

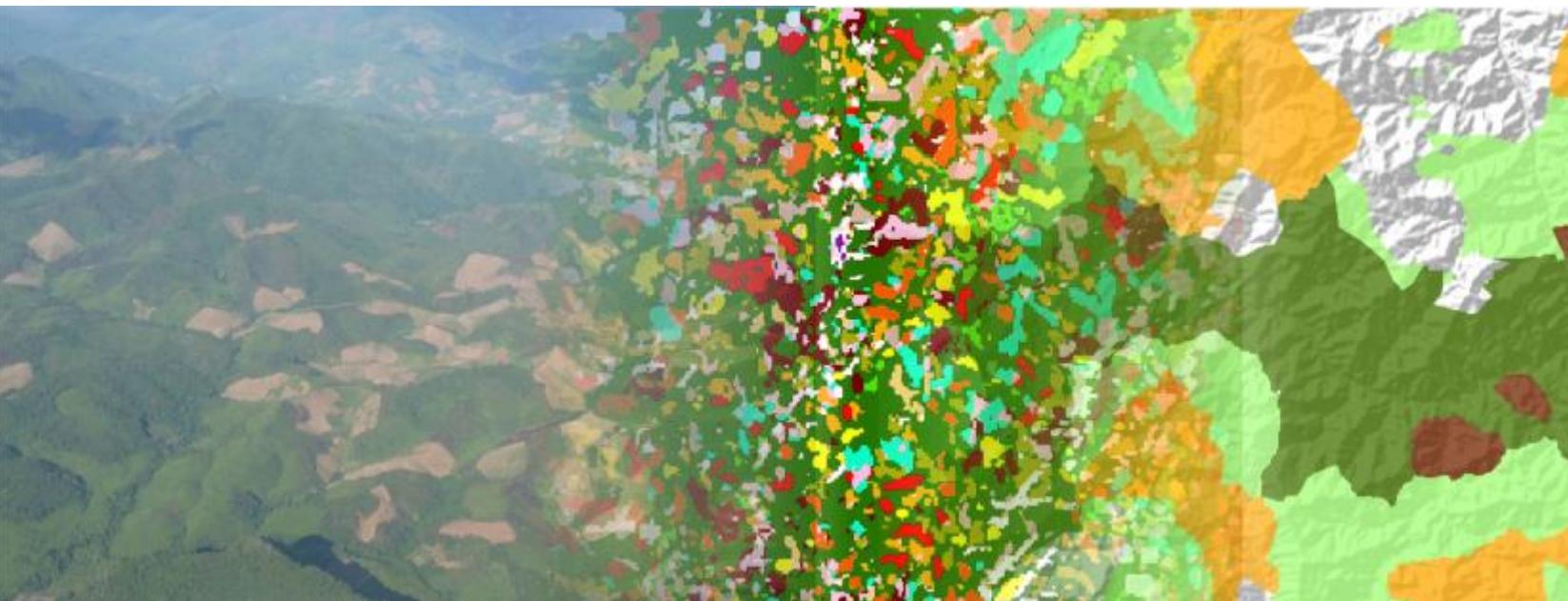
Open Data als Katalysator für nachhaltige Entwicklung?

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CENTRE FOR DEVELOPMENT
AND ENVIRONMENT

Beispiele angewandter Forschung in Südostasien



Vorlesung Open Data
Andreas Heinimann, Peter Messerli, CDE & GIUB
26. April 2018

Übersicht:

1. Einführung: Wissen für Nachhaltige Entwicklung
2. Wichtige Fragen auf dem Weg zu Open Data für NE
Available? Adequate? Accessible? Enabling?
Beispiele aus Laos und Myanmar
3. Entwicklungsansprüche transparent machen
mittels crowd-sourcing
Who - What - Where?

1 NO
POVERTY



2 ZERO
HUNGER



3 GOOD HEALTH
AND WELL-BEING



4 QUALITY
EDUCATION



5 GENDER
EQUALITY



6 CLEAN WATER
AND SANITATION



7 AFFORDABLE AND
CLEAN ENERGY



8 DECENT WORK AND
ECONOMIC GROWTH



9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



10 REDUCED
INEQUALITIES



11 SUSTAINABLE CITIES
AND COMMUNITIES



THE GLOBAL GOALS

For Sustainable Development

13 CLIMATE
ACTION



14 LIFE BELOW
WATER



15 LIFE
ON LAND



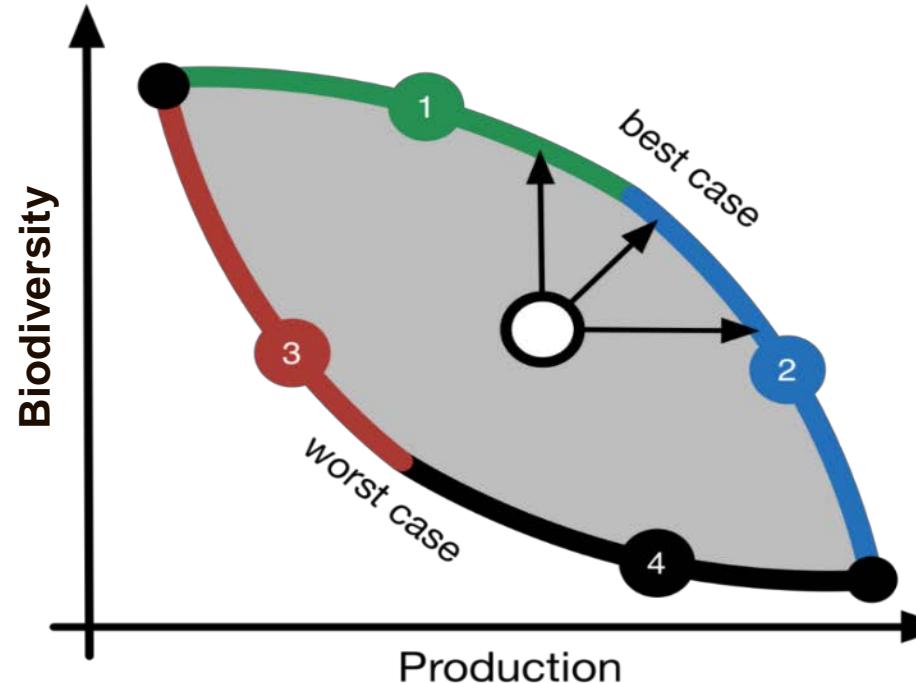
16 PEACE AND JUSTICE
STRONG INSTITUTIONS



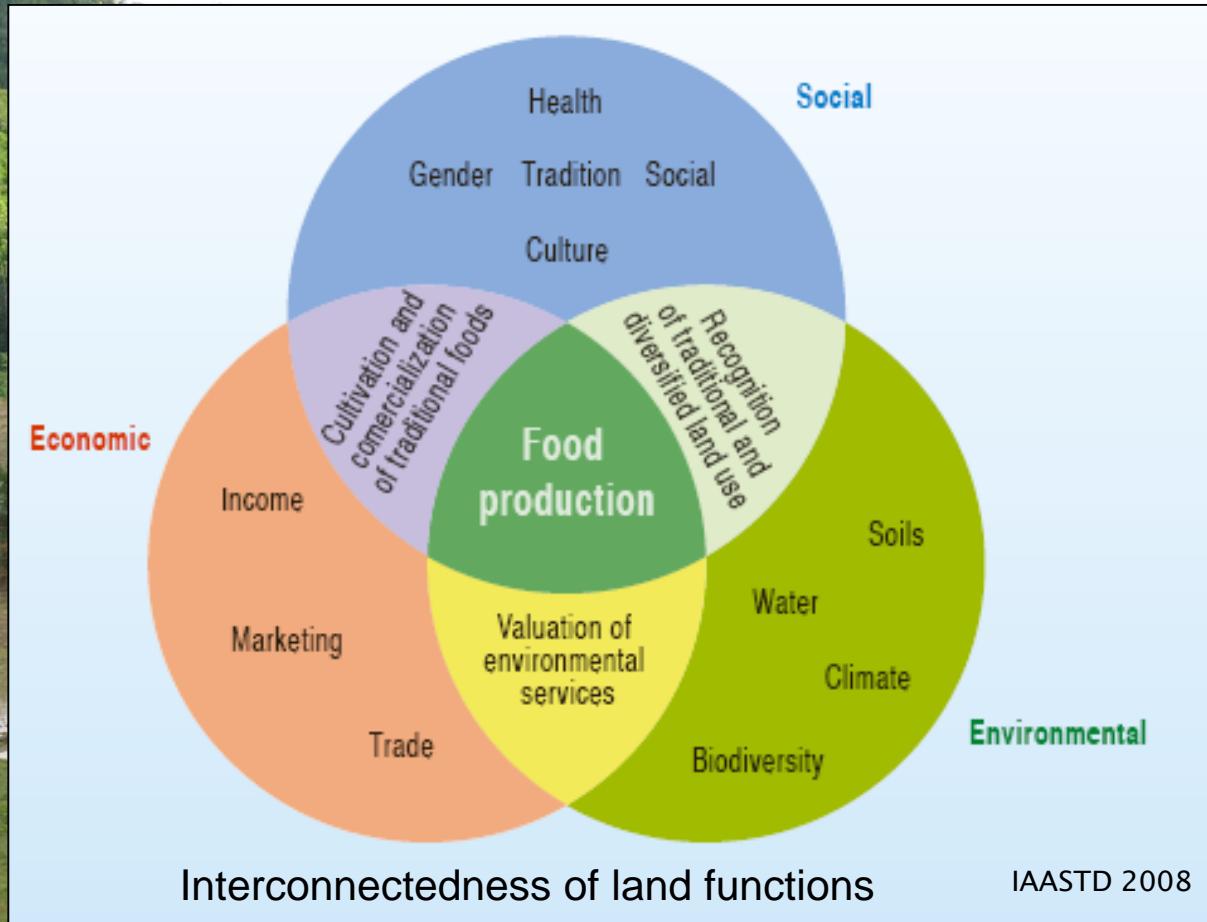
17 PARTNERSHIPS
FOR THE GOALS



BUT: issue of trade-offs



Nachhaltige Landnutzung

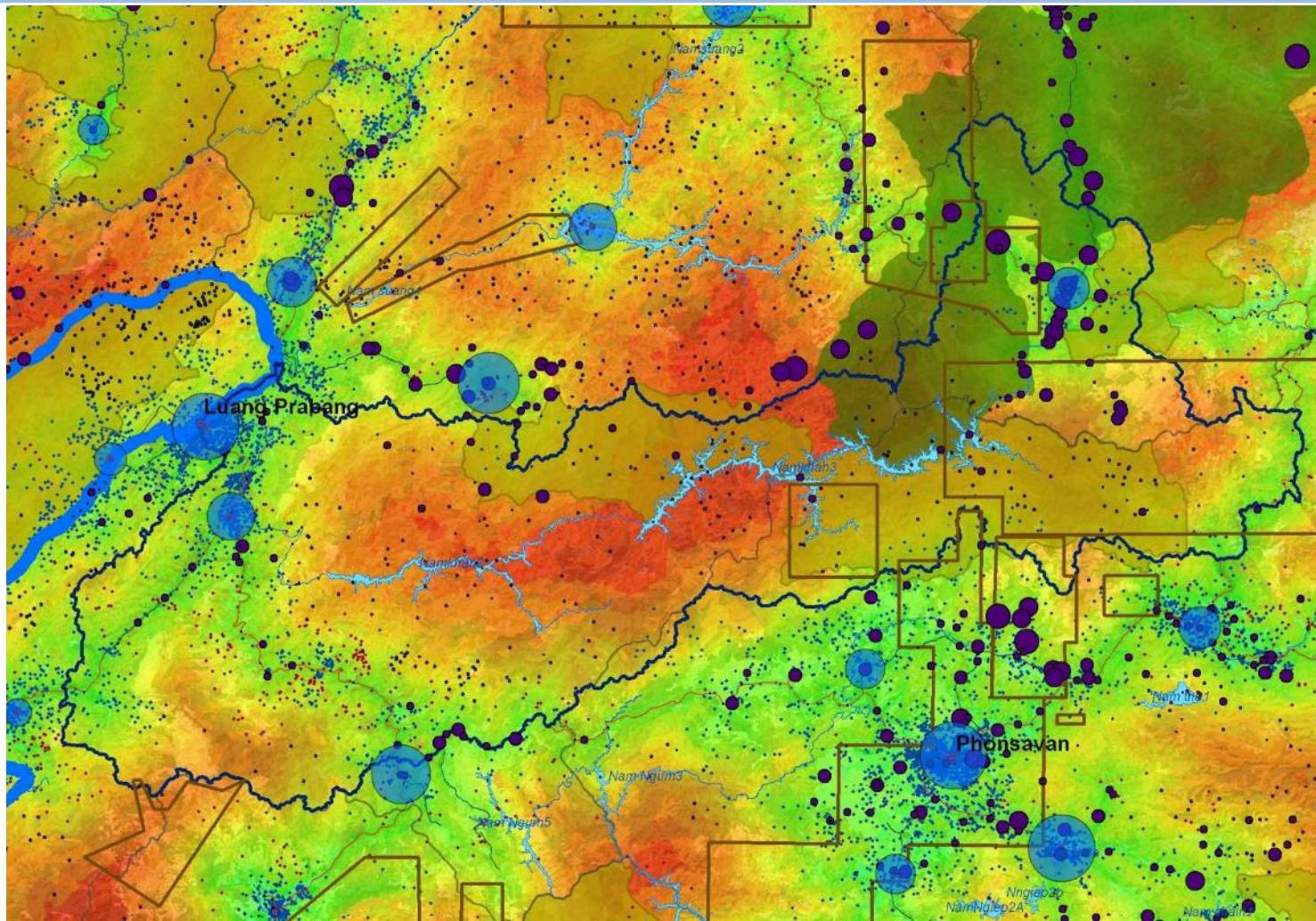


Herausforderungen für Daten- und Wissensproduktion (1/2)

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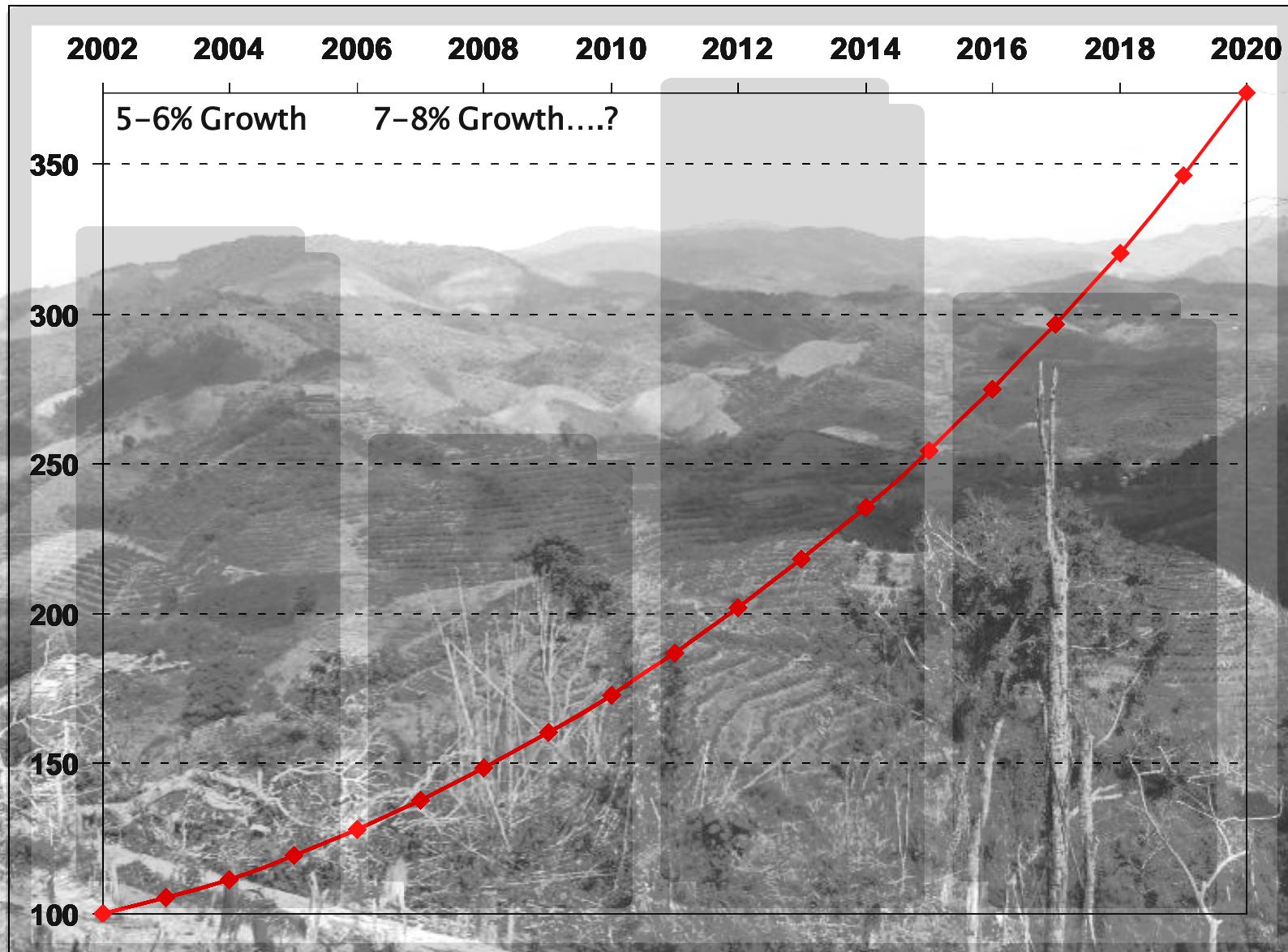
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Herausforderungen für Daten- und Wissensproduktion (2/2)



Herausforderungen für Daten- und Wissensproduktion (2/2)

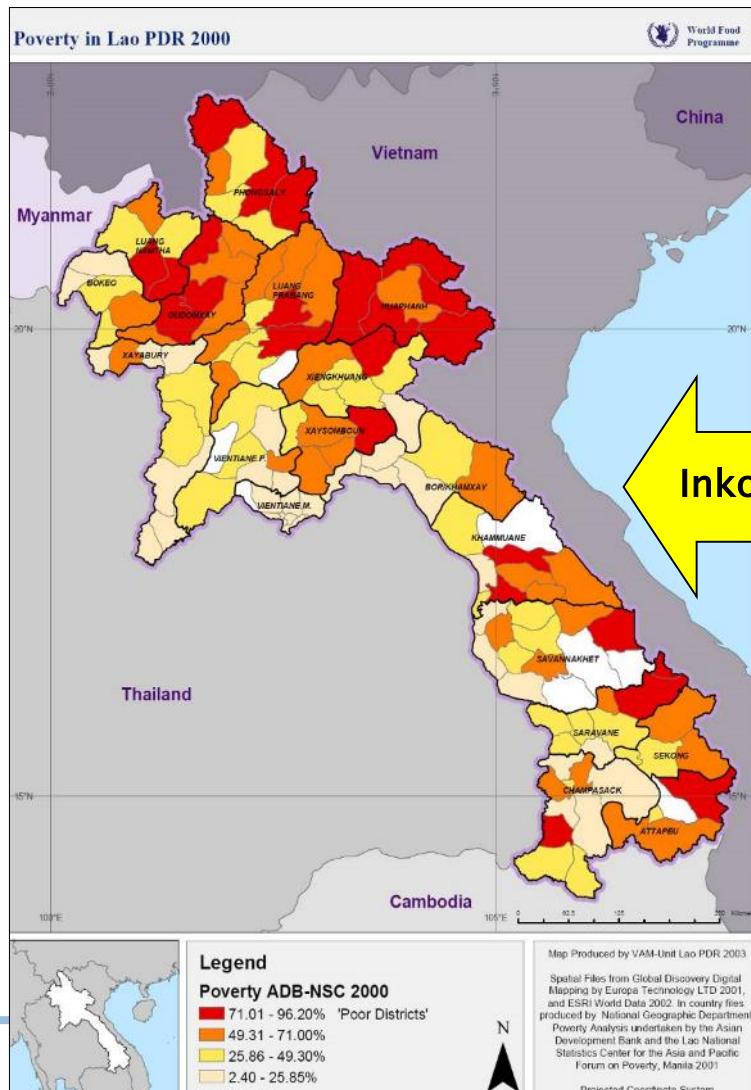




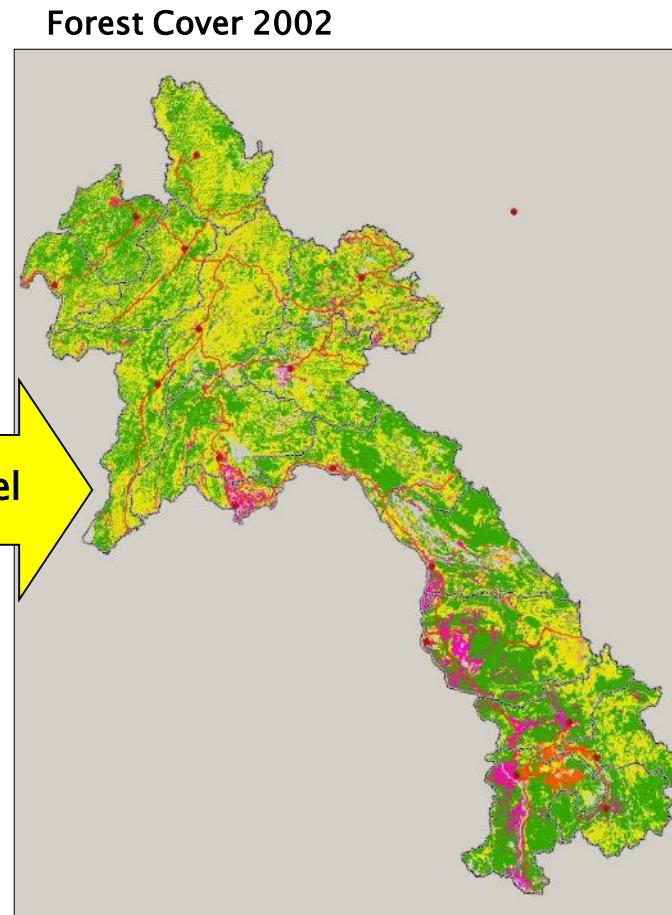
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Armutsbekämpfung und Umwelt: Zielkonflikt oder Synergie?



Inkompatibel

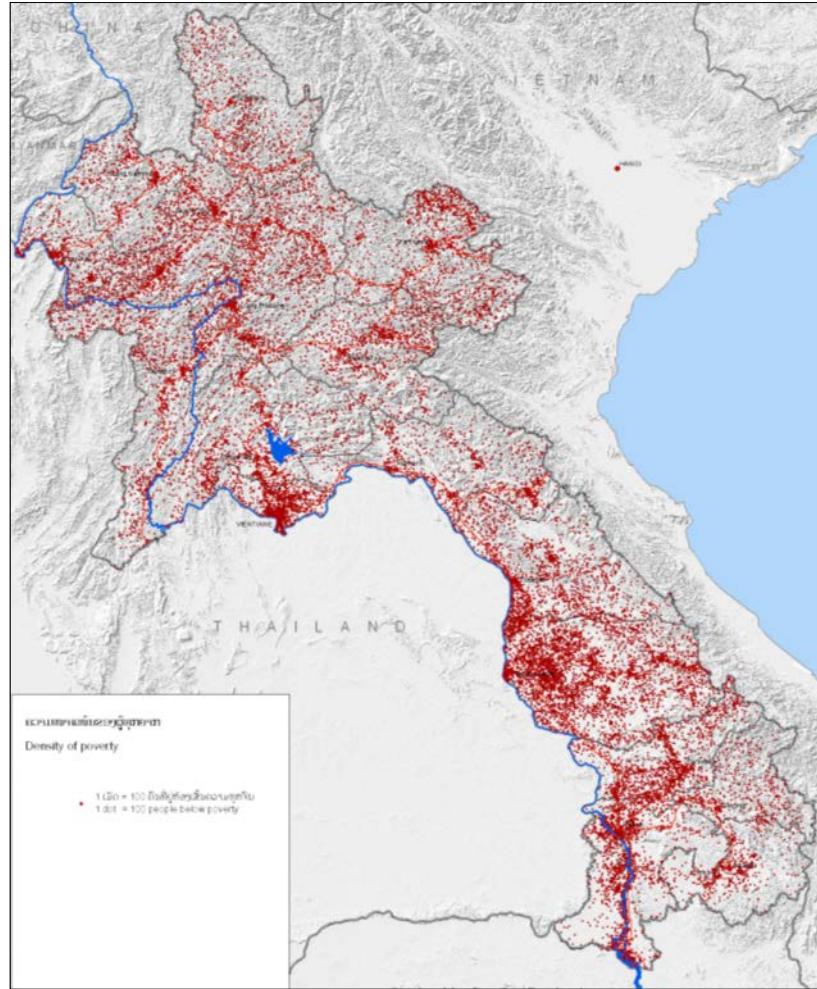
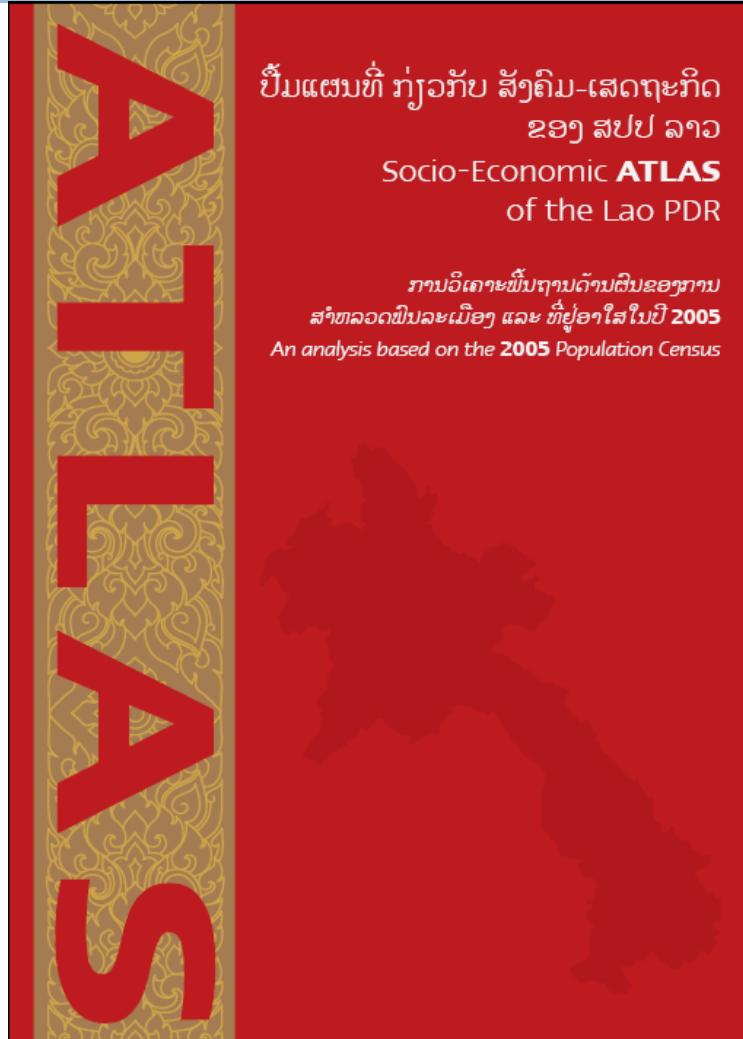


Sozio-ökonomischer Atlas von Laos

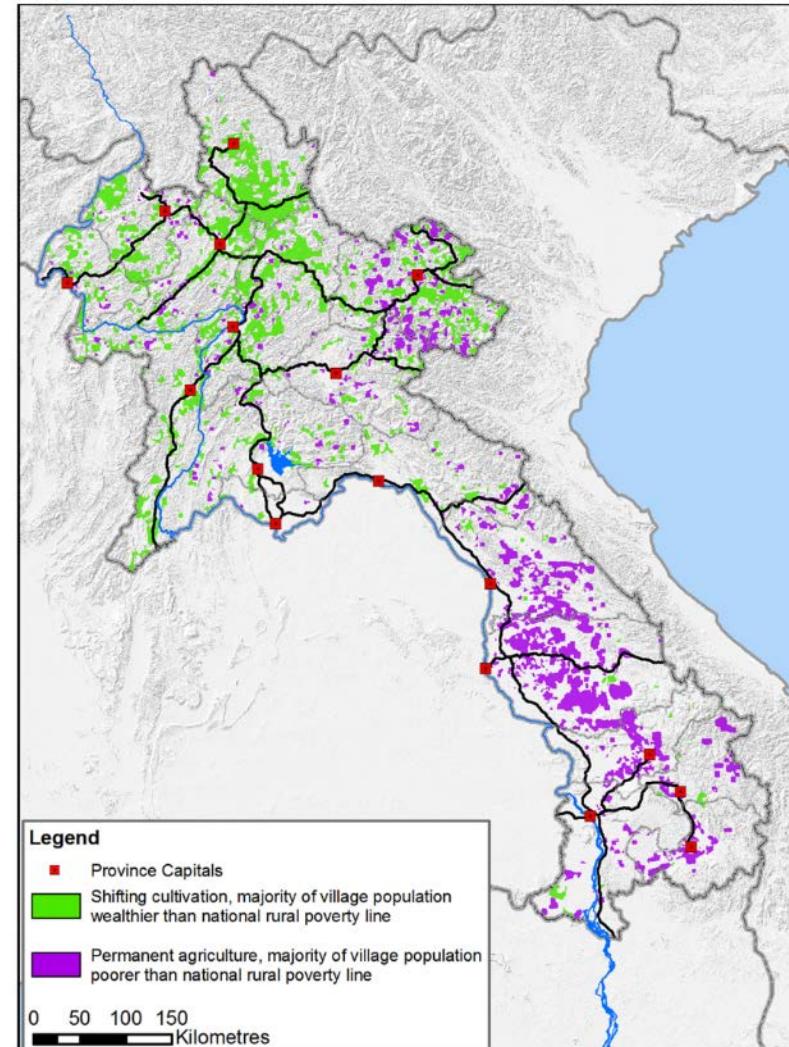
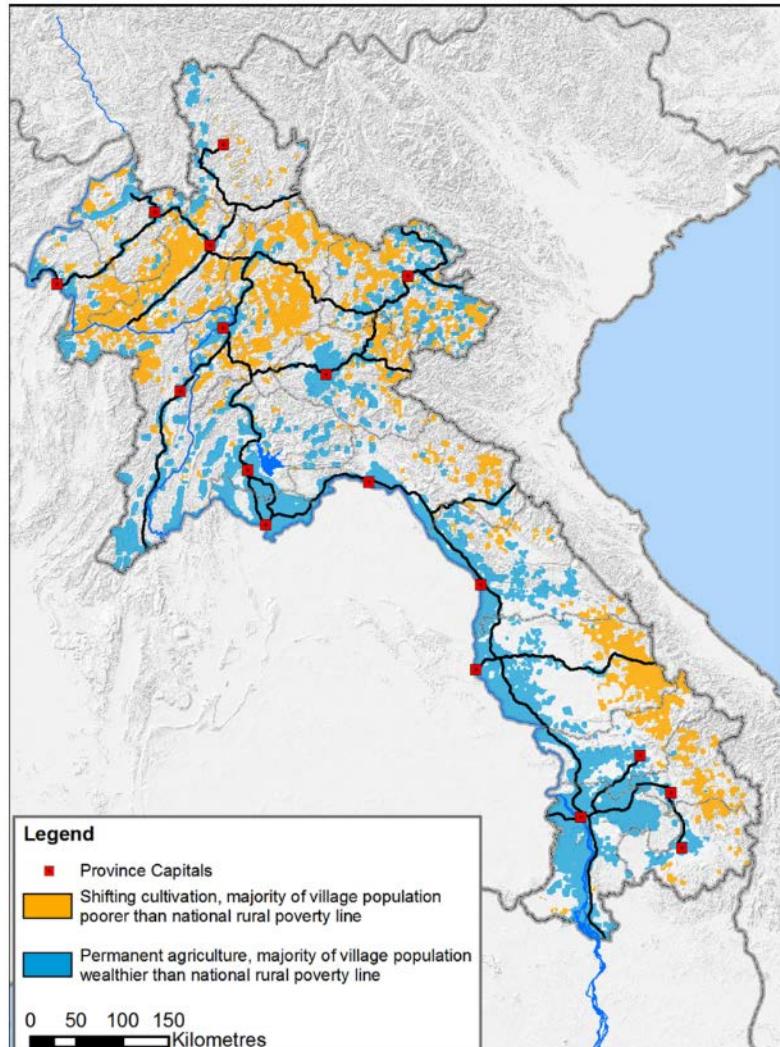
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Räumliche Muster des Umwelt–Armut Nexus



Aim of DECIDE

- To support better-informed and evidence-based thematically integrated planning and decision-making.

Objectives

- Promote the availing of existing key data and information through various channels and levels in individually adequate formats.
- Support the development of an open information exchange culture across thematic sectors.
- Provide key insights for development planning.

u^b

File Edit View History Bookmarks Tools Help

Lao DECIDE Info - Start

www.decide.la

Problem loading page uni be arcgisonlineMy ...

Lao DECIDE info
www.decide.la
Informing Decisions for Sustainable Development

Toolbox Tutorials Downloads

蒙古語 Sign in Register

Start About Partners Data

Home

ຍິນດີຕ້ອນຮັບ

Welcome

The Lao DECIDE info is a platform of the Government of the Lao PDR which integrates key information from the social, economic, environmental, and agricultural sectors to facilitate informed planning and decision-making.

See local realities in the big picture

Combine information to discover more

Download the data you need

NEWS

Launching Ceremony of the new cross-sectoral Lao DECIDE info platform



Toolbox



Know more with DECIDE.la

YouTube LinkedIn Facebook



Background of DECIDE – making information available

- View
- Analyze
- Download
- Interpret

Lao DECIDE Info - Statable X

File Edit View Bookmarks Tools Help

www.decide.la/en/statable

Start RENTFOX | Mietwage... OSMaxx Planet Explorer http://unibern.maps.a... Spatial Planning About Social Conflict ... Global Outlook World-Wide Integrate... The GDELT Project

Lao DECIDE info STA Table Toolbox Tutorials Downloads

Dataset Agricultural Census 2011 Admin level: Village Data owner:

Choose variable Order by topic Choose location

b_province_eng	b_provinceid	t_district_eng	t_districtid	w_village_eng	w_villageid	w_tottarmhh	w_toth
Phongsaly	2	Phongsaly	201	Xeochay	201001	49	49
Phongsaly	2	Phongsaly	201	Longxang	201002	69	70
Phongsaly	2	Phongsaly	201	Chakhampa	201005	52	52
Phongsaly	2	Phongsaly	201	Peugninxang-mai	201006	45	45
Phongsaly	2	Phongsaly	201	Peugninxang-kao	201007	43	43
Phongsaly	2	Phongsaly	201	Paycho	201008	32	32
Phongsaly	2	Phongsaly	201	Bokong	201014	33	33
Phongsaly	2	Phongsaly	201	Sala-ebe	201021	34	34
Phongsaly	2	Phongsaly	201	Lak 13	201023	76	76
Phongsaly	2	Phongsaly	201	Yapoung	201024	52	52
Phongsaly	2	Phongsaly	201	Chicho	201026	83	83
Phongsaly	2	Phongsaly	201	Baka-noy	201027	42	42
Phongsaly	2	Phongsaly	201	Baka-louang	201028	51	52
Phongsaly	2	Phongsaly	201	Hatsa	201030	73	79
Phongsaly	2	Phongsaly	201	Phoumuang	201033	55	58
Phongsaly	2	Phongsaly	201	Muangva	201034	31	31
Phongsaly	2	Phongsaly	201	Va-tal	201035	61	61
Phongsaly	2	Phongsaly	201	Phouxoum-nua	201036	31	31
Phongsaly	2	Phongsaly	201	Vangxai	201037	44	44
Phongsaly	2	Phongsaly	201	Pangxo	201038	40	44
Phongsaly	2	Phongsaly	201	Namsa	201039	58	67
Phongsaly	2	Phongsaly	201	Ngay-tal	201041	62	62
Phongsaly	2	Phongsaly	201	Sammunglouang	201042	56	56
Phongsaly	2	Phongsaly	201	Sopngam	201043	46	46
Phongsaly	2	Phongsaly	201	Changleun	201046	36	36

Displaying 1 - 25 of 535

Search variables

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NEED TRANSPARENT DATA AND DECISION-MAKING PROCESS

Multiple competing interests and claims on land



Level of trust between different groups remains low



The overarching goal of the project is:

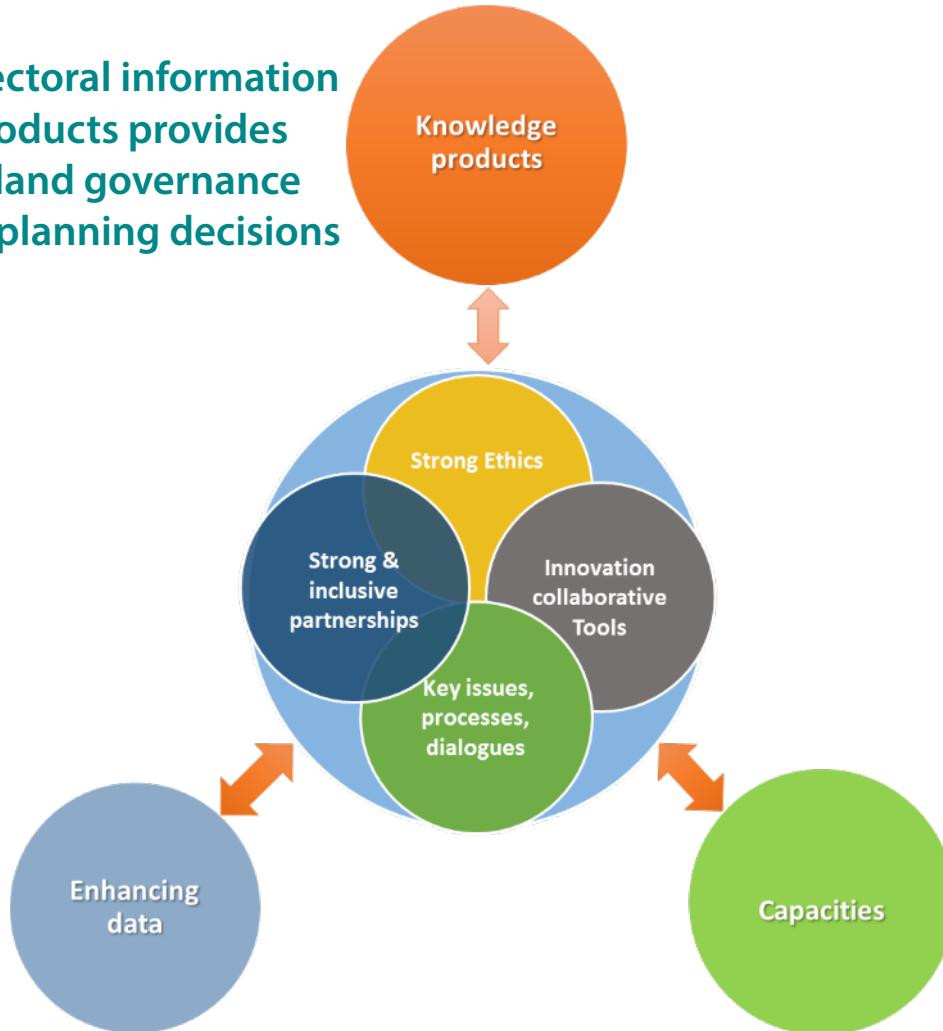
to contribute to the democratization of data related to land that enables government, citizens and the private sector to jointly make sustainable resource management decisions

The specific project objective is:

An open-access spatial data platform on land-related information functions as an effective basis for transparent analysis of accurate data and accountable land governance and development planning by government and citizens.

Project strategy

Analysis of inter-sectoral information and knowledge products provides clear evidence for land governance and development planning decisions



The quality, accuracy, cross-sectoral integration, public availability and utility of key spatial datasets has improved

Capacity for generating, verifying, and analysing information has improved, including the means to ensure participation of local communities and non-government stakeholders in data verification

From OneMap to OneMapS: An constellation of interlinked tools, modules, platforms and processes

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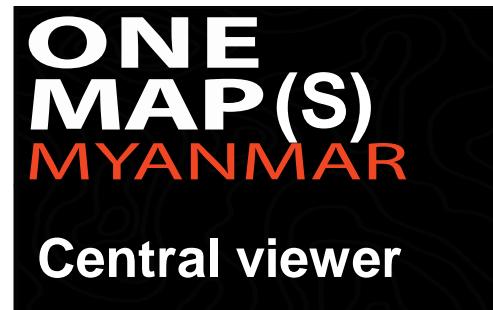
Metadata
Platform

MY GIS Wiki



Land Observatory

Mobile apps



Department 1

Department 2

Department 3

Participatory
Mapping
Platform

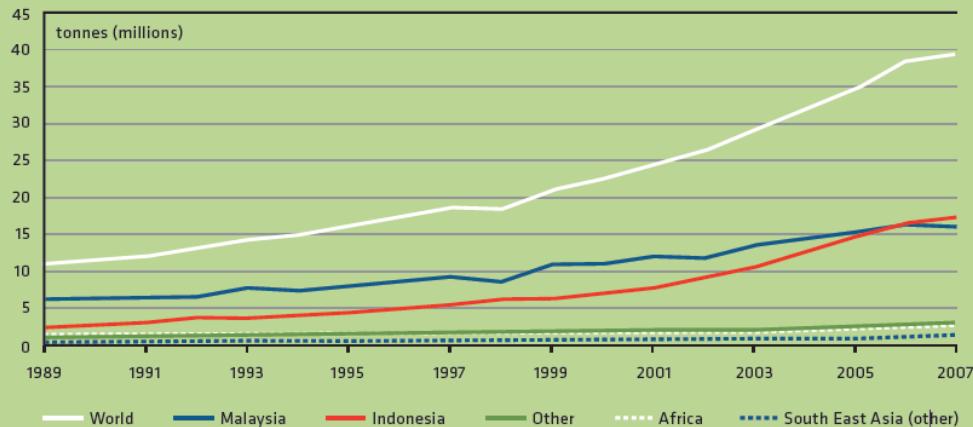
Mobile
Application

Data Repository

Beispiel Anwendung: Oil palm mapping

Fig. 2.2

World Palm Oil Production 1989-2007



Note: Rest of the World contains all other countries except as individual listed, including other South East Asian countries

Source: FAO 2010.



Beispiel Oil Palm Ausdehnung Süd Myanmar: Google Timelaps

Beispiel: Räumliche inkonsistente Planung (Onemap ArcGIS Webapp)

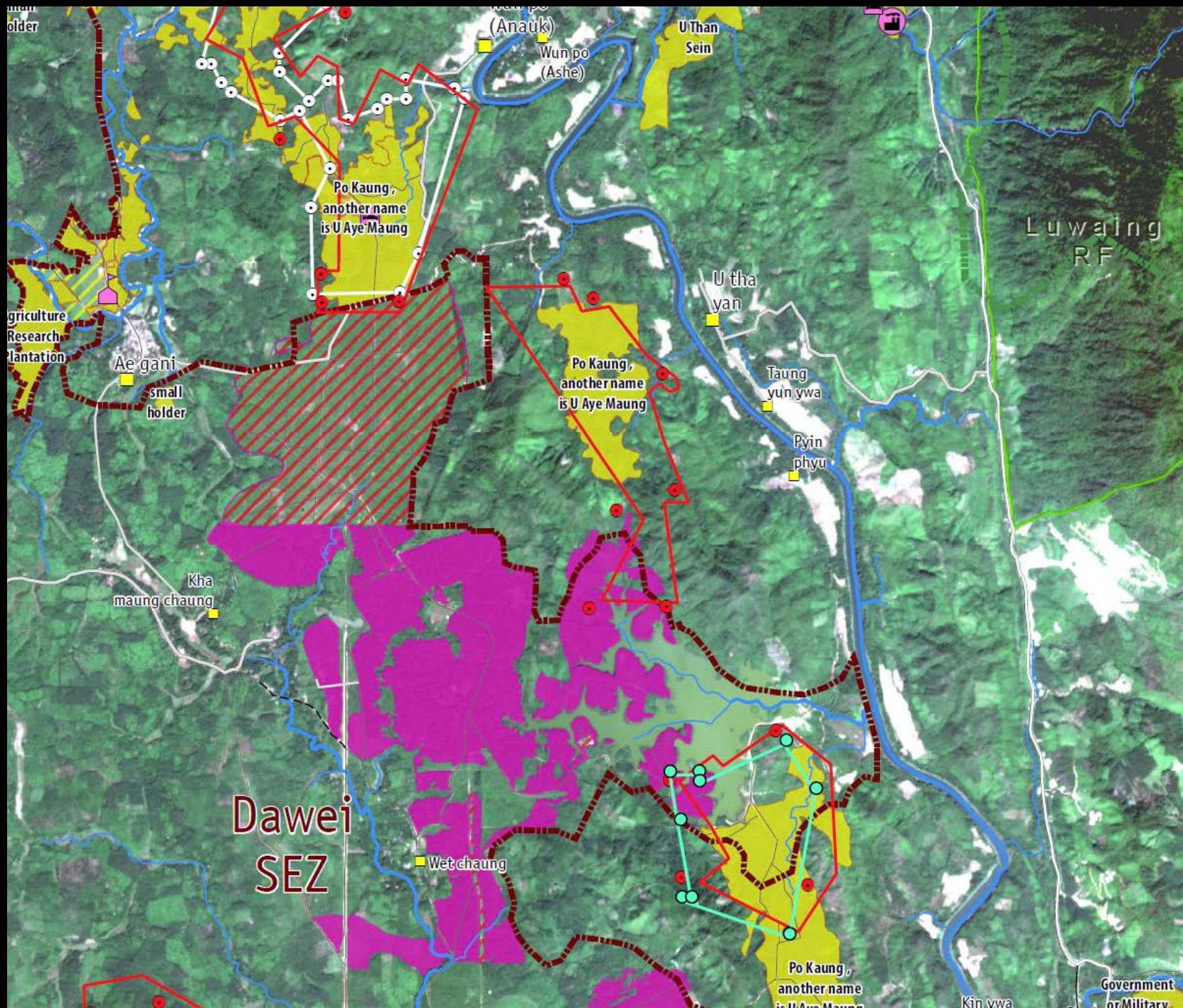
Beispiel Anwendung: Oil palm mapping

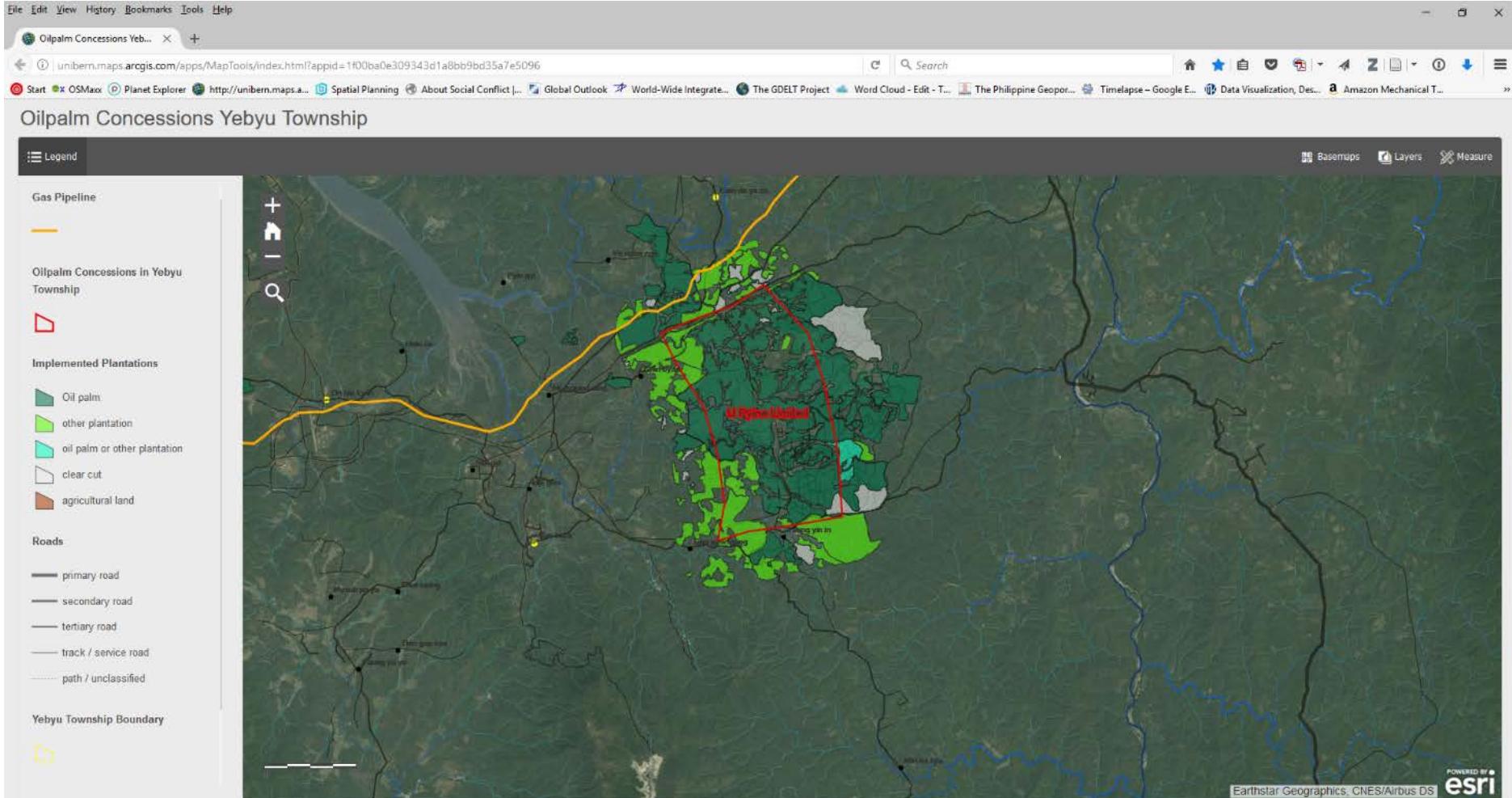


Online map link











Government representatives of all main departments

CSOs

Private
sector

High level decision makers

Affected
farmers

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The Land Matrix Global Observatory

Founding partners:
CDE, ILC, CIRAD, GIGA



Why?

- Open data: visible and understandable
- Transparency in land investment
- Participation in building a database

What and How?

- Global information on investor, deal, status, target region
- Source: partners networks, research and policy reports, government and company reports, etc.
- Crowdsourcing



The Online Public Database on Land Deals

The Land Matrix is a global and independent land monitoring initiative that promotes transparency and accountability in decisions over land and investment.

This website is our **Global Observatory** - an open tool for collecting and visualising information about large-scale land acquisitions.

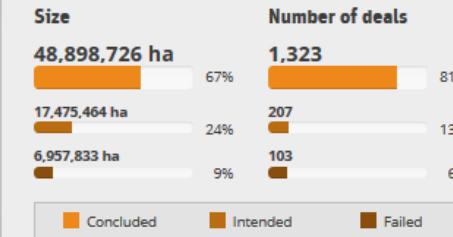
The data represented here is **constantly evolving**: to make this resource more accurate and comprehensive, we encourage your participation.

[Read more](#)

Watch the video introduction

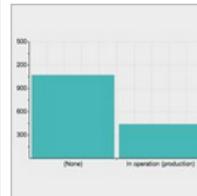


We currently have information about:

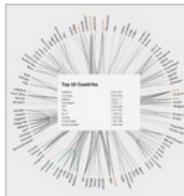


GET THE IDEA

Data is at the core of our project, but numbers alone can't tell a good story. These interactive visualizations are here to help you grasp the phenomenon of large-scale land acquisitions. Through them, we try to provide answers to questions such as how much land we're talking about, who's buying where, how much of the land is used for growing food, etc.



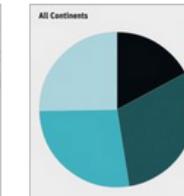
Dynamics overview



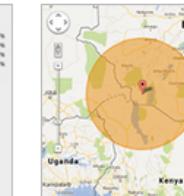
Web of transnational deals



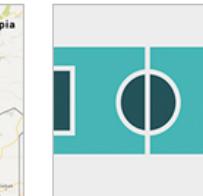
Global map of investments



Agricultural drivers



It's a big deal



Compare the size

Latest database modifications:

Deal ID	State	Target country
4936	Updated	Malawi
5316	Updated	Ghana
1653	Updated	Namibia

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[Follow @landmatrix](#)

Analytical Report of the Land Matrix II - published on October 11, 2016

[International Land Deals for Agriculture - Fresh insights from the Land Matrix](#)



Tweets by @Land_Matrix

Land Matrix Retweeted

Land Matrix Africa @LM_Africa

New regional observatory to be established to monitor the forests in #Kenya , #Mozambique , #Tanzania and #Uganda

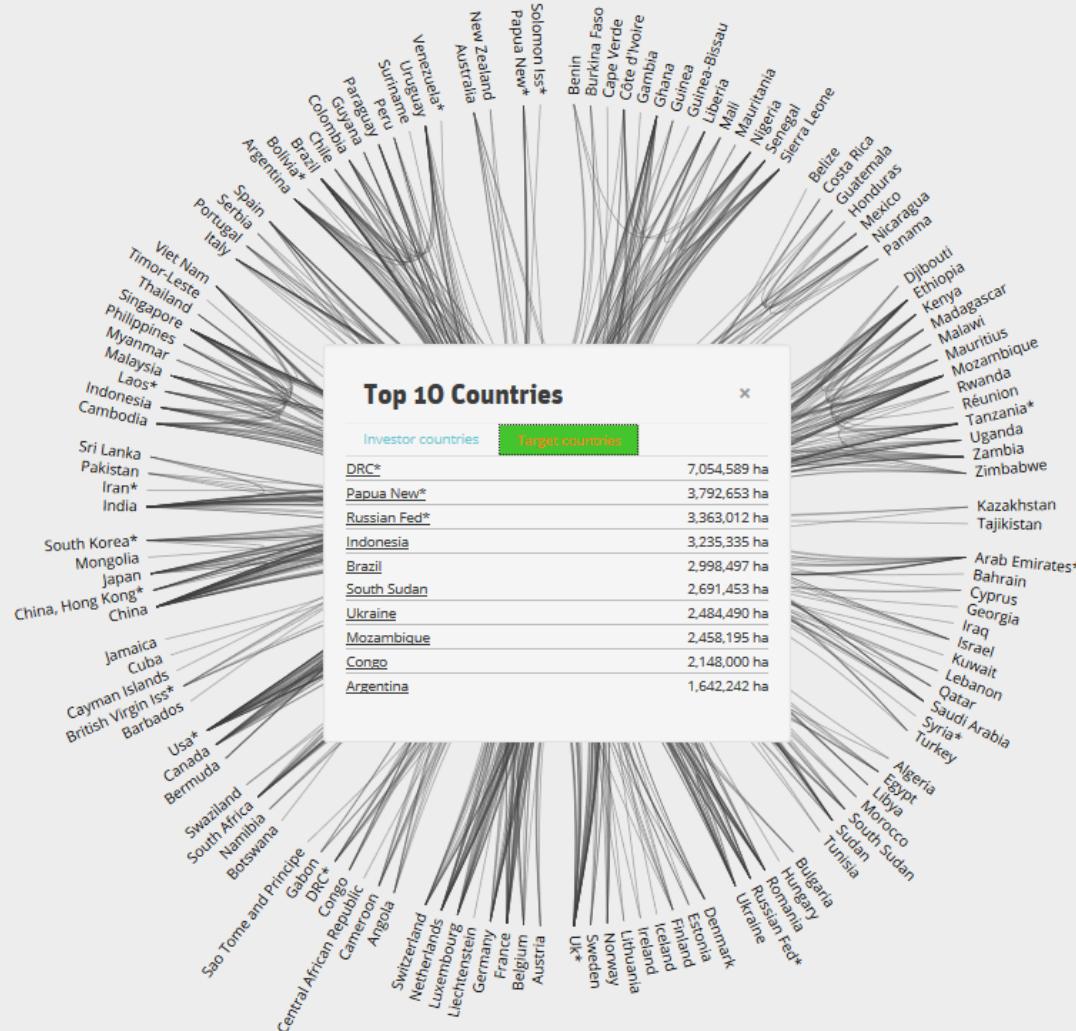
20 Apr

Land Matrix Retweeted

Joeva Rock @joevarock

Database of some of the major land acquisitions in Ghana over the past decade
[landmatrix.org/en/get-the-det...](#) via @Land_Matrix

Treiber des globalen Land Rush



Status April 2017

- 1323 deals, 49 million hectares
- Nahrungsmittel > Biotriebstoffe > Holz & Papier > Andere

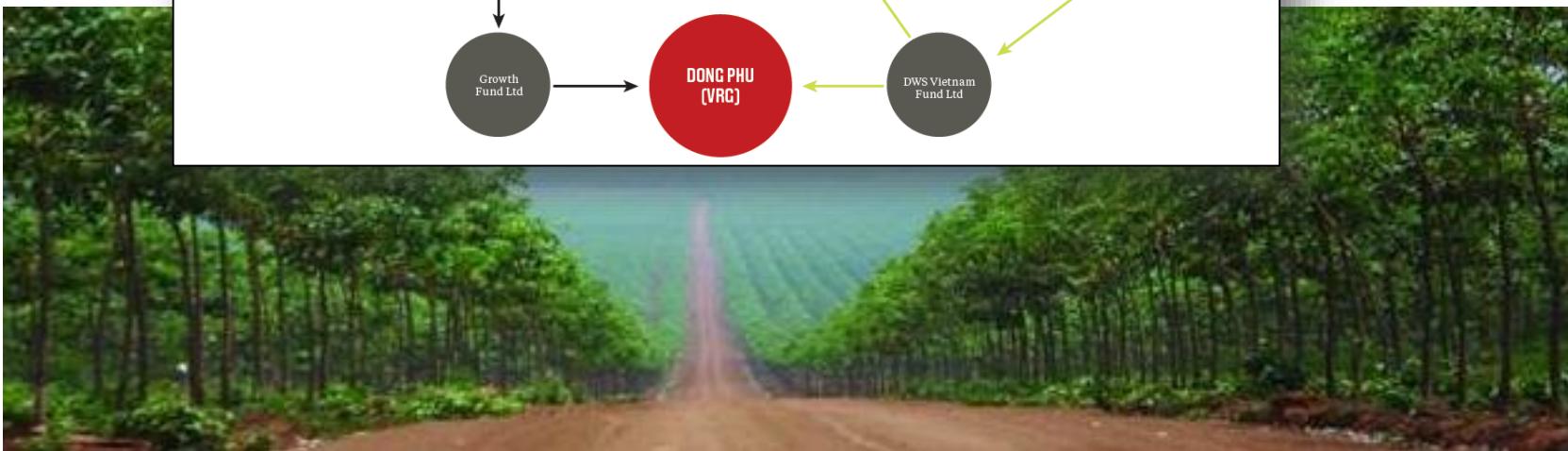
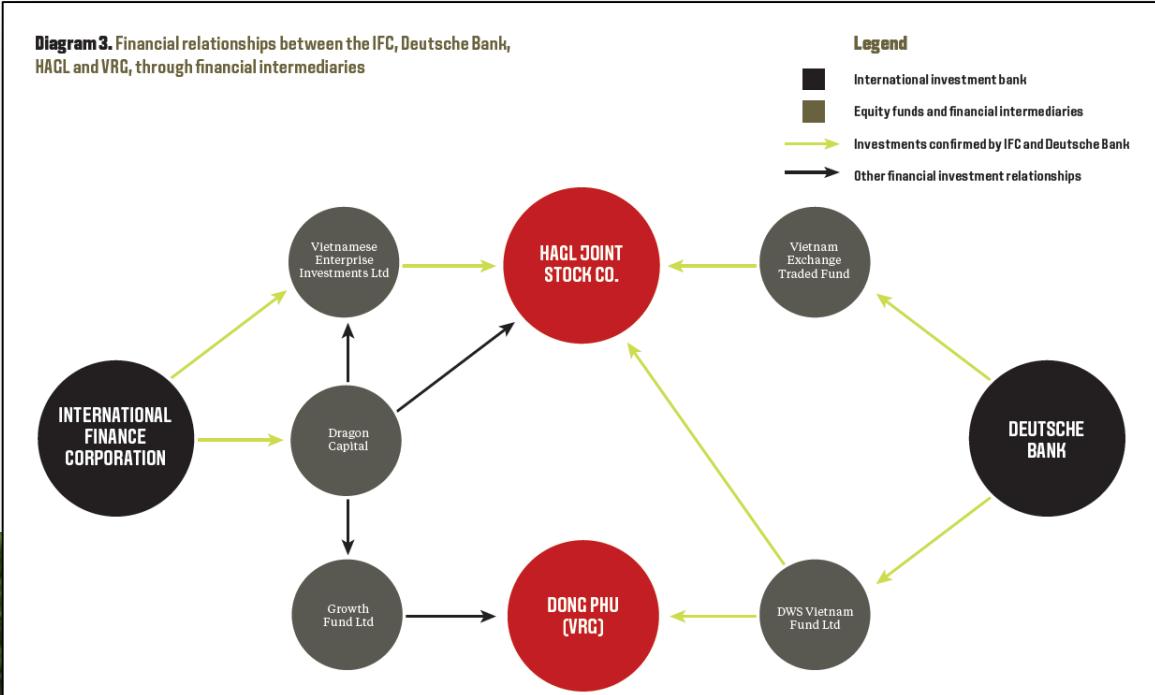
Beispiellose Dynamik von Landkäufen in Laos

→ Die Grenze von Datenkampagnen



Aber: Nicht nur «WAS?» auch «WO?» und «WER?» u^b

→ Erfassen komplexer Verbindungen



Neukonzeption der crowd-sourced Plattformen

Who?

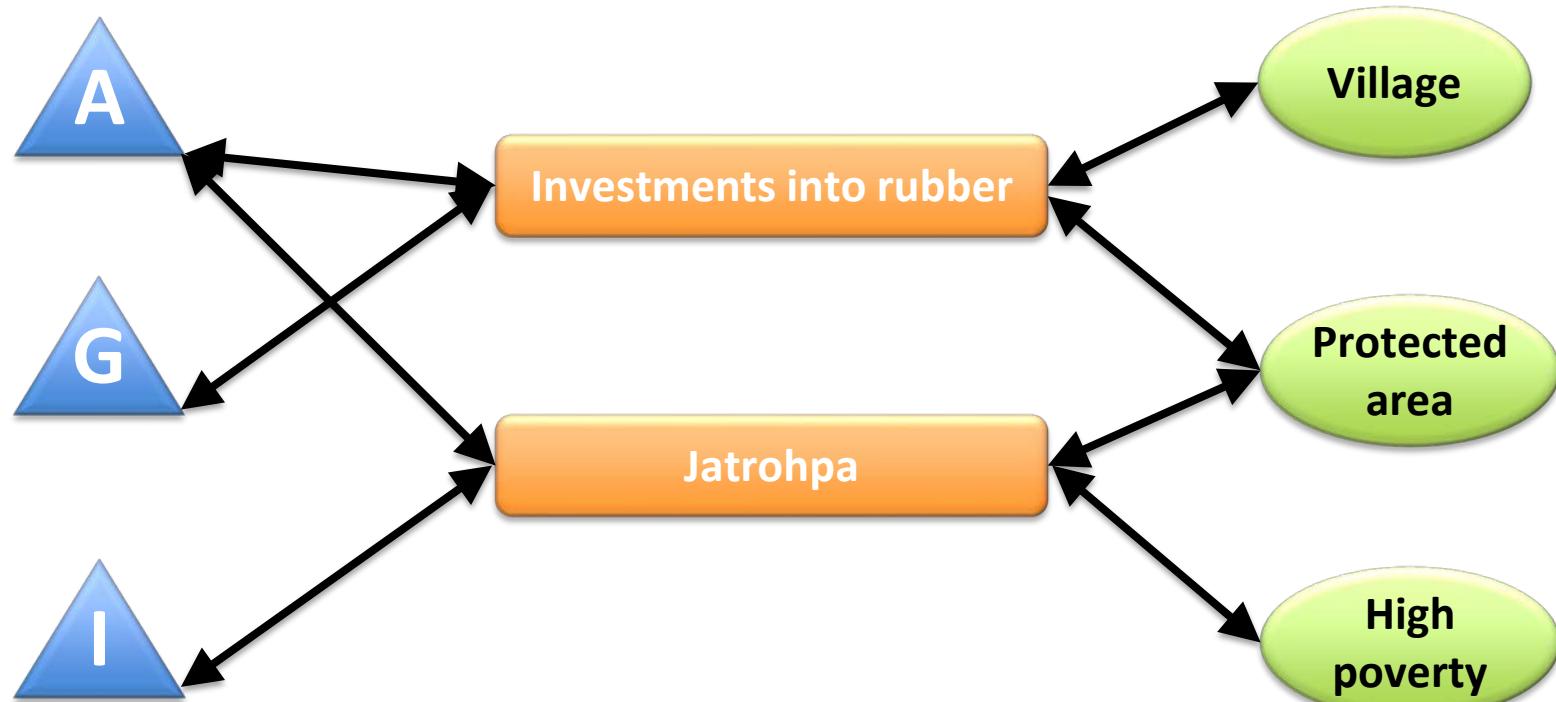
(Multiple stakeholders across scales and distance)

What?

(Flows of capital, goods, information)

Where?

(Places, areas, etc.)



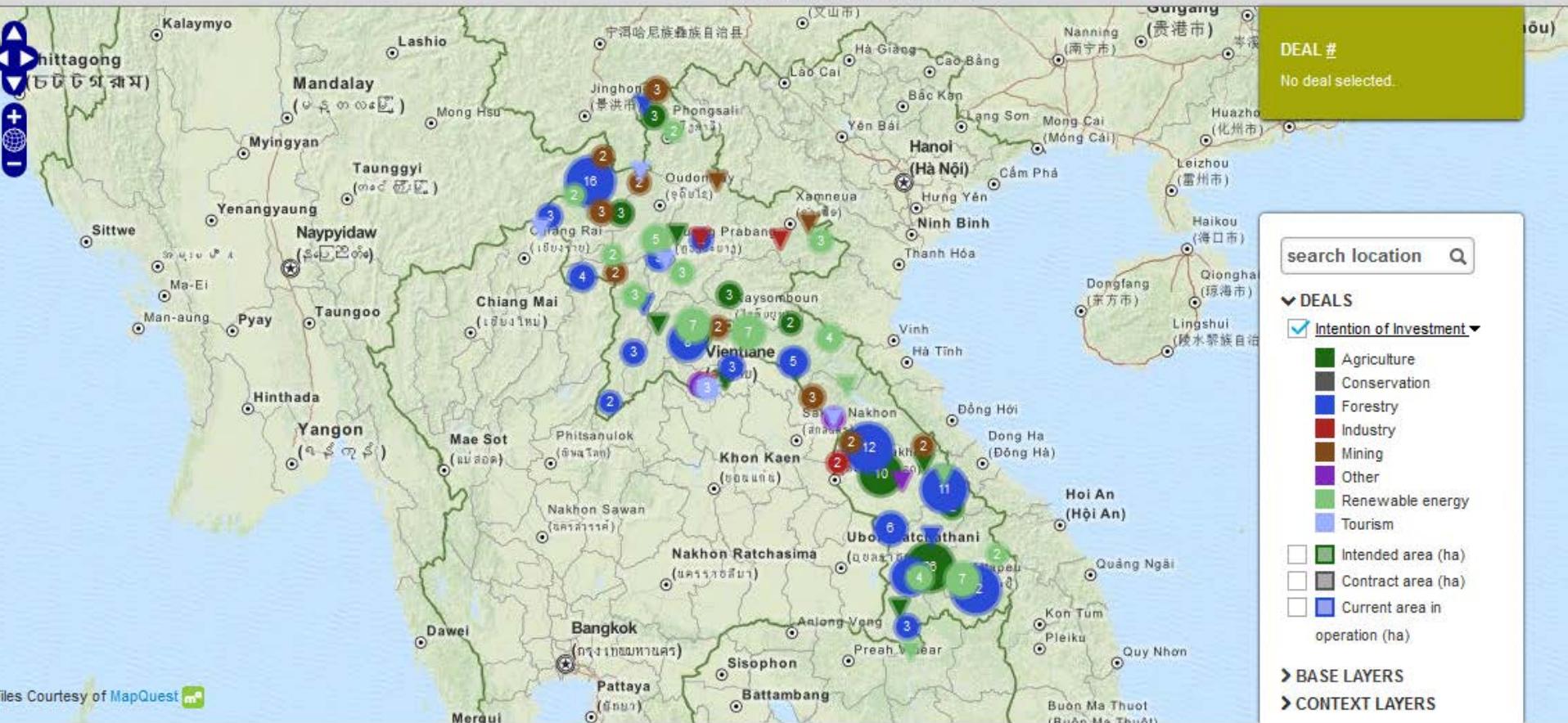
LAND
OBSERVATORY

MAP

GRID

CHARTS

LOGIN / REGISTER | ENGLISH ▾ | HOME



Where-what-who?

DURATION OF AGREEMENT (YEARS)	30
IMPLEMENTATION STATUS	Startup phase
NUMBER OF FARMERS	271
INVESTOR	
NAME	Olam Group
COUNTRY OF ORIGIN	Singapore
	View Stakeholder
DATA SOURCE	Company sources
FILES	1354069923OlamRespondstoMWReportFindings_28Nov2012(1).pdf 
DATE	2012-10-03
REMARK	Response of the company to granting of land rights in Laos in the Muddy Waters report. See page 38-29
DATA SOURCE	Media report
DATE	2012-06-12
URL / WEB	http://www.atimes.com/atimes/Sout...
DATA SOURCE	Research paper
URL / WEB	http://www.laoissues.org/wp-co...
CROP	Coffee Plant
USE OF PRODUCE	Export



[History](#) | [Areal statistics](#) | [Edit this Deal](#)

4 COMMENTS



Master student

March 25 2014, 02:48

Lessons learnt



- Keine technische ohne soziale Innovation:
Qualität > Quantität
- Sozio-politische Bedingungen bestimmen Involvierung der Akteure
- Nationale Anpassung und Ownership vs. Verknüpfung lokal-global
- Daten, Fakten und Wissen muss mit Sozio-politische Prozessen verbunden werden
- Aber: Fakten von Bewertung und Debatten trennen



Vielen Dank für
Ihre Aufmerksamkeit!

andreas.heinimann@cde.unibe.ch