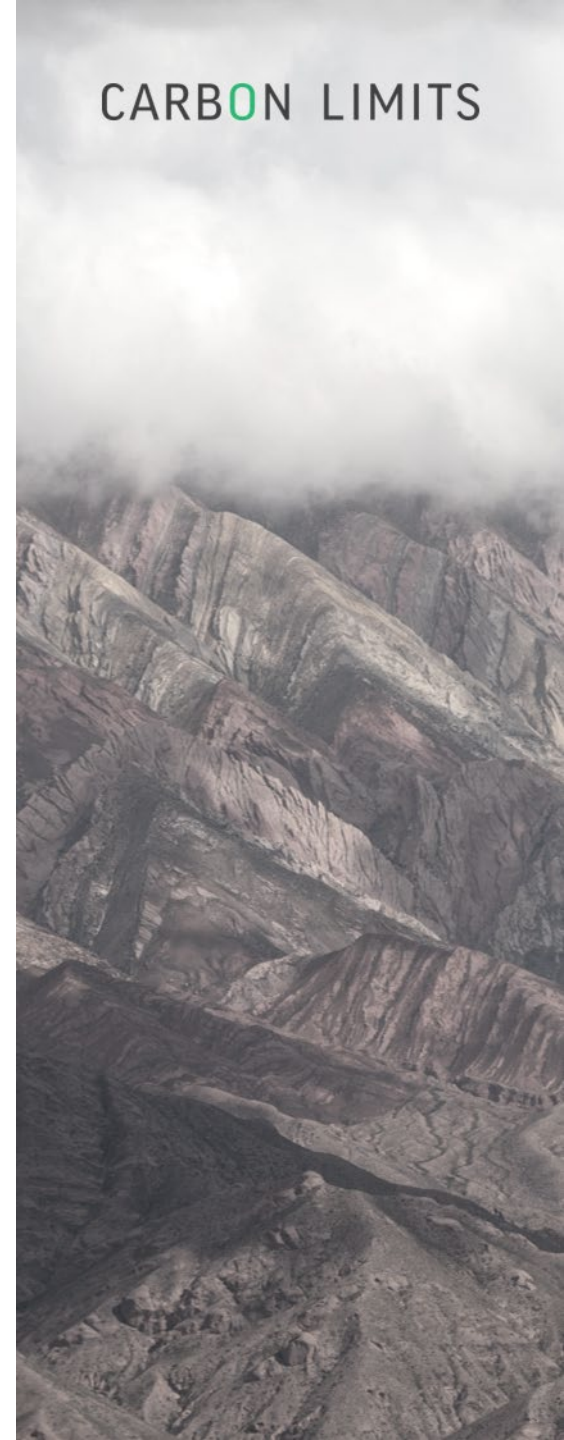# Mist – What is it?

A step-by-step methane inventory and abatement tool

Targeted for the oil and gas sector

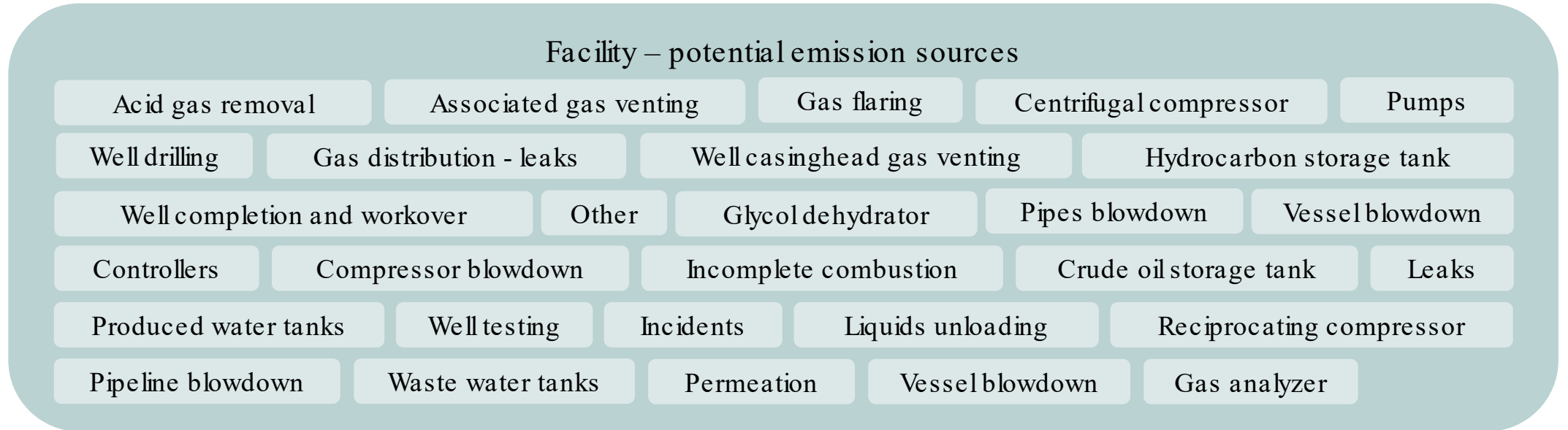Key objective – Understand where your emissions are coming from to be able to address them

What does Mist do?

Facility – potential emission sources

Acid gas removal	Associated gas venting	Gas flaring	Centrifugal compressor	Pumps
Well drilling	Gas distribution - leaks	Well casinghead gas venting		Hydrocarbon storage tank
Well completion and workover	Other	Glycol dehydrator	Pipes blowdown	Vessel blowdown
Controllers	Compressor blowdown	Incomplete combustion	Crude oil storage tank	Leaks
Produced water tanks	Well testing	Incidents	Liquids unloading	Reciprocating compressor
Pipeline blowdown	Waste water tanks	Permeation	Vessel blowdown	Gas analyzer

Emissions

Data quality

Abatement potential

Abatement cost
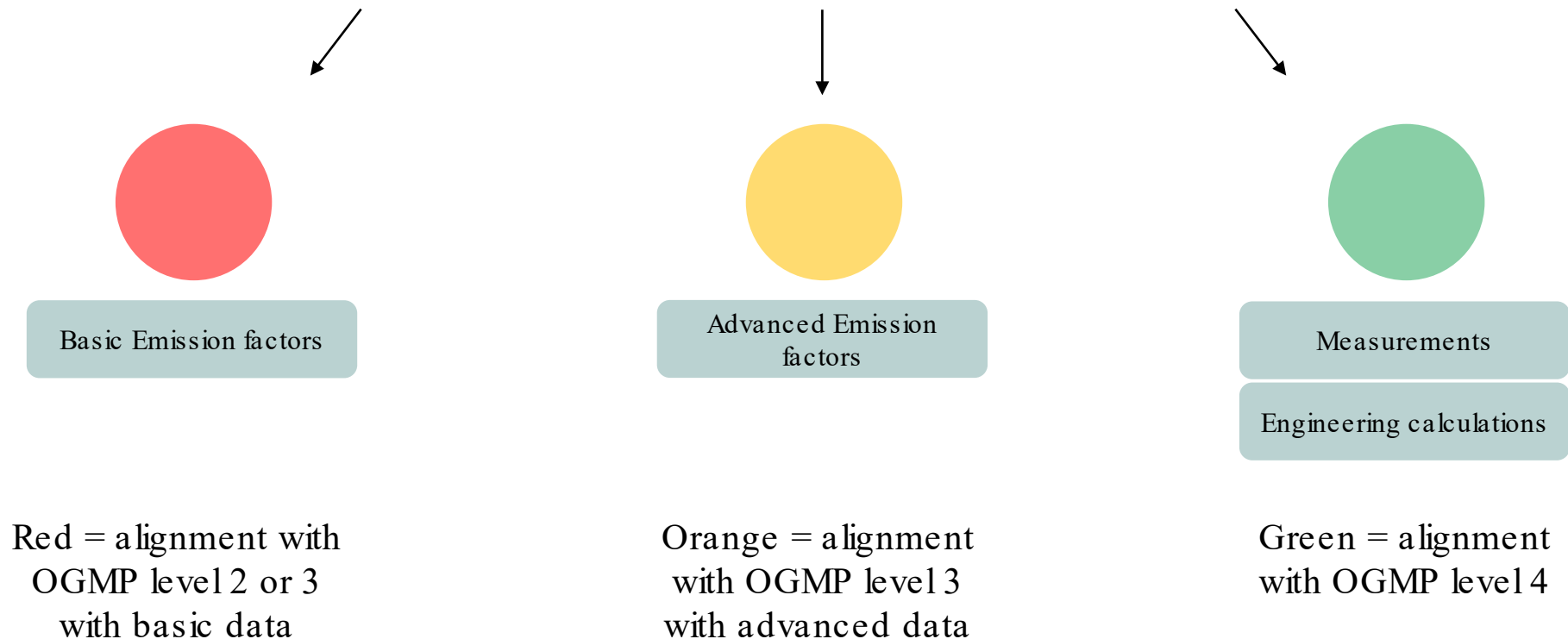
Different levels of data inputs and data quality

Aligned with OGMP 2.0

Mist provides three levels of data quality

| Basic Emission factors | Advanced Emission factors | Measurements |
| | | Engineering calculations |

Red = alignment with OGMP level 2 or 3 with basic data

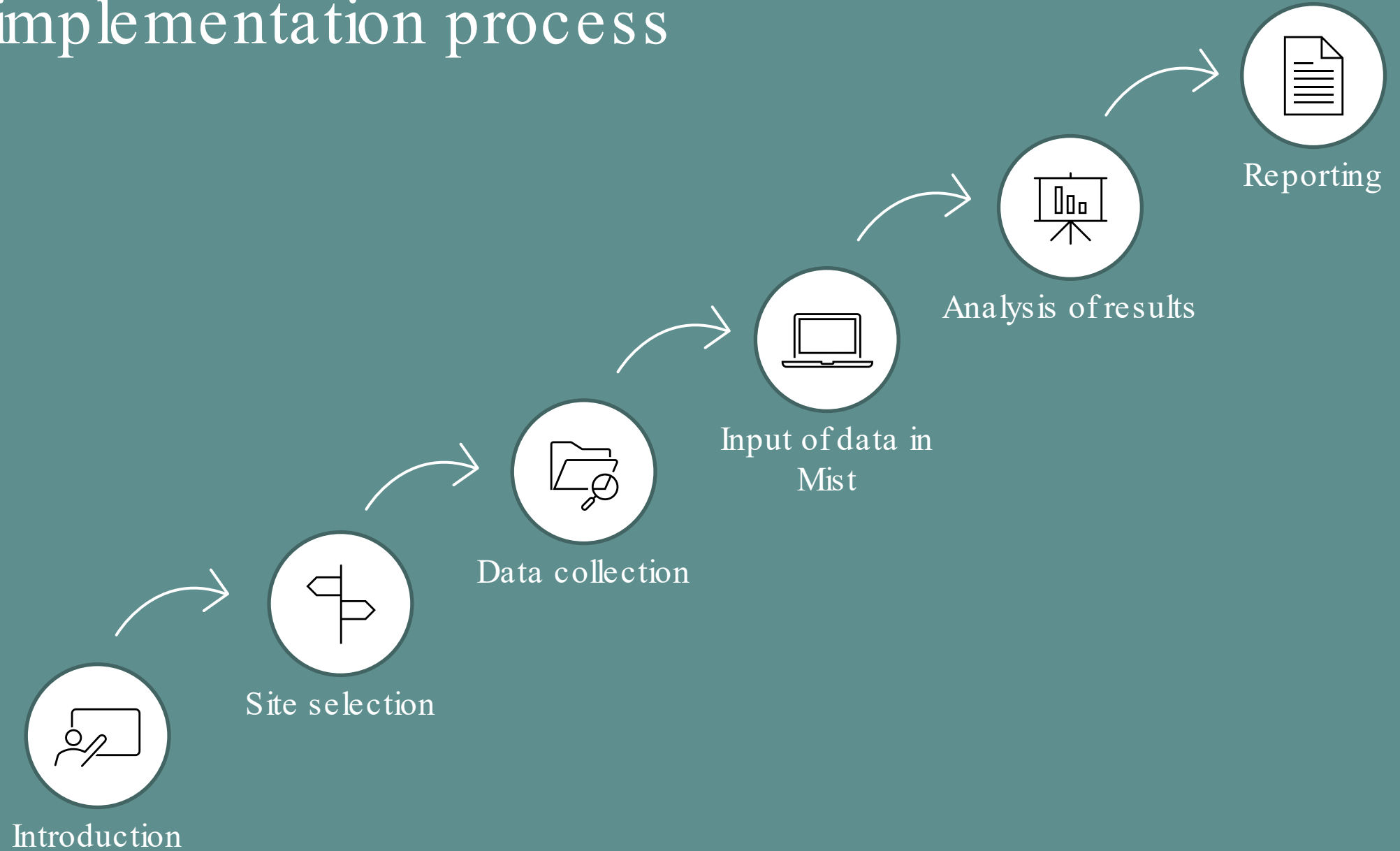Orange = alignment with OGMP level 3 with advanced data

Green = alignment with OGMP level 4

Data quality is provided at emissions level and aggregated at facility and company level

Mist implementation process

Introduction

Site selection

Data collection

Input of data in
Mist

Analysis of results

Reporting

Case study Iraq: Key results

15	4	15	54%
Days for building inventory	Oil production facilities	Emission source categories	Abatable emissions in target year

"Mist helped us understand sources of emissions in our oil and gas facilities, possible mitigation options to implement, and the economic benefits of the abatement projects."

Operations manager

Iraq - Midland Oil Co.

وزارة النفط
MINISISTRY OF OIL

Read case study

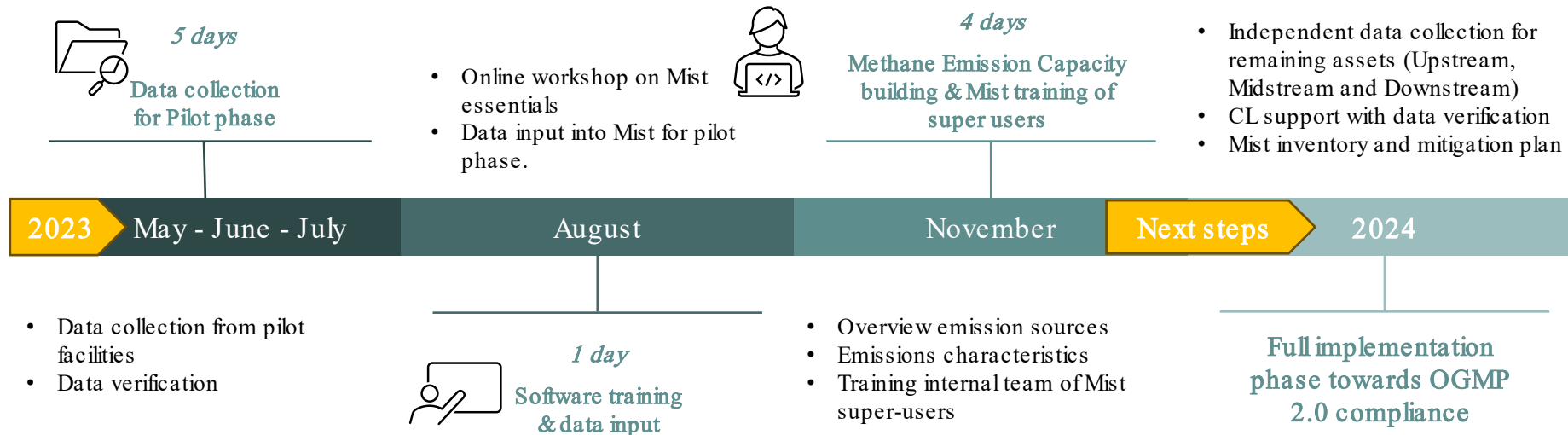## Looking forward with Mist...

Following a successful training and deployment with Midland, the Ministry has initiated independent deployment of Mist within additional oil companies, with the objective of covering all upstream operations in Iraq.
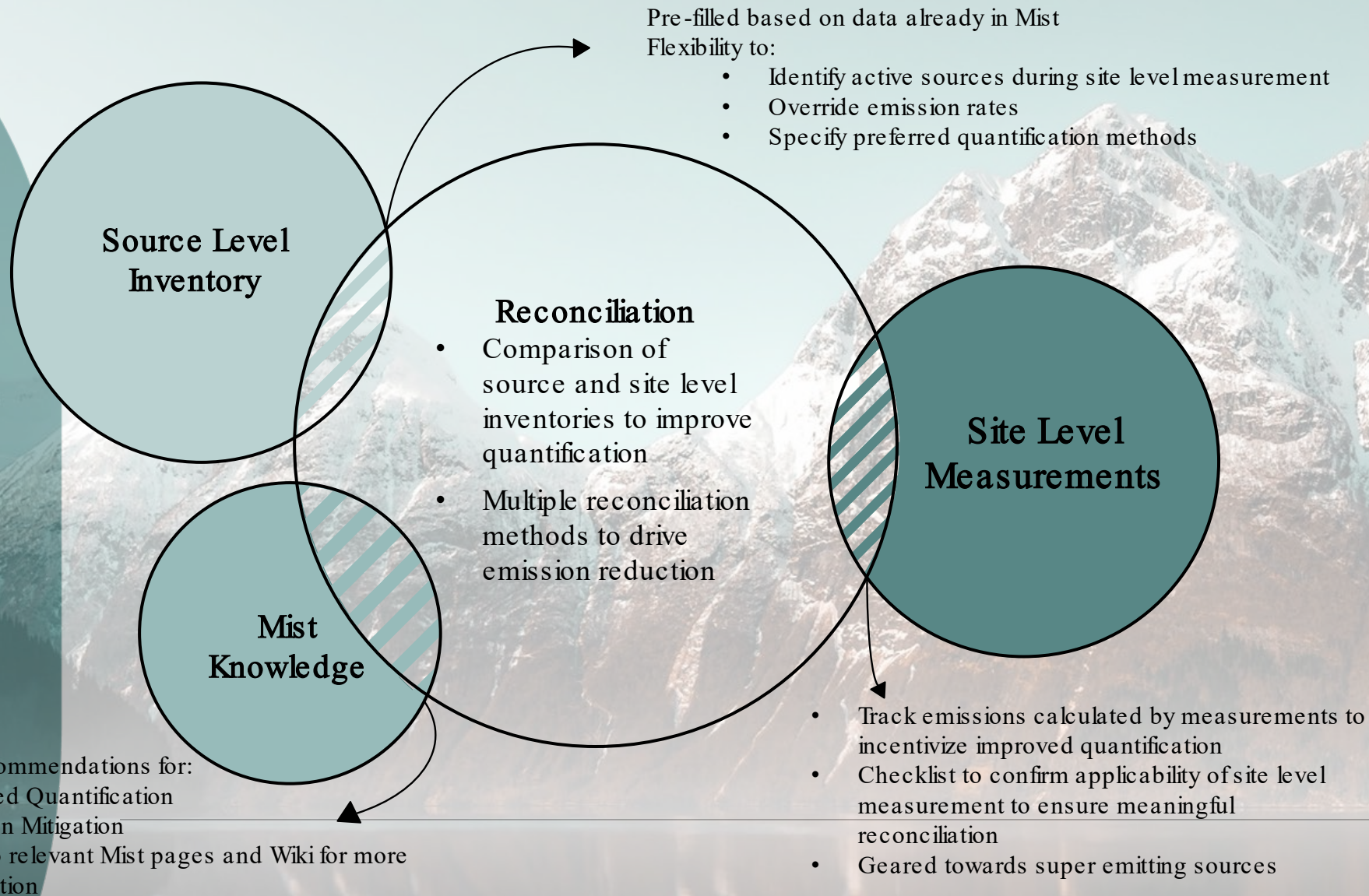
Case study: EP Petroecuador

Training and deployment process

The training and deployment process: Pilot Phase

5 days

Data collection
for Pilot phase

- Online workshop on Mist essentials
- Data input into Mist for pilot phase.

4 days

Methane Emission Capacity building & Mist training of super users

- Independent data collection for remaining assets (Upstream, Midstream and Downstream)
- CL support with data verification
- Mist inventory and mitigation plan

| 2023 | May - June - July | August | November | Next steps | 2024 |

- Data collection from pilot facilities
- Data verification

1 day

Software training
& data input

- Overview emission sources
- Emissions characteristics
- Training internal team of Mist super-users

Full implementation
phase towards OGMP
2.0 compliance

Mist

Coming Soon…

Mist Reconciliation Module

Pre-filled based on data already in Mist
Flexibility to:
- Identify active sources during site level measurement
- Override emission rates
- Specify preferred quantification methods

Source Level Inventory

Reconciliation
- Comparison of source and site level inventories to improve quantification
- Multiple reconciliation methods to drive emission reduction

Site Level Measurements

Mist Knowledge

Provide recommendations for:
- Improved Quantification
- Emission Mitigation
- Links to relevant Mist pages and Wiki for more information

- Track emissions calculated by measurements to incentivize improved quantification
- Checklist to confirm applicability of site level measurement to ensure meaningful reconciliation
- Geared towards super emitting sources

Mist is a powerful tool to understand the issue and start acting on it

Contact us for a demo
mist@carbonlimits.no

or scan the QR code below

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