



# Harmonizing Mitigation Activities with National Inventories for Effective NDC Tracking Experience and Lessons Learned from Government of Colombia and USAID RALI

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The Leadership Compact, a partner program of the LEDS GP, is a partnership of 12 countries that are leaders in advancing economic development through low carbon solutions. The Leadership Compact focuses technical support on design and implementation of policies, measures, and actions that enable Compact countries to unlock private investment and business partnerships to achieve these priority climate and development goals.

Partner countries include Colombia, Mexico, Peru, Jamaica, Vietnam, Kazakhstan, Senegal, Ghana, Sierra Leone, Malawi, Kenya and Morocco.

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- Introduction to RALI project
- Transparency Needs Under the Paris Agreement
- Country Spotlight: Colombia's Experience
  - Moving from Kyoto to Paris
  - Strengthening and Harmonizing GHG Tracking
- Overview of RALI/Colombia Activities
  - RALI GHG MRV Framework
  - SINGEI Prototype
- Questions







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#### USAID Resources to Advance LEDS Implementation (USAID RALI)

# INTRODUCTIONS



# **RALI** Project



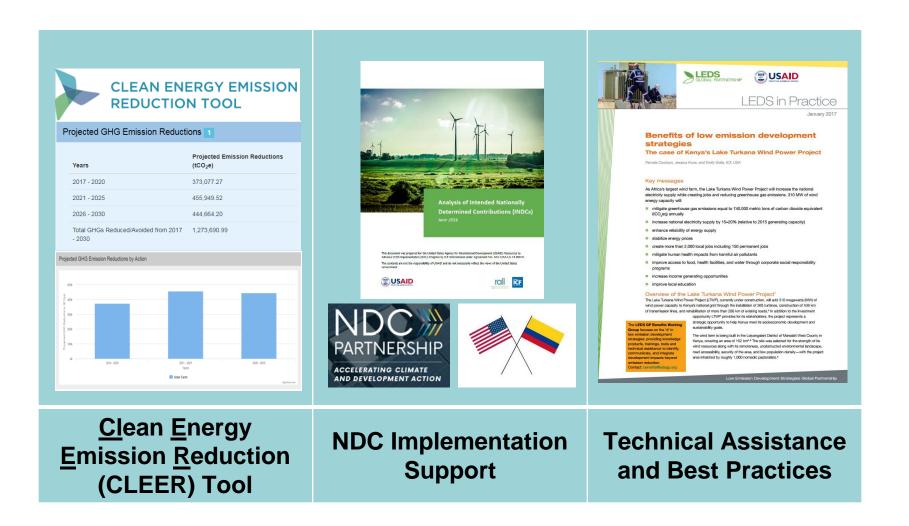


- Supports technically rigorous development and implementation of <u>Low Emission Development Strategies</u> or LEDS
- Focus on providing tools and technical assistance to USAID and developing country partners



## Who We Are: RALI Activities



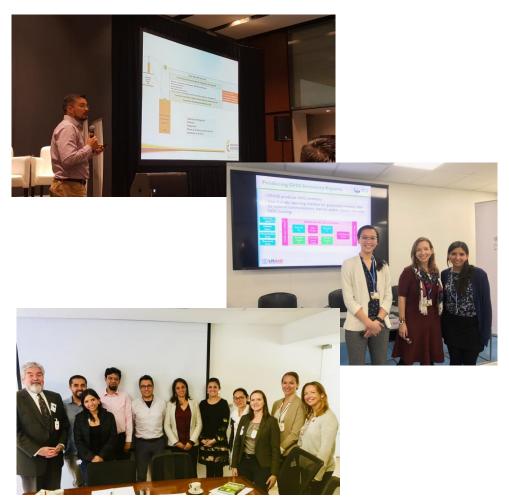




# **RALI's Engagement in Colombia**



- 18-month engagement
  - (January 2017 to June 2018)
- Working closely with:
  - Ministry of Environment and Sustainable Development (MADS)
  - Institute of Hydrology, Meteorology, and Environmental Studies (IDEAM)
  - USAID Colombia
  - Other local stakeholders
- Engagement included:
  - Technical analysis
  - Technology development
  - Harmonization pilot projects
  - Capacity building and global knowledge sharing



Top to Bottom: LAC LEDS Workshop in Mexico City; COP23 in Bonn, Germany; Closing mission in Bogota, Colombia





The Challenge

# **Transparency Needs Under the Paris Agreement**





- The Paris Agreement requires countries to set increasingly ambitious emissions targets (NDCs)
- Meeting these targets requires an established measurement, reporting, and verification (MRV) system for GHG emissions
- NDC targets will require bottom-up sectorial compliance data for national programs

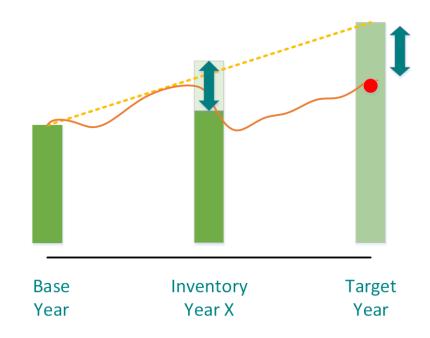
Exact MRV requirements under the Paris Agreement are still under development, but the agreement calls for countries to track progress in achieving NDCs, which will require an established MRV system



# How do Mitigation Efforts Impact UNFCCC Emission Reporting?



- Many countries have committed to reductions relative to BAU
- National inventories will likely show increasing emissions
- Mitigation activities should show emission reductions
- Countries need to harmonize mitigation MRV with the national emission inventory/BUR process
- Having a central system to aggregate data can drastically improve the GHG inventory process and harmonization of data







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Moving from Kyoto to Paris

# **Colombia's Experience**





#### Webinar LEDS LAC: RALI - Colombia

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#### Country perspective: Colombia



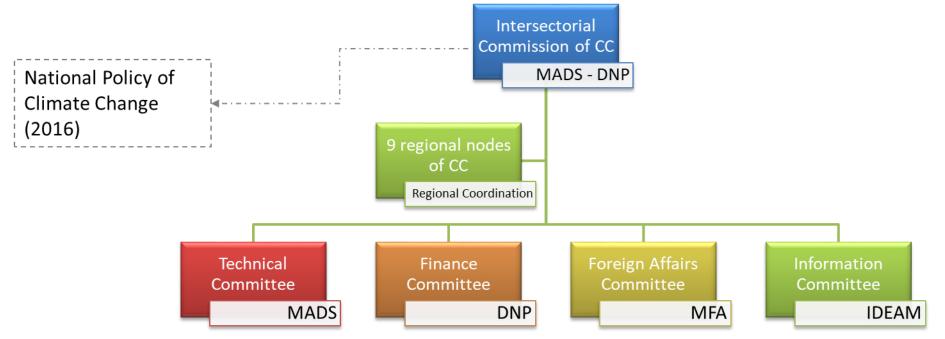




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### National climate change system - SISCLIMA



**MADS**: Ministry of Environment and Sustainable Development

**DNP**: National Planning Department

**MFA**: Ministry of Foreign Affairs

IDEAM: National Institute of Hydrology, Meteorology and Environmental Studies





#### Implementing the Paris Agreement in Colombia

#### **COLOMBIA: MITIGATION GOAL**

#### Unilateral and Emission reduction target unconditional 350 Emissions (M ton CO<sub>2</sub>-eq) 325 target 300 **BAU Scenario** Colombia commits to reduce 275 its greenhouse gas 20% 250 Mitigation emissions by 20% with Scenario reduction 225 respect to the projected compared 200 **Business as Usual scenario** to the **BAU** 2015 (BAU) by 2030. 2010 2020 2025 2030 scenario Subject to the provision of international support, Colombia could reduce its Conditional Target

greenhouse gas emissions by 30% with respect to BAU by 2030.

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# From Kioto to París

#### MRV – Project approach:

- 1. Emissions
- 2. Reductions
- 3. Financing
- 4. MRV M&E

#### **MRV Principles:**

Continuous improvements, flexibility, environmental integrity and efficiency.

#### Information management for the Paris Agreement

- 1. NDC tracking and mitigation goals accomplishment.
- 2. Climate change policies performance tracking.
- 3. NDC goals in mitigation and adaptation.

#### Transparency Framework for the Paris Agreement

- Accounting rules
- Legal framework
  - Technological tools



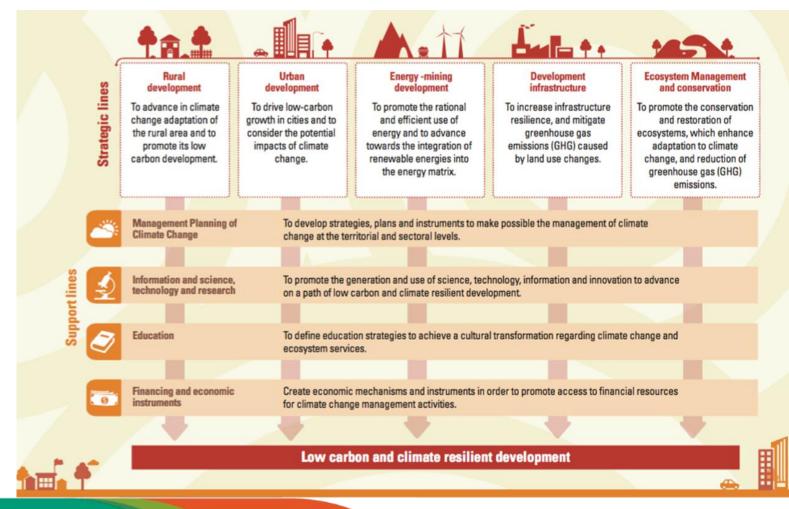




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### Country perspective: National climate change policy



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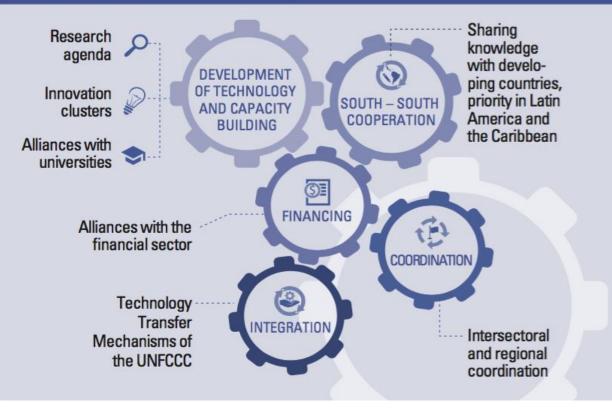


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## Means of Implementation



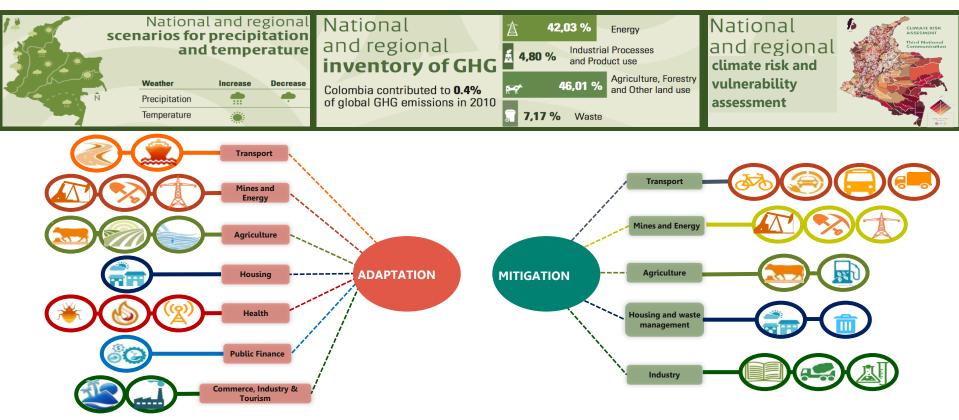






## Implementing the Paris Agreement in Colombia

Prioritized sectors for adaptation and mitigation goals







# Country perspective: Colombia

#### Law 1753/2015 "National Development Plan"

The Ministries of Finance; Agriculture and Rural Development; Mines and Energy; Transport; Health and Social Protection; Housing, City and Territory; and Trade, Industry and Tourism must formulate and implement sectoral plans for adaptation to climate change, and sectoral action plans of the Colombian Low Carbon Development Strategy, which will contain **quantitative sectoral GHG** reduction targets for short (2020) and medium term (2025 or 2030).

#### Institutional articulation **SISCLIMA** (Decree 298/2016)

Inter-Sectoral Commission **National level** on Climate Change **Climate Change Regional level Regional Nodes** Territorial entities and regional Local level

environmental authorities

- 1. Amazon
- 2. Orinoguia
- 3. East Andean Center
- 4. Norandino
- 5. Eje Cafetero (coffee region)

Plan Nacional de Desarrollo

TODOS POR UN NUEVO PAÍS

O DNP

2014 - 2018

TODOS POR UN

- 6. Antioquia
- 7. Caribbean and Insular
- 8. North Pacific
- 9. South Pacific

Law 1844/2017 - Ratification instrument for the Paris Agreement - July 12th



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## SINGEI: RALI project





- Design the INGEI web platform
- MRV Harmonization approach
- Prototype (user experience and feedback)





# SINGEI: Six steps of the RALI GHG MRV Harmonization Approach









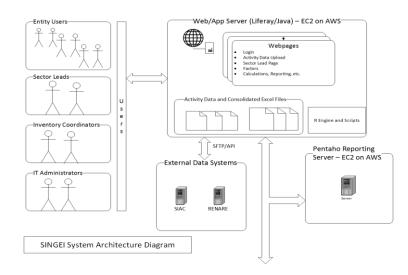
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## SINGEI: Design the INGEI web platform

- Bilateral collaboration processes with strategic stakeholders in the INGEI elaboration
- Strength national capacities for biennial reports under the Paris Agreement
- Prototype tool for testing the end user experience



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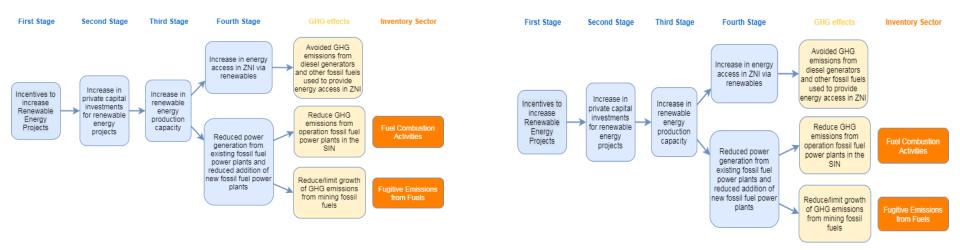




# SINGEI: 2 sectorial action pilots (STEPS 1-3)

#### Harmonization Pilot 1: Livestock NAMA

#### Harmonization Pilot 2: Renewable Energy Activities







# Bottom up – top down approaches

# National GHG inventories

















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# **Overview of RALI/Colombia Activities**





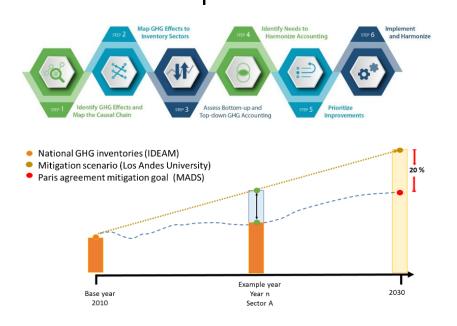


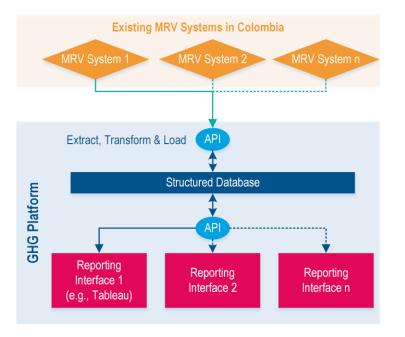
#### Harmonize MRV

Ensure that reported inventory GHG emissions to the UNFCCC reflect MRV actions that have taken place

## **Build SINGEI Prototype**

Position IDEAM to efficiently prepare biennial inventories through increased automation





The USAID RALI project developed a six-step framework that countries can use to guide the harmonization of data from mitigation activities with the national GHG inventory.

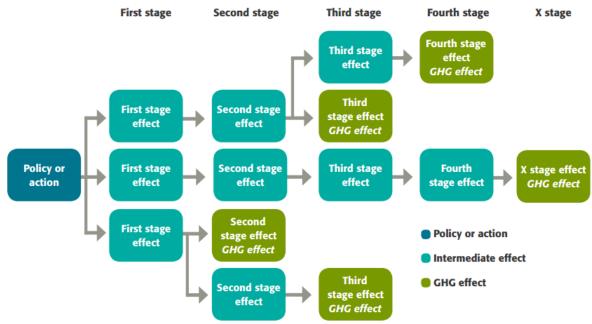








- Define the mitigation policy or action
- Map the causal chain of the policy outcomes and GHG effects



Source: GHG Protocol's Policy and Action Standard

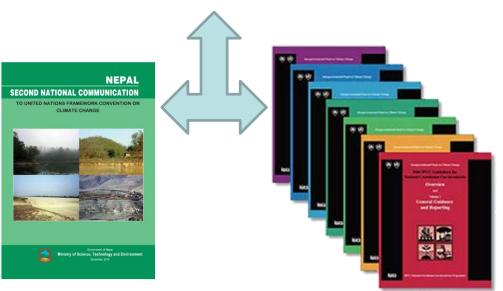




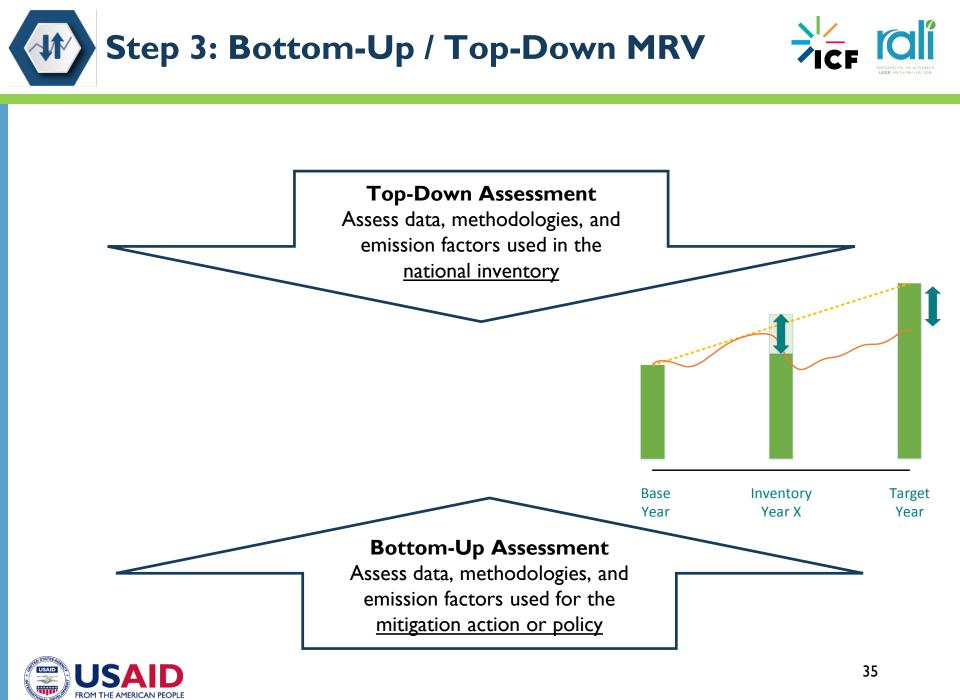


- Map GHG impacts from mitigation activity to standardized sectors and source categories from IPCC
- Identify which drivers of GHG emissions will be impacted by mitigation activity
  - E.g., "Activity will reduce fuel oil consumed in the residential sector"



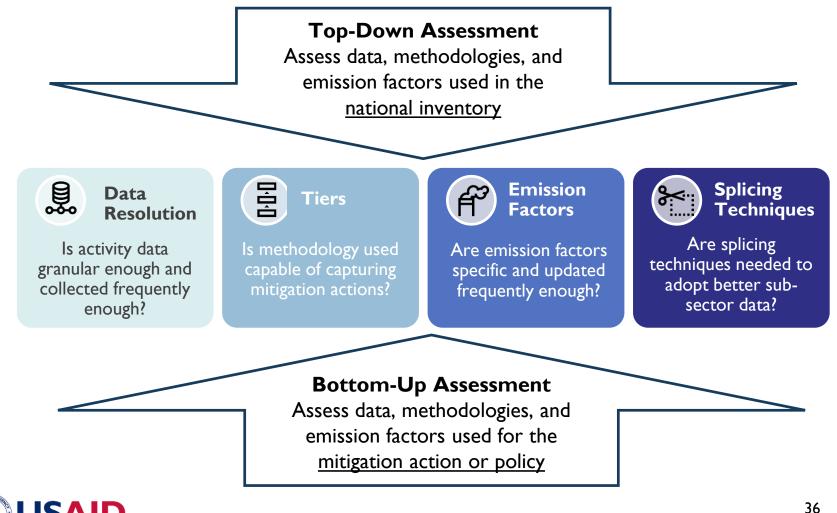
















Prioritize improvements to inventory or mitigation activity MRV using a decision framework. Example:



**Highest priority:** AFOLU expected to play significant role in reaching NDC target



Middle priority: Energy results in significant emissions but projects are not yet defined



**Lowest priority:** Transportation already collects robust information annually at the municipal level





Work with project implementers, agencies, and other key stakeholders to modify current inventory and mitigation MRV systems to address gaps.

This could include:

- Defining additional data requirements
- Institutional arrangements
- Frequency/rigor of data collection
- Improving Tier of inventory methodologies
- Splicing subnational data with national data





## **SINGEI** Platform



IDEAM Institute de Hidrología.



	Sistema Nacional de Inventarios de Gases de Efecto Invernadero	Welcome Joe Energy (JoeEnergy) User Role: Sector Lead Logout Sector: Energy
Upload File		
View Files	Reports	
Consolidations	List of Regions in Colombia Annual Emissions Report	
Reports		

Reports Factors

Uncertainty value modifications

View notifications

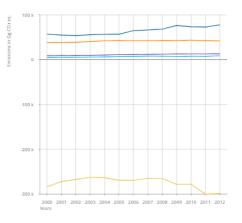
MRV data module

User account management

#### Show 10 v entries IPPU Waste AFOLU1 AFOLU2 Energy Sector Sector Sector (Gg Sector (Gg (Gg COz Sector (Gg (Gg COz Year COz eq.) COz eq.) COz eq.) eq.) eq.) 2000 56,988.6 4,966.9 37,866.4 -283,487.6 9,034.1 2001 55,065.3 5,028.2 38,234.2 -272,033.7 9,438.6 2002 54,119.9 5,423.5 39,095.4 -267,168.4 9,774.7 55,819.3 2003 6,193.6 40,546.4 -262,460.0 10,059.6 2004 56,784.1 6.251.6 42,448.6 -263,301.9 10,467.5 2005 56.872.6 7,217.2 42.972.7 -268.806.1 11.409.2 2006 65.125.0 7.419.8 42.668.9 -269.022.8 11.490.2 2007 66,380.7 8,085.5 42,735.9 -264,704.2 11,913.6 2008 68.238.6 7,712.0 42.871.1 -264.859.7 12.493.2 2009 76,357.3 7,196.9 42,822.9 -278,274.1 12,879.9 Showing 1 to 10 of 13 entries Previous 1 2 Next

#### Annual Emissions Report

● Energy ● IPPU ● AFOLU1 ● AFOLU2 ● Waste







# **Questions**?







- I. Respond to the GotoWebinar poll (see menu)
- 2. Find out more about the MRV Harmonization and USAID RALI activities

https://www.climatelinks.org/projects/rali

3. Contact us with questions!

