



COPA – Steps towards LRM

9th Oct. 2025, SADC Meeting BOTSWANA, Igobe Mbulawa, NOU & COPA SC

CONTENT OVERVIEW

1. Introduction to COPA
2. Steps towards a sustainable LRM
3. Available COPA Resources:
 - Guidelines, Templates and Publications
 - National Inventory and Baseline (Methodology, Report, Session)
 - GAP Analysis (Template)
 - COPA support & Member Country experiences:
 - Namibia: Status Quo Analysis, Financing Strategy input for National Cooling Strategy
 - Malawi: Status Quo Analysis, GAP Analysis (with COPA Template)

WHO IS COPA – THE CLIMATE AND OZONE PROTECTION ALLIANCE

- **Initiated 2021 by the German Federal Ministry of Economic Affairs and Climate Action** to pave the way for an enhanced environmental stewardship of ODS and HFCs
- **Today a member-driven coalition** of organizations and countries working together, guided by an **elected Steering Committee** and supported by a **Secretariat**
- Driving and accelerating the **holistic solutions needed to reduce ODS and HFC banks** globally

Vision:

A global shift to sustainable refrigerant management & thereby closing the loop to a circular economy in the cooling sector

Implemented by:



In cooperation with:



Supported by:



on the basis of a decision
by the German Bundestag

COPA STEERING COMMITTEE & CONTACT

COPA Steering Committee (2025 – 2027)

PUBLIC SECTOR	PRIVATE SECTOR			COUNTRIES
				
Rachel Pekker BMW, Germany	Adrian Bukmanis Veridien RM, Australia	Samuel Jacobs Energy Partners Refrigeration, South Africa	Leslie Smith Grenada	Igobe Gobsie Mbulawa Botswana

Website: <https://www.copalliance.org>

COPA Secretariat (GIZ, UNDP & UNIDO): contact@copalliance.org

COPA TODAY – OCTOBER 2025

- **Partner countries and members** across private and public sectors, civil society, academia, countries and financing institutions work together.
- The second **Steering Committee** elected for 2 years (2025-2027), representing the members
- Driving forward holistic solutions for **sustainable refrigerant management** of ODS and HFC
- **81 members** in total, of which **26 countries** (Sep 2025)
- **Membership is free of cost**; members actively contribute through working groups, exchanges and voluntary efforts.
- **COPA Provide:** Exchange, networking, publications, technical guidelines, online courses, research, pilots, project development support, financing solutions, ...



**Policy
Framework**



**Technology
Solutions**



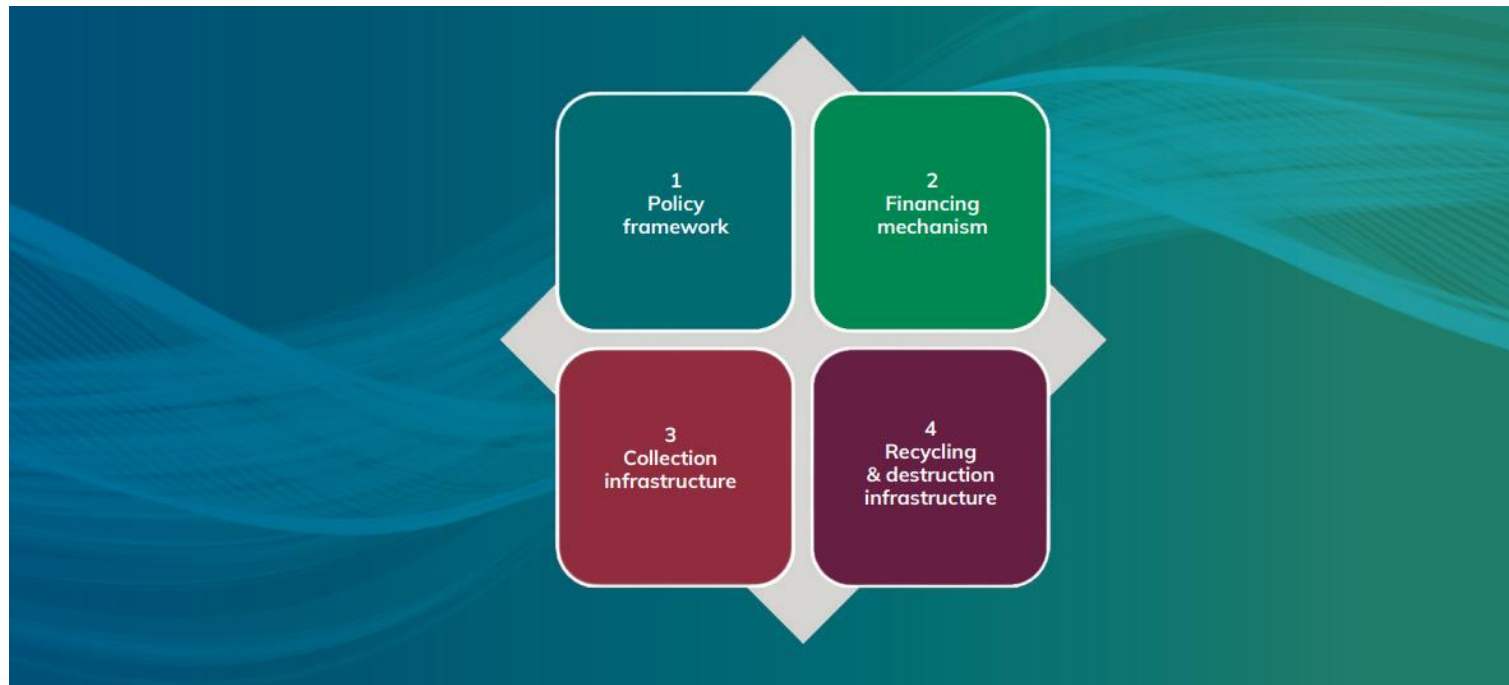
**Financing
Mechanism**



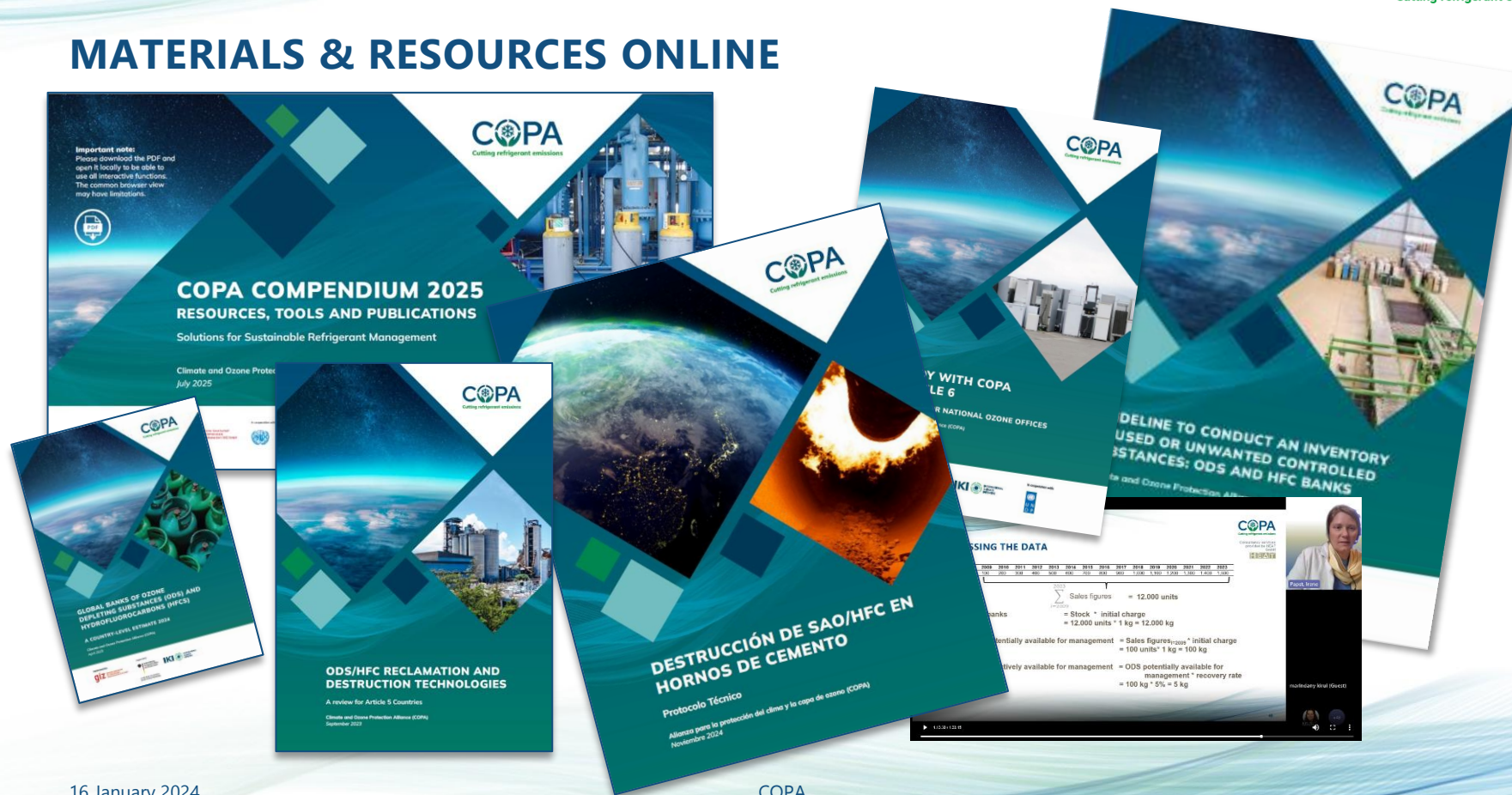
**Implementation
Models**

STEPS TOWARDS A SUSTAINABLE LIFECYCLE REFRIGERANT MANAGEMENT (LRM)

4 CORE PROCESSES OF LRM & ODS/HFC BANKS MANAGEMENT



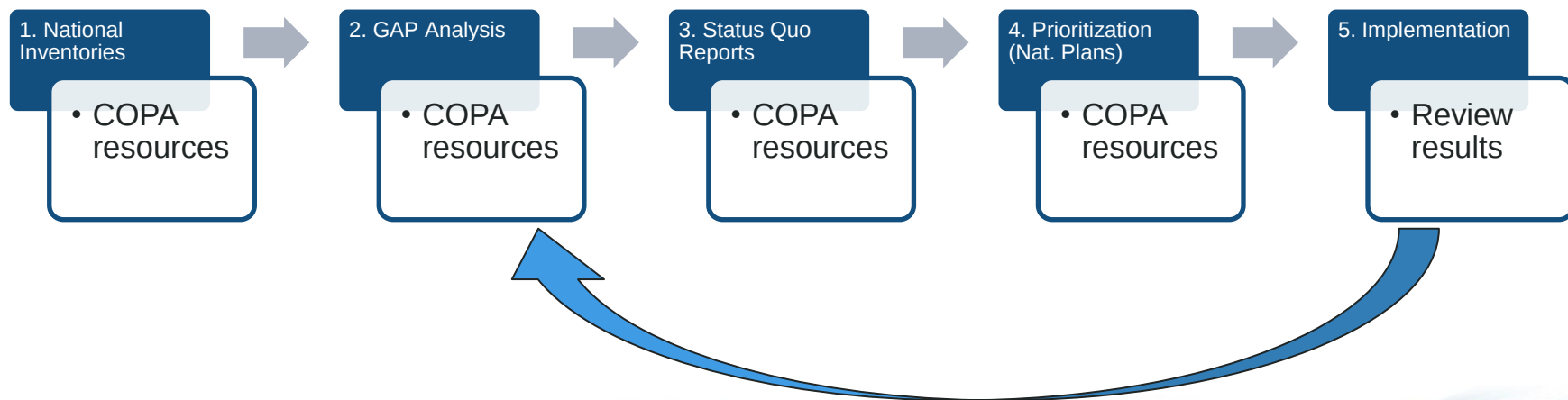
MATERIALS & RESOURCES ONLINE



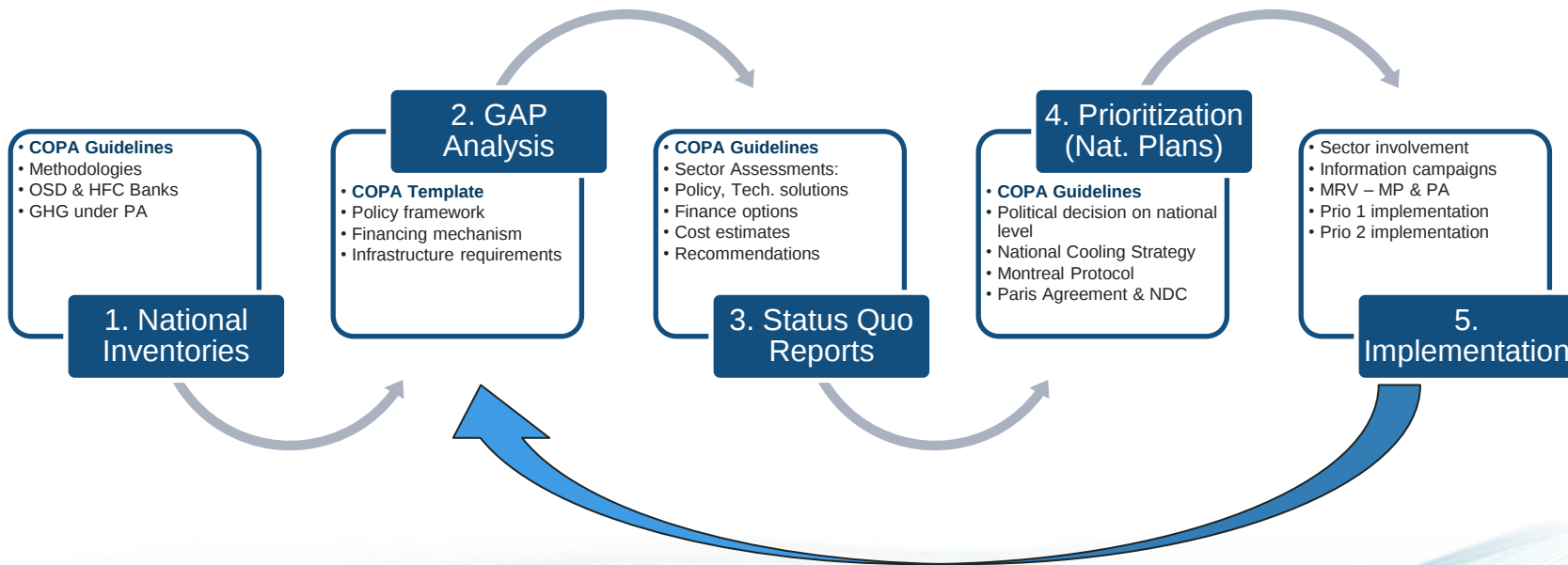
STEPS TOWARDS A SUSTAINABLE LRM



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COPA – MATERIALS & RESOURCES ONLINE

- **COPA Guideline – ODS/HFC banks Inventory**
To conduct an inventory of used or unwanted controlled substances: ODS and HFC banks
- **Webinar ODS/HFC banks Inventory with Q&A recorded**
available in news section
- **COPA study on Policy Framework**
promoting sustainable ODS/HFC management
- **COPA study on Technology**
ODS/HFC Reclamation and Destruction Technologies



COPA RESOURCES ONLINE

Publications:

- [Get ready with COPA for Article 6, a 5-step guide for national ozone offices](#)
- Online course: ["Cooling Carbon Markets" \(English, French and Spanish\)](#)
- ["COPA Financing and Fundraising Mechanism: A Review and Concept"](#)
- ["Using carbon markets to reduce emissions from end-of-life refrigerants and foam blowing agents" \(Study + excel template\)](#)

Session slides (ppt slides as pdf-files):

- [Cooling as a Service business case in South Africa](#), ppt-slides from Samuel Jacobs, Energy Partners
- [Introduction and Fundamentals](#) to Beyond Value Chain Mitigation (BVCM) by Adrian Bukmanis
- [Beyond Value Chain Mitigation](#) by Juliette de Granpré, New Climate Institute

Online sessions – video recordings:

- [Get ready for finance - Financing for project development](#)
- [ODS & HFC Projects Eligibility under Article 6](#)
- [Session: Carbon Credits introduction](#)
- [PPP for WEEE in Togo - CCAC 2025 Workshop on Lifecycle Refrigerant Management \(LRM\)](#) in Bangkok 6 July 2025



ODS AND HFC BANKS MANAGEMENT

Many countries are facing major challenges in ...



NAMIBIA

COPA Support:

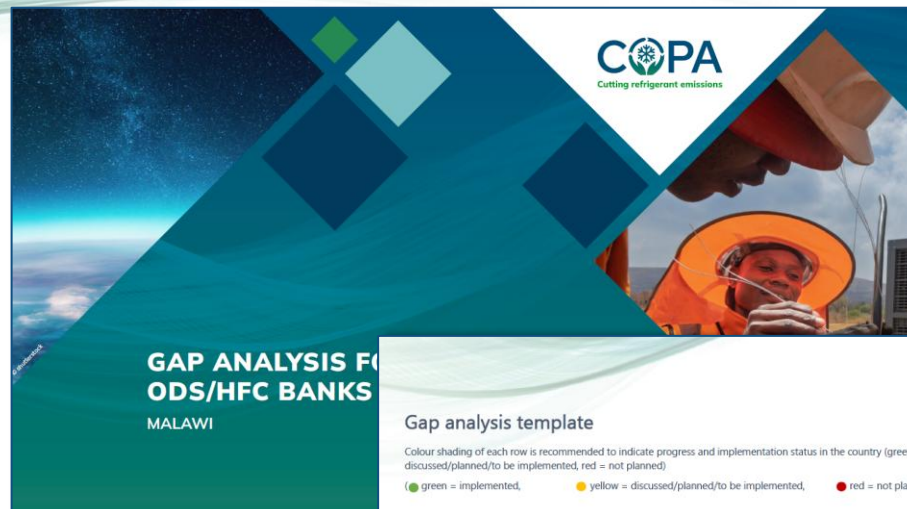
- Status Quo Analysis
- Financing estimates for activities towards the National Cooling Strategy
- Acquisition of refrigerant recovery equipment and tools for the **HVAC Namibia - Association of Heat, Ventilation, and Cooling (Namibia)** to help promote and accelerate the refrigerant recovery activities in the country



MALAWI

COPA Support:

- Status Quo Analysis
- COPA GAP Analysis



Gap analysis template

Colour shading of each row is recommended to indicate progress and implementation status in the country (green = implemented, yellow = discussed/planned/to be implemented, red = not planned)
(● green = implemented, ● yellow = discussed/planned/to be implemented, ● red = not planned)

1.1 Functioning policy framework

Status Quo	Recommendations	
ODS and HFC venting prohibited through law or regulation Only ODS venting is prohibited under Regulation 13 of Malawi's Environment Management (Management of ODS Regulations). The ODS Regulation 13 state that an Air conditioner or refrigerator technician shall not vent out any refrigerant that is an ODS when installing, serving, maintaining or repairing the equipment.	Revise the regulations to include prohibition of venting HCFs	●
Regulation about ODS or/and HFC management during the lifetime of equipment (proper servicing without leakage) Regulation 14 of Malawi's Environment Management (Management of ODS Regulations) states that any person who owns or is responsible for RAC equipment shall have a leak detector.	Revise the regulations to include HFCs; Intensify periodic monitoring of the implementation of good servicing practices by servicing RAC Technicians	●
Regulation on ODS or/and HFC treatment at decommissioning of equipment (proper servicing at decommissioning without leakage) This is not provided in the regulations	Revise the regulations to make provisions on treatment at decommissioning of ODS/HFC containing equipment.	●
Mandatory certification of RAC technicians The ODS regulations has not clearly stated the provision of mandatory certification of RAC technicians. However, The NOU in collaboration with the Technical Entrepreneurial and Vocational Education and Training Authority (TEVETA) is planning to commence this certification process.	Revise the regulations to clearly state the need for mandatory certification of RAC Technicians.	●

POLICY & REGULATORY SUPPORT FOR LRM

- **Quota on HFC import and production:** quotas increase the price of virgin materials, motivate to recycling
- **Develop and enforce Technical Standards;** e.g. Energy Efficiency Label for AC and refrigerators, technical certification required for installation and maintenance of cooling systems and AC
- **Put a price on carbon** or limit the amount of emission permits (e.g. Emission Trading System)
- **„Extended Producer Responsibility“** (EPR) regulation incentivize producers to organize an efficient LRM
- **Prohibitions:** e.g. forbidding single-use gas cylinders, venting of systems, reparations with virgin materials, etc.

Policies and regulations can support and strengthen financing flows going towards LRM activities:

- ✓ By enforcing standards (EE, reusable cylinders) and EPR regulation
- ✓ Imposing quotas for import of HCFC and HFCs

COPA FINANCE RESOURCES ONLINE

Publications:

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- Online course: ["Cooling Carbon Markets" \(English, French and Spanish\)](#)
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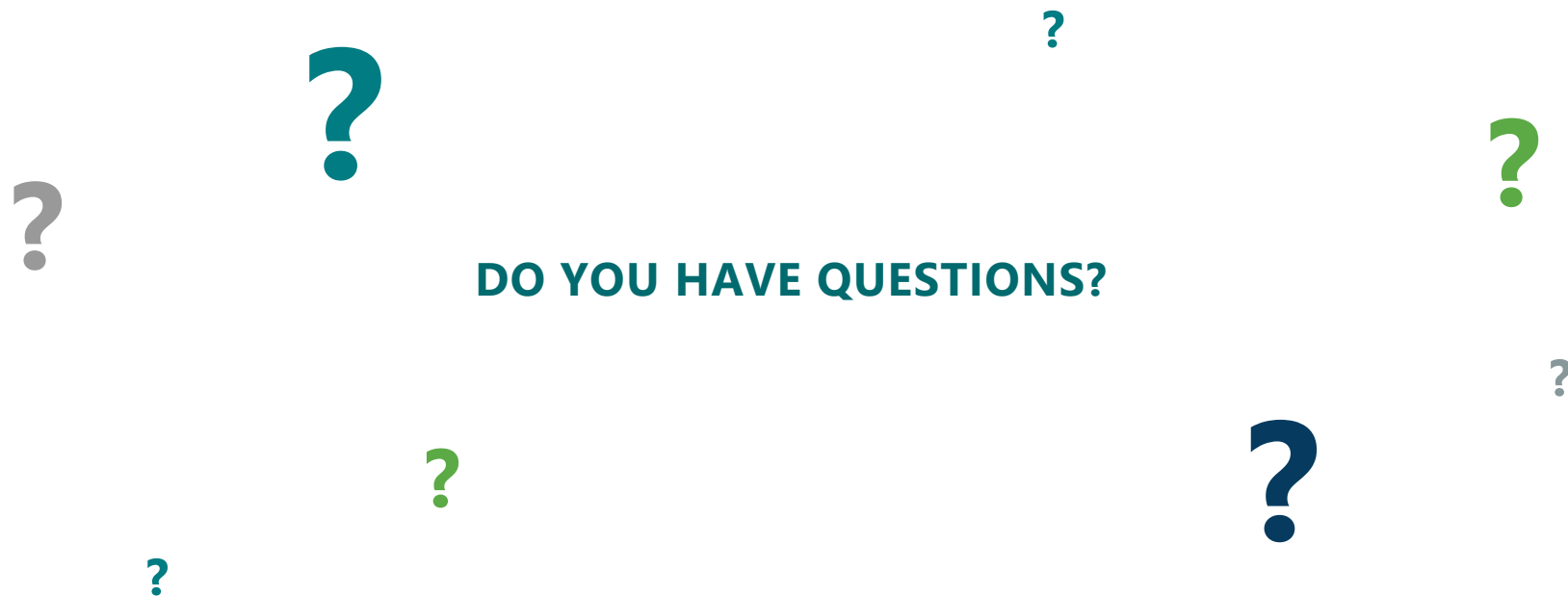
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Thank you!