

Dissemination in the educational arena

For a complete understanding of what NEPTUNUS Project is, different presentations, videos, teaching cards and educational plays please access <https://neptunus-project.eu>

What it is the NEPTUNUS Project?

The NEPTUNUS project aims to promote the sustainable development of the seafood sector in the European Atlantic Area. The project will provide key actions for resource efficiency based on life cycle thinking, incorporating producers

Two objectives under a life cycle thinking approach

1 Introducing **green economy strategies** and incorporating competitive products into green markets **promoting eco-labelling under a NEXUS approach.**



2 Developing **strategies and policies based on circular economy and cradle-to-cradle principles** that deliver new products and working systems to the seafood sector.



Why dissemination in the regional educational arena?

Considering the public nature of the NEPTUNUS project, the results should be transmitted to society, by informative, technical and scientific channels. The different actions of the NEPTUNUS Project the results must be disseminated among the interested parties, including dissemination in the regional educational arena. The dissemination covers different targets (beneficiaries, public, decision makers) and channels (online, offline) to raise awareness about the objectives and results. It will contribute to lay the foundations for the “Science with and for Society” knowledge-base.

NEXUS, Life cycle thinking, eco-labelling, sustainability, circular economy, resources...

A funny adventure of knowledge begins!



Interreg
Atlantic Area
European Regional Development Fund



NEPTUNUS
(EAPA_576/2018)

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A Life Cycle Thinking




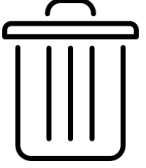
Absolutely everything that is created goes through a series of life cycle stages, from material extraction from Nature through to end of life (when we throw away what we don't want).

The Life Cycle Thinking is like a magic mindset that provokes a producer to be thinking environmental consequences, well before anything has happened, so that the decisions made ultimately allow for maximizing the environmental benefits of what is created.







Life Cycle Thinking in the seafood sector

List some resources consumed in the different stages of the fish life cycle.

Harvest	Produce	Consum	Dispose
			
<u>fishing net</u>	<u>oil to preserve food</u>	<u>electricity for cooking</u>	<u>fuel to transport</u>
_____	_____	_____	_____

List some actions to reduce the resources consumption.

			
<u>repair fishing net</u>	<u>using oil for salads</u>	<u>using renewables energy</u>	<u>using electric drives</u>
_____	_____	_____	_____

2 Circular Economy

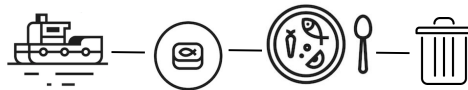
There's a world of opportunity to re-think and re-design the way we make stuff. This is a concept called The Circular Economy. It is based on three principles:

- Design out waste and pollution
- Keep products and materials in use
- Regenerate natural systems

Circular Economy in the seafood sector

- Seafood waste prevention actions (Reduce)
- Measuring an recycling seafood waste (Recycle)
- Reuse waste and by-products

Linear Economy



Circular Economy



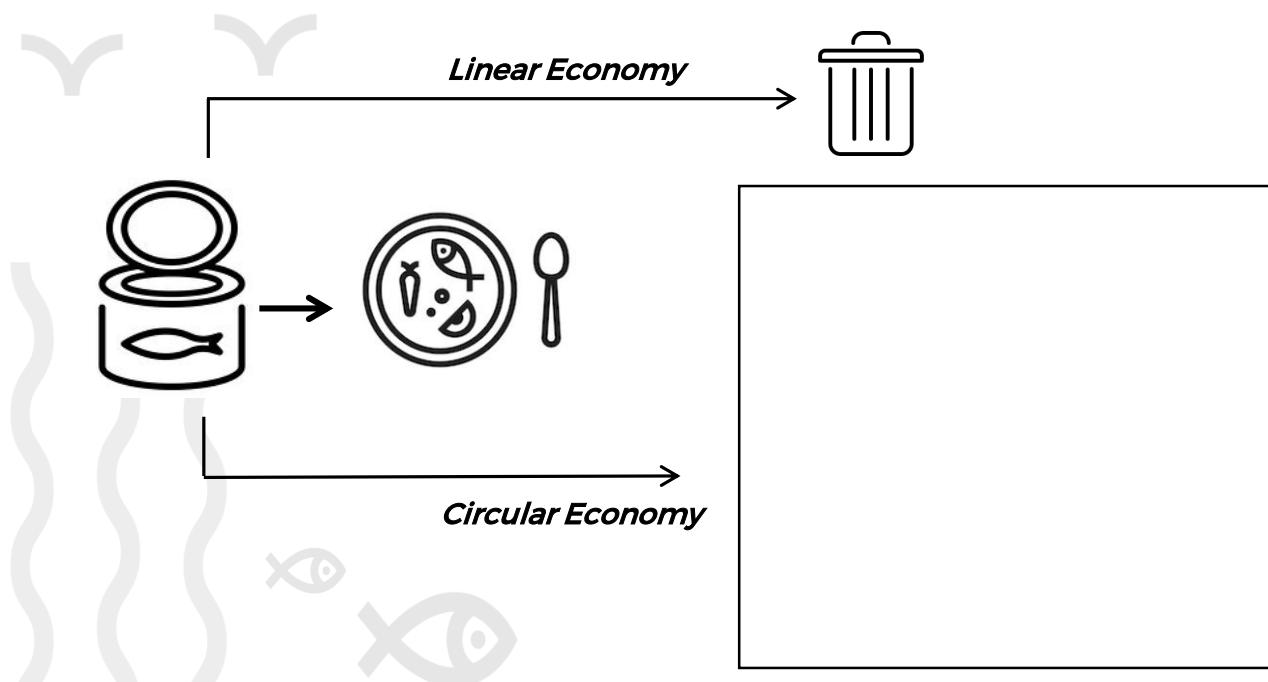
What do we know about the circular economy?

Complete the quiz

- | | | |
|--|--------------------------------|-------------------------------|
| • The circular economy is just another name for recycling. | <input type="checkbox"/> False | <input type="checkbox"/> True |
| • In a future circular economy we could rent tech instead of owning it. | <input type="checkbox"/> False | <input type="checkbox"/> True |
| • Products for the circular economy need to be easily dismantled and recycled. | <input type="checkbox"/> False | <input type="checkbox"/> True |
| • All waste is bad for the environment. | <input type="checkbox"/> False | <input type="checkbox"/> True |

Putting the circular economy into practice

Use your imagination to create a reusable object from the can



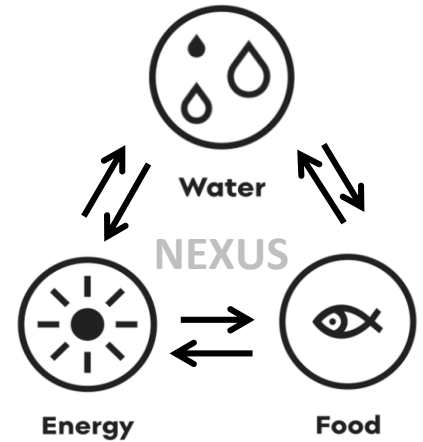
3

The Water-Energy-Food NEXUS

Water, energy and food are essential for human well-being, poverty reduction and sustainable development.

- Water is used for food production and transport energy.
- Food production and consumption consumes a lot of energy.
- Energy is required to produce, transport and distribute food as well as to extract, pump, lift, collect, transport and treat water.

A Nexus approach helps us to better understand the **complex interrelationships between water, energy and food**, so that we can use and manage our limited resources sustainably. It forces us to think of the impacts a **decision in one sector can have not only on that sector, but on others**.



Thinking about the NEXUS in the seafood sector

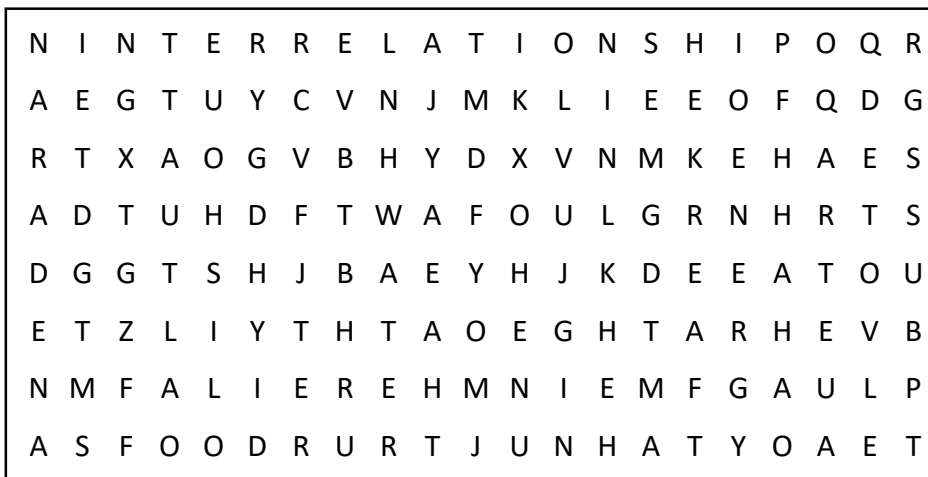
Indicate if the following actions affect the consumption of water and energy, the obtaining of food, or all.

- Fishing near the coast
- Don't waste fish
- Fish bones to fishmeal

<input type="checkbox"/> Water	<input type="checkbox"/> Energy	<input type="checkbox"/> Food
<input type="checkbox"/> Water	<input type="checkbox"/> Energy	<input type="checkbox"/> Food
<input type="checkbox"/> Water	<input type="checkbox"/> Energy	<input type="checkbox"/> Food

Write your conclusion

Five concepts related to the NEXUS in this word search puzzle



4

Promoting eco-labelling under a NEXUS approach

An ecolabel identifies products or services proven to be environmentally preferable.

The ecolabel on seafood products guarantees the seafood has come from a sustainable source and certified fishery.








The NEPTUNUS project aims to obtain an ecolabel based on three indicators:

- Nutritional content → better if it has more nutrients
- Energy consumption → better if it has less emissions
- Water consumption → better if it has less water consumption



Discovering a Nexus ecolabel

What fish would you buy?

			
 Water	819 kg water/50 g product	Not Available	990 kg water/50 g product
 Energy	314 g CO ₂ /50 g product	Not Available	360 g CO ₂ /50 g product
 Food	12.5 g protein/ 50 g product	Not Available	41 g protein/ 50 g product
Selection			