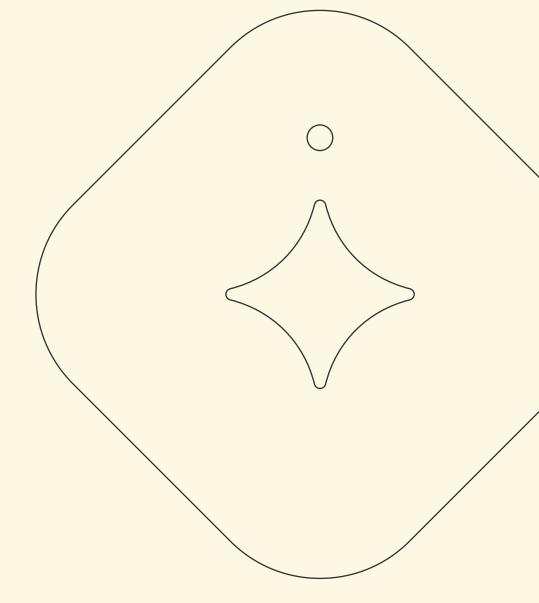
# **METHODOLOGY**

Green Corridors

Pre-Feasibility Scoping Phase









# Expected outcomes of Pre-Feasibility Scoping phase

To launch a green corridor project successfully, it is crucial to follow the initial steps of establishing a consortium and defining the project scope.

This includes defining clear project goals to create a shared understanding of the overall objectives. Once the goals are in place, roles within the consortium are assigned to ensure a structured and collaborative approach.

Concurrently, a robust project governance structure is established to effectively manage various aspects of the upcoming project (feasibility study).

The scope of work is then clearly outlined, with the flexibility to customize the approach, if necessary, thereby facilitating and streamlining the entire process.

Optionally, the formalization of consortium formation can be finalized through the issuance of a Letter of Intent (LOI), outlining the terms, conditions, and responsibilities of each party involved in the next step — the Pre-Feasibility Study.

These comprehensive steps not only establish a strong foundation but also enable the project team to seamlessly prepare for the pre-feasibility study phase.





# Methodology for Center's Pre-Feasibility phase

Kev questions Why do we want the knowledge

How do we get the knowledge

achieve

Overall sections

insights



Selection criteria and a ranking of these

Chapter

Decarbonization Vision for Area / Region

Introduction to Area /

Region & Constraints

Objectives and Project Governance

Relevant insight into:

Data, interviews and results

- Fuel
- Port & Bunkering
- · Cargo, Services, Trade Routes & Vessel
- Regulatory Landscape
- Just and equitable

Workstream





Scene is set











Data is gathered and selection criteria defined

What knowledge do we want to





Interpretation and discussion

List of recommenced corridors based on selection criteria

Estimate CO<sub>2</sub>eq emission for relevant corridors

Consortium Incubation workshop

Proposed way of moving forward into the Feasibility Phase

Final report incl. necessary Appendix



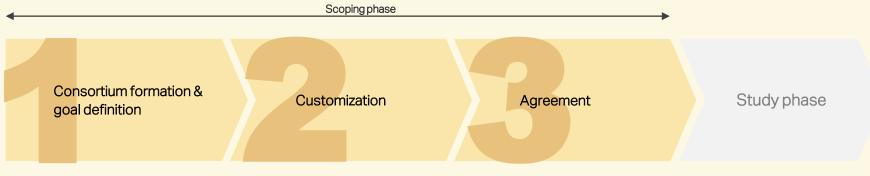


# The Pre-Feasibility Scoping phase in detail

This phase consists of three main stages. In this document, all main stages are explained step by step.

# Overview of the different Pre-Feasibility scoping stages:

Serves as a point of reference throughout the document and guides the sequencing of activities

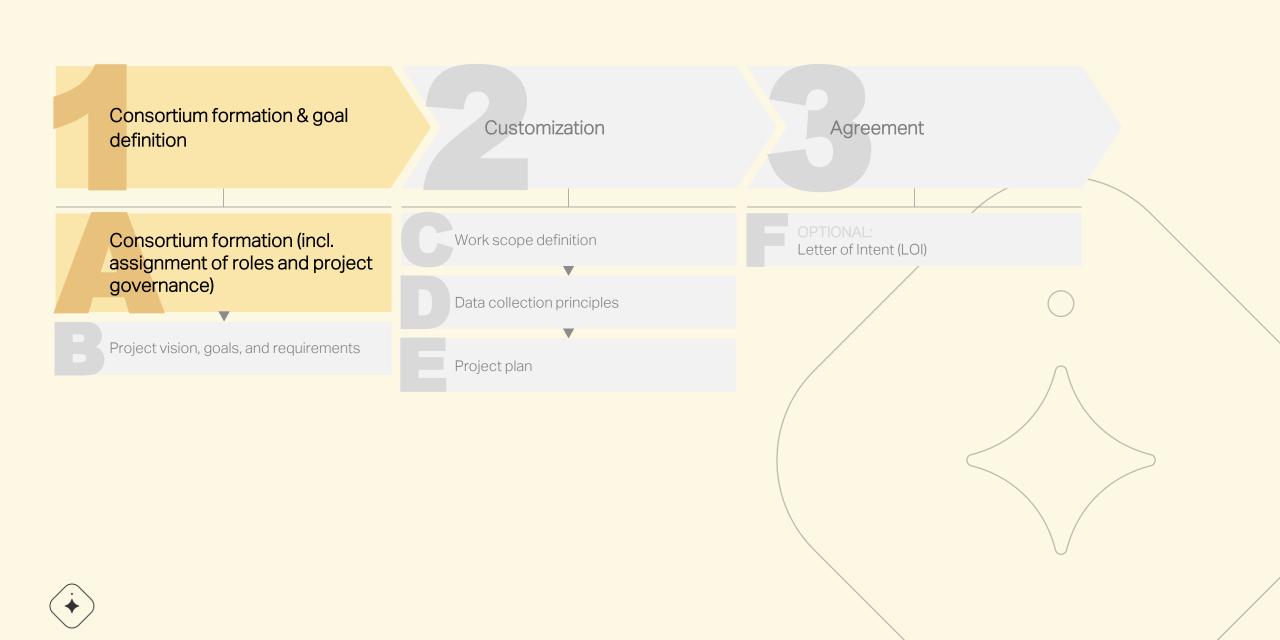


### Key activities in each of the stages and their related analyses and guidelines:

Provides an overview of the methodology and select illustrative examples







# 1A. Consortium formation (incl. assignment of roles and project governance)

### Purpose



- Form a **project team** (**=consortium**) to drive the upcoming Pre-Feasibility Study.
- Identify and engage potential consortium members, and align on their roles, level of involvement and overarching project governance.
- Instill accountability for the workstreams when conducting the Pre-Feasibility Study.

### Key questions



- Who are the critical stakeholders who can ensure that the work during the pre-feasibility study is conducted and how will they work together?
- Where are the gaps in the consortium and which stakeholder might be able to close these gaps?

### Importance



- Forming a consortium benefits a Pre-Feasibility Study immensely, as it secures the resources and expertise required to drive the Pre-Feasibility Study.
- Clarifying and agreeing on roles and project governance is necessary to ensure a smooth execution of the Pre-Feasibility Study.



## The consortium formation

# Core consortium identified



Agreement on roles



Consortium
Gap Analysis



Final consortium



Letter of Intent (optional)

# Create an initial core team for the project.

This typically includes a smaller subset of stakeholders from the Value Chain and/or public decision makers and stakeholders.

Agree on roles for consortium members (Workstream Lead, Workstream Support, Sounding Board) for the upcoming Pre-Feasibility Study phase based on their commitment level, interest and expertise.

Identify workstream gaps (if any) in the consortium using the role assignment template.

Select additional potential consortium members in a step-wise process based on commitment level, interest and expertise, and align with the core team on the selection of additional consortium members.

Finalize consortium committed to moving into Pre-Feasibility Study phase.



Continuously adjust consortium as more insights are generated and goals & narrative evolve (the core consortium can already start with activities in the Scoping Phase before the consortium has been finalized).

Adjustment ends when there are no more gaps identified.



# Suggested roles of consortium stakeholders in Study phase

Role		Responsibilities	Resources required (hours) <sup>1</sup>
	Project lead (Workstream 1)	<ul> <li>Lead, plan, and coordinate the project</li> <li>Provide guidance on processes/frameworks/methods/templates to ensure consistency and quality across workstreams</li> </ul>	200-500
ŤŮŮ	Workstream Lead for Workstreams 2-5	<ul> <li>Take responsibility for a workstream, including coordination of workstream resources and activities</li> <li>Liaise with Project Lead to align on deliverables and define the desired outcomes</li> <li>Lead and oversee the workstream analysis with respective workstream members in accordance with defined scope, processes, and methods</li> <li>Gather, share, and analyze valuable information and data to assess the technical and regulatory feasibility, costs, socioeconomic opportunities, and risks, and summarize results in a report</li> </ul>	100-300
7°°	Workstream Lead for Workstream 6	<ul> <li>Leverage findings from the Pre-Feasibility Study and collect input from Workstreams 2-5 to generate a first suite of recommended green corridors</li> <li>Drive the corridor selection process with a holistic view of the ecosystem without commercial interest into the development area</li> </ul>	100-300
Th'	Workstream Lead for Workstream 7	<ul> <li>Liaise with Project Lead to drive the 1st Suite of corridors to the Consortium Incubation Workshop, and make a shorter list of 1st wave corridors.</li> <li>Consolidate findings from the Pre-Feasibility assessment into a final report</li> <li>Propose a way forward to move the 1st Wave corridors into the next phase</li> </ul>	100-300
	Workstream Support (Optional)	<ul> <li>Support the Workstream Leads in gathering and analyzing valuable information and data in their respective workstreams, and in summarizing results in a report</li> <li>Align with the Workstream Lead on required analyses and desired outcomes</li> </ul>	50-100
in in its angle in the interest of the interes	Sounding Board (optional)	Provide feedback and input throughout the project	10-30



1. For the entire pre-feasibility study

# Suggested roles of consortium stakeholders

- The workstream lead of Workstream 1:
  - o is automatically the overall project lead
  - o is often the lead of Workstream 7
- The resources (hours) required may vary depending on the scope of work
- Examples of potential stakeholders:
  - o Governmental institutions (e.g. ministries)
  - o Non-profit organizations (e.g. environmental advocacy groups or port workers unions / seafarer unions)
  - o Fuel producers
  - o Trading companies
  - o Port and bunkering operators
  - o Shipowners and operators
  - Logistics companies
  - o Cargo owners
  - o Investors
  - o Consulting services companies
- Use the role assignment template to indicate all stakeholders (and their contact details) across the workstreams

### Thoughts:

- The need for Workstream support is decided upon by the Workstreams Leads
- representative from an environmental or social NGO to provide a perspective without a commercial interest where possible
- Suggestion is to include at least one regional representative where relevant



# Template: Role assignment

		2	3	4	5	6		7
Workstreams	Introduction, vision and project setup	Alternative fuels	Port, storage, and bunkering infrastructure	Trade routes, vessels, cargo and services	Policy, regulation, Just & equitable	Selecting 1 <sup>st</sup> Suite of corridors		Generating 1 <sup>st</sup> Wave corridors and issuing final report
Stakeholders	All stakeholders	Fuel producers	Port and bunkering operators	Shipowners and operators	All stakeholders, incl. regulators	All stakeholders	<b>-</b> (→	All stakeholders
Workstream Lead	[Firstname Last nam [E-mail] [Company logo]	ne]						
Workstream Support	[Firstname Last nan [E-mail] [Company logo]	ne]	Add all inv	olved stakehol	ders' details here	9		
Sounding Board	[Firstname Last nam [E-mail] [Company logo]	ne]						



# Example role assignment: AU-NZ project includes 16 project members





Introduction, vision and project setup

Stakeholders All stakeholders



Alternative fuels



Fuel producers



Port, storage, and bunkering infrastructure

Port and bunkering operators



Trade routes. vessels, cargo and services

Shipowners and operators



Policy, regulation, justice and equitability

All stakeholders. incl. regulators



Selecting 1st Suite of corridors

All stakeholders



Generating 1st Wave corridors and issuing final report

All stakeholders

Workstream Lead

Workstreams



















Workstream Support































Sounding Board



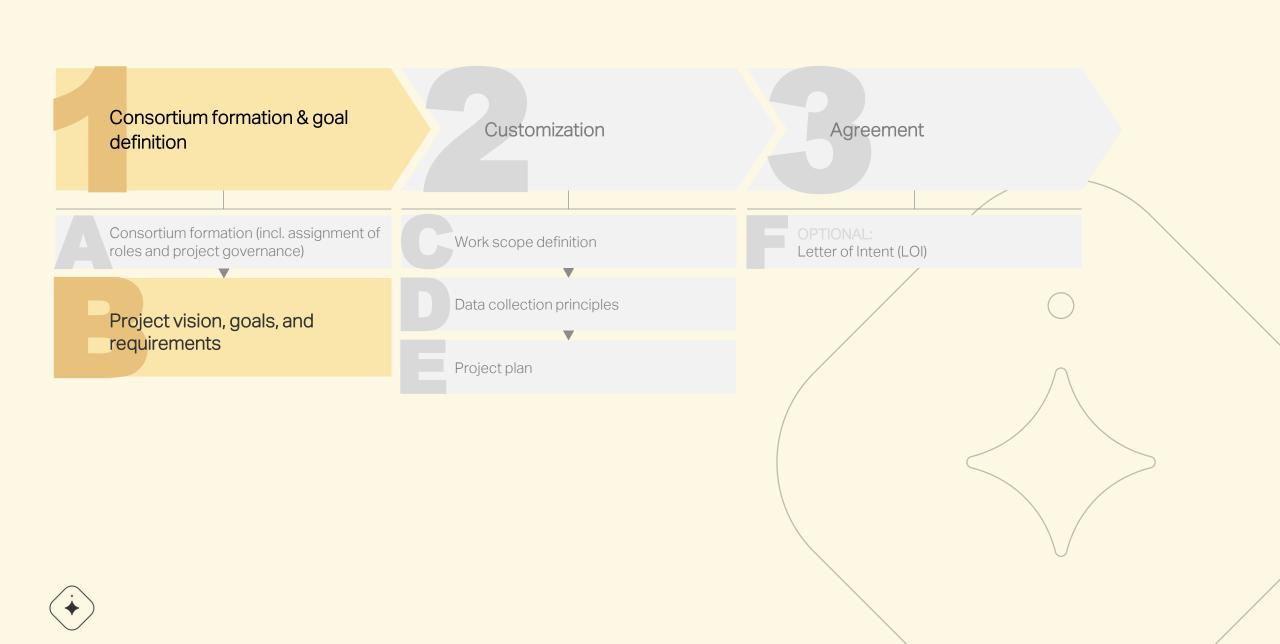












# 1B. Project vision, goals and requirements

### Purpose



- Provide a sense of direction to the project team and create a shared understanding of what the project aims to achieve in the Pre-Feasibility phase.
- Serve as a basis for measuring progress and evaluating the success of the project.
- Describe the project's vision, goals requirements and narrative in detail to identify the desired target.
- Offer input and guidance for the entire Pre-Feasibility project.

### Key questions



- What are the vision, goals and requirements for the upcoming pre-feasibility study of the specific corridors?
- Which are the important focus areas for the upcoming phases?
- What are the desired outcomes?
- Which results are key to proceeding to the next step?
- How do green corridors support the areas' overall social, ecological or economical goals and ambitions described in the vision?

### Importance

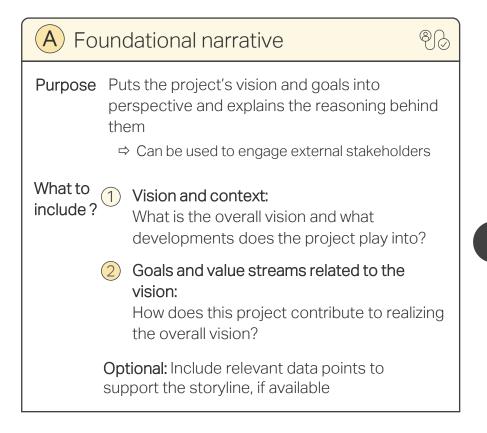


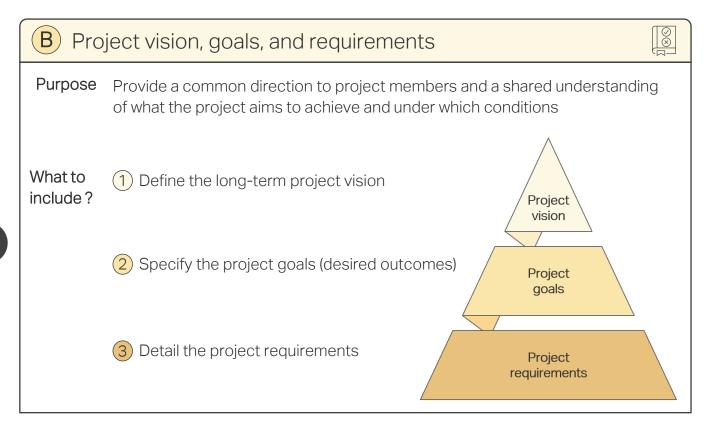
- Establishment of a **clear** project vision, goals, and requirements for the Pre-Feasibility Study that will guide the formation of the consortium based on **agreed-upon goals and vision**.
- Development of a narrative garners support from consortium members as well as senior decision makers.
- Ensures the alignment of stakeholders on the project's objectives. This alignment is vital for the success of green corridor projects.



## Project vision, goals, and requirements

Each project requires a foundational narrative to be developed and synthesized into a project vision, specific goals, and project requirements





- » To be **detailed further** in an **iterative process** throughout the Scoping Phase
- » Link the implementation of green corridors to specific, overall social, ecological or economic objectives of the region (e.g. UN Global Compact, sustainability goals, climate action)



# Example of a foundational narrative (Part A) – Chile



Vision and context

What is the overall vision and what recent developments does the project play into?

"Chile is one of the regions, which is **expected to be a global leader of renewable energy** for the remainder of this century. As a natural consequence, ministries and authorities in Chile, as well as international private companies are evaluating and exploring the **options for production of green hydrogen and alternative fuels in the country**, aiming at decarbonizing domestic maritime transportation and international trade by 2050. In 2021, Chile introduced a strategy for a Just Transition in the energy sector."

Goals and value streams related to the vision

How does this project contribute to realizing the overall vision?

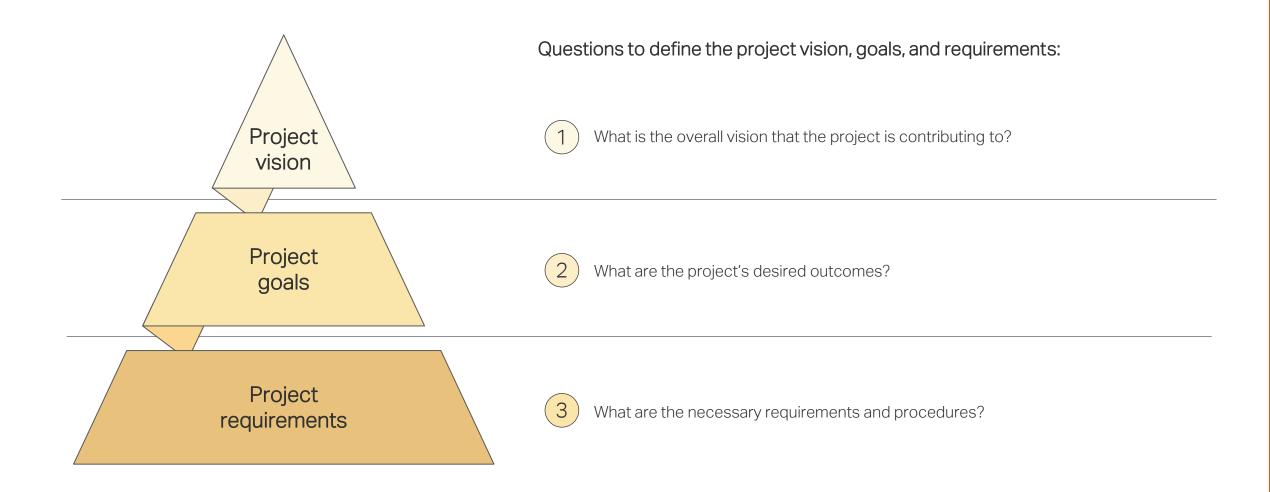
"The goal is to **identify a suite of possible green corridors** (domestic and international) which can operate on alternative fuel in this decade through focused action by a group of organizations related to the entire Zero Emission Shipping Value Chain (ZESVC)."

"Chilean energy projects are amongst the most developed in the world with a primary focus on production of green ammonia. Generally, up to 12 million tonnes of fuel are under development, out of which 40% is believed to be made available for maritime transportation. Furthermore, Chile has **two critical elements related to its geographic nature**, when it comes to the decarbonization of shipping (the propulsion of vessels and all of the supporting infrastructure): (1) The spatial orientation of the country means that **95%** of all international transport in Chile occurs by water, and (2) enormous solar and wind capacity is substantially exceeding the need of the population."

"At present, the predominant fuel for production (planned for in this decade) is **green ammonia**, with minor amounts of green methanol and green kerosene (diesel). An **anticipated sectoral competition is expected at a short time frame** of 10 years, but at a longer perspective the production capacity of alternative green fuels significantly outperforms the domestic use, and hence export of fuel / energy is being considered as well."



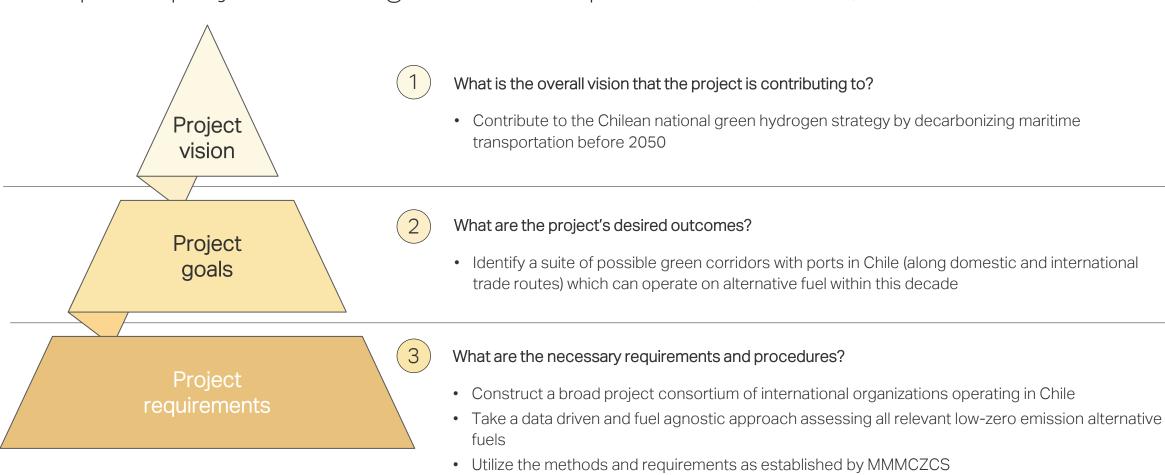
# Template – Part B: Project vision, goals, and requirements





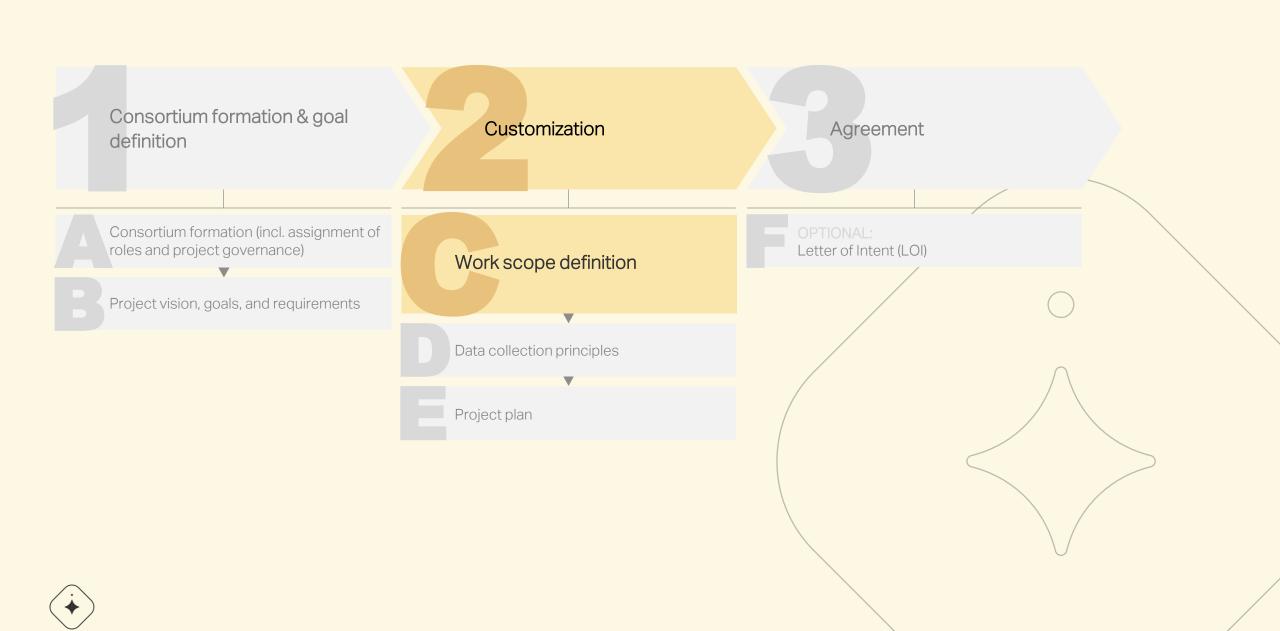
# Ctanple.

# Example of project vision, goals, and requirements (Part B) - Chile





- Identify 2-4 corridors which should be considered for Feasibility Assessment in 2023
- Deliver key results and findings from project before end of 2022
- Develop the entire project based on non-confidential data
- MMMCZCS to lead project project members to support



# 2C. Work scope definition

### Purpose



- The work scope definition is a customized version of the Center's methodology based on the project's goals and scope.
- Workstream Leads:
  - will use the methodology and the project's goals to identify essential elements for their workstreams
  - need to provide key information and customize the methodology for their respective workstreams
- The project lead combines inputs from different workstreams to create a final work scope definition.

### Key questions



- Are there any extra analyses that workstream leads need to add?
- Are there gaps between the desired outcomes and the customized methodology?
- Are there required adjustments which the project lead — with input from consortium members — should point out to meet the study's specific needs?

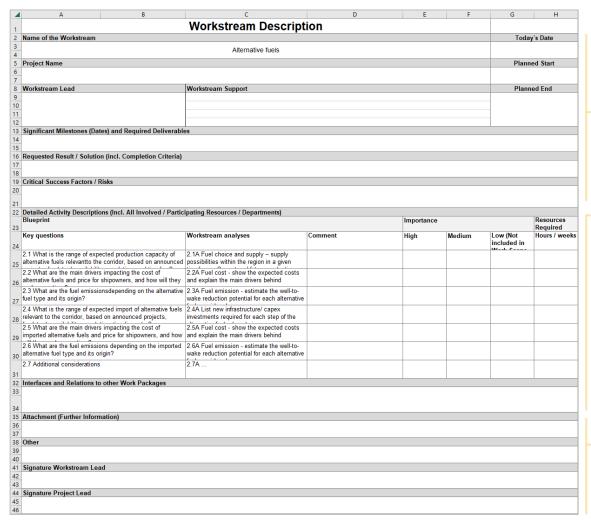
### Importance



- The work scope definition:
  - outlines all necessary activities and analyses for the Feasibility Study
  - aids in achieving desired goals and outcomes
- Serves as a **point of reference** alongside the project plan for workstreams during the Feasibility Study.
- Ensures alignment and transparency on the approach to reaching defined goals.
- Contributes to the project plan, guiding the Feasibility Study.
- Helps maintain consistency with the study's goals throughout the process.
- Highlights the need for teamwork among Workstream Leads and Project Lead.
- Outlines deviations from the standard method, and hence serves as a 'management of change' tool.



# Template: Work scope definition – individual workstream



Each Workstream Lead needs to provide key information and customize the methodology for their respective workstreams

1 Overview:

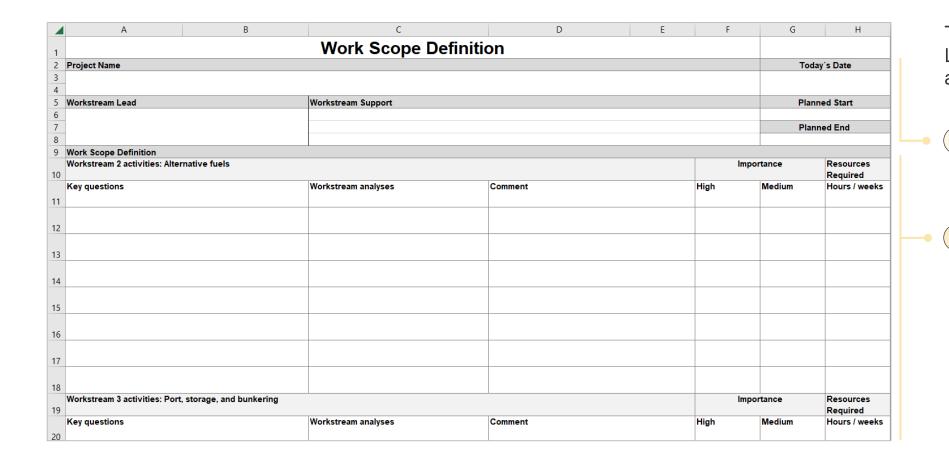
Fill in high-level workstream description, including milestones and key deliverables, desired results, success factors and risks

- 2 Methodology customization:
  - For each step of the methodology, indicate its importance from high to low
  - In the comment field, specify whether this step only applies to one aspect, e.g., a certain fuel type / vessel segment
  - Outcome is the Work Scope Definition, including all steps marked as being of high / medium importance
  - Add additional rows in the spreadsheet to add additional analyses to the methodology / Pre-Feasibility assessment, if relevant
- 3 Comments and signatures:

Add comments if necessary and, after review and alignment with the Project Lead, sign the document



# Template: Work scope definition – full project



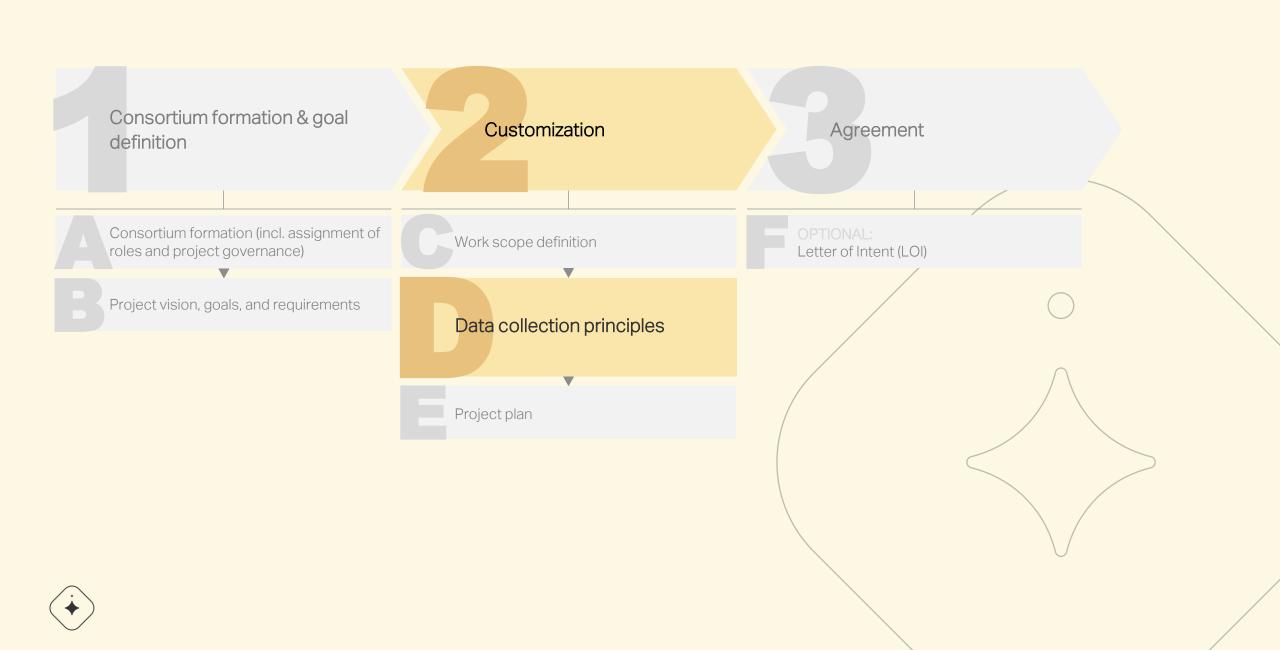
The input from each Workstream Leads is consolidated into the aggregated work scope definition

1 Overview:

Project Lead enters general introductory information

Work Scope Definition:
Project Lead compiles Work
Scope Definition based on input
from Workstream Leads
(The Excel sheet automatically
draws activities directly from the
Workstream Description sheets)





# 2D. Data collection principles

### Purpose



- It is necessary to **collect data** to conduct the **analyses** in the Pre-Feasibility Study phase.
- Data is collected for following domains using data collection templates:
  - o Renewable energy and alternative fuels
  - o Port, storage, and bunkering infrastructure
  - o Trade routes, vessels, cargo and services
  - o Policy, regulation, and funding

### Key questions



- Source identification:
   From where will the data be collected? What are the primary sources?
- Data granularity:
   What level of data granularity is needed to
   fulfill the study's objectives?
   This is necessary to ensure that the same
   granularity is applied through all workstreams.
- Accuracy and reliability:
   How will the accuracy and reliability of the collected data be ensured?
- Validation and conditions:
   Is there a systematic approach for data
   validation and conditions before analysis?
- Storage and security:
   Where will the data be stored? What measures are in place to ensure its security?

### Importance



- Ensuring Alignment in Scoping Phase:
  The data collection templates that are shared during the Scoping phase foster alignment among stakeholders, and ensure a collective understanding of the granularity of data needed for the Study phase.
- Guiding Pre-Feasibility Study Phase:
   The data collection templates serve as a foundational guide for Workstream Leads during the Pre-Feasibility Study, as they provide a structured starting point for their efforts.
- Impact on Assessment Accuracy:
  The quality and thoroughness of data collected significantly influence the accuracy and reliability of the Pre-Feasibility Study and its resulting insights.



# Data collection principles

During the Pre-Feasibility Study phase, data needs to be collected for Workstreams 2-5

		Workstream 2: Alternative fuels	Workstream 3: Port, storage, and bunkering infrastructure	Workstream 4: Trade routes, vessels, cargo and services	Workstream 5: Policy, regulation, justice and equitability
	Vhich data is required?	Collection of data for renewable energy and fuel project, capacity and possible fuel cost of origin	Collection of port-related data, e.g., port-specific trade, readiness for handling the new future fuels, and current and future infrastructure	Collection of cargo and vessel data, e.g., vessel-specific trade and services	Collection of regulatory data for the area of focus, e.g., at port / region / country / continent level
i	Why is it important?	Required for analyses in Pre- Feasibility Study Phase, e.g., for project maturation and sectoral competition analysis  Required for analyses in Pre- Feasibility Study Phase, e.g., for port readiness level assessment		Required for analyses in Pre- Feasibility Study phase, e.g., for vessel selection	Required for analyses in Pre- Feasibility Study Phase, e.g., for regulatory assessment

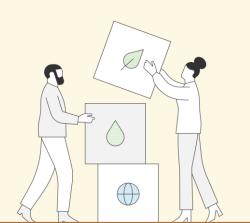
See the next slides for available templates to assist with data collection: Adjust the data templates as per the project's needs and availability of data



# Workstream 2: Alternative fuels – Data collection template

Collect data points for relevant fuel projects: location, capacity and expected production volumes, among others

Estimate the **cost of origin** for selected alternative fuels if possible



Tab. 2.1: Overview of relevant fuel projects

	Fuel project 1	Fuel project 2	Fuel project 3	Fuel project 4	Fuel project 5	Fuel project 6
Company name	ruei project i	ruei project z	ruei project 3	ruei project 4	ruei project 3	Puer project o
Site (location)						
State (region)						
Fuel type						
Capacity (KT/year)						
Renewable source (e.g., sun, wind, hydro)						
Status (in operation, final investment decision (FID), sanction, Feasibility study (F/S), idea						
Energy performance certificate (EPC)						
Renewable supply (e.e., underway, in place)						
Financing (e.g., underway, in place)						
Groundwork (e.g., underway, completed)						
Construction (e.g., underway, completed)						
Commencement target year/ forecast						
Production volume in 2025 (KT)						
Production volume in 2030 (KT)						
Production volume in 2035 (KT)						
Production volume in 2040 (KT)						
Production volume in 2050 (KT)						
Offtake agreements						

#### Tab. 2.2: Fuel Cost of origin

cost in USD / GJ and USD / t

Fuel type	Unit	Existing	2025	2030	2035	2040	2045
	in USD / GJ						
	in USD / t						
	in USD / GJ						
	in USD / t						
	in USD / GJ						
	in USD / t						

# Workstream 3: Port, storage, and bunkering infrastructure – Data collection template

Data related to port, storage, and bunkering infrastructure is collected and is divided into 6 areas:

- Port-specific restrictions (such as water depth or number of cranes)
- Port-specific trade Imports (split into refrigerated, bulk, liquid cargo, etc.)
- Port-specific trade Exports (split into refrigerated, bulk, liquid cargo, etc.)
- Current infrastructure (overview of bunkering and truck, barge, pipe infrastructure at port)
- Future infrastructure –
   Bunkering (by fuel and year)
- Future infrastructure Call (by fuel and year)
- Future infrastructure Cargo

Tab. 3.1: Port Specific Restrictions

Port [Name]	Ownership [type]	Location [UTM X]	Location [UTM Y]	Water depth [m]	Congestion degree	Max. Ships per day	Max. Storage capacity	Number of cranes
			·					

#### Tab. 3.2: Port-specific trade - Imports

Port [Name]					
	Tonnage per port (in	Port share of cargo ty	Value (FOB) per port	Port share of cargo ty	Tonnage per p
Total	-	-	-	-	

#### Tab. 3.3: Port-specific trade - Exports

Port [Name]					
roit [Maine]	Tonnage per port (in	Port share of cargo ty	Value (FOB) per port	Port share of cargo ty	Tonnage per p
Total	-	-	-	-	

#### Tab. 3.4: Current infrastructure - Overview of bunkering and infrastructure options available per port

Port [Name]	Operator [Name]		e [yes; no]	Infrastructure		
rort [italile]	Operator [Name]	Alternative Fuel 1	Alternative Fuel 2	Truck	Barge	

#### Tab 3.5: Future infrastructure - Bunkering

#### Alternative Fuel 1

_	Port and Fuel type	2023	2025	2030	2040	2050
_	Port 1 - Alternative Fuel 1					
	Port 2 - Alternative Fuel 1					
	Port 3 - Alternative Fuel 1					
	Port 4 - Alternative Fuel 1					
	Port 5 - Alternative Fuel 1					

#### Alternative Fuel 2

р	Port and Fuel type	2023	2025	2030	2040	2050
_	Port 1 - Alternative Fuel 2					
_	Port 2 - Alternative Fuel 2					
-	Port 3 - Alternative Fuel 2					
-	Port 4 - Alternative Fuel 2					
-	Port 5 - Alternative Fuel 2					

#### Tab 3.6: Future infrastructure - Call

#### Alternative Fuel 1

	Port and Fuel type	2023	2025	2030	2040	2050
_	Port 1 - Alternative Fuel 1					
_	Port 2 - Alternative Fuel 1					
_	Port 3 - Alternative Fuel 1					
_	Port 4 - Alternative Fuel 1					
_	Port 5 - Alternative Fuel 1					

#### Alternative Fuel 2

Port and Fuel type	2023	2025	2030	2040	2050
Port 1 - Alternative Fuel 2					
Port 2 - Alternative Fuel 2					
Port 3 - Alternative Fuel 2					
Port 4 - Alternative Fuel 2					
Port 5 - Alternative Fuel 2					

# Workstream 4: Trade routes, vessels, cargo and services – Data collection template

Trade routes, vessel, cargo, and servicesrelated data collection is divided into 7 areas:

- Overall assessment of import/export into region, independent of mode of transportation
- Vessel analysis (emissions and fuel consumption)
- Vessel-specific trade Imports (e.g., volume, value, origin, etc.)
- Vessel-specific trade Exports (e.g., volume, value, origin, etc.)
- Vessel-specific services Domestic services (e.g., number of passengers, destination, etc.)
- Vessel-specific services International services (e.g., number of passengers, destination, etc.)

#### Tab. 4.1: Vessel analysis - Emissions and fuel consumption

Summary of fuel consumption and CO2 emissions (TfW) for defined region fleet during a defined time phase

	Vessel segment 1	Vessel segment 2	Vessel segment 3	Vessel segment 4	Vessel segment 5
Ships (#)					
Voyages (#)					
Emission factor (#)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Fuel Main (kT/yr)					
Fuel Aux (kT/yr)					
Total fuel (kT/yr)			-		
CO2 emissions (kT/yr)					

#### Tab. 4.2: Vessel-specific trade - Imports

Product	Volume (in t)		Value (FOB in US \$)		FOB / tonnage
Product 1		#DIV/0!		#DIV/0!	#DIV/0!
Product 2		#DIV/0!		#DIV/0!	#DIV/0!
		#DIV/0!		#DIV/0!	#DIV/0!
		#DIV/0!		#DIV/0!	#DIV/0!
		#DIV/0!		#DIV/0!	#DIV/0!
		#DIV/0!		#DIV/0!	#DIV/0!
		#DIV/0!		#DIV/0!	#DIV/0!
Total	-	#DIV/0!	-	#DIV/0!	#DIV/0!

#### Tab. 4.3: Vessel-specific trade - Exports

Toduct						
	Tab. 4.5: Vessel specific service - International services					
Product 2						
	Service	Number of passengers / cars / units	Share of total number (in %)	Where to (main country)	Vessel segment	Growth
	Service 1		#DIV/0!			
	Service 2		#DIV/0!			
	Service 3		#DIV/0!			
			#DIV/0!			
Total			#DIV/0!			
			#DIV/0!			
			#DIV/0!			
Tab. 4.4: Vessel specific ser	Total	-	#DIV/0!			-

### Tab 4.6: Green premium - Incremental cost of green for a unit of cargo Additional cost of transport in green corridors

_	Product / Service	Transport Cost LSFO (in US \$)	Transport Cost alternative fuel 1 (in US \$)	Incremental cost of green in %	Transport Cost alternative fuel 2 in (US \$)	Incremental cost of green in %	Tr
_	Product 1						
_	Product 2						
_	Product 3						
_	Product 4						
_	Product 5						_
	Product 6 Product 7 Product 8						_
	Product 7						_
	Product 8						_
	Product 9						-
	Product 10						

#### Tab. 4.7: Green premium - Incremental cost of green for a service Additional cost of services in green corridors

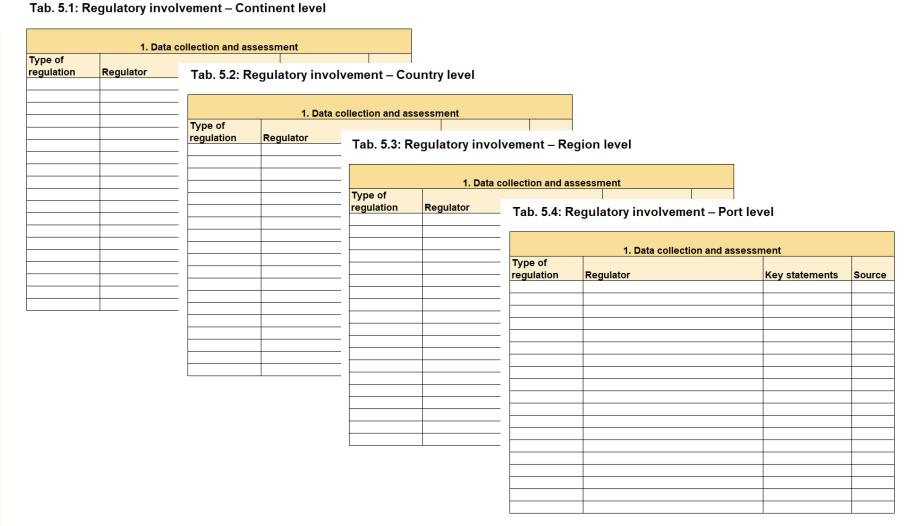
Product / Service	Transport Cost LSFO in (US \$)	Transport Cost alternative fuel 1 (in US \$)	Incremental cost of green in %	Transport Cost alternative fuel 2 in (US \$)	Incremental cost of green in %	Tr
Service 1						
Service 2						
Service 3						
Service 4						
Service 5						
Service 6						
Service 7						
Service 8						
Service 9						
Service 10						

# Workstream 5: Policy, regulation, just & equitable – Data collection template

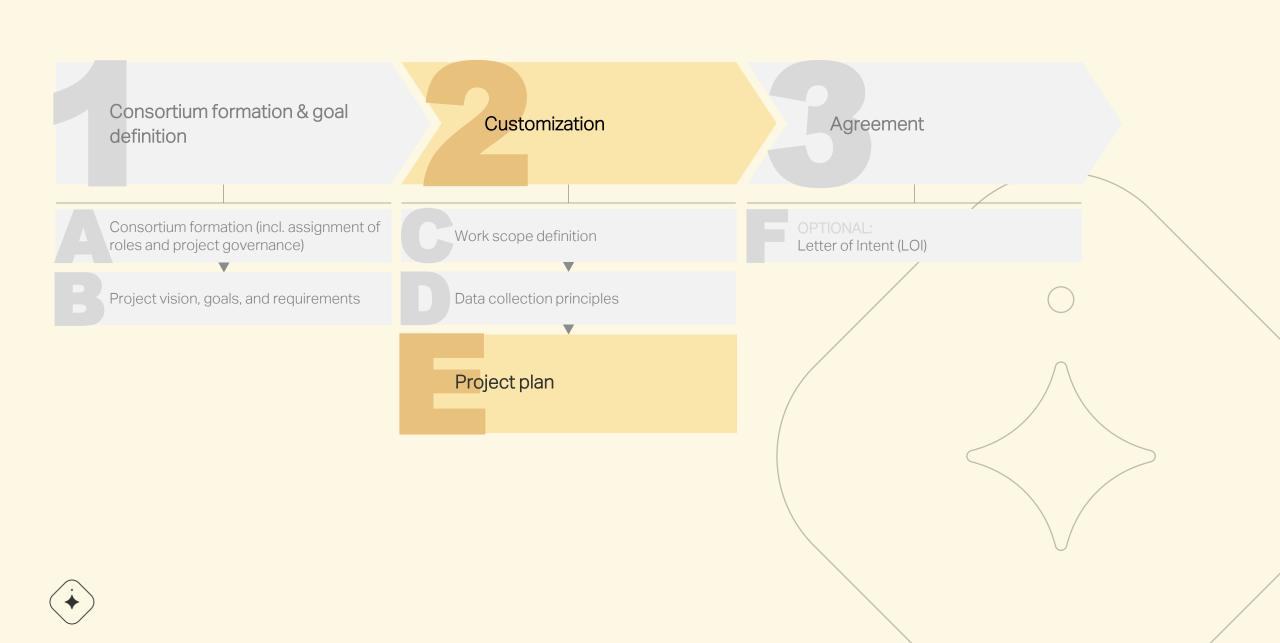
Collection of regulatory data can take place on port, region, country, or continent level

Just & Equitable assessment will be done at country level or at regional level where possible.

Refer to the *Regulatory* assessment guideline to identify on which level the data needs to be collected







# 2E. Project plan

### Purpose



- Serves as a point of reference for the project team, to hold each other accountable against the agreed timeline during the Pre-Feasibility Study.
- Provide a clear and transparent overview of workstream activities, meeting cadence, key deliverables and deadlines.
- Allocate resources effectively to complete the project.
- Identify risks and roadblocks early.
- Input for the letter of intent.

### Key questions



- Activity Overview:
   What is the comprehensive overview of workstream activities provided by the project plan?
- Resource Allocation:
   How does the project plan effectively allocate resources to ensure the completion of the project in accordance with the agreed deadline?
- Risk Identification:
   What mechanisms does the project plan employ to identify and address risks and roadblocks early in the project life cycle?
- Accountability and Timelines:
   In what ways does the project plan serve as a point of reference for the project team to hold each other accountable against agreed timelines during the Pre-Feasibility study?

### Importance

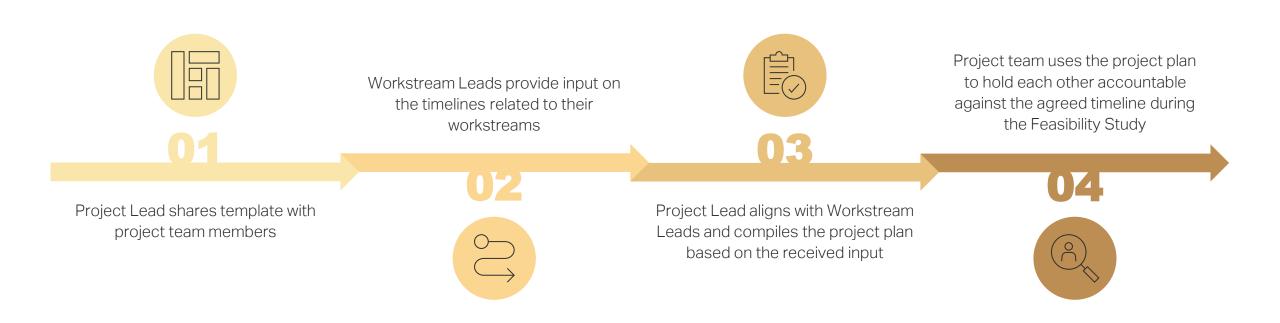


- A shared and clear project plan is paramount for the **efficient execution** of any project.
- As the green corridor projects involve several stakeholders, who are often not familiar with working with each other and are potentially in different time zones, it is important that everyone works according to the same plan.
- The project plan also gives a clear outline of interdependencies between the workstreams.



# Project plan

The project plan serves as a common point of reference throughout the entire project





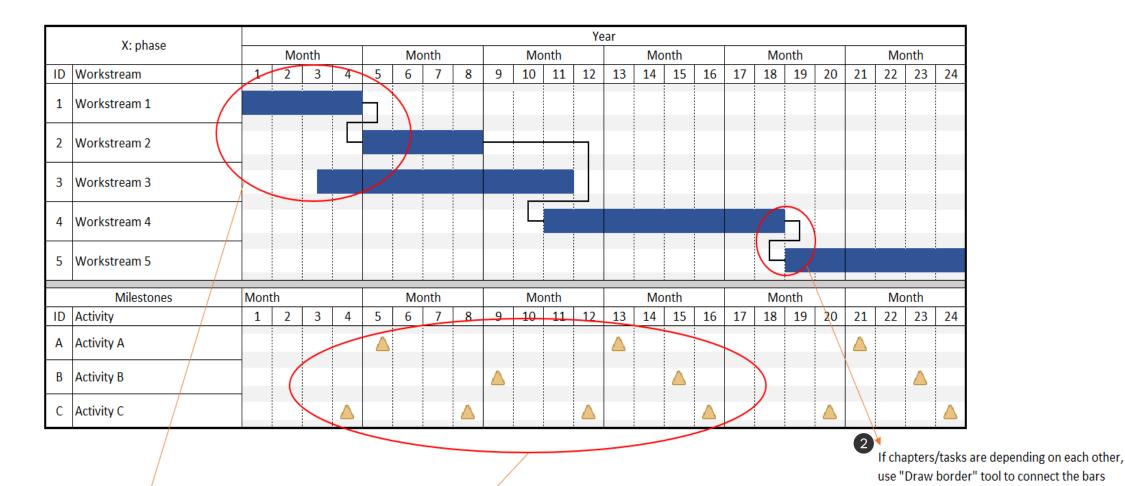
# Pre-Feasibility Study template: Develop a Pre-Feasibility Study project plan

	Pre-Feasibility Study												Ye	ear																
			Mo	onth			M	onth				onth			Mo	onth			Мо					nth		]	1			
ID	Workstream	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	]				
_1	Introduction, vision, and projec																													
2	Alternative fuels																													
3	Port, storage, and bunkering infi																											(1		Enter the expected full
4	Trade routes, vessels, cargo and																													duration of the workstreams
5	Policy, regulation, and funding																													here and indicate with lines (use the "Draw Border" tool) if
6	Selecting 1st suite of corridors																													they depend on each other
7	Selecting 1st wave corridors and																													
	Milestones		М	onth			М	onth			М	onth			Мс	onth			Мо	nth			Мс	onth						
ID	Activity	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24					
Α	Steering group meeting																											(2	2)	Insert key milestones here
В	Workshop																													
С	Status Meeting																													
_																										,				B "
<b>→</b> 1	Introduction, vision, and projec		Mo	onth		Т	M	onth		Г	M	onth	Y	ear	Mc	onth			Mo	nth			Mo	onth		ł		(3	3)	Deep dive on each of the
ID	Task	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	1				workstreams if possible. List
1																														tasks, their duration, and key milestones. Can serve as
																														input to overarching project plan at the top of the sheet



# CANOLA TO

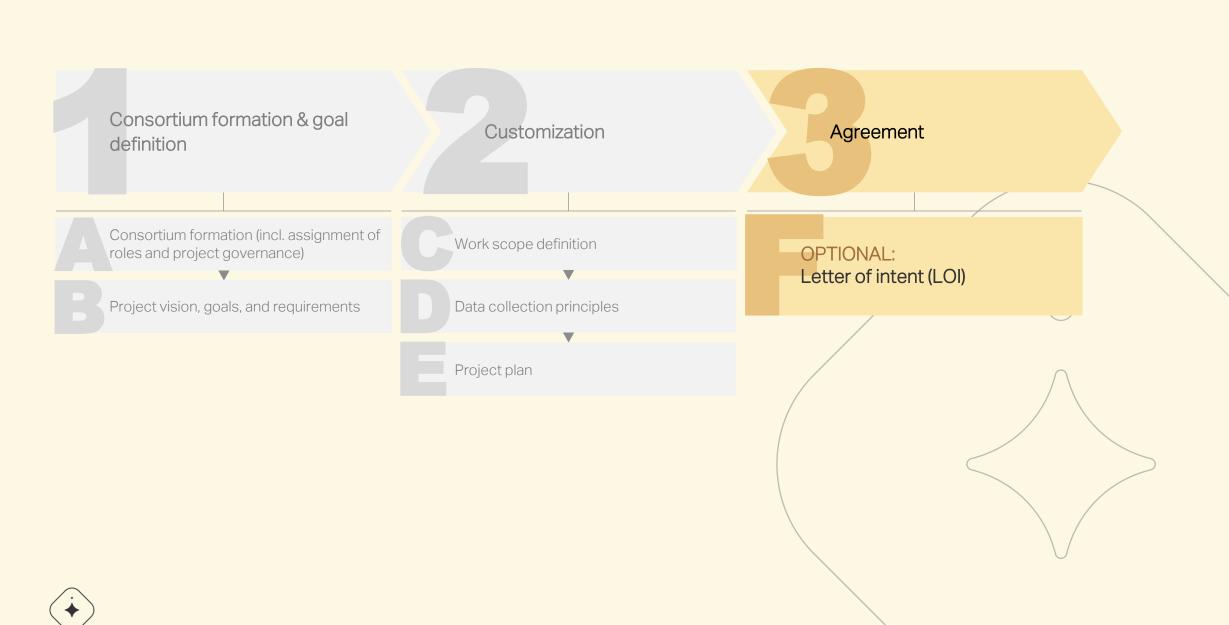
# Instructions: The Excel tool can be used to create customized project plans





Mark the white blocks and color them in a darker color

For Milestones: By typing a 1 in the cell, a milestone is added for the respective activity for the corresponding week/month



## 3F. Letter of intent (LOI)

### Purpose



- The LOI outlines mutual intentions for collaborative efforts in the Pre-Feasibility Study Phase.
- It does not create legally binding obligations, except for confidentiality provisions and agreements as to how communication is planned.
- Establishes a **framework** for ongoing discussions and cooperation.
- Articulates **general principles and objectives** guiding the parties.
- Acknowledges potential necessity for a legally binding project agreement at a later stage.

### Key questions



- Is it **necessary** to include an LOI in the Pre-Feasibility Scoping Phase?
- What are the general principles and objectives articulated in the LOI?
- How does the LOI handle legally binding obligations, particularly regarding confidentiality provisions?
- What is the prerequisite for project team members to sign the LOI regarding the completion of other activities in the Pre-Feasibility Scoping Phase?

### Importance



- The LOI is an **optional element**, it determines the **end** of the **scoping** phase.
- Could be required when public announcements are expected or mutual intention formalization is desired.
- Serves as a **point of reference** for guiding principles, conditions, and responsibilities.
- All other activities in the Pre-Feasibility Scoping Phase must be completed for project team members to sign the LOI.



## The Letter of Intent (LOI)

The Letter of Intent (LOI) is set up by the Project Lead and reviewed by all project team members

# Create the initial LOI



Share, review, and adjust the LOI



Finalize the LOI



The **Project Lead** is tasked with drafting the **initial version** of the LOI using the provided **template** 

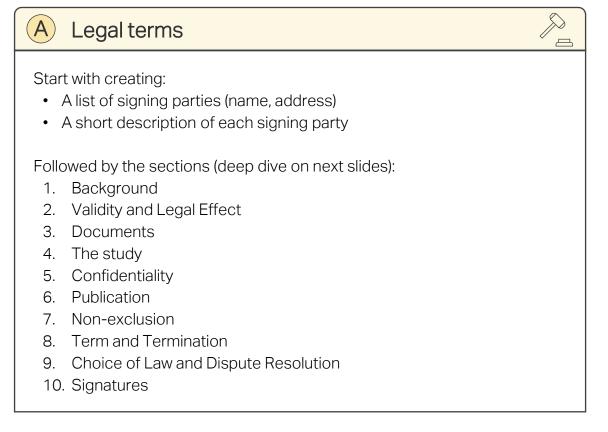
- Project Lead shares the initial draft version of the LOI with Workstream Leads
- Legal teams of the Workstream Leads review the legal terms of the LOI, while project team members of the Workstream Leads review the project description (PD).
- The **feedback** is then iterated between the Project Lead and the Workstream Leads

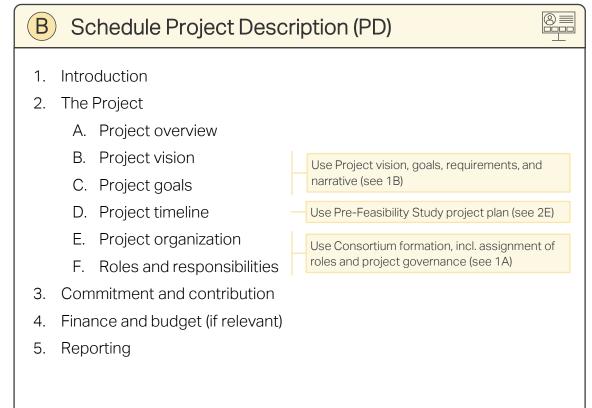
- The Project Lead adjusts the LOI based on feedback from Workstream Leads.
- The finalized LOI is distributed to all project team members for their signatures



# Template: LOI

The LOI includes two parts: the legal terms and a project description. An example of LOI content is given below.





To be reviewed by <u>legal teams</u> of Workstream Leads

To be reviewed by <u>project team</u> members of Workstream Leads



# Template: LOI – Part A: Legal terms (1/3)



An overview of signees and participating companies is required to set up the LOI. Template to be sent out to project members



### Signees / Project Supervision / Key Personnel

- Name
- Job Title
- Company
- E-Mail Address / Mobile Number



### Companies

- Partner Full Registration Name
- · Company reg. no.
- Address
- Postal Code
- Country
- Other relevant information for the specific area



# Template: LOI – Part A: Legal terms (2/3)



Section in the LOI	Key content/ messages
1 Background	By signing this LOI, the Parties confirm their strong intentions to initiate the collaboration to carry out the pre-feasibility study.
Validity and Legal Effect	This LOI is solely an expression of the Parties' intentions and shall not constitute any legally binding obligations for the Parties, except for confidentiality obligations
3 Documents	The <b>Schedule [PD] (Project Description) is an integral part of this LOI</b> and all references made to this LOI include a reference to the Schedule [PD] Project Description
4 The study	The "Project" shall mean the project governed by this LOI as described in Schedule [PD] Project Description
5 Confidentiality	The Parties are obliged to keep confidential any information that is exchanged between the Parties in connection with the Project and that is explicitly and clearly marked as confidential upon disclosure
	Where disclosure is required by law, prior to such disclosure the receiving Party shall consult with the disclosing Party in good faith about the terms of the receiving Party's disclosure of the disclosing Party's confidential information
	The confidentiality obligations set out in Section 6 will survive termination of this LOI for a period xx years from termination of this LOI



# Template: LOI – Part A: Legal terms (3/3)



Section in the LOI	Key content/ messages
6 Publication	For the purpose of this LOI, "Publication" means (i) the publication of an abstract, article, study, paper or similar in a journal or in other public domains, (ii) presentations at a conference, seminar or other public domains, and (iii) any other disclosure that is meant to inform or present a certain topic to a wider group of recipients or unidentified audience, and "Publish" and "Publishing" are to be construed as meaning the same
	<b>Joint publication:</b> The Parties shall in good faith discuss a joint initial Publication of the Project results and the general principles for references to the Parties' involvement in this Project
	<b>Required Publication:</b> subject to the confidentiality obligations, the requirement for publicity shall be honored in good faith by all project participants.
7 Non-exclusive	This LOI is <b>non-exclusive</b> and nothing in this LOI shall prevent or restrict a Party from entering into identical or similar arrangements, letters of intent and/or agreements with any other persons or entities
8 Term and Termination	Start date: When all parties have signed the LOI, counting from the date on which the last Party signed it ('Effective Date') End date:
	<ul> <li>If the Parties enter into the contemplated Agreement or a similar agreement governing the Project</li> <li>LOI automatically terminates when project is completed</li> <li>LOI ends on a defined 'Expiration Date'</li> </ul>
	• If the contemplated Agreement is not entered into or the Project is not completed 30 calendar days prior to the Expiration Date, and upon notice from a Party to the other Parties, the Parties agree to enter into good faith discussions for an extension of the term of this LOI



# Template: LOI – Part B: Schedule (PD) Project Description



Section in the LOI	Key content/ messages
1 Introduction	This Schedule [PD] sets out the main parts of the Project details. Including the Project Title
2 The Project	<ul> <li>A. Project overview</li> <li>B. Project vision</li> <li>C. Project goals</li> <li>D. Project timeline</li> <li>E. Project organization</li> <li>F. Roles and responsibilities</li> </ul> <ul> <li>Use Project vision, goals, requirements, and narrative (see 1B)</li> <li>Use Pre-Feasibility Study project plan (see 2E)</li> <li>Use Consortium formation, incl. assignment of roles and project governance (see 1A)</li> </ul>
3 Commitment and contribution	The Parties have <b>committed to contribute to the Project by providing the human, financial and/or material contributions</b> on those terms set out in this LOI (e.g., workstream internal meetings organized by Workstream Lead, status meetings with the whole project team, workshops with the whole project team)
4 Finance and budget, if relevant	Each party shall bear its own costs and expenses incurred in connection with the performance of the Pre-Feasibility Study under this LOI
5 Reporting	The Parties will meet to <b>report on agreed content</b> as previously decided



# Congratulations on successfully completing the pre-feasibility scoping phase of your green corridors project!

With a solid team, established governance, and a clear scope of work, you are now fully prepared to move forward. If a letter of intent has been signed, an extra layer of commitment has been added.

## What comes next?

You are now ready to start on the Pre-Feasibility Study phase, where a suite of possible green corridors will be matured.

Simply click here to access the ready-to-use methodology for the next crucial step in this green corridor journey.



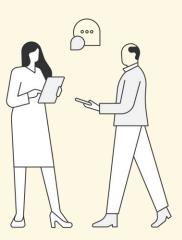


### Disclaimer

This Methodology is provided "as is" without any warranty of any kind, express or implied, including but not limited to merchantability, accuracy, completeness, or fitness for a particular purpose. Any reliance you place on this Methodology is strictly at your own risk.

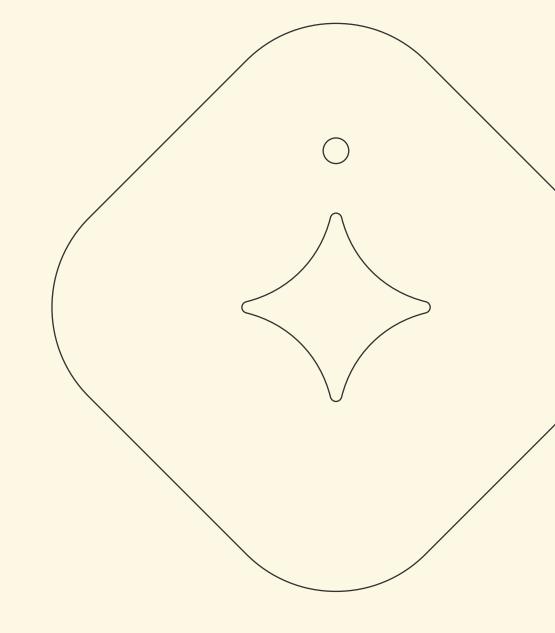
While every effort has been made to ensure the accuracy and effectiveness of the content, Fonden Mærsk Mc-Kinney Møller Center for Zero Carbon Shipping shall not be liable for any errors or omissions in the content, nor for any loss or damage arising from the use of the Methodology.

The example Letter of Intent included in the Methodology is for illustrative purposes only and shall not be considered legal advice.



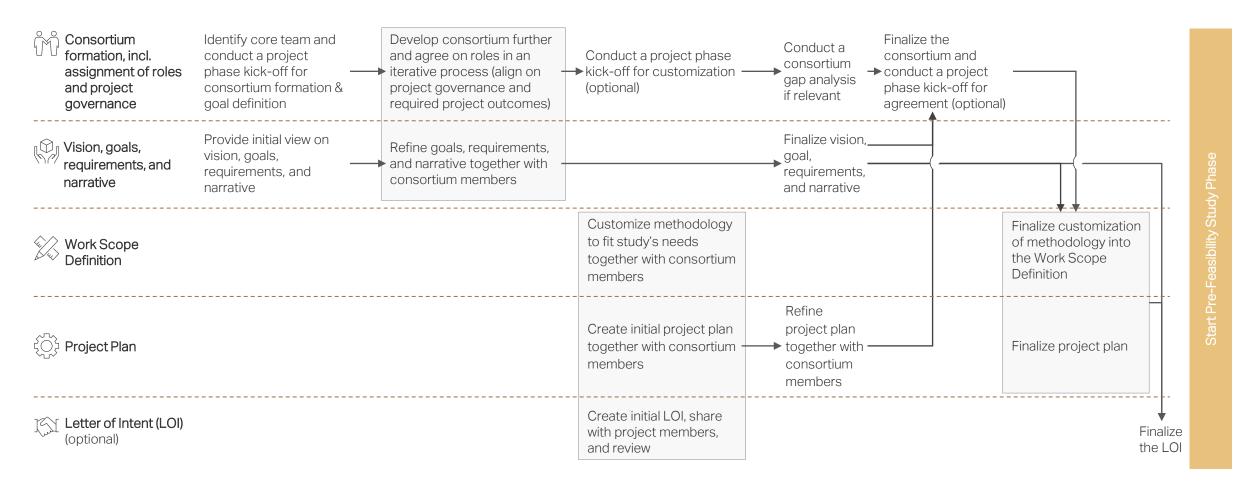


# Appendix





# Sequencing of all key activities



<sup>\*</sup> Not each activity / step in the flowchart is required for every project. Some may be left out depending on project scope / consortium members, etc.



