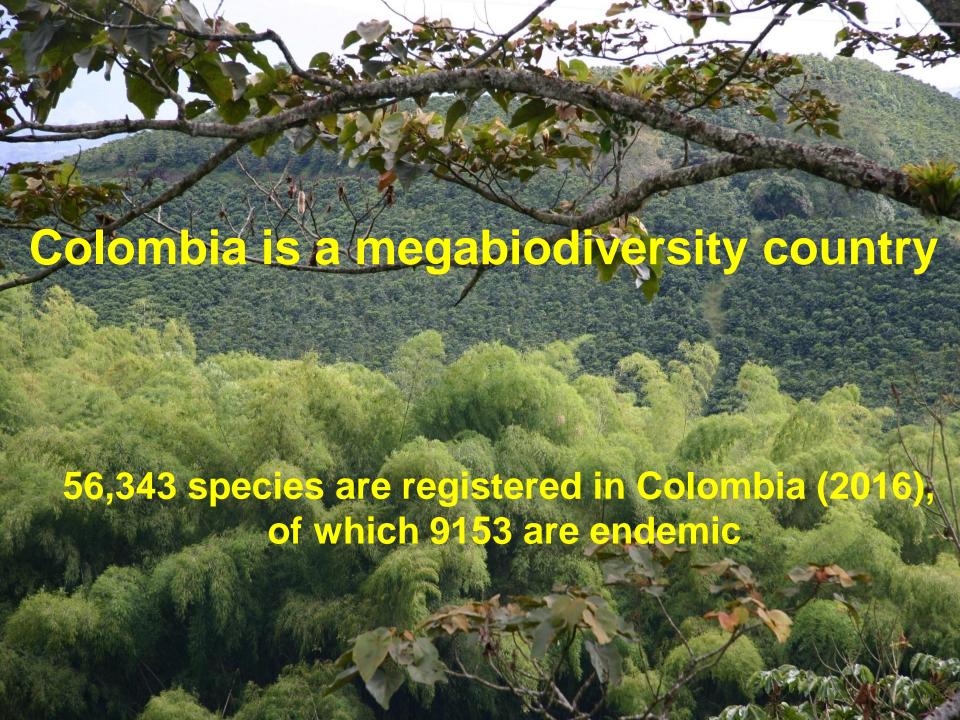


Inca's descendants



87 indigenous ethnic groups, 3 different groups of Afro-Colombian population

At the same time, it has 64 Amerindian languages.





Second place in plants, amphibians, butterflies and freshwater fish



third place in species of palm trees and reptiles and occupies the fourth place in the biodiversity of mammals



COLOMBIA FACES VARIOUS CONFLICTS IN THE RELATIONS DEVELOPMENT - ENVIRONMENT

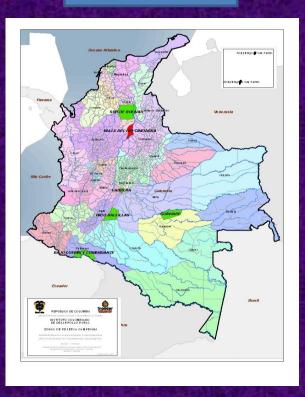
Unstable land property- Land Grabbing

Climate changes

Dependence on multinationals

Financing
Development
Corruption

Territorial control security



Neighbor countries migration, drug trafficking violence

Legal and Ilegal Mining

Poverty

National Parks

Inequalities

Dependence
Lack of local
technologies
Weak scientific
institutions

Non human and human health

Effects

Private sector Techno-science Strong policies

SOME COLOMBIAN AGRARIAN PROBLEMS

Land Properties
Rights
50 years of fight
Peace process

Resource
degradation
Erosion – Salinization
Water pollution
Ecosystem

Open market
Polarized society
Excluded peasant

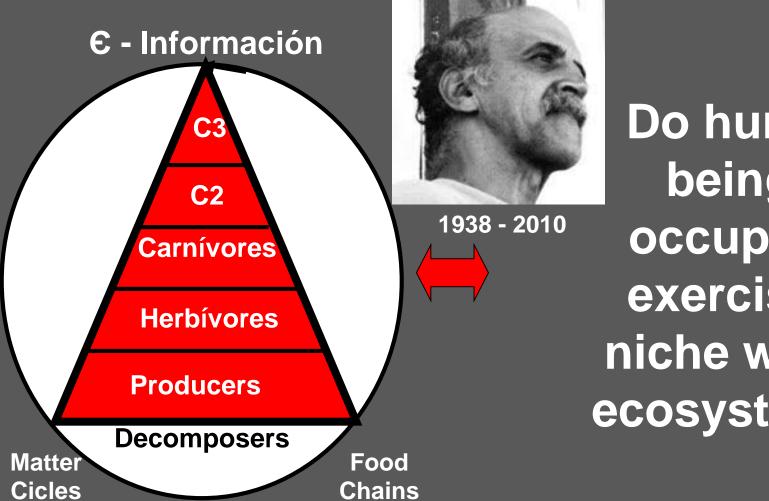
Little support from the current government for the peace process

but nevertheless, agriculture (and land ownership) are key in the current peace agreement of Colombia

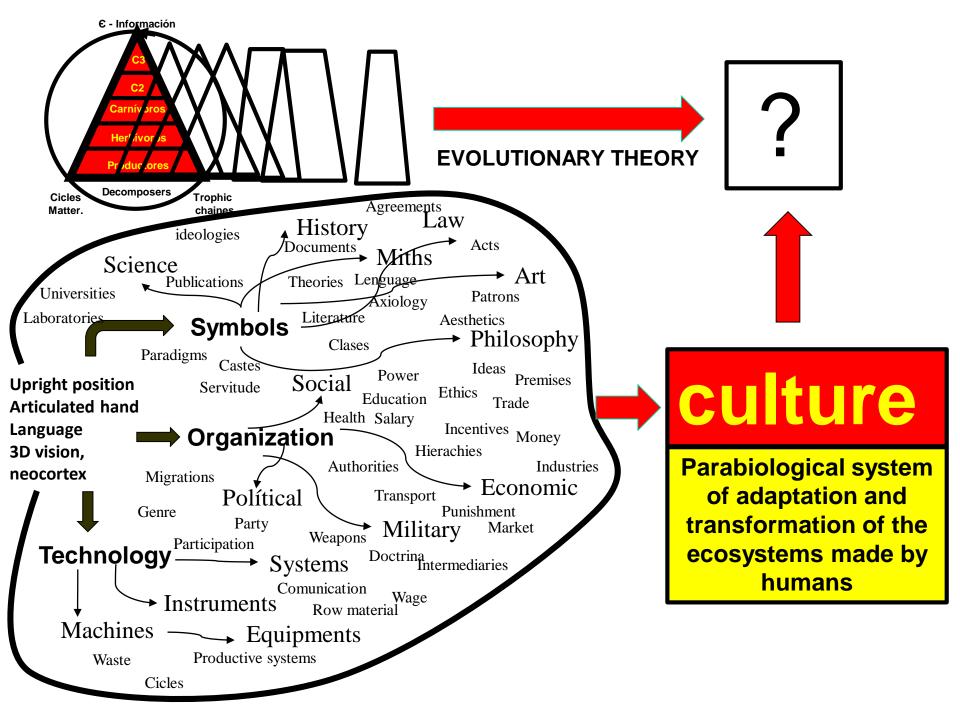




The Augusto Angel Maya question

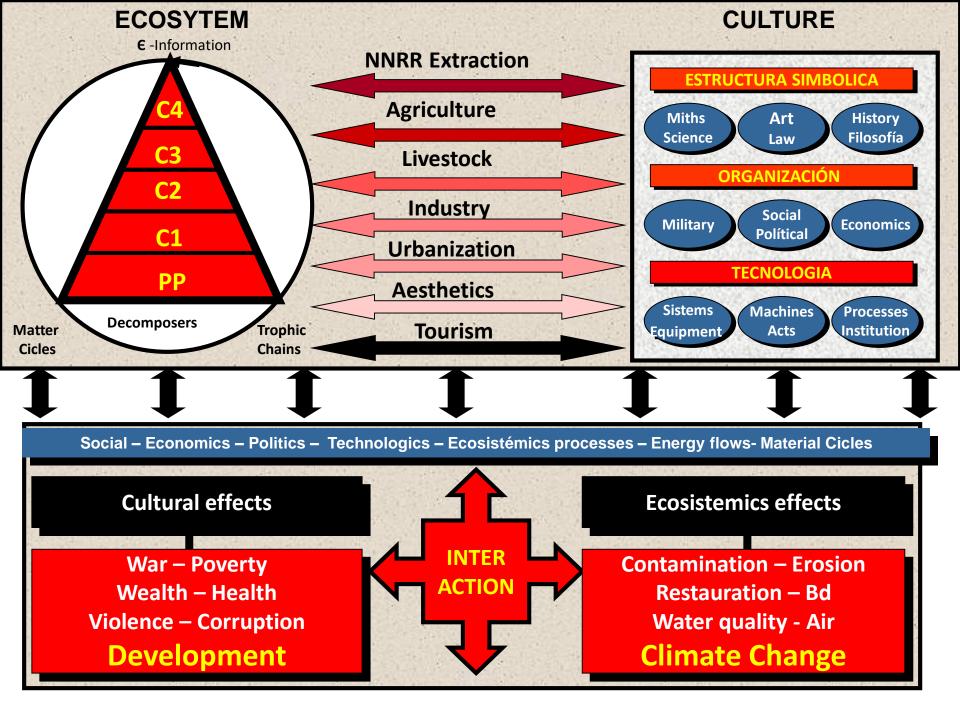


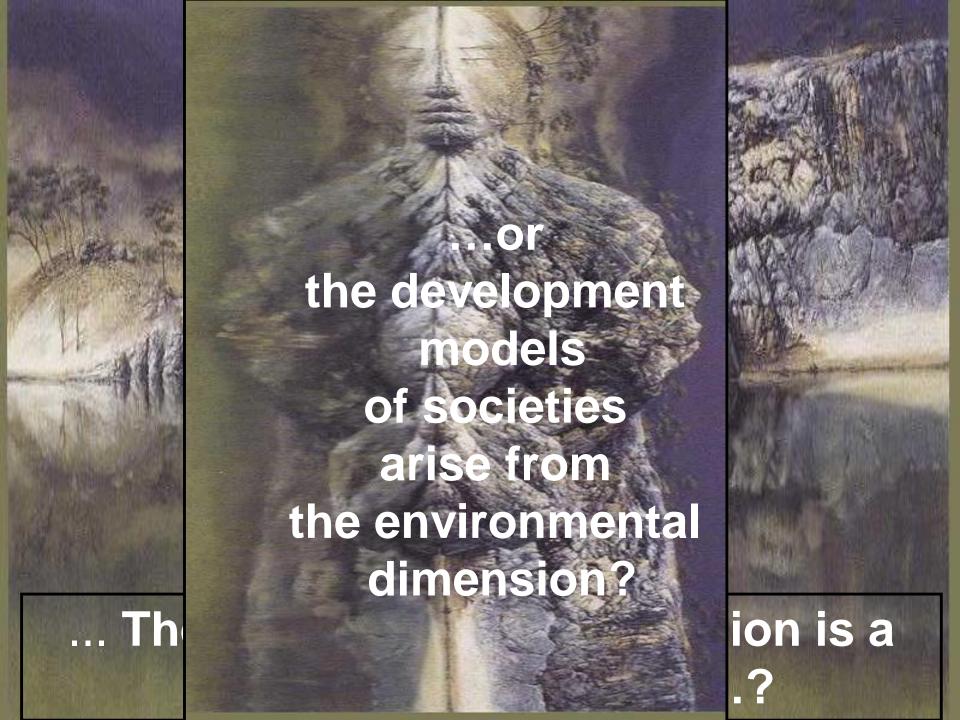
Do human beings occupy or exercise a niche within ecosystems?



The answer to the Augusto Angel's question:

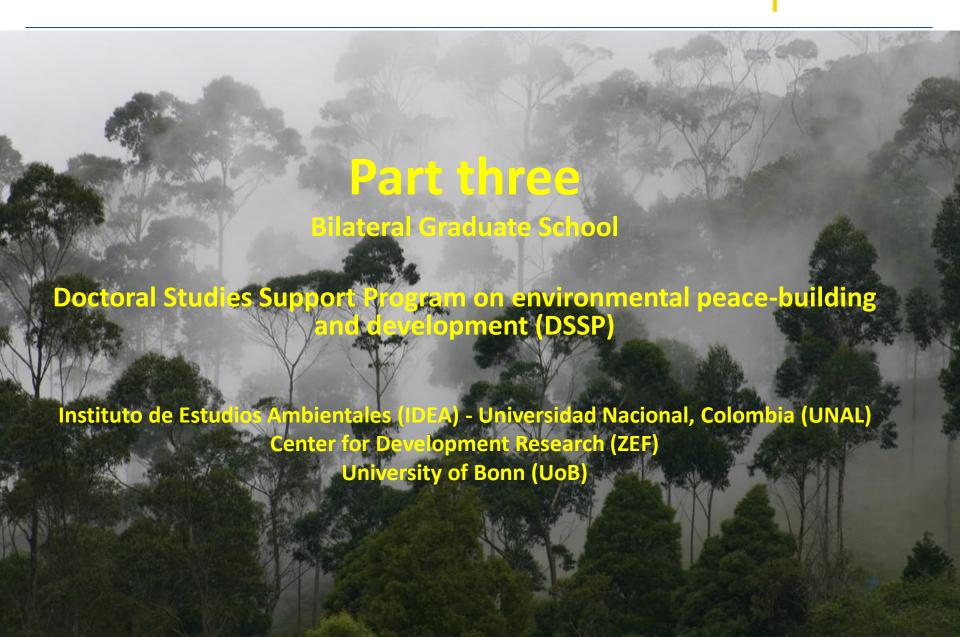
"...The niche of humanity is the cultural and adaptive transformation of ecosystems..."













German Federal Ministry for Economic Cooperation and Development (BMZ) and German Academic Exchange Service

DAAD: Program "Bilateral Graduate Schools" working on SDGs

- new alliances
- joint knowledge production
- Transformative action!
- ☐ 7 graduate schools worldwide
- ☐ Sept. 2016 Dec. 2020
- **□** € 450.000 p.a. (5 years)
- ☐ 4 in Africa, 2 in Latin America, 1 in Asia







































Bilateral graduate Program of DAAD / Network

Vietnam	
Colombia	Doctoral Studies Support Program (DSSP) on "Environmental peace- building and development in Colombia" Universidad Nacional de Colombia, University of Bonn/ZEF
Peru	
Ethiopia	
Ghana/Nigeria	
Cameroon	Yaoundé – Bielefeld Bilateral Graduate School Natural Products with Antiparasite and Antibacterial Activity (YaBiNaPA) Université de Yaoundé I, University of Bielefeld
South Africa	Wits – TUB Urban Lab Interdisciplinary Bilateral Postgraduate Studies Programme for Sub-Saharan Africa University of the Witwatersrand, Technische Universität Berlin



IDEA and **ZEF**

- Internationally operating research institutes with a focus on "development - environment"
- Interdisciplinarity integrating disciplines with new concepts and methods
- transdisciplinarity (reduce differences between science and practice, science and politics)
- Institutes of higher education
 - Master in environmental studies (IDEA) **Doctoral Program on Environmental Studies (2020)**
 - Bonn International Graduate School Development Research (BIGS-DR) (ZEF)









Main objectives of DSSP (overview):

- Introducing interdisciplinary, integrative and innovative scientific approaches, concepts and methods on ecosystem – culture relations, peace and conflict (SDG 4)
- Developing a research agenda addressing the SDGs, (1,2, 4, 11, 15, 16).
- 3. Internationalizing science and research with transatlantic and regional partnerships (SDG 16)
- Exploring and critically reflecting the role of higher education for addressing the SDGs (embeddedness of knowledge production) (SDG 4)



Goal 1: Introducing interdisciplinary, integrative and innovative scientific approaches, concepts and methods (SDG 4)

Course Work

- English course (Jan. Feb.)
- Attending running programs of IDEA*
- 1st Interdisciplinary module (April May)
- Summer School in Germany (June July)
- Inauguration (kick-off workshop) in October 2018
- 6 scholarships per year to UNAL doctoral students
- 2 Writing Fellowships
- 2 Research Fellowships



Integration of other heartquarters of IDEA

- Bogotá
- Medellín
- Manizales
- Palmira

AND: Countries in the region

Network of stakeholders from policy and practice

- → Other scientific programs and projects (CAPAZ)
- → Social movements (CesPAZ, IALA)
- → NGOs on land conflict, peace, just development, food security, food sovereignty etc. (Grupo SEMILLAS, FIAN)

Chosen students 2018-2019



Students 2018

Name	Doctoral Program	Title of the thesis project	Director(a)
Mauricio Alberto Ángel Macías	Public Health	Contamination of air and health in Bogotá in the second half of the 20th Century, an environmental history.	Stefania Gallini
Ingrid Quintero Silva	Agroecology	Main Agroecological Structure, activities of dung beatles and soil fertility in agroecological systems of the high mountains.	Tomás León
Carolina Tobón	Geography	Social metabolism, sustainability and territory in the basin of Bogotá river.	Nohra León
David Andrés Zamora Ávila	Civil Engineering	Distribution of ecosystem services in a hidrological basin by coupling ecohydrographical and ecohydrological models.	Erasmo Alfredo Rodríguez
Julián Augusto Vivas García	Agroecology	Criteria for framing public policies towards an agroecological transition in Colombia.	Carmenza Castiblanco
Juliana Giselle Sabogal Aguilar	Agroecology	Impact of the agrarian politics (1960-2010) and contributions of the land reform (2016) for the territorial peace.	Marina Sánchez de Prager

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	5 [udents 2019
Name	Doctoral Program	Title of the thesis p

Cauca North.

companies

of Cauca Valley

Influence of environmental practices of

the Green Supplies Chaines approach on

Environmental analysis of land grabbing

Agroecological Farmers Market Network

Land modeling using systems dynamics

Towards an integral conception of the

right of access to land in the framework

and emergetic synthesis as a

of the post-agreement

management tool for ordering

in three natural regions of Colombia

Organizational strengthening of the

sustainable performance: an empirical

study in Colombian manufacturing

Director(a)

Tomás León

William Ariel

Sarache

Alice Beuf

Diego Iván

John Fabio

Acuña

Ángel Sánchez

Nelson Camilo

Sánchez León

Castro

project **Environmental analysis of the indigenous** Roger Fabián agroecosystems TUL of Nasa people Agroecology García Díaz (Toribío, Tacueyó and San Francisco,

Engineering-

Industry and

Organizations

Geography

Agroecology

Law

Civil Engineering

Mariana Trujillo

Patricia Gómez

Carlos Arturo

Deissy Giovanna

Quintero Arias

Diego David

Aldana

Aristizábal

Rodríguez

Gallego

Nore

Summer School at ZEF – Bonn University May /July 2018-9

Term papers (interdisciplinarity)

Protected areas and peace agreement in Colombia.

Carolina Tobón (Chemist), Mauricio Ángel (Doctor), David Zamora (Engineer).

Public policies and agroecological practices.

Julián Vivas García (Economist), Juliana Sabogal (Sociologist), Ingrid Quintero (Biologist).

Six months research fellowship

Juliana Cepeda Valencia (UN / Faculty of Agricultural Sciences)

Identifying and evaluating worthy forms of coexistence: citizens and communities that bet on territorial development

Milson Betancourt (IDEA / UN)

Territorial and environmental challenges for peace in Colombia

Goal 3: Internationalize science and research and foster comparative analysis (SDG 4, 16)

- **Bonn International Center for Conversion** (BICC), Markus Rudolph*
- University of Development Studies (Northern /Upper East Region, Ghana) → Michael Ayamga (Faculty of Agribusiness and Communication Sciences), Emmanuel Derbile (Dean of Faculty of Planning and Land Management) \rightarrow transatlantic partnership
- Universidad Nacional Autónoma de Nicaragua Managua (UNAM) → Freddy Ariel Sánchez Ruiz, Darya Blandon, Rommel Zambrana -> regional partnership

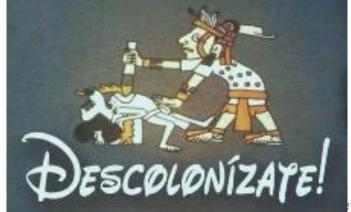
International conference (2019)

Environmental thinking and alternatives to development from a South – South / South - North perspective" (Thyssen Foundation)

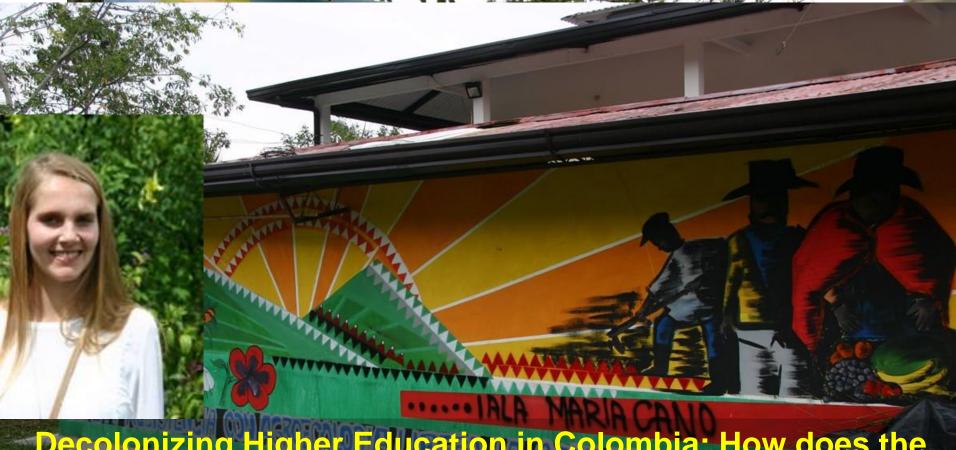
Goal 4: To Explor and critically reflect the role of higher education for the SDGs (SDG 4: Quality education for all)

- The co-production of knowledge is important to establish cooperation at many levels
- There are no superior / inferior knowledges → but a hierarchization of knowledges
- Consider the relations and asymmetries of power → knowledge production and epistemologies are contextualized and embedded in its trajectories
- Including actors of civil society, social movements, private sector → multi-stakeholder approach

 Decolonize methodologies / reflexivity / positionality → empowerment in planning / learning for transformative action







Decolonizing Higher Education in Colombia: How does the Instituto Agroecológico Latinoamericano María Cano attempt to produce knowledge in a decolonial way?

Claudia Lefkes and Eva Youkhana

Other advances ZEF







DSSP Research Data Portal (Geoportal) for

- Sharing of research data with the scientific and local communities
- Internal sharing of restricted (confidential) data
- Sharing and visualizing geospatial data
- Creating maps by portal users



Observatory of environmental conflicts



Maracaibo Cartagena a Rica Panamá Vichada Petróleo Hidroeléctrica Oro Carbón Turismo Puerto Biomasa Amazonas Gestión del agua En análisis (ejolt) Leaflet | (cc-by-sa) OCA-IDEA-UN / OpenStreetMap



THE ENVIRONMENTAL APPROACH: ECOSYSTEM / CULTURE INTERRELATIONS

