

Needs for MRV tools

COMMITMENTS

Committing and setting targets is the first building block

More and more organisations are committing to **decarbonization targets**.

Companies with approved targets (well below 2°C)



Companies with approved targets (1,5°C)



OPERATIONAL CHALLENGES

The struggle comes when organisations attempt to roll out the decarbonization strategies.

How to measure, monitor, verify and report on the environmental impact of low carbon practices anywhere and over long-time frames?

TOOLING AS A MUST

Organisations equip themselves with a MRV tool to deploy at scale low carbon triggers such as agroecological practices with adapted financial and human resources

How to select the right tool? What are the key questions and characteristics of each tool to decide which one corresponds to the organisation's context?



























The proposed inventory



What the inventory is:

- A way to simplify decision-making by identifying criteria that differentiate tools.
- A collection of information shared by tool developers but not verified by Deloitte nor "4per1000"*.
- An initial building block of a larger process where the company will develop its decarbonization strategy, focusing on agricultural levers and the tools needed to support it.
- An open-data tool.



What the inventory is not:

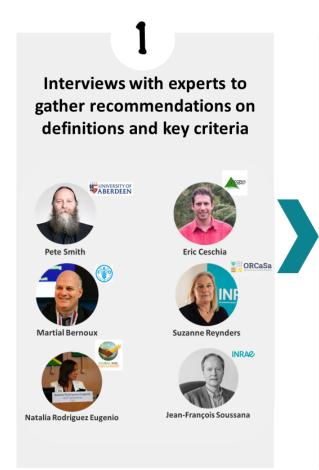
- A comparison of MRV solutions.
- A set of recommendations on the MRV solution that should be prioritized in your usage context.
- A guide for determining the relevance of using an MRV solution, as each organization must evaluate its specific context need independently.







A 4-step methodology









Identification of relevant differentiation criteria

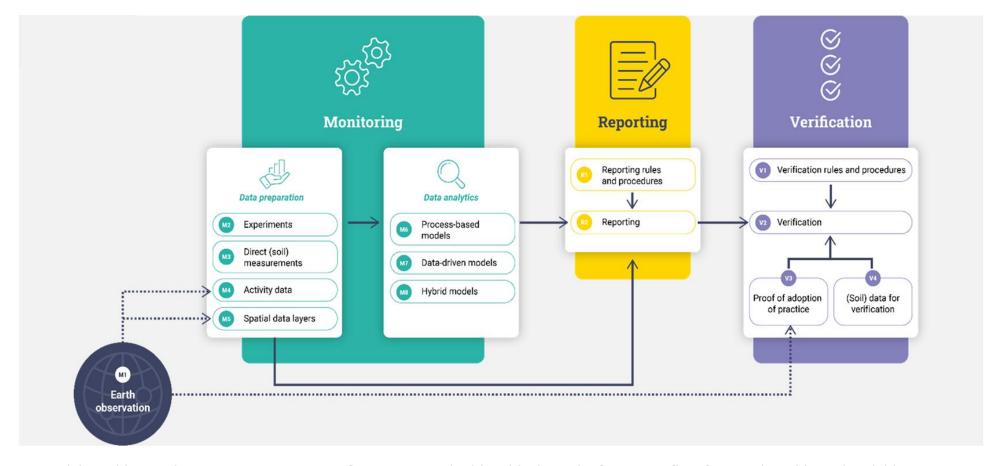


Creation and completion of our tool





1. The agreed definition of MRV



ORCaSa deliverable 4: Schematic representation of components, building blocks and information flow for an adaptable and scalable MRV system.





2. The criteria grid – Key questions

Topic	Key Questions	Key criteria
Scale	Which geography is the tool calibrated for?	Geographical scale
	 For which agricultural commodities/practices is the tool adapted to? 	Precise AFOLU sector
Monitoring – Input	O What are the data inputs required by the tool ?	Data input type
Monitoring - Process data	 What is the precision of the data output by the tool? *The quality of the data depends on the input data - in a model, there can be various data qualities depending on what is being examined 	IPCC Tier
Reporting	Does your tool calculate the amount of carbon stored in the soil?	Main indicators - tCO2e stored
	 Does your tool propose a scenario analysis? 	Proposed action plan
	o Can the MRV tool be used to meet requirement for carbon credit certification schemes?	Carbon credit
Verification	 Does the verification phase/step rely on adoption of practices (earth observation) or through soil sampling verification? 	Verification
Business model and other	O Does the use of the tool include a cost?	Business model
	 Does the tool allow interoperability with other database/Application Program Interface /Farm System Management systems to ease the data collection phase ? 	Interoperability



Choosing a tool is the best combination of these key criteria



2. The criteria grid – Overview

General information

- ☐ Owner / Company
- ☐ Tool name
- Website
- ☐ Creation date of the tool
- ☐ Latest release of the tool
- Number of releases
- Main users
- ☐ Short description of the tool

Scope

- ☐ Geographical scale
- Sector (AFOLU, agriculture, forestry)
- □ Precise agricultural sector

Monitoring - Input

- **□** Experiments
- ☐ Direct (soil) measurements
- □ Activity data
- Spatial data layers

Monitoring - Process data

- Modelling
- ☐ Calculation methodology
- □ Transparency
- □ IPCC Tier

Reporting

- ☐ Lag time
- Main indicators: tCO2_{eq} emissions/reduction , tCO2_{éq} stored, OM amount
- Other indicators: Spatial resolution, frequency, temporality; GHG included
- ☐ Uncertainty measurement
- ☐ Scenario analysis: + reference scenario type
- □ On-field advisory
- ☐ Carbon credit: standard and methodology

Verification

- ☐ Verification rules and procedures
- ☐ Proof of adoption practice— Earth observation
- ☐ Direct (soil) measurement for verification

Business model of the tool

- ☐ Fees/Free
- ☐ Business model (if fees)

Other

- ☐ Interoperability
- ☐ Device accessibility and availability
- ☐ Support and easiness of use

<u>Key</u>

Criteria related to the monitoring pillar
Criteria related to the reporting pillar



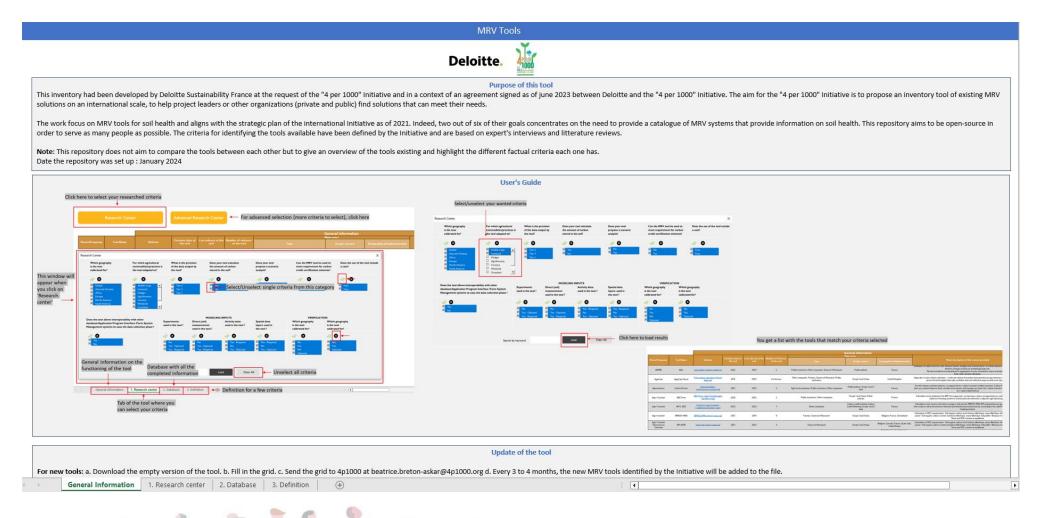
Criteria related to the verification pillar

Criteria related to general elements





2. The criteria grid – Tool demonstration







3. The governance

The MRV solution inventory will be updated every quarter.

Three methods are available to editors to proceed to this update:

For new MRV tools:

- Editors will have the option to download the blank version of the tool, fill in the grid, and then submit it to 4per1000
- New MRV tools will be added every 3 to 4 months

For already referenced MRV tools:

- Editors will have the possibility to update information by downloading the blank version of the tool, adjusting the previously provided information, and submitting it to 4per1000
- Updated information will be incorporated every 3 to 4 months

For MRV tools to be removed from the inventory:

Contact 4per1000 to request their deletion









To the interviewees for sharing their knowledge



Y

To the tool providers for providing information and making it accessible to all



To "4 per 1000" for the opportunity to develop this inventory



To Deloitte Sustainability France for their pro bono work



To Deloitte Foundation for funding the work



To every other contributor for your participation









THANKYOU



