Putting nature and people at the centre of food system transformation

Training

The Economics of Ecosystems and Biodiversity for Agriculture and Food (TEEBAgriFood): Operational Guidelines for business



Module 1

The TEEBAgriFood for business project and the Operational Guidelines for Business Stage 1 Frame: why is a capitals assessment relevant to my business ?

Structure

- 1. Training goals & Module 1 learning objectives
- 2. Intro to Capitals Coalition & setting the scene
- 3. The capitals approach as the solution for preserving and creating value
- 4. Intro to the TEEBAgriFood for Business project & Guidelines
- 5. Your business case & real business applications
- 6. WHY Frame stage: Get started
- 7. Summary of lessons learned





Module 1

Chapter 1.1

Training goals & Module 1 learning objective



Overall course learning objective

By the end of the course, you will:

- Understand how the capitals approach provides direction for better **business decision-making**.
- Be familiarized with how to assess **business risks and opportunities** based on natural, social, human capital.
- Have a basic understanding on how to assess, measure and value your impacts and dependencies on nature and people across operations and value-chains.
- Be familiarized with the process of a **capitals assessment** and be equipped with the tools to start an assessment in your company.
- Be inspired to drive change within your organization, by sharing data, setting targets and transforming business actions.





Your learning journey

Each training module consists of several building blocks to facilitate your learning experience:

- ✓ Written guidance for trainers & trainees per module
- \checkmark 4 modules that provide
 - ✓ Inspiration about food system change
 - $\checkmark\,$ Real business cases and videos
 - \checkmark Theory regarding the capitals approach
 - \checkmark Exercises to apply the theory to own business case
 - ✓ Summary of lessons learned





Learning objective module 1

By the end of this module, you will:

1. Understand the learning objectives of the training

- 2. Have learned about the **challenges and the solution to preserve value** for nature, people and business
- 3. Be introduced to the TEEBAgriFood Guidelines for business and the first stage: Frame (WHY?)
- 4. Be familiarized and have practiced with the **key concepts** of the capitals approach:
 - natural, social, human and produced capital
 - stocks and flows
 - impacts and dependencies
 - risks and opportunities

5. Be inspired by potential **business applications** and how a capitals assessment can be used in your own business context



Module 1

Chapter 1.2

Introduction to Capitals Coalition & setting the scene



CAPITALS COALITION

Capitals Coalition

We are a global collaboration transforming the way decisions are **made** by including the value provided by nature, people and society.

We work through collaboration with c.400 organizations from across the entire system

We use the **infinity loop** to understand the system we influence for transformative change

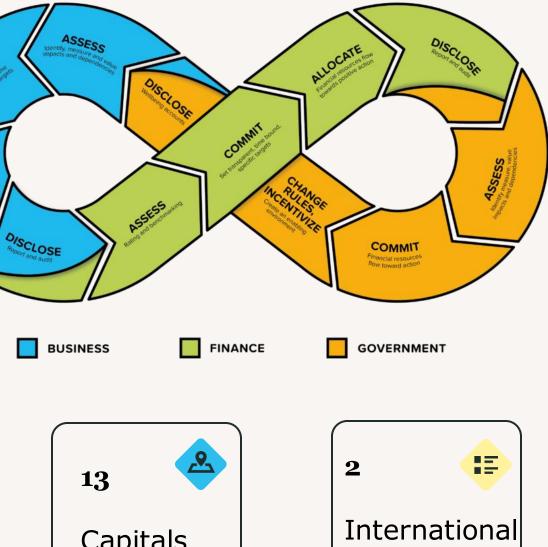




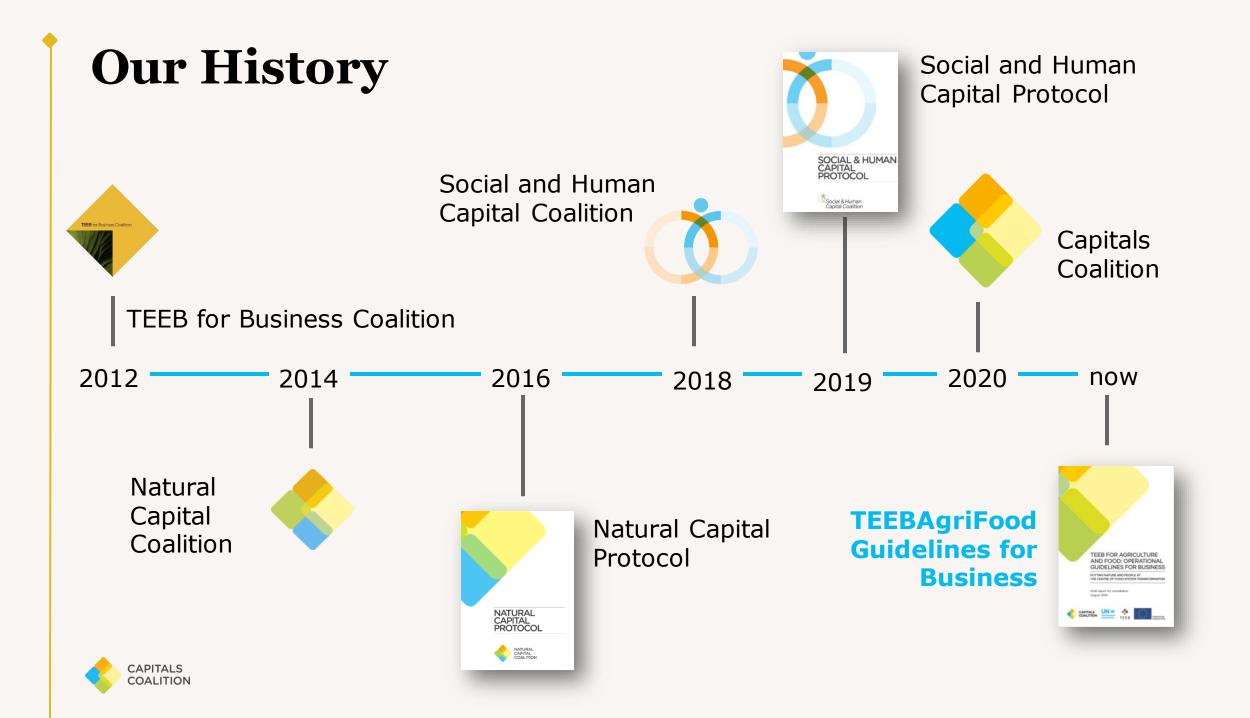
COMMI

RANSFORM

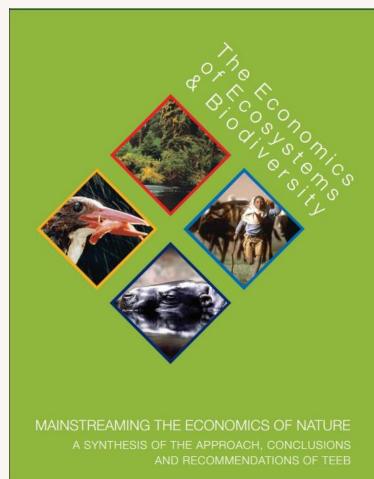


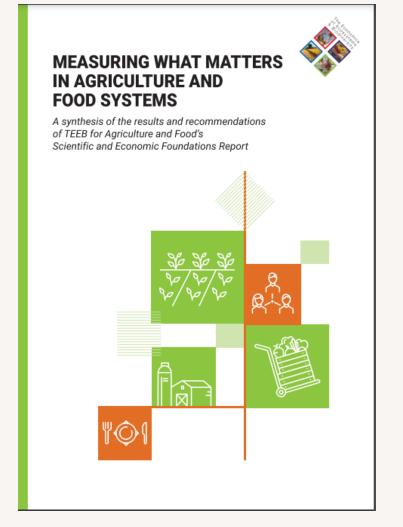


protocols



Our History The Economics of Ecosystems & Biodiversity forms the foundation of Capitals Coalition







The Challenge

We are failing to address the global challenges of nature loss, climate change and rising inequality because our economic systems fail to recognize their dependence on nature, people and society.

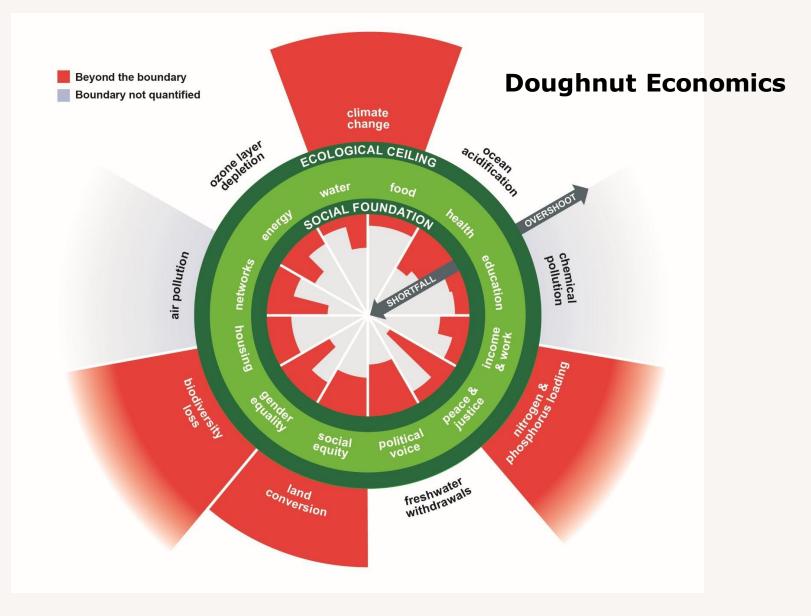
Conventional measures of economic success do not give all information needed to thrive in today's complex world.

Too often we deplete one form of capital and treat the financial gains as profits, creating a net loss of value for society and nature.



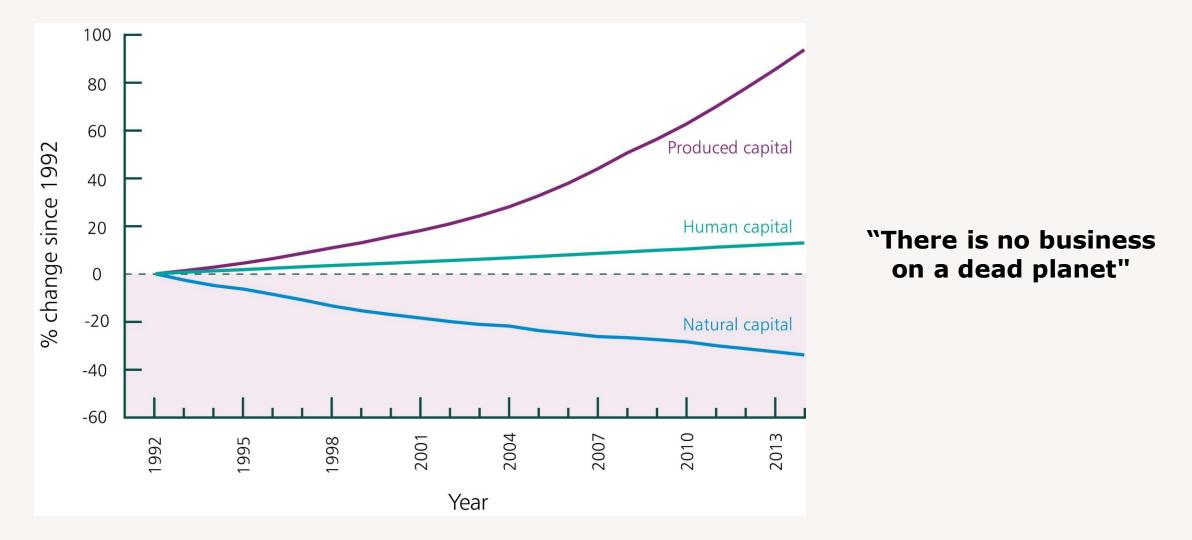


The challenge: planetary & social boundaries





The Challenge: Erosion of capitals



Reference: The Economics of Biodiversity: The Dasgupta Review, 2021

CAPITALS COALITION

The Solution

Our ambition is that by 2030 the majority of businesses, financial institutions and governments will include the **value of all capitals in their decision-making** and that this will deliver a **fairer**, **just and more sustainable world**.





Module 1

Chapter 1.3

The capitals approach as a solution for preserving and creating value



CAPITALS COALITION

The Capitals Approach

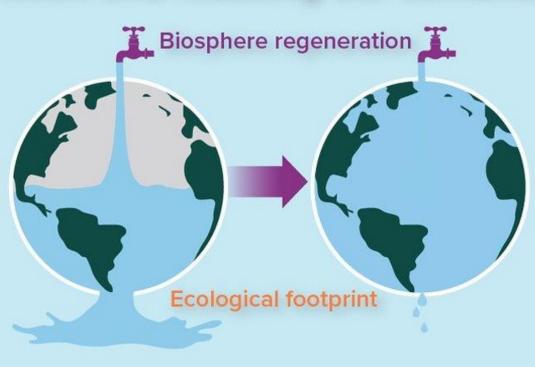


Source: https://vimeo.com/747576760



The Solution: Preserve and create value

Sustainability means supporting Nature's regeneration and reducing our demands on it.



Source: The Economics of Biodiversity: The Dasgupta Review (Dasgupta, 2021)



The Capitals



Capital has traditionally been thought of only as money, but capital describes any resource or asset that stores or provides value to people.

If we invest in the capitals, they create value. If we degrade them, we erode their value.



Natural capital

The stock of renewable and non-renewable natural resources that combine to yield a flow of benefits to people.



The networks together with shared norms, values and understanding that facilitate cooperation within and among groups.



The knowledge, skills, competencies and attributes embodied in individuals that contribute to improved performance and wellbeing.

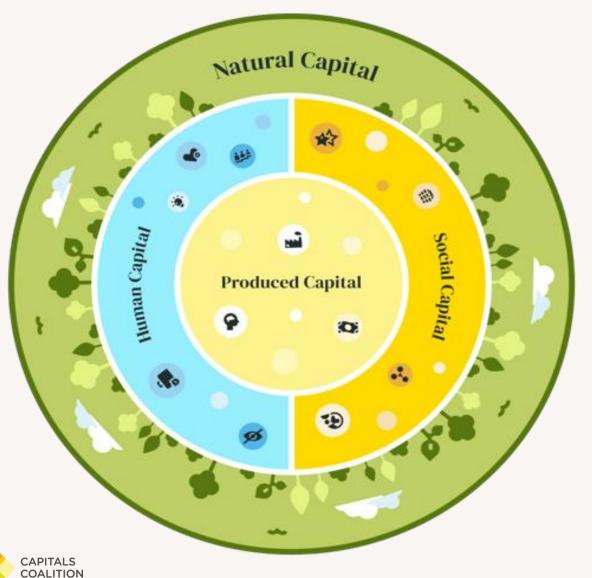


Produced capital

The human-made goods and financial assets that are used to produce goods and services consumed by society.



The Capitals



The capitals are interconnected, with natural capital underpinning the other capitals. As without natural capital, the other capitals won't exist.

The Capitals Approach

The success of organizations around the world is dependent upon the capitals.

Flourishing communities, strong and resilient social institutions, thriving natural ecosystems and a stable climate underpin economic and societal prosperity.

Understanding their impacts and dependencies on the capitals provides a clear business case for their protection, leading to cascading benefits throughout the system.

A capitals approach empowers organizations to make decisions that offer the greatest value to all.





The Three Shifts

Impact & Dependency

A capitals approach moves beyond understanding only impacts to also highlighting dependencies.

Measure & Value

Capitals thinking moves beyond measurement to include valuation. Understanding the value provided by the capitals enables us to include their value in decision-making.



Silos to Systems

A systems approach sits at the core of the capitals approach. To reduce negative impacts & secure value, organizations must understand the integrated outcomes of their decisionmaking.





Where value lies – making the invisible, visible, in decisions

Module 1

Chapter 1.4

Into to the TEEBAgriFood for business project & Guidelines



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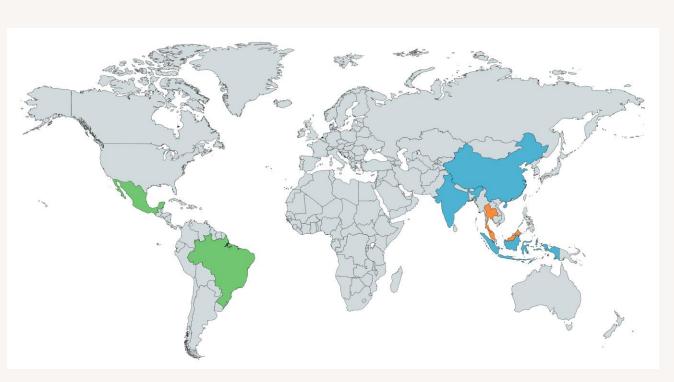
Project scope



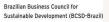
Promoting a sustainable agriculture and food sector

By engaging with food businesses and governments in 7 countries:

- Brazil
- China
- India
- Indonesia
- Malaysia
- Mexico
- Thailand









Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) Gmb	ЬН
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August 2020

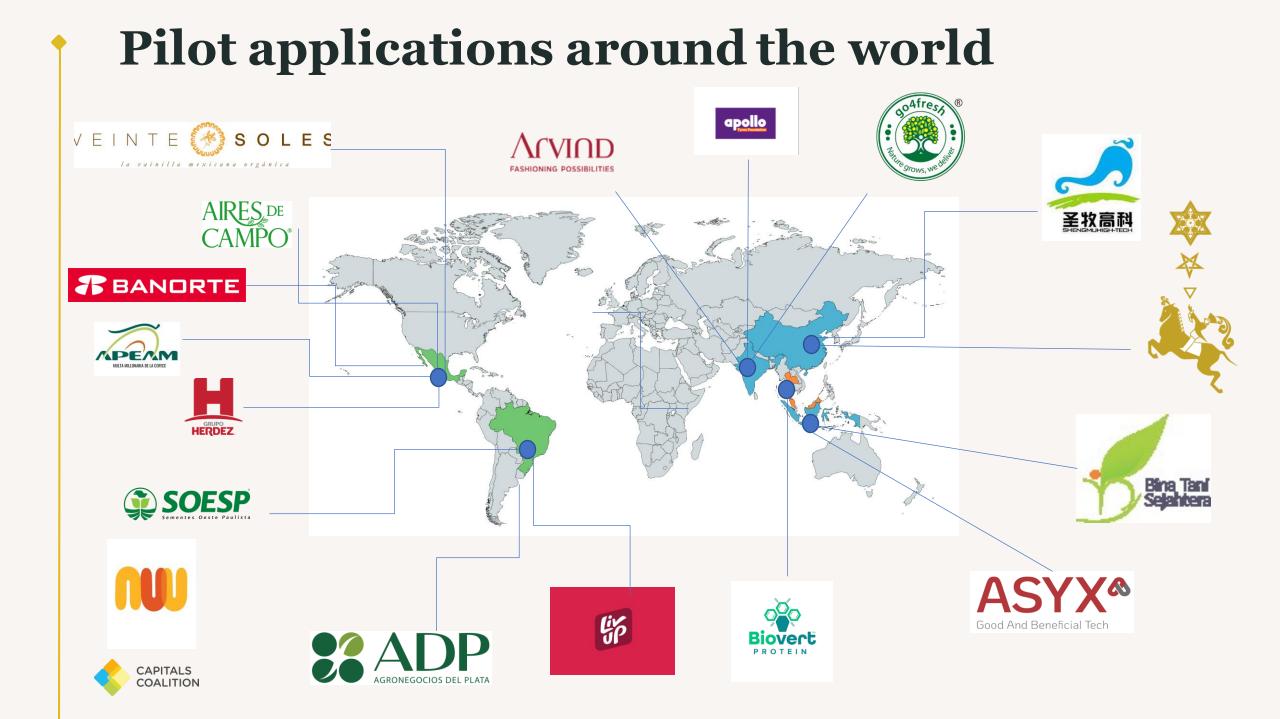
CAPITALS COALITION

Activities

2020 - 2021

September 2023

2020- 2023



The Operational Guidelines for Business

CAPITALS

COALITIO

TEEB for agriculture and food: operational guidelines for business

CAPITALS

Putting nature and people at the centre of food system transformation

Funded by the European Ur User Template

TEEB for agriculture and food: operational guidelines for business

Putting nature and people at the centre of food system transformation

TEEB

Primer TEEB for agriculture

and food: operational j guidelines for business

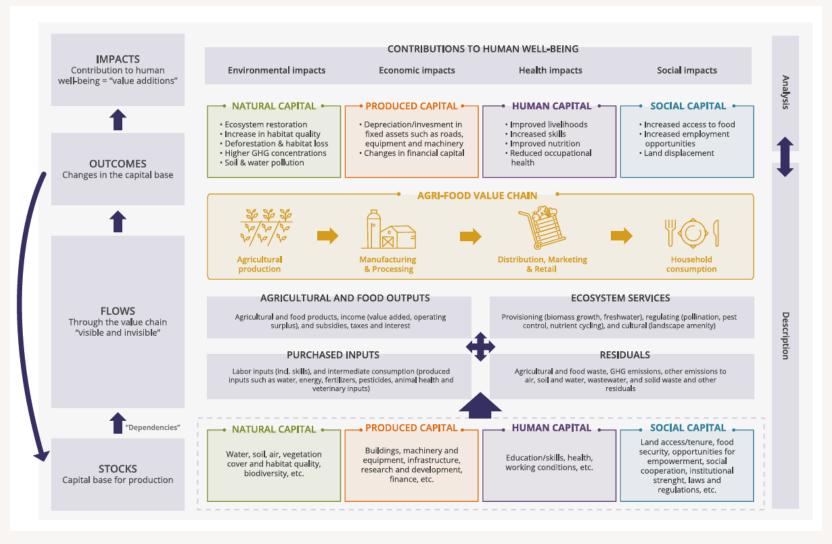
Putting nature and people at the centre of food system transformation

TEEB



🦘 T E E B

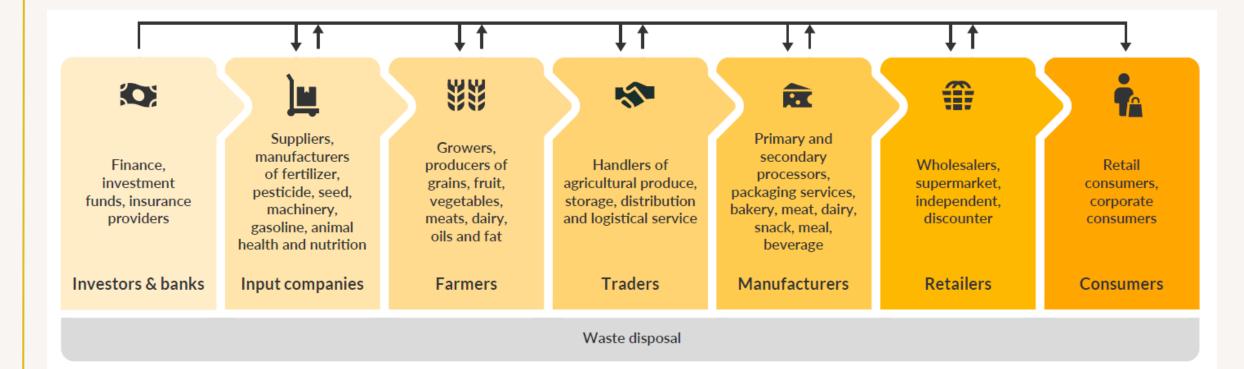
TEEBAgriFood framework



Developed by 150 academics from 33 countries. Source: TEEB for Agriculture & Food (2018): Scientific and Economic Foundations.

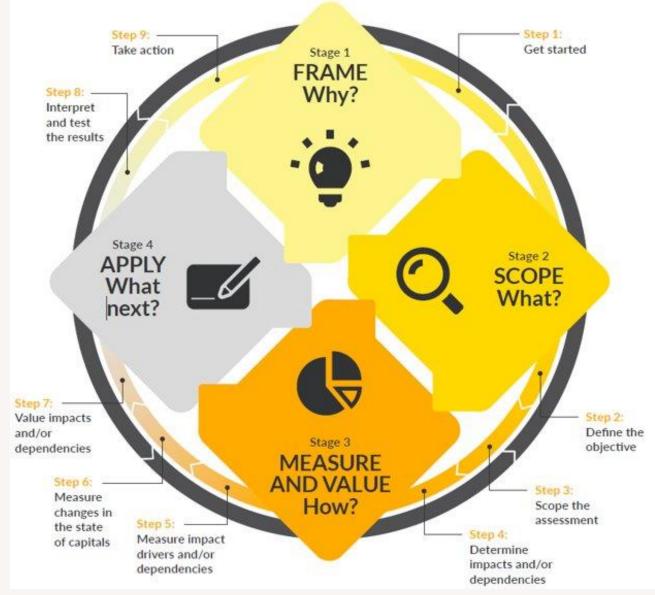


The Agri-Value Chain





Guidelines Structure





Potential use of an assessment

- Inform business core strategy
- Support companies in achieving sustainability goals
- Improve disclosure and reporting to shareholders and investors
- Enhance accounting practices to embed natural capital assets in balance sheet
- Inform investment priorities based on rate of return for each capital



TEEB Framework applications

Objective & Results

Objective: Evaluate the human and ecological cost of water use per kilogram of seed cotton. It's an option comparison between Better Cotton principle and conventional practices. **Results:** Results show that that they reduced by 49% the damage to human health and ecosystem quality.

FASHIONING POSSIBILITIES

Objective: Effectively communicate the uniqueness and positive impacts of its business model on nature and people. Results: 10% decrease in food loss, 18% reduction of production cost, 7.5% increase in (farmers) income levels. 14% reduction in production cost due to less chemical inputs

ASYX[®]

Good And Beneficial Tech

APITAL S

Objective: Assess positive impacts of pineapple leaf fiber upcycling for textile supply chains.

Results: more efficient water use, reduction of waste, creation of secure jobs and contribution to local growth

And many more.....

Module 1

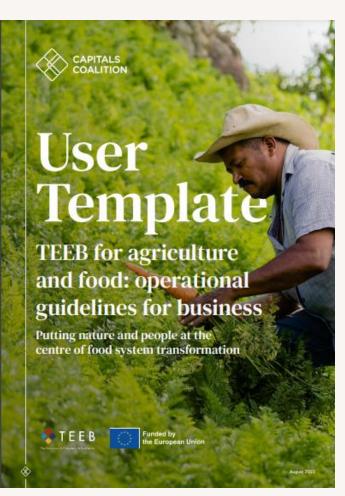
Chapter 1.5

Your business case & Real business applications



CAPITALS COALITION

User Template







Your business case

Get started

Outputs that you should achieve from this step:

- An understanding of the concept of capitals and of stocks, flows, and values.
- An understanding of the interactions between capitals.
- Identification of your business applications.
- Support for the assessment from key business stakeholders.
- An initial understanding of the resources needed to carry out an integrated capitals assessment.

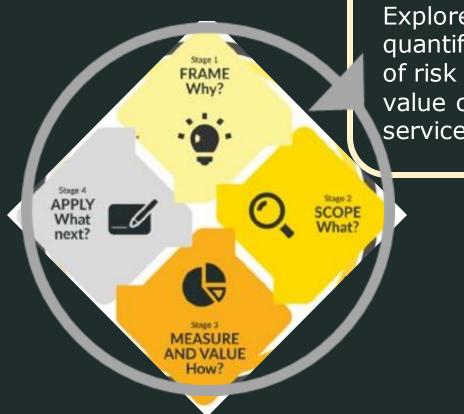
Banorte - Mexico

Agricultural risks and opportunities for the financial sector

Banorte is a large financial group in Mexico. Since 2012, the bank manages social and environmental risks in its financing portfolio



Banorte - Mexico



Frame: WHY

Explore methodologies to quantify financial implications of risk and opportunities in the value chain they provide services to



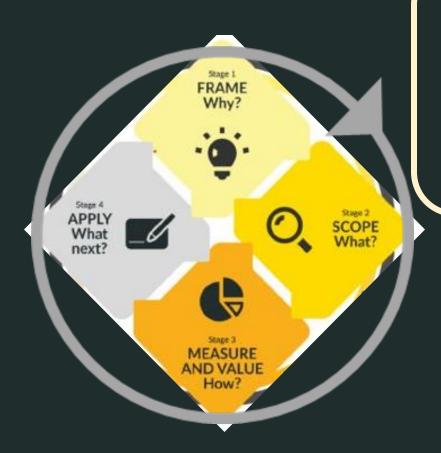
Astral ESG Investment - China

Natural capital accounting to preserve bio- and cultural diversity and foster an ecological economy

Astral ESG is an investment company active in agri-food systems working with local farmers and indigenous communities. The company is based in Yunnan, China's most biodiverse and mostly ethnically diverse province



Astral ESG Investment - China



Frame: WHY

Working in unique Yunnan landscape motivated Astral to identify where their activities create impacts or rely on dependencies. They aim to develop natural capital accounts to reflect Chinese public system of *Gross Ecosystem Value*



Module 1

Chapter 1.6

WHY Get started



Frame Stage Why?

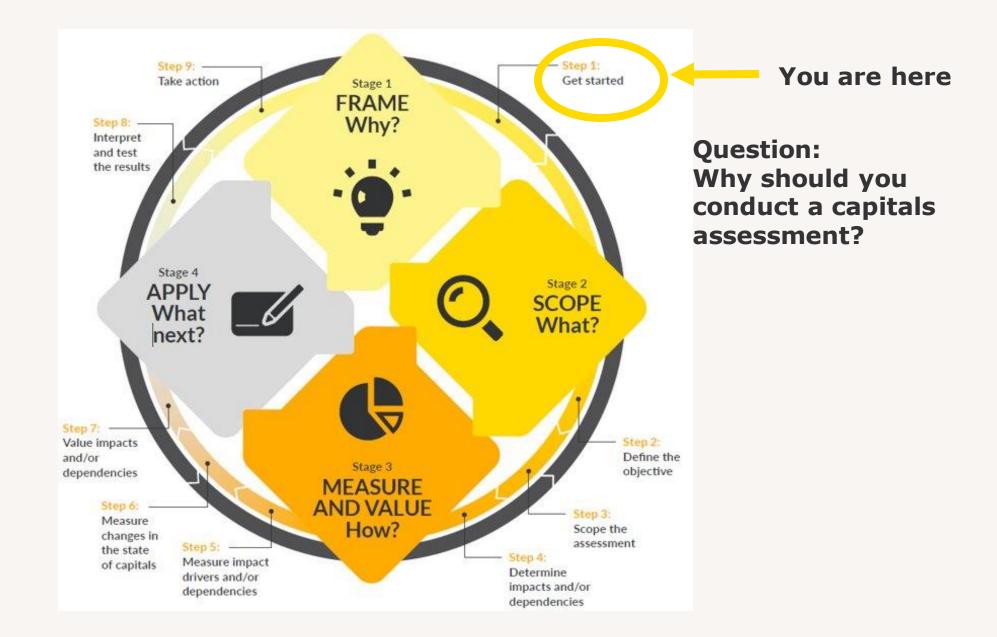
What is the Frame Stage?

The Frame Stage helps you to frame why you would undertake a capitals assessment

Step	Question that this Step will answer	Actions
1 Get started	Why should you conduct a capitals assessment?	1.2.1 Familiarize yourself with the basic concepts of capitals
		1.2.2 Apply the concept of capitals to your business context
		1.2.3 Prepare for your assessment



Step 1





Foundational concepts of capital stocks, flows and values



Produced Capital All man-made and financial assets for production of goods and services

Cooperation, trust, laws and empowerment



Produced Capital Flow of monetary resources

Decisions

By investing in/degrading the capitals, value is created/eroded



Benefits to business and to society

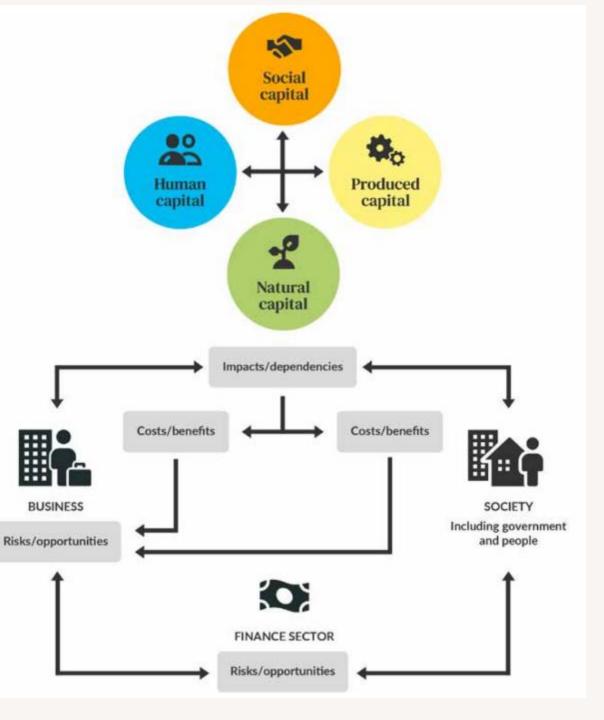
A change in the flows can result in a positive or negative value



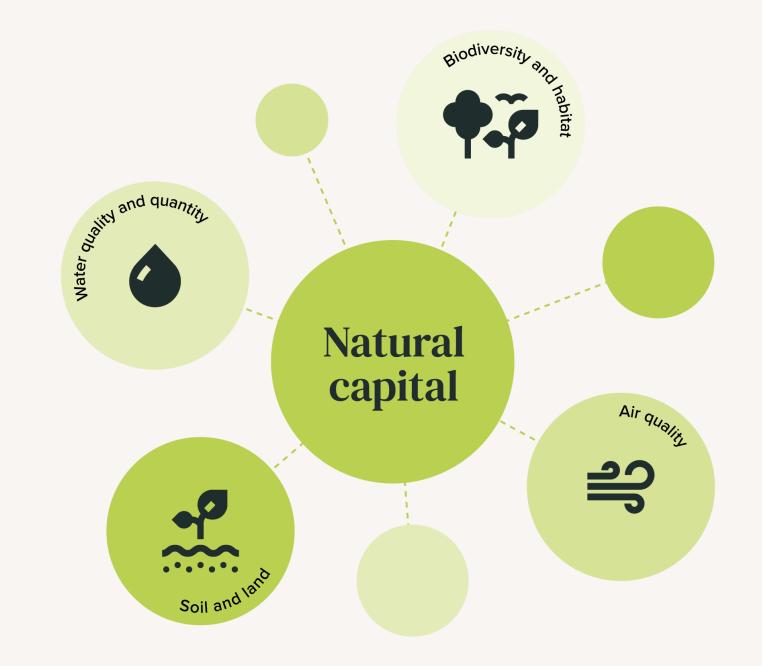


Conceptual model

Capitals impacts & dependencies





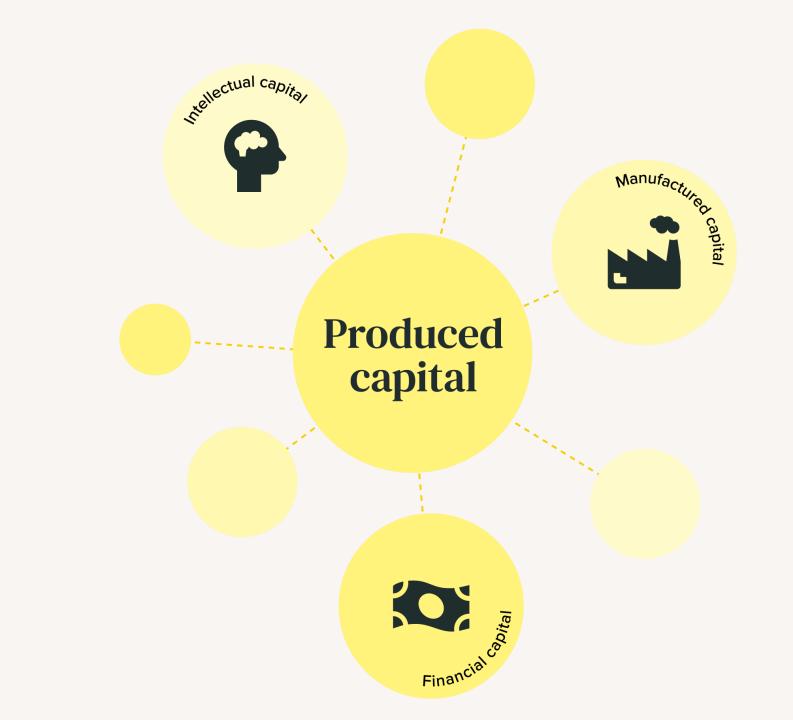


















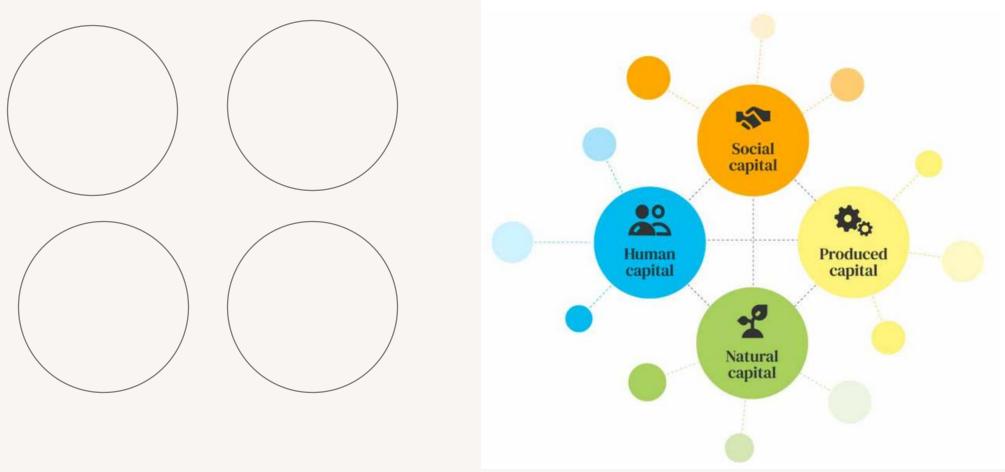
Reflection exercise



Open your workbook to apply your new knowledge

Capitals of interest: 5 min

Circle one or more capitals that would be interesting to assess in your business



Module 1 Exercise 1

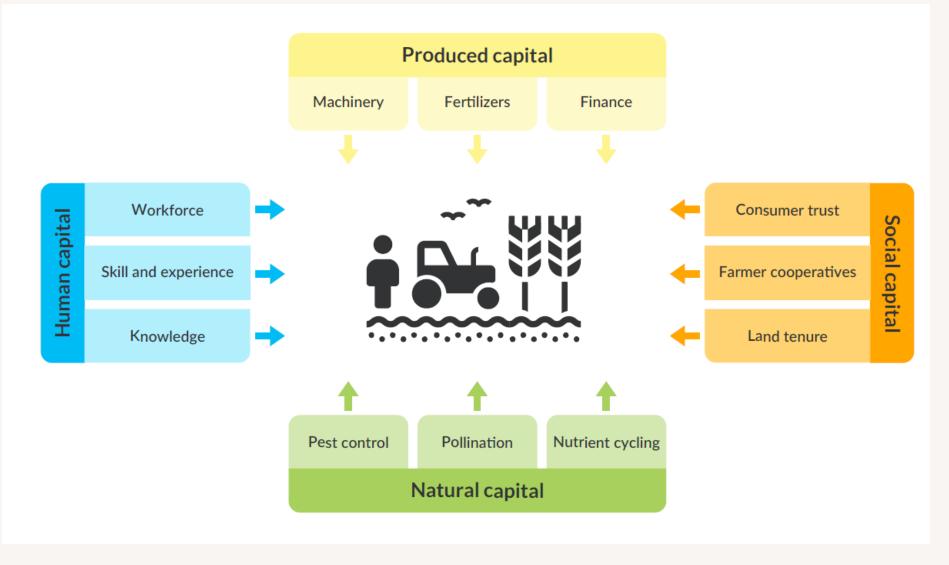


What is your context?

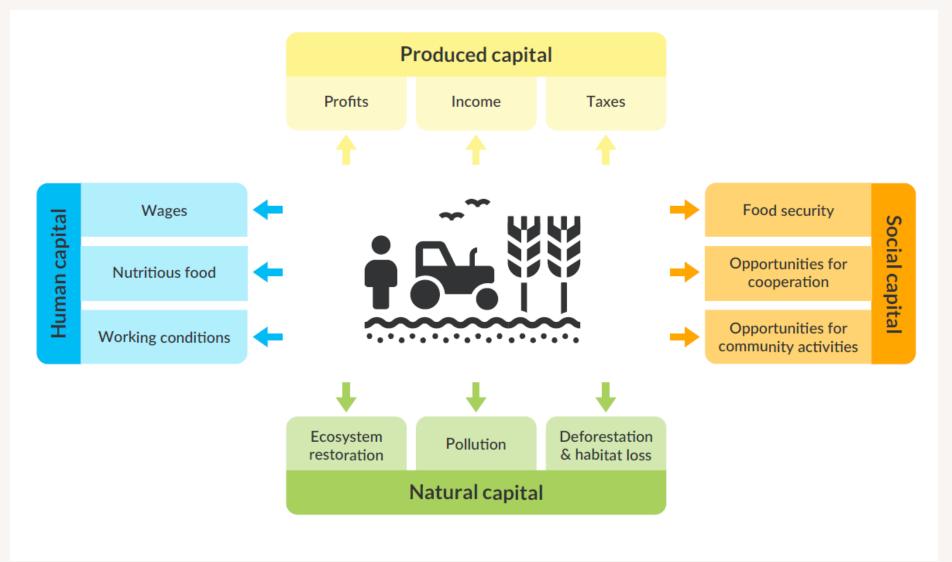
It's a complex system!



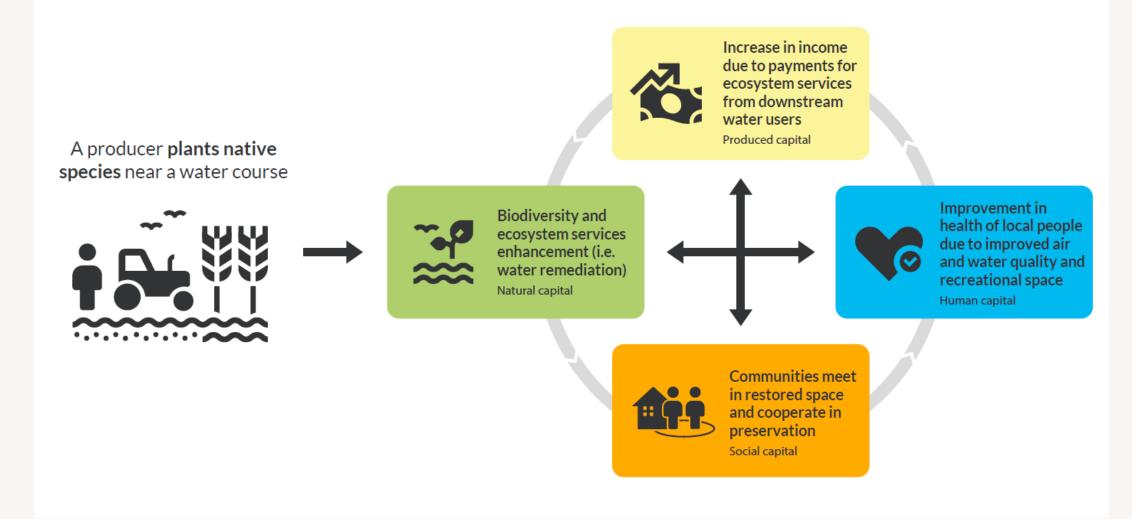
Examples of food business **dependencies** on capitals



Examples of food business **impacts** on capitals

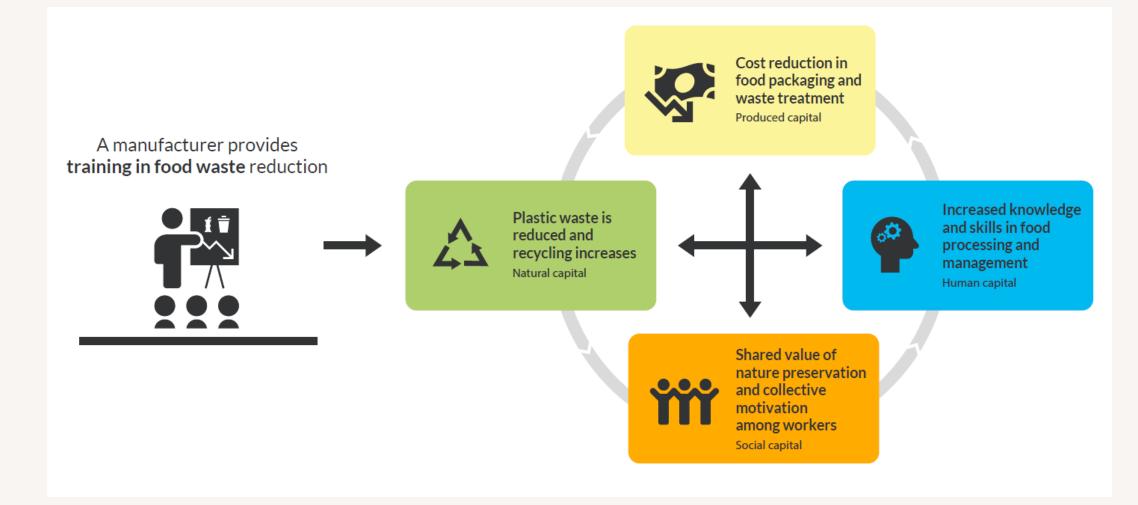


Examples of interactions between capitals



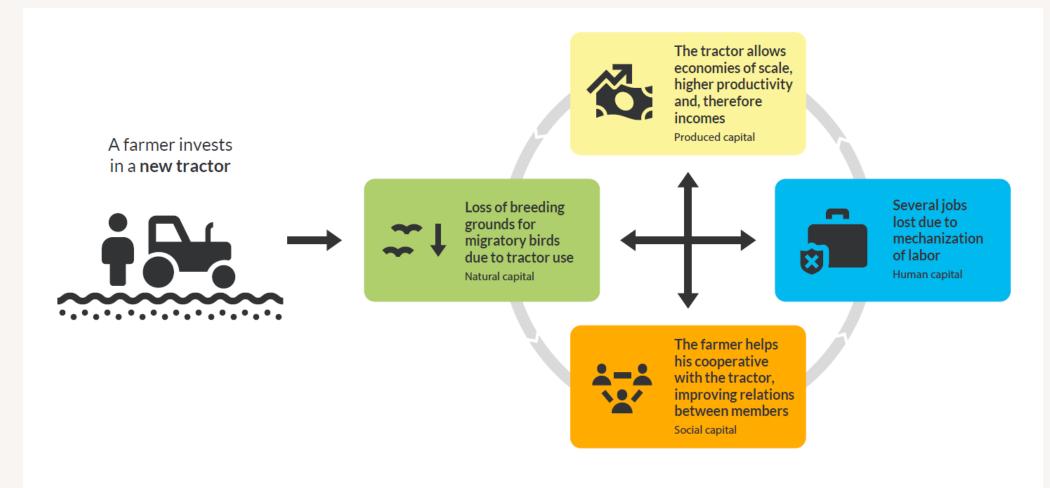


Examples of interactions between capitals





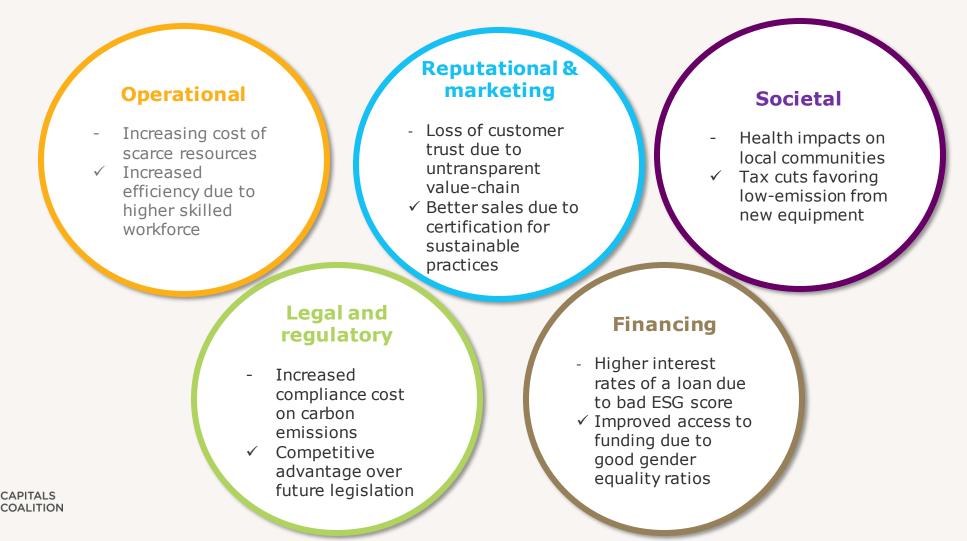
Examples of interactions between capitals





FRAME STAGE: Why? Example of capital risks and opportunities

Many capital **risks and opportunities** are becoming increasingly visible, and **business needs a way to understand and manage these**.



Potential business applications for your capitals assessment



Evaluate impacts & dependencies assess risks a nd opportunit ies



Compare options and transform outcomes



Estimate total/net impact values and commit to targets





Internal and/or external communication & reporting



Potential business applications for your capitals assessment



Evaluate impacts & dependencies assess risks a nd opportunit ies

Real life application



Assessed upstream tomato sauce production to understand how different impact drivers in tomato sauce production create positive impact

Specific objectives

- To quantify the creation of shared value along the value chain from raw materials to product's end of life
- 2. To provide new insights to guide future work.



Potential business applications for your capitals assessment



Compare options and transform outcomes

Real life application

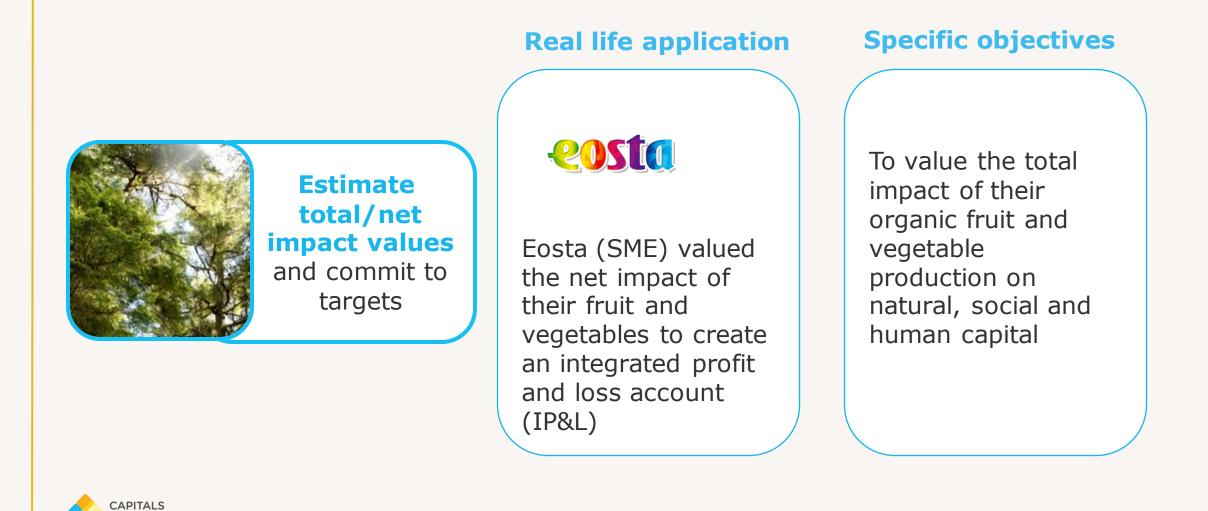
METRO

Metro compared their food delivery services with their supermarket, looking at economic efficiencies and net positive impact on customers **Specific objectives**

To assess the differences in environmental and social costs and benefits between Metro's supermarkets and food delivery services



Potential business applications for your capitals assessment



Potential business applications for your capitals assessment



Assess impact on stakeholders

Real life application



Carried out an assessment to create a tool to reward dairy farmers through supply chain partners and other stakeholders

Specific objectives

To identify new revenue models in the supply chain

To develop KPIs quantify individual dairy farmer contribution to biodiversity



Potential business applications for your capitals assessment



Internal and/or external communication & reporting

Real life application



Olam used a social and human capital assessment to value the impact of agricultural interventions for Indonesian farmers using the Social Return on Investment Framework. The results are in their annual report

Specific objectives

The assessment aims to demonstrate to customers how they positively impact farmers livelihood through:

- Good Agriculture Practices training for 10 000 cocoa farmers
- Coaching
- Demonstration plots
- Nurseries support





Reflection exercise



Open your workbook to apply your new knowledge

Potential business application: 5 min

Circle the business application that you could apply for a capitals assessment in your business



Evaluate impacts & dependencies assess risks and opportunities



Compare options and transform outcomes



Estimate total/net impact values and commit to targets

Module 1

Exercise 2





Internal and/or external communication & reporting



Module 1

Chapter 1.7

Summary of lessons learned



Check-in: learning objective acquired 🗸

Now, you have:

- Understood the learning objectives of the training
- Learned about the challenges and the solution to preserve value for nature, people and business
- Been introduced to the TEEBAgriFood Guidelines for business and the first stage: Frame (WHY?)
- Been familiarized and have practiced with the key concepts of the capitals approach:
 - natural, social, human and produced capital
 - stocks and flows
 - impacts and dependencies
 - risks and opportunities
- Been inspired by potential **business applications** and how a capitals assessment could be used in your own business context



Key highlights

- Nature loss, climate change and rising inequality are major challenges. The planet and societies has boundaries, that if overshoot, represents serious risks to business.
- A capitals approach is a solution to preserve and create values. It focuses on impacts and dependencies and goes beyond measurement to include valuation.
- Sy including the value of all capitals in their decisions, business can be part of the solution to **deliver a fairer, just and more sustainable world**.
- Capital describes asset that stores or provides value to people. If we invest in them, they create value. If we degrade, we erode value.
- Natural, human, social and produced capitals are interconnected. The framework brings additional insights into the Sustainable Development Goals
- Capitals Coalition started as TEEB for Business. The TEEBAgriFood framework analyses how the capitals interact with the agri-food value chain and how they contribute to well-being.



Key highlights

The TEEBAgriFood Operational Guidelines for Business has four-stages: frame, scope, measure and value, apply. It can be used to inform strategy, achieve sustainability goals, improve reporting, enhance accounting practices and inform investment priorities.

The frame stage ask the question "why should you conduct a capitals assessment"? To get started, understand stocks, flows and value, define the context and identify risks & opportunities.

There are several business applications:

- evaluating impacts and dependencies and assess risks and opportunities
- stimate net impact values and commit to targets
- compare options and transform outcomes
- internal external communication and reporting
- * assess impacts on **stakeholders**.

 To apply this to your business you are invited to answer the questions of the Frame Stage in the user template

Collaborative online platform



TEEB AgriFood

Joined 🔻

Live feed Members Events Media center Forum

TEEB AgriFood Community



