

Reliability

Innovation



Expertise

MRV workshop: goals and structure of the project

June 3rd 2014



- ▶ **Concept and goal of the project**
- ▶ **Observations**
- ▶ **Project structure**

► Objective

- Identification of the sectors, gases and scales where innovative technologies for estimating GHG emissions have a competitive advantage compared to the MRV procedures that are currently applied in carbon markets and the climate economy

► Perspectives

- Improvement of MRV procedures currently applied in carbon pricing mechanisms
- Realizing the value of mitigation actions in new or under-represented sectors
- Realizing the value of innovative monitoring technologies

- ▶ **The carbon economy largely disconnected from the monitoring technologies developed in the academic and industrial research world.**
 - Bottom-up (practice) vs top-down (research)
 - Little synthetic information on MRV requirements in carbon pricing mechanisms
 - ▶ **Significant time lag between the procedures applied and the technologies available or under development**
- **The MRV Sector created a link between existing markets and innovative monitoring technologies.**

WP 1: Applying the economic theory of monitoring to the CDM

- **Objective:** identification and quantification of the theoretical value of the accuracy and reliability of **M** techniques and of the **R** and **V** procedures, on the basis of a review of the economic research on the issue

WP 2: Benchmarking MRV requirements and associated costs across carbon pricing mechanisms

- **Objective:** to provide benchmark on costs and precisions of monitoring procedures

→ « *Accounting for Carbon: Monitoring, Reporting and Verifying GHG Emissions in Practice* » Cambridge University Press (upcoming)

WP 3: Uncertainty analysis on a number of project types

- **Objective:** determine, in a number of methodologies, where some or more direct measurement could increase the environmental integrity of the activities whilst not increasing costs and highlight the potential market for measurement instruments.



WP 4: 2 business cases for new MRV solutions

- **Objective:** to establish concrete business cases for the 2 most promising opportunities for improvement of MRV methods (CH₄ and N₂O capture in wastewater treatment / Transportation)



WP 5: Outlining possible MRV solutions at city, regional or national level

- **Objective:** to quantify the costs and precision of monitoring systems applicable to measurement of CO₂ fluxes from the scale of a small region (~100 km) with intense emissions, based on atmospheric measurements and inversion modeling.



Thank you !

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9:30

MRV requirements, costs & barriers at the national, facility and project levels

- What are the MRV requirements and associated costs?
- Are requirements adapted to the amount of emissions at stake (i.e., materiality)?
- Are there incentives to reduce uncertainty?
- What tradeoff for reporting entities between uncertainty and costs?

Speakers:

Mr. Igor Shishlov, CDC Climat Research – How should MRV incentives be set up? How are they set up in the CDM?

Mr. Valentin Bellassen, CDC Climat Research – Similarities and differences in MRV requirements across scales and across schemes

Mr. Guillaume Jacquier, CITEPA– Focus on emissions trading schemes

Discussant: Marco Loprieno, European Commission – DG Clima

Q&A, discussion

11:00 **Coffee break**

Morning agenda (2/2)

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11:35 Case studies and possible improvements through innovative technologies

- Cost / precision analysis for several densities of sensors at city, regional or national level
- Realizing the value of mitigation actions in new of under-represented sectors
- Realizing the value of innovative monitoring technologies
- Business cases for 2 new MRV solutions

Speakers:

Ms. Ally Barker, NPL – Accuracy and uncertainty of monitoring in carbon offsetting projects

Mr. Patrick Bürgi, Southpole – case study on transportation

Mr. Lin Wu, LSCE – Atmospheric monitoring of CO₂ emissions: an innovative solution for cities.

Discussant: Mr. Massamba Thioye, UNFCCC/CDM

Q&A, discussion

13:00 Lunch