














The Carbon Institute: Building a Central African Hub for Forest Carbon Science and Accounting

COP22 Event on
Capacity Building in Africa
University Cadi Ayyad
November 10, 2016

 <p>301 GHG ACCOUNTING FOR FOREST INVENTORIES</p>	 <p>302 GHG ACCOUNTING FOR FOREST AND OTHER LAND USE PROJECTS</p>	 <p>302S CUANTIFICACIÓN DE GEI EN PROYECTOS FORESTALES Y OTROS PROYECTOS DE USO DE LA TIERRA</p>	 <p>311 GHG ACCOUNTING FOR LANDFILL METHANE PROJECTS</p>	 <p>501 IPCC: INTRODUCTION TO CROSS-CUTTING ISSUES</p>	 <p>511 IPCC: ENERGY</p>	 <p>521 IPCC: INDUSTRIAL PROCESSES AND OTHER PRODUCT USE</p>	 <p>531 IPCC: AGRICULTURE</p>
 <p>312 GHG ACCOUNTING FOR COAL MINE METHANE PROJECTS</p>	 <p>321 GHG ACCOUNTING FOR ENERGY EFFICIENCY PROJECTS</p>	 <p>331 GHG ACCOUNTING FOR RENEWABLE ENERGY PROJECTS</p>	 <p>401 GHG VERIFICATION FOR INVENTORIES AND PROJECTS</p>	 <p>541 IPCC: FORESTRY AND OTHER LAND USES</p>	 <p>551 IPCC: WASTE</p>	 <p>203 BASICS OF VALUE CHAIN GHG ACCOUNTING</p>	 <p>711 THE ANALYTICAL FUNDAMENTALS OF CARBON MANAGEMENT</p>

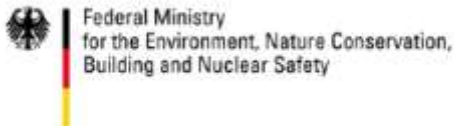
The Carbon Institute Partners and Donors



国家林业局调查规划设计院



Supported by:



based on a decision of the German Bundestag



The Carbon Institute's Mission



Empower a stronger global workforce to better
measure and manage carbon

Applied science for government needs:
Combined science and policy initiative

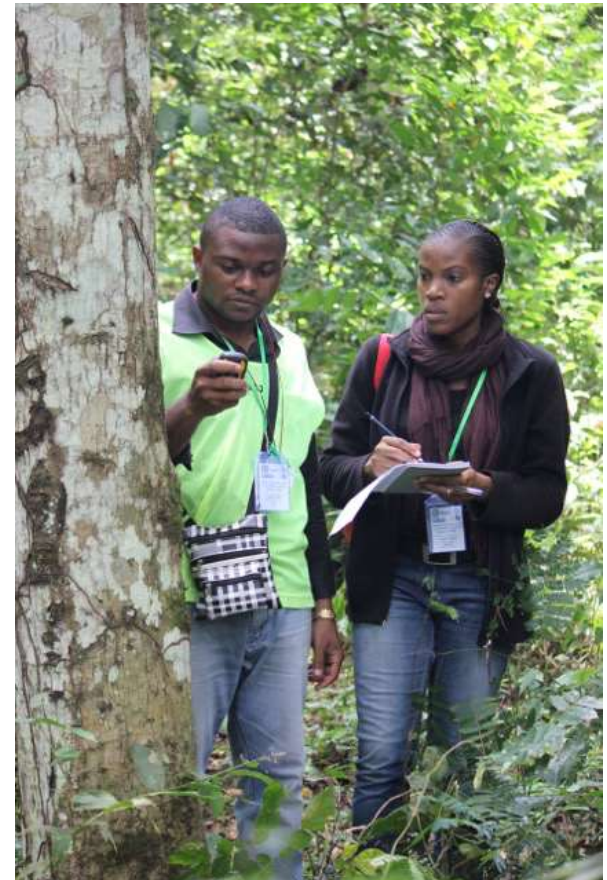


Our model

- Design government and academic partnerships
- Fill gaps in existing Terrestrial Carbon Accounting (TCA) capacity
- Create world class TCA Certificate programs
- Mentor faculty and graduates
- Focus on comprehensive (advanced) understanding and sustainability of programs

In Cameroon

- Scoping Study
- Teach-the-teacher trainings
- Mentoring
- Regional hub model



Scoping Study

- Identify government needs
- Coordinate government and academics
- Design TCA Certificate curriculum
- Identify best Cameroon faculty
- Fill gaps and supplement
- Begin recruiting



Comprehensive train-the-trainer

- Based on 1st Accredited Advanced TCA Certificate at University of California
- 27 students, taught by CRESA/Carbon Institute
- Curriculum (five days)
 - Policy context
 - Field measurements (emissions factors)
 - Remote sensing & GIS (activity data)
 - IPCC GPG
 - Statistics
 - Communication



Mentoring



- Six people with focused 25 hours of additional training each
- Based on needs
- Focus on pedagogy
- 80 hours of on-line IPCC
- Help with curriculums
- Alumni network
- TCA Help Desk



Regional Hub

- Starting to link Cameroon with Republic of Congo
- Work in progress, kick-off in December
- Scope, train, mentor



Results

- Succeeding in building a strong endogenous community of TCA trainers
- 1088 hours of training (Certificate)+ 144 hours of mentoring + 100s of hours in additional on-line training
- 100% of students would recommend the course
- Strong reviews and on-going revisions

Lessons Learned

- Active learning, repeated exposure
- People simply need to suffer with math and statistics
- Effective incentive = clear career advance
- Recruitment = most important step
- Participants as teachers

Shortfalls

- Prepare better (faculty and learners)
- Institutional sustainability
- Use real country data for practice, tying this to recruitment
- Mentoring was good, but not stellar evaluations
- French/English translation was good, not great
- Some logistics could have been smoother

Big Picture & Next Steps

- Expanding into other countries
- A global academic compact to support governments
- Hands-on research projects for gov't
- Building competency will increase trust
- IPCC Guidelines are the standard for doing, we want to build the standard for teaching
- Engaging IPCC itself (which doesn't prioritize training) and other global entities
- Ideas welcome!

Ideas welcome, thank you!

