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# EVALUATION, RESEARCH, AND COMMUNICATION (ERC) PROJECT

Quarterly Report (January 1–March 31, 2017)

APRIL 2017

This document was produced for review by the United States Agency for International Development. It was prepared by The Cloudburst Group for the Evaluation, Research, and Communication (ERC) Task Order under the Strengthening Tenure and Resource Rights (STARR) IQC.

Prepared for the United States Agency for International Development, USAID Contract Number AID-OAA-TO-13-00019, Evaluation, Research, and Communication (ERC) Task Order under Strengthening Tenure and Resource Rights (STARR) IQC No. AID-OAA-I-12-00030.

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## **DISCLAIMER**

The authors' views expressed in this publication do not necessarily reflect the views of the United States Agency for International Development or the United States Government.

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# ACRONYMS AND ABBREVIATIONS

CFP	Community-Based Forest Management Program
CLPP	Community Land Protection Program
COP	Chief of Party
COR	Contracting Officer's Representative
DATS	Deliverable Approval Tracking System
E3/LU	USAID's Land & Urban Office under the Bureau for Economic Growth, Education, and Environment
ELAP	Ethiopia Land Administration Program
ELTAP	Ethiopia Strengthening Land Tenure and Administration Program
ERC	Evaluation, Research, and Communication Project
IE	Impact Evaluation
IQC	Indefinite Quantity Contract
IRB	Institutional Review Board
LAND	Land Administration to Nurture Development Project
LTPR	Land Tenure and Property Rights
MAST	Mobile Application to Secure Tenure
M&E	Monitoring and Evaluation
MOOC	Massive Open Online Course
NGO	Non-Governmental Organization
OAA	USAID's Office of Acquisition and Assistance
ONF	National Land Observatory of Burkina Faso (Observatoire National du Foncier)
PE	Performance Evaluation
QA/QC	Quality Assurance / Quality Control
SDI	Sustainable Development Institute

SEA	Sustainable Ecosystems Advanced Project
SME	Subject Matter Expert
STARR	Strengthening Tenure and Resource Rights
TDY	Temporary Duty Travel
TGCC	Tenure and Global Climate Change
USAID	United States Agency for International Development
USG	United States Government
USIP	United States Institute for Peace
VLC	Village Land Committee
YGL	Yield Group Leader

# I.0 INTRODUCTION AND BACKGROUND

The Evaluation, Research, and Communication project (ERC) is a five-year Task Order (# AID-OAA-TO-13-00019) under the USAID STARR IQC. ERC began in May, 2013 and is implemented by Cloudburst Consulting Group, Inc. (Cloudburst). The purpose of ERC is to create, expand, and communicate the results of evidence-based knowledge around best practices in land tenure and property rights (LTPR). ERC is enhancing internal USAID and external USG learning, guiding program design and implementation, and making the most effective use of limited development resources to accomplish key USG development objectives. These objectives include expanding economic growth, improving food security and agricultural productivity, limiting conflict, empowering women, addressing global climate change, and improving natural resource management.

The project supports achievement of USAID's Climate Change and Development Strategy under Strategic Objective 1, Intermediate Result 1.2, that includes "ensuring the rights and engagement of local and indigenous communities" in conjunction with a focus on improving tools and capacity for land-use planning to reduce deforestation. ERC also supports biodiversity conservation through collection and dissemination of evidence-based knowledge on how secure LTPR can incentivize sustainable land use and protection of valuable ecosystems including the forest, water, and wildlife within them. ERC employs a multidisciplinary approach that aligns with USAID Forward principles of learning and evidence-based programming as well as gender equality and female empowerment.

This project includes five task areas that are under the direction of USAID's E3/Land & Urban Office (E3/LU). These include:

- Impact evaluation (IE), including conducting evaluations of LTPR activities and components and supporting enhanced IE capacity of USAID staff;
- Research, focusing on providing rigorous evidence for LTPR theory of change and testing development hypotheses as well as innovative approaches;
- Communication of LTPR-related messages, information, knowledge, and research results to raise awareness and advance cost-effective LTPR programming in USAID and other implementing organizations;
- Training of USAID staff and partners in LTPR principles and programming approaches; and
- Conducting pilot activities of promising innovative approaches in LTPR.

## 2.0 EXECUTIVE SUMMARY

January-March 2017 was an active period for ERC, with several project evaluations underway, a robust communications and training effort executed, and the completion of one pilot project and the startup or continuation of two others.

During the quarter ERC also began work planning for the fifth and final year of the contract (May 2017-April 2018).

Under Task 2, ERC launched the midline for the Community Land Protection Program (CLPP) performance evaluation (PE) in Liberia, completed two papers that were presented at the 2017 World Bank Conference on Land and Poverty, and completed the Land Administration to Nurture Development Project (LAND) Afar IE Baseline Report, as well as LAND Afar baseline data package for public posting. Also under Task 2, ERC began exploratory analysis and literature reviews for two Year 4 research products, including a paper focused on women's empowerment and a collaborative research paper on credit and land rental markets with E3/LU. Finally, ERC continued a series of preparation steps for the upcoming Tenure and Global Climate Change (TGCC) IE endline, which is scheduled for launch in June 2017.

Under Task 3, ERC communications this quarter focused on two primary events: the second launch of the Massive Open Online Course (MOOC) in January; and the World Bank Conference on Land and Poverty in March. In addition to providing communications support around these activities, ERC also sent out a quarterly newsletter in January and conducted an extensive QA/QC effort for the recently launched LandLinks website.

Under Task 4, training activities this quarter primarily focused on the launch of the second iteration of the USAID Land Tenure and Property Rights Massive Open Online Course (MOOC). ERC finalized new modules and launched the MOOC over the quarter.

Finally, under Task 5, during the quarter ERC's support for the core operations of the National Land Observatory of Burkina Faso (ONF) ended, though the ONF subcontract to implement the Mobile Application to Secure Tenure (MAST) pilot project was extended for two additional months. The highlight of MAST was completion of the validation period for the land rights mapped under the pilot, and the award of the first land certificates at a public ceremony on February 27. For Pilot 3, ERC launched field activities for the Responsible Land Based Investment pilot project in Mozambique.



# 3.0 PROJECT ACTIVITIES

## TASK 0—OPERATIONS

### YEAR 5 WORK PLANNING

During the quarter, ERC began developing the work plan for Year 5 of the contract, which runs from May 2017-April 2018. This effort focused on preparing a memorandum and accompanying budget estimates on activities to pursue in Year 5 in line with the letter and spirit of the ERC contract and ongoing efforts in Year 4. These materials were submitted to E3/LU for review.

In addition, ERC made the needed preparations for a one-day workshop with ERC and E3/LU personnel to discuss plans for Year 5 in detail. These preparations included developing a workshop agenda and attending to various administrative and logistical matters.

ERC staff members across all tasks are heavily involved in this work plan development effort.

### STARR PARTNERS MEETING

ERC participated in the STARR partners' semi-annual meeting, which took place on March 20 at the Washington, DC offices of Chemonics International, Inc. The meeting centered around presentations from the partners on issues of relevance and interest to the group at large. ERC's presentation was titled "An Approach for Incorporating Supplemental M&E Data into Ongoing Evaluations."

### CENTRALIZING RECORD-KEEPING OF DELIVERABLES

Over the course of ERC implementation, final approval of deliverables and their archiving has taken place through a variety of tools (e-mail, DATS, Wrike). These shifts have made it difficult to easily confirm that deliverables were indeed approved, and to easily locate their final versions. In response, during this quarter, ERC began a systematic effort to assemble all approved deliverables in one place, and to capture in a single document the date and method of their approval, including other related notes. This effort will be ongoing throughout the final quarters of ERC.

## **TASK 1—IMPACT EVALUATION**

### **SUBTASK 1.A: EVALUATION OF LAND CERTIFICATION PROGRAMS IN ETHIOPIA**

There will be no further activities under this subtask.

## **TASK 2—RESEARCH**

During the quarter, ERC continued work on three ongoing evaluations and made progress on four research products. In particular, the CLPP PE midline was launched, the LAND Afar IE Baseline Report and LAND Afar IE datasets were submitted for final approval and public posting, and two papers for the World Bank Conference on Land and Poverty were completed and presented at the 2017 conference. Tasks related to the TGCC endline also moved forward this quarter, including programming of the endline instruments into an electronic platform, initial testing on the electronic instruments, and drafting of Clark University and Zambia Institutional Review Board (IRB) applications to fulfill the ethical consideration of the study. Finally, ERC began drafting two YR 4 research products related to (1) credit and rental markets and (2) women's empowerment. During the quarter, USAID/Indonesia decided to forego an impact evaluation of the SEA project. ERC is working with E3/LU and USAID/Indonesia to determine the most effective use for programming the remaining funds. Each of these accomplishments, as well as other Task 2 activities, is elaborated on in the following sections.

### **SUBTASK 2.A: ALTERNATIVE LAND TENURE ARRANGEMENTS IN THE CONTEXT OF LARGE SCALE LAND ACQUISITION**

There will be no further activities under this subtask.

### **SUBTASK 2.B: FEASIBILITY OF UTILIZING MOBILE TECHNOLOGY TO GATHER AND COMMUNICATE LAND RIGHTS INFORMATION**

As agreed with E3/LU, this subtask was met through activities described under Task 5.A.

### **SUBTASK 2.C: IMPACT OF REDD+ PROJECTS ON TENURE AND PROPERTY RIGHTS**

There will be no further activities under this subtask.

### **SUBTASK 2.D: DEVELOP AND IMPLEMENT A RESEARCH AGENDA**

#### **2.D.1: DEVELOP RESEARCH AGENDA AND ANALYTICAL SUPPORT**

Two papers were drafted and presented at the 2017 World Bank Conference on Land and Poverty. The first paper expands on the tenure security and governance findings from the LAND Afar IE Baseline Report. The second paper summarizes the results of the ELAP/ELTAP IE Endline Report.

Additionally, under task 2.D.1 the ERC research team worked on several research tasks related to two of the Year 4 policy papers. The first paper relates to 'credit taking and rental markets'. To inform this paper, during the quarter ERC completed a literature review, developed a merged dataset from the Community-Based Forest Management Program (CFP) and TGCC IEs, generated exploratory

descriptive statistics, as well as developed and produced a series of regression models. The second paper relates to ‘women’s empowerment’. Progress this quarter centered on gathering literature to inform the paper, developing merged and matched datasets between household and wives survey data from the LAND Afar, CFP, and ELTAP/ELAP IEs, and generating exploratory descriptive statistics and regression models.

Work on these papers will continue into next quarter.

## **2.D.2: IMPLEMENT RESEARCH AGENDA**

### **2.D.2.A: LAND ADMINISTRATION TO NURTURE DEVELOPMENT IMPACT EVALUATION (OROMIA, ETHIOPIA)**

There are no current activities under this subtask.

### **2.D.2.B: PROPERTY RIGHTS AND ARTISANAL DIAMOND DEVELOPMENT PROJECT II IMPACT EVALUATION (GUINEA)**

There will be no further activities under this subtask.

### **2.D.2.C: TENURE AND GLOBAL CLIMATE CHANGE IMPACT EVALUATION (ZAMBIA)**

ERC continued working on several adjustments to the TGCC Pre-Analysis Plan and survey instruments. These adjustments were necessary because of changes in the Chipata District Land Alliance intervention, which involved a more limited distribution of household certificates than originally anticipated. In addition, ERC programmed the current endline drafts of the household survey, headman survey, Yield Group Leader (YGL) survey, and Village Land Committee (VLC) into the SurveyCTO data collection platform. Each survey has undergone one round of internal testing by the team. One final round of programs and testing will be conducted early next quarter after all final revisions to the survey instruments are submitted by E3/LU and external reviewers. ERC also prepared baseline data to pre-load into the household and headman surveys, a process that will continue in the next quarter.

Other TGCC tasks included preparing series of budgets for the Mission for 26 data collection scenarios. Ultimately, the Mission selected an option that calls for a data collection across 15 household surveys per village, as well as a headman survey, YGL survey, and VLC survey for each village, and 60 focus group discussions. Finally, ERC also produced drafts of the IRB applications for Clark University and the Zambian IRB (ERES).

The TGCC endline launch is scheduled for mid-June 2017.

### **2.D.2.D: COMMUNITY LAND PROTECTION PROGRAM PERFORMANCE EVALUATION (LIBERIA)**

In this quarter, ERC launched the CLPP midline data collection. As part of this effort, in January the team finalized electronic survey programming, including preloading of baseline data within the programmed midline surveys. ERC also finalized the pre-analysis plan for midline analysis and registered the plan with the Evidence in Governance and Policy (EGAP) research registration repository. Parley, a Liberian NGO, conducted the midline data collection in close cooperation with ERC. ERC also hired the Reliable Enumerator’s Network to transcribe the audio recordings from qualitative interviews and focus group discussions.

ERC worked closely with both firms to plan training and the launch of data collection, including completing extended budget negotiations and contract execution. The ERC Project Manager and an Analyst traveled to Liberia from January 29-February 20 to oversee training and the launch of data collection. On February 1, transcribers were trained on word-for word transcription best practices, transcription formatting guidelines, and qualitative data management in Monrovia, Liberia. Enumerator training began on February 2 and continued through February 6, including a pilot day, in Gbarnga, Liberia. The midline data collection itself took place in February and March.

After the successful launch of midline data collection, ERC held a retreat with the SDI field team in Gbarnga. SDI is the local partner of Namati, implementing the CLPP. The purpose of the retreat was to collect supplemental quantitative and qualitative M&E data from SDI staff through administering ERC's supplemental M&E survey tool, and through leading field staff in ERC's open-ended supplemental M&E focus group discussion. Additionally, during the retreat ERC collected all available internal (SDI) program documentation relevant to the PE.

After the ERC team returned to the United States, it continued to conduct rigorous back checks and provide remote support to the survey team throughout the duration of data collection.

#### **2.D.2.E: LAND ADMINISTRATION TO NURTURE DEVELOPMENT IMPACT EVALUATION (AFAR, ETHIOPIA)**

The two primary accomplishments on the LAND Afar IE this quarter include the submissions of the LAND Afar IE Baseline Report and data package for final approval and public posting on the LandLinks website. Towards the end of last quarter, external review comments were received from USAID/Ethiopia, E3/LU, and the LAND project team. ERC incorporated feedback and edits in a revised version of the baseline report. The revised report was reviewed by SME consultants, Dr. John McPeak and Dr. Peter Little, and additional changes were incorporated. Changes were tracked in a comment matrix, and all statistics were carefully double-checked and updated as necessary. In addition to external review comments on the baseline report, MSI external review comments on the dataset were also received. The household, wife, and leader surveys were revised accordingly. The datasets were reviewed internally and updated as necessary before final submission. The comment matrix, final version of the baseline report, and final corrected dataset were submitted for approval in mid-March.

#### **2.D.2.F: SUSTAINABLE ECOSYSTEM ADVANCED PROJECT IMPACT EVALUATION (INDONESIA)**

USAID/Indonesia has determined that there will be no further impact evaluation activities under this subtask. ERC is waiting for a decision from USAID/Indonesia about how they would prefer to program the remaining funds.

### **TASK 2 ACTIVITIES PLANNED DURING THE NEXT QUARTER**

- Finalize YR 5 work planning
- Submit the TGCC pre-analysis plan for external review
- Submit TGCC endline survey instruments for external review
- Solicit proposals from data collection firms for the TGCC IE endline data collection, and work with local firm to prepare for training and data collection
- Finalize testing household, headman, VLC, and YGL surveys for the TGCC endline launch

- Finalize preparing the data for pre-loading into the household and headman surveys for the TGCC endline launch
- Finalize IRB application for Clark University and ERES for TGCC endline
- Conduct TGCC endline training May 29-June 9, launch endline on June 13, and monitor data collection daily
- Draft and submit YR 4 research paper for E3/LU review - 'Credit and rental markets'
- Draft and submit YR 4 research paper for E3/LU review - 'Women's empowerment'
- Clean and analyze the quantitative survey data for CLPP
- Prepare a summary document of initial findings for the CLPP PE
- Oversee the transcription of the audio recordings of the qualitative data for the CLPP PE

### **TASK 3—COMMUNICATIONS**

ERC communications this quarter focused on two primary events: the second launch of the MOOC in January; and the World Bank Conference on Land and Poverty in March. In addition to providing communications support around these activities, ERC also sent out a quarterly newsletter in January and conducted an extensive QA/QC effort for the recently launched LandLinks website.

#### **SUBTASK 3.A: MANAGE, UPDATE AND REFINE LTPR WEBSITE**

ERC completed an extensive QA/QC process for the recently redesigned LandLinks website over the quarter, which included enhancements beyond the original redesign. This process included:

- Updating over 1,000 documents with titles, attaching the articles to trainings and other events, and adding non- E3/LU authors and relationships where appropriate;
- Adding maps to over 60 country profile pages as featured images;
- Combining redundant tools, guides, issue briefs, and other documents;
- Removing and updating deprecated code carried over from the Drupal site; and
- Updating links to point to the new [www.land-links.org](http://www.land-links.org) domain.

Beyond the QA/QC, website enhancements included:

- Updating issues pages to include "At a Glance" document thumbnails and links;
- Adding publication dates to country profiles;
- Testing and providing prototype layouts for an updated header area with the LandLinks logo, and an updated footer area for affiliated site logos; and
- Installing and testing plugins to allow increased page functionalities.

The QA/QC and enhancements were completed in time to be used for the event page ERC created for the March World Bank Conference on Land and Poverty. To track and promote E3/LU's activities at the conference, ERC created the event page with several features:

- Expandable sections on four E3/LU themes;
- An image carousel featuring content relevant to E3/LU's participation in the conference;
- A gallery of social media images; and

- An agenda that highlighted the 17 papers to be presented on E3/LU activities at the conference.

These materials were also uploaded to LandLinks, and the event page features were all made possible by new functionalities installed and tested in the website enhancements this quarter.

Turning to general website operations, ERC also published:

- Twenty blog pages (articles, media scans, and videos);
- Three project pages for TGCC activities in Burma, Vietnam, and Zambia;
- One event page for E3/LU's MOOC 2.0, which launched this quarter;
- One Marine Tenure issue page, including creating relationships and pages for related documents and reports; and
- Uploaded or updated 20 documents (in addition to the documents updated in the QA process).

Finally, in preparation for the transition in Year 5 after ERC ends, ERC provided E3/LU with a back-end login to LandLinks and began developing a STARR Partner user role that will provide front-end access to documents on the STARR Partner Portal, marked as "Private."

## **SUBTASK 3.B: DEVELOP LAND TENURE AND PROPERTY RIGHTS SUCCESS STORIES, ISSUE BRIEFS AND ARTICLES FOR GENERAL READERS INCLUDING, BUT NOT LIMITED TO, FRONTLINES ARTICLES, OPINION EDITORIALS, AND OTHER PRODUCTS FOR PUBLIC CONSUMPTION**

### **SUBTASK 3.B.1: CONTENT & OUTREACH**

#### **COMMUNICATIONS ACTIVITIES TO SUPPORT E3/LU'S STRATEGIC OBJECTIVES**

ERC continues to work with E3/LU to develop communications content designed to reach audiences of global development practitioners, USAID and other USG staff, and experts in the land sector. This quarter ERC primarily focused communications activities on two promotional campaigns: 1) promoting registration for USAID's Land Tenure and Property Rights MOOC; and 2) USAID's research, technology, and thought leadership at the World Bank Conference on Land and Poverty.

ERC began 2017 by highlighting activities of the previous year, with a blog on the best of 2016 and a newsletter. January marked the launch of the second version of the MOOC, and ERC promoted registration of this important USAID resource through a dedicated MOOC communications strategy. The strategy was developed in late 2016, and included a series of emails targeted to USAID and non-USAID audiences, as well as social media. Promotion of the MOOC ran from early January through mid-February and the MOOC will continue to be promoted via a banner in the media scan until registration closes.

In February, ERC began developing communications in support of E3/LU at the World Bank Conference on Land and Poverty, held March 20-24. ERC developed and executed a dedicated World Bank Conference communications campaign based on five E3/LU developed themes: 1) new frontiers in public-private partnerships, featuring ERC pilot 3 and TFA; 2) new frontiers in science, technology, and innovation, featuring MAST technologies; 3) new frontiers in community and customary tenure, featuring TGCC; 4) new frontiers in resource tenure, featuring TGCC's marine tenure and mangrove projects;

and 5) new frontiers in evidence, impact evaluations and data, featuring the data hub and impact evaluations.

ERC's primary communications role in supporting the conference in 2017 was to promote E3/LU and STARR partner presentations and content. ERC also identified a list of existing backup content that matched the E3/LU conference themes to ensure that promotions would not be delayed if new content required extensive USAID clearances. ERC sent two dedicated emails to the E3/LU outreach list about the World Bank conference, a third email will be sent the first week of April, and ERC developed an Adobe Spark social media toolkit for STARR partners and E3/LU social media handles. ERC also conducted three interviews to develop a series of "ask-the-expert" portal pieces with Caleb Stevens on CLPP, Heather Huntington on the tenure security research, and Zemen Haddis on Afar and working with pastoral communities. The first two blogs using these interviews were published in March and the final blog will be published in early April corresponding with the final World Bank email. ERC also revised conference materials from 2016, including updating the impact evaluations one-pagers and the MAST brochure to include MAST Burkina and the Land Tenure Assistance activity being funded by USAID in Tanzania.

ERC also promoted women's land rights with social media on International Women's Day, March 8.

#### FACT SHEETS

During this quarter ERC did not produce or revise any Factsheets. E3/LU informed ERC that the Factsheets produced for Global Climate Change and for Conflict could, however, be considered "complete" even though these will not be published.

#### ISSUE BRIEFS

ERC did not produce any Issue Briefs this quarter.

#### AD HOC REQUESTS

ERC had two outstanding ad hoc requests during this quarter: one to develop a paper on the linkages between land tenure and property rights and gender-based violence (GBV) and another to develop data visualization products. The GBV paper was largely put on hold to concentrate other Task 3 and Task 4 priorities (particularly oversight of Country Profiles and MOOC launch), and to launch field activities for the Responsible Land-Based Investment Pilot. This work picked up again following the World Bank's Annual Conference on Land and Poverty and a draft will be delivered to USAID early in the next quarter.

#### COUNTRY PROFILES

During the quarter ERC finalized and posted updated a Country Profile for Kenya, submitted final Country Profiles for Burkina Faso, Colombia and Rwanda to USAID for approval, and submitted the first draft of the revised Cote d'Ivoire Country Profile. ERC also contracted with authors and developed first drafts for updated country profiles for Mexico, Mozambique and Zambia, and contracted for a new Country Profile for Ukraine. In the next quarter, ERC expects to finalize and post these four Country Profiles.

## **SUBTASK 3.D: DEVELOP AND REFINE RELEVANT LTPR TOOLS**

### **SUBTASK 3.D.1: DEVELOP AND REFINE LTPR TOOLS**

During this quarter, there were no activities associated with this subtask.

### **SUBTASK 3.D.2: LTPR / SOCIAL IMPACT INTEGRATION INTO SMALL SCALE GUIDELINES**

During this quarter, there were no activities associated with this subtask.

## **TASK 3 ACTIVITIES PLANNED DURING THE NEXT QUARTER**

- Submit first draft of research paper on land tenure and property rights and gender-based violence.
- Submit final drafts of Country Profiles for Mexico, Mozambique, Ukraine and Zambia.
- TDY to Mozambique to document Pilot 3 activities (see Task 5) and develop key messaging around responsible land based investment, as well as TDY to Zambia to capture IE endline data collection and other stories. The Zambia TDY needs to be coordinated with the endline data collection schedule so as not to interfere with the data collection. This coordination need may end up delaying the TDY.
- Additional activities will be described in the quarterly Task 3 communications plan.

## **TASK 4—TRAINING**

Training activities this quarter primarily focused on the launch of the second iteration of the USAID Land Tenure and Property Rights Massive Open Online Course (MOOC). ERC finalized new modules and launched the MOOC over the quarter (see subtask 4.c).

### **SUBTASK 4.A: DEVELOP LTPR TRAINING MATERIALS AND MODULES**

The development of training materials and modules for each activity is addressed in the relevant subtasks below.

### **SUBTASK 4.B: CONDUCT ONE WASHINGTON, DC AND ONE REGIONAL LTPR TRAINING PER YEAR**

#### **SUBTASK 4.B.1: CONDUCT DC LTPR TRAINING**

There is no update on this subtask.

#### **SUBTASK 4.B.2: PREPARE FOR REGIONAL LTPR TRAINING**

##### **SUBTASK 4.B.2.A: CONDUCT HAITI TRAINING**

There is no update on this subtask.

### **SUBTASK 4.C: DEVELOP AND CONDUCT ONLINE OR OTHER LTPR TRAINING COURSE OFFERINGS**



The MOOC was launched via three releases of modules this quarter. The first release in January contained all of the core modules, the second release in February contained all of the elective modules, except for the new Geospatial module, and the third release in March was of the Geospatial module. The release of the MOOC in three stages is a different approach than the first version of the MOOC in 2016, where one new module was launched per week.

Thus far, over 1,400 students have registered for the MOOC (71% of the total who registered for the first MOOC) and over 800 individual modules have been completed. (In the first version of the course, metrics were only collected for beginning and completing the course and information was not available on a module-by-module basis). Registration will remain open until the end of April with the full course closing at the end of May.

Additional changes to the MOOC that were implemented in MOOC 2.0 include:

- fewer required readings (one required reading per module with the exception of the Programming Cycle and Geospatial modules);
- fewer course requirements to earn a certificate (instead of students completing all of the modules, students may now take three core modules, one country case study and choose four additional modules to earn a certificate); and
- rather than students taking a midterm and final exam, students will take a short 5-question quiz after each module.

To manage the MOOC, ERC established office hours for the MOOC lecturers, Karol Boudreaux and Cynthia Caron, to answer online questions. Each lecturer held office hours for four hours per week. ERC also actively engaged students with weekly messaging via the Canvas platform to encourage students to participate and earn their certification.

In March, ERC hosted two interactive MOOC sessions. The first session featured Karol Boudreaux discussing the core modules. This interactive session had 39 concurrent viewers, topping the previous record of 38 concurrent viewers, and had over 70 comments from students. The second MOOC interactive session took place live from the World Bank Conference on Land and Poverty, with Ms. Boudreaux as moderator discussing customary tenure and women's land rights issues with a Zambian Chieftainess who had certified her chiefdom. TGCC's Dr. Matthew Sommerville also participated in this interactive session.

#### **SUBTASK 4.D: SUPPORT LTPR CONFERENCES / EVENTS**

During the quarter ERC team members supported USAID at the World Bank Conference on Land and Poverty. This included arranging logistics for USAID's booth at the conference as well as staffing the booth throughout the conference (including during the innovation fair). While staffing the booth, ERC team members demonstrated MAST tools and shared USAID land-related materials with conference participants. ERC also took photos of E3/LU and STARR partner presentations in order to document these activities. Finally, as a reminder, USAID contributed \$25,000 to sponsor the conference. This contribution was processed at the end of 2016 through ERC.

#### **SUBTASK 4.E: DEVELOP AND CONDUCT LTPR COURSE FOR USG PARTNERS AND NGOS, INCLUDING BILATERAL AND MULTILATERAL AGENCIES**

#### **SUBTASK 4.E.1: UNITED STATES INSTITUTE FOR PEACE (USIP) LAND, PROPERTY AND CONFLICT COURSE**

There is no update on this subtask.

#### **SUBTASK 4.E.2: COMMUNITY OF PRACTICE**

There is no update on this subtask.

### **SUBTASK 4.F: USE OF GRANTS UNDER CONTRACT, SUPPORT NGOS, AND CIVIL SOCIETY ADVOCACY FOR THE VOLUNTARY GUIDELINES**

#### **SUBTASK 4.F.1: UNIVERSITY PROGRAMS**

There is no update on this subtask.

### **TASK 4 ACTIVITIES PLANNED DURING THE NEXT QUARTER**

- ERC will continue to manage the MOOC over the next quarter, closing registration at the end of April and closing the course at the end of May.
- Next quarter ERC will strategically reach out to MOOC participants and encourage them to complete the MOOC based on their current participation (e.g. students who have not begun the MOOC will receive a message encouraging them to start while students who are close to earning their certificate will receive a different message).
- ERC will also host two additional interactive sessions before the MOOC closes, one in April and one in May.
- MOOC certificates will be issued in June, after the course closes.

### **TASK 5—PILOT ACTIVITIES**

During the quarter ERC's support for the core operations of the National Land Observatory of Burkina Faso (ONF) came to a close, though the ONF subcontract to implement the MAST pilot project was extended for two additional months. On Pilot 3, ERC launched field activities for the Responsible Land Based Investment pilot project in Mozambique. Subcontractor Indufor developed a draft due diligence tool to help assess land tenure risks in land-based investments, while ERC developed a draft M&E plan, and also reviewed and supported workshop discussions for the Performance Evaluation of the pilot.

#### **SUBTASK 5.A: USING MOBILE TECHNOLOGIES AND CROWDSOURCING TO INFORM LAND ADMINISTRATION SYSTEMS—TANZANIA (PILOT 1)**

There will be no further activity under this sub-task.

#### **SUBTASK 5.B: NATIONAL LAND OBSERVATORY—BURKINA FASO (PILOT 2)**

This subtask contains two discrete activities: ERC support for the ONF's core operations of information gathering, analysis, and public outreach on land policy implementation; and ERC support of the MAST pilot project in Burkina Faso, with which the ONF is heavily involved.

ERC's support for the ONF's core operations came to an end in February, as planned. This support started in August, 2014, a period of 31 months. During the quarter the ONF continued implementing its five-year land observation program, and produced a semi-annual report on priority themes.

Much more activity occurred on the MAST side of the ONF. The pilot project itself was completed, with the following results: 2,708 rural land parcels mapped and attribute data captured; the 45-day public notice period to allow potentially affected parties to object to proposed land rights allocations took place; government review of the data was completed; and the first delivery of land rights certificates took place at a ceremony in the village of Boudry on February 23. ERC consultant Anne Girardin made a TDY to Burkina Faso during this period to provide technical assistance and general support to the ONF.

Another major effort by the ONF vis-à-vis MAST during the quarter was preparation of its report for the March, 2017 World Bank Conference on Land and Poverty. The report was titled "Using Mobile Phones, GPS and the Cloud to Deliver Faster, Cheaper, and More Transparent Land Titles: the Case of Burkina Faso." ERC supported the travel of two ONF employees to the conference and Mr. Médard Some, the ONF's MAST specialist, presented the report at the conference on March 21. ERC staff and consultants provide significant support to the ONF in preparation of the report.

Finally, during the quarter ERC prepared a draft transition plan for transferring ownership and capacity of MAST/BF to local institutions, and submitted it to E3/LU for review. The plan proposes that the ONF and the Boudry Commune land registration office (SFR) to be the national leaders of maintaining and deploying MAST technology as opportunities arise, and presents (i) a foundation budget to maintain basic MAST capacity in Burkina Faso, and (ii) a more robust cost estimate to deploy MAST around the country which would be utilized if opportunities arise and funds are available.

### **SUBTASK 5.B ACTIVITIES PLANNED DURING THE NEXT QUARTER**

- ERC support of the MAST pilot will end at the close of April 2017. During the month ERC will focus on capturing all lessons learned and polishing deliverables to have them in the best shape possible going forward. This includes improving the translation of the technical documentation that has been translated into French, and final work on the plan for transition of MAST capacity to local institutions.
- ERC, though its subcontract with the ONF, will support the April Mission of Mr. Jeremy Green (E3/LU Communications and Learning Manager) to Burkina Faso to gather communications content on MAST and on other USAID initiatives that are not related to ERC.

### **SUBTASK 5.C: RESPONSIBLE LAND-BASED INVESTMENT (PILOT 3)**

During this quarter, ERC launched field-level activities for the Responsible Land Based Investment pilot project with a kick-off meeting in Mozambique. In a week-long series of meetings ERC, together with E3/LU staff and sub-contractor Indufor, met with a variety of stakeholders including USAID/Mozambique, local community members, local officials, and members of the Illovo Sugar team at the Maragra Acucar facility to socialize the project and to discuss concerns. During these meetings the participants were able to identify three geographies in which to conduct participatory mapping and to

record land rights. ERC also identified that some of activities that were outlined in the original Statement of Work are not required and so will work with Indufor to develop a revised scope of work. In addition, ERC developed a draft M&E plan, which is in the process of being revised. Finally, ERC met with E3/LU and MSI to discuss MSI's performance evaluation of the pilot.

In addition, Indufor developed an initial draft of a due diligence tool, which ERC reviewed. This document will be tested in Belize, and then revised and strengthened. Planning to conduct due diligence for this Belize project began in this quarter.

### **SUBTASK 5.C ACTIVITIES PLANNED DURING THE NEXT QUARTER**

- Conduct sensitization efforts with local government officials and communities members in Mozambique
- Finalize development of portal to collect and share land rights information
- Train 12 local people (4 from Illovo Sugar and 8 from the local community) to capture and record land rights information
- Begin data collection in Mozambique
- Finalize M&E plan and continue M&E data collection
- Finalize planning for due diligence in Belize
- Conduct field-based due diligence work in Belize

# 4.0 PROJECT SPECIFIC PERFORMANCE INDICATORS

Outcome Indicators	# This Quarter	# Overall
<b>ERC Strategic Objective 1—Expanded evidence-based knowledge</b>		
# Promotions of completed products	2	44
# Donors/Agencies that express interest in replication or scaling up a pilot	0	1
# Attendees or registrants of ERC content presentations	48	1527
# New USAID project awards that incorporate LTPR lessons learned	0	0
# Pilot replication sites	0	4
<b>ERC Strategic Objective 2—Best LTPR practices communicated to influence USG and global policies and practices</b>		
# Downloads of uploaded products	217	5577
# Mentions in Media scan		
-- # Mention E3/LU Staff	3	36
-- # Mention LTPR Portal Content	4	85
-- # Mention LTPR Projects / Work	16	109
# (Re)tweets	91	3865
# Shares in LinkedIn	4	108
# Times USG requests data or LTPR info	N/A	N/A
# Requests for more information, meetings	N/A	N/A
Google, Twitter, Klout analytics	See Analytics Report	See Analytics Report
# Wiki contributors	N/A	N/A
<b>ERC Strategic Objective 3—Greater USAID and USG capacity in LTPR</b>		
% Increase between pre-and post-training evaluation scores	N/A	average—8%
% Training course participants from outside USAID	N/A	average—64%
# Portal users from countries of recent TDYs	N/A	3094
# Requests for TDYs from recent training attendees	N/A	0
# Downloads of tools	10	209
# Active members of Communities of Practice	N/A	20
# Comments, decisions by Communities of Practice	N/A	N/A

Output Indicators	# This Quarter	# Overall
<b>Task 1—Impact Evaluation: Provides evidence-based social &amp; economic findings to inform USAID programming</b>		
# IE data collection instruments completed and approved	N/A	3
# IE evaluation methodologies completed and approved	N/A	1
# IE reports completed	N/A	1
# Baseline & endline datasets	N/A	10
# Datasets available online	N/A	0
# Households surveyed	N/A	4332
<b>Task 2—Research: Builds knowledge, tests hypotheses, and devises innovative research methodologies &amp; approaches to strengthen LTPR programming</b>		
Research Designs		
# Research concept notes completed and approved	0	1
# Research work plans completed and approved	0	1
Research Reports		
# Research papers / reports completed and approved	2	15
# Research reports completed	0	0
# Baseline and endline data sets	0	24
# Working papers available	0	17
# Datasets available online	0	0
IE Designs		
# IE data collection instruments completed and approved	8	59
# IE evaluation methodologies completed and approved	1	8
IE Completed		
# program IE completed and approved	0	1
# IE reports completed (Design, Baseline)	0	6
# baseline & endline datasets (Qualitative)	0	13
# Datasets available online	0	0
# Households surveyed	804	19003
<b>Task 3—Communication: Educates key audiences, facilitates knowledge sharing and LTPR program design, and promotes ERC research, evaluations, trainings and pilots and STARR projects</b>		
% of recommended enhancements completed	N/A	80%
% response to portal user surveys	N/A	0
# Communications products developed (disaggregate by type, # times/variety of ways, frequency)		
-- Commentaries	20	127
-- Tweets	42	2076
-- World Bank marketing materials created	15	37
# of ERC product presentations	4	35
# of issue briefs	0	7
# Wiki topics	0	0
# Communities of Practice facilitated	0	0
# of participants engaged in Community of Practice	0	50
% of STARR partners that contribute	N/A	average—43%

<b>Output Indicators</b>	<b># This Quarter</b>	<b># Overall</b>
# of tools developed or repackaged	0	1
<b>Task 4—Training: Builds LTPR capacity among USG, host country &amp; other key target audiences to support next generation of LTPR practitioners</b>		
# Training materials developed	0	22
# People trained	0	2073
# of trainings conducted	0	4
# Online courses developed	0	2
# Participants trained through online courses	0	1969
<b>Task 5—Tests, analyzes and pilots approaches to strengthen LTPR for replication and scaling of future LTPR initiatives</b>		
# Plots surveyed and property rights recorded by pilot intervention	2700	6635
% households participating & recording their land rights	0	Average—98%
% household land rights disputed in a community	N/A	2%
% households with increased perception of tenure security at the end of the pilot from different demographic perspectives, especially gender disaggregated	N/A	N/A
% of crowdsourced land rights formalized	N/A	16%
% of households requesting an upgrade in the information required to define their land rights during the pilot projects	N/A	N/A
Time, cost & ease of use in recording land rights information on mobile technology	N/A	N/A

<b>Outcome Indicators</b>	<b># This Quarter</b>	<b># Overall</b>
<b>STARR Reporting Indicators</b>		
# of improvements in laws and regulations affecting property rights of the urban and rural poor enacted with USG assistance	N/A	N/A
# of households who have obtained documented property rights as result of USG assistance (disaggregated by sex and individual/collective rights)	N/A	2049
Person hours of training completed by government officials, traditional authority, or individuals related to LTPR supported by USG assistance (disaggregated by sex)	0	31232.38
# of previously existing land and natural resource-based conflicts resolved in areas receiving USG assistance for land conflict mitigation	N/A	N/A
# of people attending USG-assisted facilitated events that are geared toward strengthening understanding and awareness of property rights and resource governance-related issues (disaggregated by sex)	80	4798
<b>Biodiversity and Sustainable Landscape Indicators</b>		
# of people with increased economic benefits derived from sustainable natural resource management and conservation as a result of USG assistance	N/A	N/A
# of hectares of biological significance and/or natural resources under improved natural resource management as a result of USG assistance	N/A	N/A
# of person hours of training in natural resources management and/or biodiversity conservation supported by USG assistance	0	600



# ANNEX A: SUCCESS STORY

Success stories from this quarter are provided on the following page.



## EVALUATION, RESEARCH, AND COMMUNICATION

### Results from a Pilot Project in Burkina Faso to Improve the Delivery of Land-Rights Documents to Rural People



**A representative of the village lands commission (CFV) uses the Mobile Application to Secure Tenure (MAST) with a mobile phone and Bluetooth GPS unit in Boudry Commune, Burkina Faso.**

U.S. Agency for International  
Development  
Washington, DC 20523-1000  
<http://stories.usaid.gov>

From 2005-2012, the Government of Burkina Faso put into law an ambitious vision of rural land tenure reform. It included giving rural families a land certificate (APFR) that formally recognized their customary rights to land. The vision also included establishing local offices to prepare these certificates and conduct other land administration activities. Since that time, however, only a few thousand families have actually received APFRs, largely due to the difficult operational conditions in rural Burkina Faso. Thus, there is a need to figure out how to provide APFRs to people faster, cheaper, and easier; otherwise these rural people will not benefit from the new law.

To address this challenge, ERC pilot-tested the use of smart phones, linked with handheld GPS devices, to quickly map rural land parcels and capture data about the land users needed to prepare APFRs for them. The IT platform is called MAST – the Mobile Application to Secure Tenure – and is designed for use by villagers with a high-school education and cell-phone experience. The testing took place in four villages in Boudry Commune (east of Ouagadougou), with significant participation from the local property registration office (SFR) and the National Land Observatory of Burkina Faso ([www.onf-bf.org](http://www.onf-bf.org)). The implementation period was September 2016-February 2017.

The pilot results were impressive. In only 25 days, 12 villagers used MAST to map and capture data on 2,708 rural land parcels. Prior efforts generally took more time and required deployment of trained surveyors, driving up costs and reducing the ability to implement on a large scale.

Using MAST on a large scale will require additional investment in hardware and software infrastructure, and more troubleshooting, but the pilot results offer a compelling case that MAST can deliver APFRs at less expense and greater speed than heretofore seen in Burkina Faso.

# ANNEX B: ERC PROJECT BRIEF UPDATE

An updated project brief is provided on the following page.



**USAID**  
FROM THE AMERICAN PEOPLE

# PROJECT BRIEF

# EVALUATION, RESEARCH, AND COMMUNICATION PROJECT

## BACKGROUND

The Evaluation, Research and Communication (ERC) project is a 5-year initiative, launched in 2013 under the Strengthening Tenure and Resource Rights (STARR) IQC. The purpose of the project is to create, expand, and communicate evidence-based knowledge around best land tenure and property rights (LTPR) practices to enhance internal USAID and external U.S. Government (USG) learning, guide program design and implementation, and make the most effective use of limited development resources to accomplish key development objectives. The ERC project consists of five tasks:

- Task 1) Impact Evaluation: Promotes evidence-based policy by designing and implementing innovative approaches to measure the impact of USAID LTPR programming;
- Task 2) Research: Strengthens knowledge and understanding of LTPR by undertaking innovative research and generating evidence-based results;
- Task 3) Communications: Facilitates knowledge sharing and LTPR program design, and promotes ERC research, evaluations, trainings and pilots;
- Task 4) Training: Builds LTPR capacity among USG, host country and other key target audiences to support the next generation of LTPR practitioners; and
- Task 5) Implementation of Pilot Activities: Tests, analyzes, and pilots approaches to strengthen LTPR for replication and scaling of future initiatives.

## PRELIMINARY OUTCOMES

Under Tasks 1 and 2, USAID is implementing a series of rigorous impact evaluations (IE) to more precisely determine the impact on livelihood outcomes of land tenure interventions. ERC has conducted 6 baseline data collections and completed baseline reports for each:

- the [Land Administration to Nurture Development](#) (LAND) project in Oromia, Ethiopia
- the LAND project in Afar, Ethiopia
- the [Property Rights and Artisanal Diamond Development II](#) (PRADD II) project in Guinea
- the Community Land Protection Program (CLPP) in Liberia
- the Reducing Emissions from Deforestation and Forest Degradation (REDD+) Community-Based Forest Management Program (CFP) in Zambia's Eastern Province
- the impact of USAID's [Tenure and Global Climate Change](#) (TGCC) Project's

ERC has also collected endline data, completed analysis of panel data, and published the [endline report](#) for an IE of the [Ethiopia Land Administration Program](#) (ELAP) and the [Ethiopia Strengthening Land Tenure and Administration Program](#) (ELTAP). Currently, ERC is preparing to closeout the TGCC IE; the endline data collection is anticipated for June 2017, and analysis of the panel data will follow.

Under Task 3, ERC conducts targeted communication campaigns to promote STARR project impacts, research, best practices, and lessons learned from STARR and USAID's broader land tenure portfolio. Recent communications campaigns have focused on Land Matters for Youth and the Mobile Application to Secure Tenure (MAST) project, and included a sustained campaign to promote USAID's LTPR MOOC (see below). ERC also manages the USAID Land Tenure Portal (<https://www.land-links.org>), which features commentaries, issue briefs, project information, country profiles, and other materials showing the results, challenges, and lessons from USAID's efforts to improve land and resource governance for all members of society.

Under Task 4, USAID has developed training initiatives that include USAID's Massive Open Online Course (MOOC) on LTPR, which was launched in September 2015. ERC has also drafted a grants mechanism to support academic research on LTPR. These initiatives are designed to build capacity within USAID, the USG, and the broader development community to better understand and address LTPR issues. During this quarter ERC worked with USAID to prepare new MOOC course offerings. The new offerings are included in the MOOC 2.0 course, which will be offered in January-February 2017.

Under Task 5, USAID's Mobile Applications to Secure Tenure (MAST) was used to map and collect data on approximately 3,900 parcels in three villages in Tanzania's Iringa District. By June, 2016 just over 1,600 land rights certificates (CCROs) were printed, and this pilot is now complete. Also under Task 5, from August 2014-February 2017 ERC supported the operations of the National Land Observatory in Burkina Faso. The Observatory is an independent organization that undertakes research on land governance issues in the country and uses the information gathered to foster policy dialogue. This support was to advance G-7 commitments made in 2014. Since September 2016, ERC has provided a separate stream of support to the Observatory to adapt the MAST-Tanzania platform for use in the legal and institutional environment of Burkina Faso. In the latter half of 2016 the ERC supported a pilot project in Burkina Faso, run through the ONF, to adapt the MAST technology for use in that country. In late 2016 the technology was deployed to map 2,708 rural land parcels in only 25 days.

Finally under Task 5, USAID is supporting innovative approaches to "road test" the New Alliance for Food Security and Nutrition's "Analytical Framework for Responsible Land-Based Investments in African Agriculture." The project is developing an enhanced due diligence process to help investors identify land tenure risks and develop strategies to address these risks. The pilot is likely to work in Belize (the pilot anticipated working in Cameroon but this investment was not pursued) and in an African country to be determined. The pilot is also working with Illovo Sugar, Ltd. in Mozambique to help map and record land rights in approximately 3,000 hectares of land surrounding Illovo's Maragra Acucar plantation. This work will help secure rights for several thousand smallholders - those who contract with Illovo to grow sugar cane as well as those with parcels in the pilot area who grow other crops. It will also help establish a grievance mechanism for Illovo and a plan for a multi-stakeholder platform to support dialogue on land concerns. Lessons learned, case studies and communications materials from this pilot will be shared with the private sector to promote more responsible investing, reduce land-related risks and in support of USAID's goals of securing land rights for women and men in developing countries.

**USAID ERC COR:** Ms. Sarah Lowery

**Cloudburst ERC COP:** Mr. Leonard Rolfes, Jr.

**USAID LTPR Portal:** <https://www.land-links.org/>

# ANNEX C: ERC MEDIA

2 media products—1 video and photos and captions—are provided on the following pages. Per the new photo submission guidance, ERC photos have been uploaded to the USAID Land Matters Flickr pool. Links to the photos and captions are provided.

## MEDIA I. VIDEO: INTERACTIVE MOOC SESSION WITH ZAMBIAN CHIEFTAINESS MKANDA



Watch the video here: <https://www.land-links.org/2017/03/interactive-mooc-session-zambian-chieftainess-mkanda/>

## MEDIA 2. PHOTOS AND CAPTIONS

### LIBERIA: CLPP PERFORMANCE EVALUATION MIDLINE

#### 1. **Photo:** [CLPP Evaluation: Women's Leader](#)

- **Caption:** The Women's Leader of a study community listens as the survey team introduces themselves in Lofa county, Liberia.

USAID, in partnership with Namati, is supporting the implementation of a rigorous performance evaluation (PE) of the Community Land Protection Program (CLPP) in Liberia. The evaluation utilizes a set of matched comparison communities together with baseline and midline data to investigate whether and how CLPP efforts function to: effectively strengthen the land tenure security of rural communities; improve perceptions of governance and increase accountability of local leaders; help communities to document their land and to codify rules to protect their community land and natural resource claims; and impact the land protection and governance participation of women, youth and minority group members. During community entry, the survey team explains the purpose of the data collection, details what activities they will undertake within the community, and presents the community leaders with documentation that they have obtained appropriate government permissions to conduct research. Photo Credit: Ben Ewing / The Cloudburst Group

#### 2. **Photo:** [CLPP Evaluation: Qualitative Researcher](#)

- **Caption:** A qualitative researcher prepares to conduct a focus group discussion with youth in Lofa county, Liberia.

Because of the selection for focus groups of subgroups of interest to the Community Land Protection Program (CLPP) performance evaluation—women, youth, hunters, members of minority groups, and elders—the focus groups are a key data source for examining heterogeneous treatment effects. The collection of qualitative data also adds depth and nuance to the overall research effort by grounding the quantitative data within the social context and triangulating responses from the quantitative surveys, particularly about sensitive topics, like land disputes and governance. Photo Credit: Ben Ewing / The Cloudburst Group

#### 3. **Photo:** [CLPP Evaluation: Focus Group Discussion](#)

- **Caption:** Qualitative researchers (center and right) conduct a focus group discussion with youth in Lofa county, Liberia as part of the Community Land Protection Program (CLPP) performance evaluation. Photo Credit: Ben Ewing / The Cloudburst Group

#### 4. **Photo:** [CLPP Evaluation: Enumerator and Household Head](#)

- **Caption:** An enumerator and a household head in Lofa county, Liberia. USAID, in partnership with Namati, is supporting the implementation of a rigorous performance evaluation (PE) of the Community Land Protection Program (CLPP) in Liberia.

The evaluation utilizes a set of matched comparison communities together with baseline and midline data to investigate whether and how CLPP efforts function to: effectively strengthen the land tenure security of rural communities; improve perceptions of governance and increase



accountability of local leaders; help communities to document their land and to codify rules to protect their community land and natural resource claims; and impact the land protection and governance participation of women, youth and minority group members. Photo Credit: Ben Ewing / The Cloudburst Group

5. **Photo:** [CLPP Evaluation: Household Head Survey](#)

- **Caption:** For the Community Land Protection Program (CLPP) performance evaluation, an enumerator surveys a household head in Lofa county, Liberia. The household survey serves as an important means to measure outcomes of interest and the mechanisms linking CLPP to these outcomes at household level, such as changes in knowledge, attitudes, and behaviors hypothesized to change as a result of CLPP, changes in knowledge and awareness of land rights, changes in levels of participation in natural resource decision making, and attitudinal change about the need for sustainable management and conservation of natural resources. Additionally, household surveys serve an important role in investigating democratic accountability and corruption indicators. Photo Credit: Ben Ewing / The Cloudburst Group

## **BURKINA FASO: MOBILE APPLICATIONS TO SECURE TENURE**

6. **Photo:** [MAST in Burkina Faso](#)

- **Caption:** A representative of the village lands commission (CFV) uses the Mobile Application to Secure Tenure (MAST) with a mobile phone and Bluetooth GPS unit in Boudry Commune, Burkina Faso.

The Government of Burkina Faso put into law an ambitious vision of rural land tenure reform that includes giving rural families a land certificate (APFR), which formally recognizes their customary rights to land. MAST is being piloted in Burkina to quickly map rural land parcels and capture data about the land users needed to prepare APFRs for them. Photo Credit: Anne Girardin / The Cloudburst Group

# ANNEX D: PROJECT STAFF

## CLouDBURST ERC TEAM MEMBERS

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