



WABESCO

Wheel of Assessment for Blue Ecosystem Services of a Company - WABESCO

- April 2022 – March 2024
- Development of the MESAT tool for qualitatively assessing the ES performance of marine zoning, projects and blue growth companies
- **Linkage** with SDG's & with EU Taxonomy , providing management framework
- Development of the NESEV advanced numerical dynamic network model for quantitatively valuing changes in the ES of a project, area or company
- Joint case studies focussing on marine sectors
- Permits to **estimate and/or measure** the eco-societal **impact** of any product/project/business activity.





Engineering,
talent & soul
for your marine &
river challenge

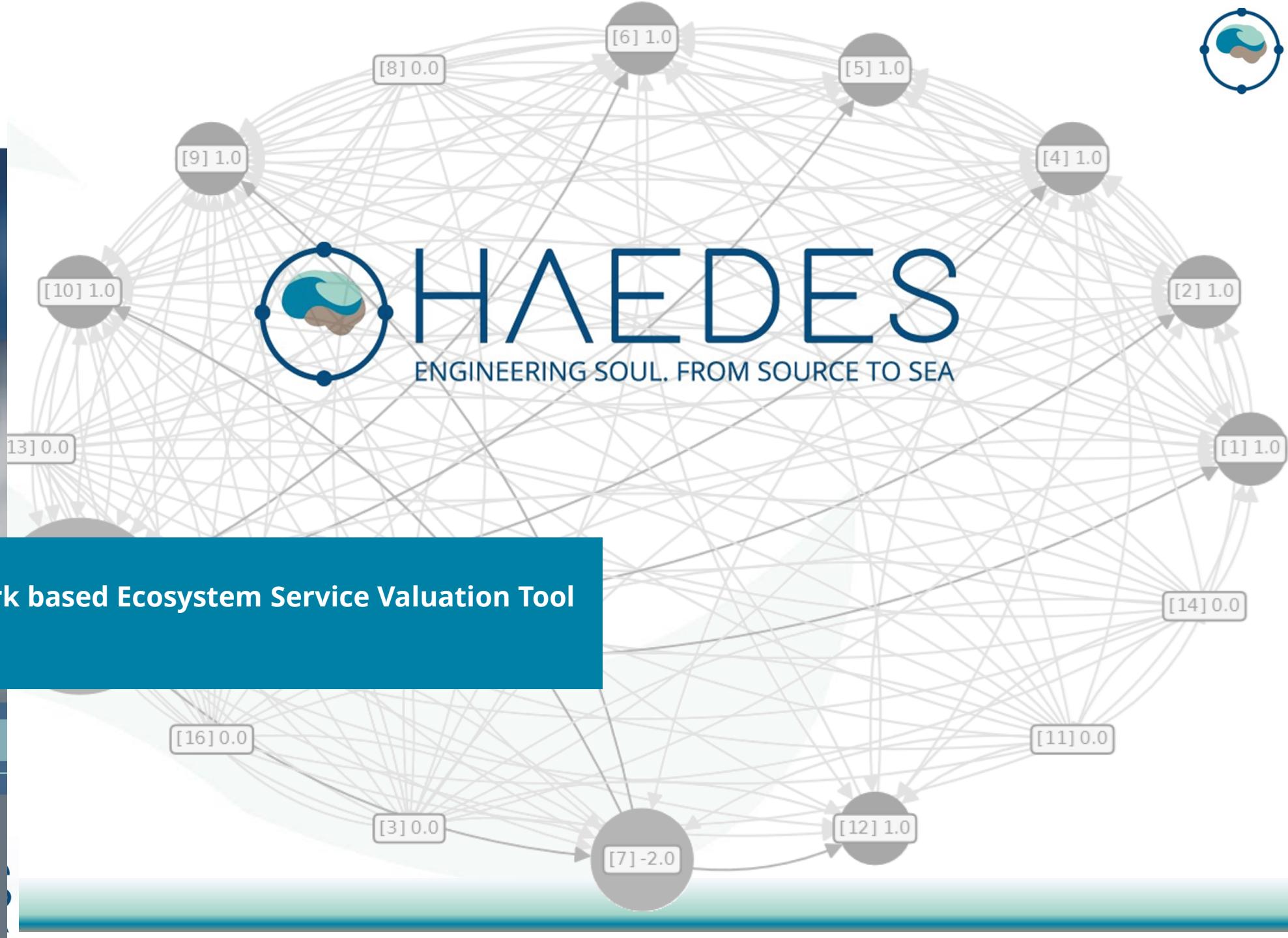


**NESEV
TOOL**

www.haedes.be

The Network based Ecosystem Service Valuation Tool

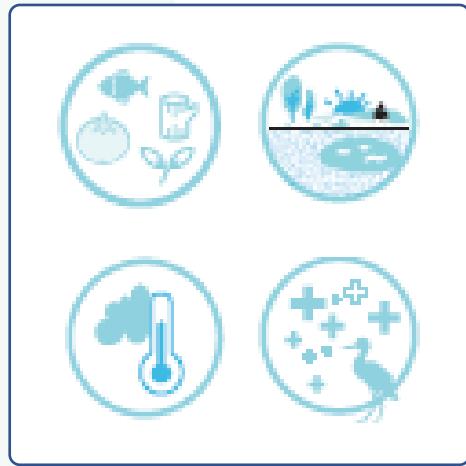
HAEDES
ENGINEERING SOUL. FROM SOURCE TO SEA



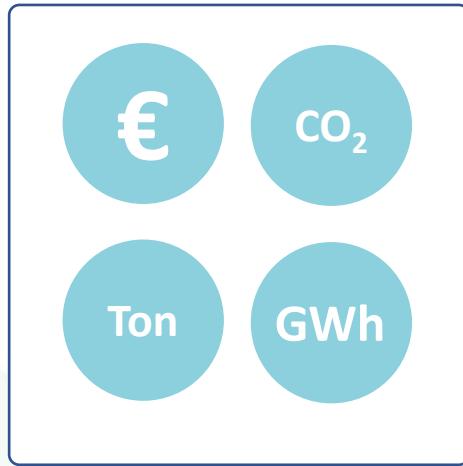


Introducing: NESEVtool

HIGHLIGHTS



**SUPPORTS
VALUATION OF
ECOSYSTEM
SERVICES**



**ACCOUNTS FOR
MULTIPLE
CURRENCIES**



**VISUALIZES
VALUE
NETWORKS**

PLATFORM



Open source / client tool



No-code solution
Ease of use



Open API
Better interoperability

USERS

Business users
(non-technical professionals)

Project developers

Decision-makers

Researchers



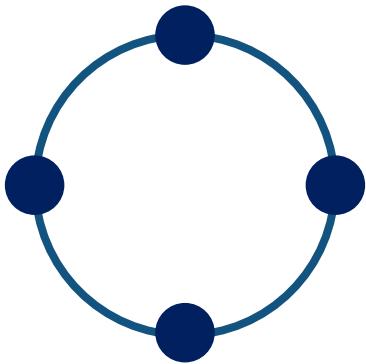
What NESEV helps you to do

ASSESS TOTAL BENEFITS

By supporting the **valuation of ALL** (social, economic and ecologic) outcomes of projects and businesses activities

CAPTURE VALUE CREATION

Helping to articulate **how value flows** across beneficiaries and sectors in the ecosystem



SUPPORT DECISION-MAKING

Integrating socio/eco/enviro considerations (risks, opportunities, dependencies) into decision-making processes

COMMUNICATE IMPACT

Enabling organizations to **demonstrate accountability** for impacts on the environment, economy and people



NESEV Tool

File ▾ Valuate

Log In

Node	Description
1	Inland shipping
2	Local business
3	Real estate and construction sector
4	Energy industry
5	Agriculture & Aquaculture
6	Industries
7	Drink water production
8	Road transport
9	Local community
10	Tourism
11	River bank
12	Valley
13	Water column
14	Air
15	Land use
16	Sewage water tretament

Nodes Links Tables Network Results

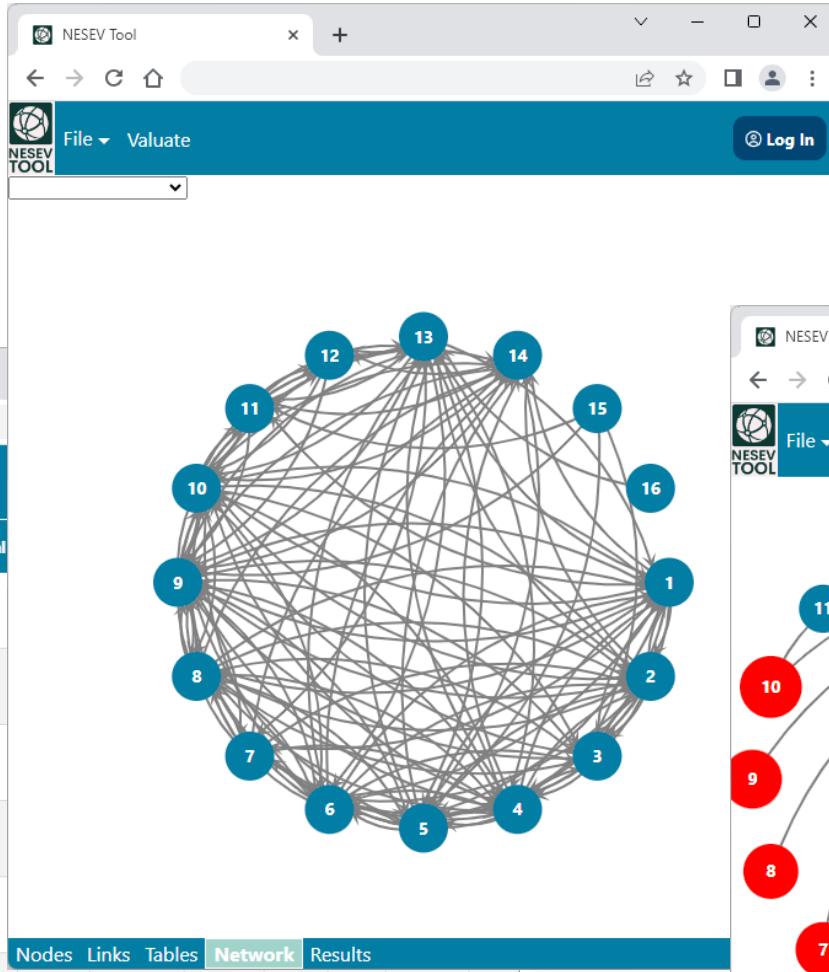
NESEV Tool

File ▾ Valuate

Log In

nr.	source	target	Virtual
0	Agriculture & Aquaculture	Air	
1	Agriculture & Aquaculture	Energy industry	
2	Agriculture & Aquaculture	Industries	
3	Agriculture & Aquaculture	Inland shipping	
4	Agriculture & Aquaculture	Local business	
5	Agriculture & Aquaculture	Local community	
6	Agriculture & Aquaculture	Road transport	
7	Agriculture & Aquaculture	Water column	
8	Air	Agriculture & Aquaculture	

Nodes Links Tables Network Results



NESEV Tool

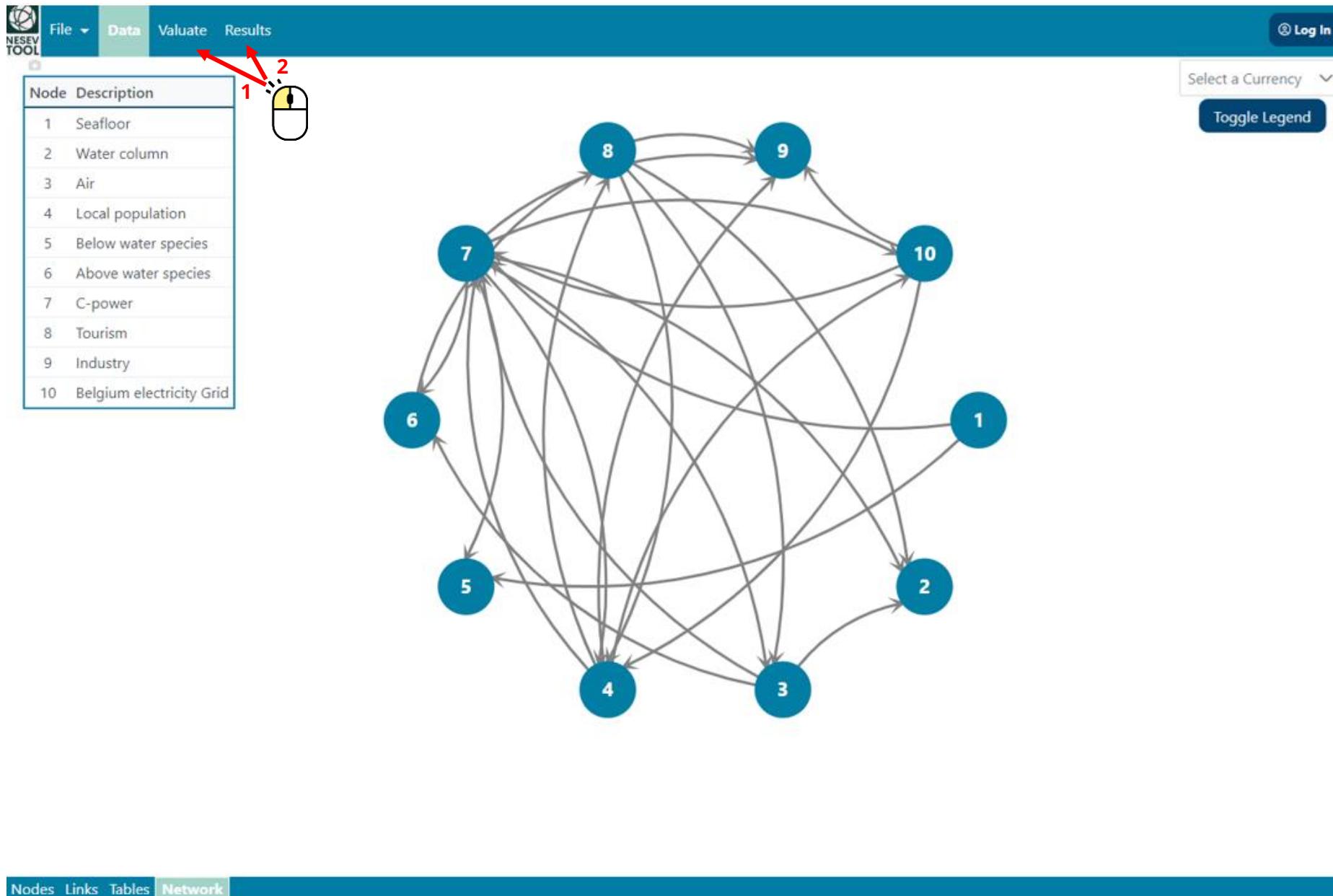
File ▾ Valuate

Log In

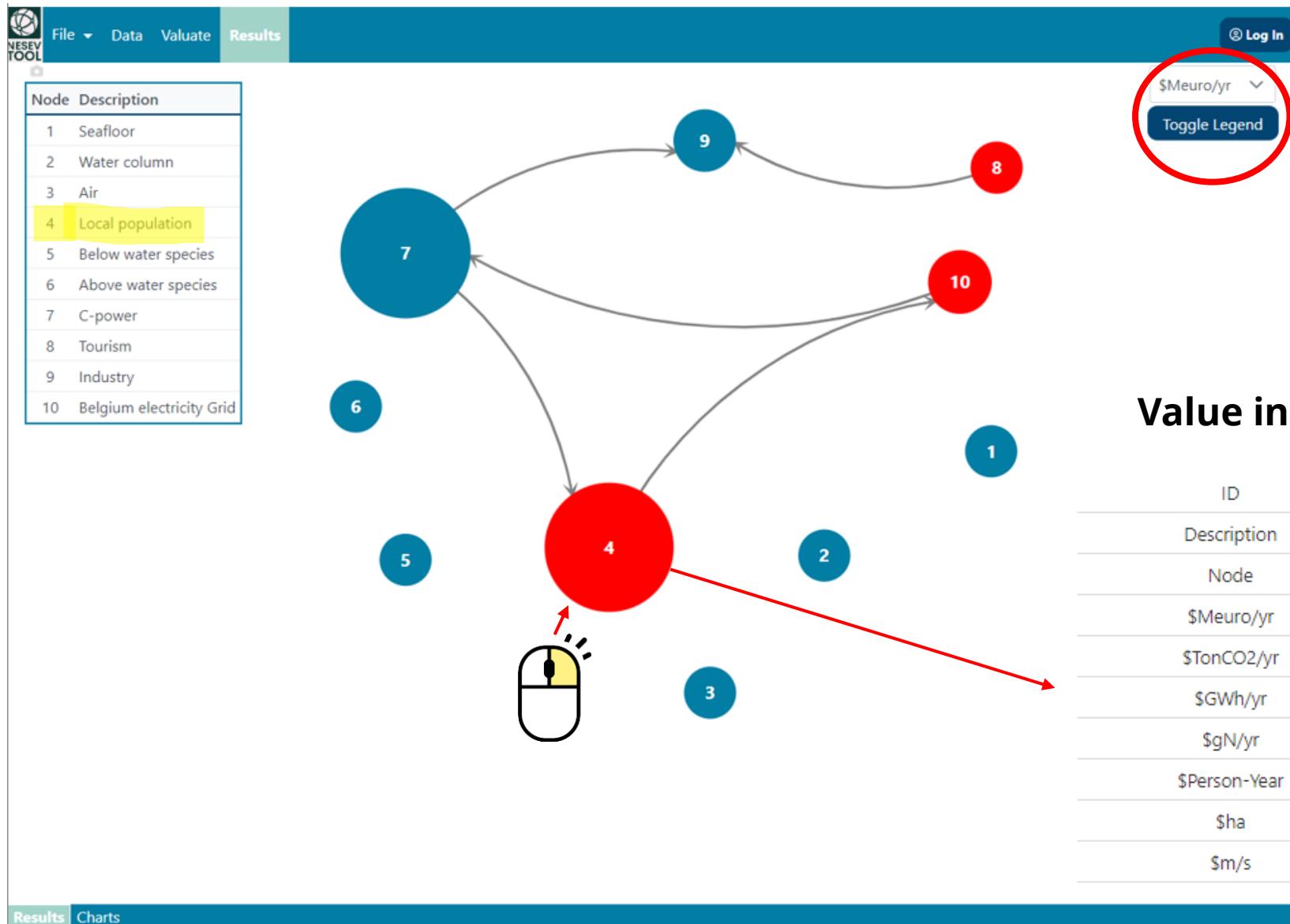
ID	Description	Value
1	Energy industry	24
2	MEuro	-2.2
3	MtonCO2	-58716.21
4	GWh	2.1
5	Mton	-1
6	NO3	

Nodes Links Tables Network Results

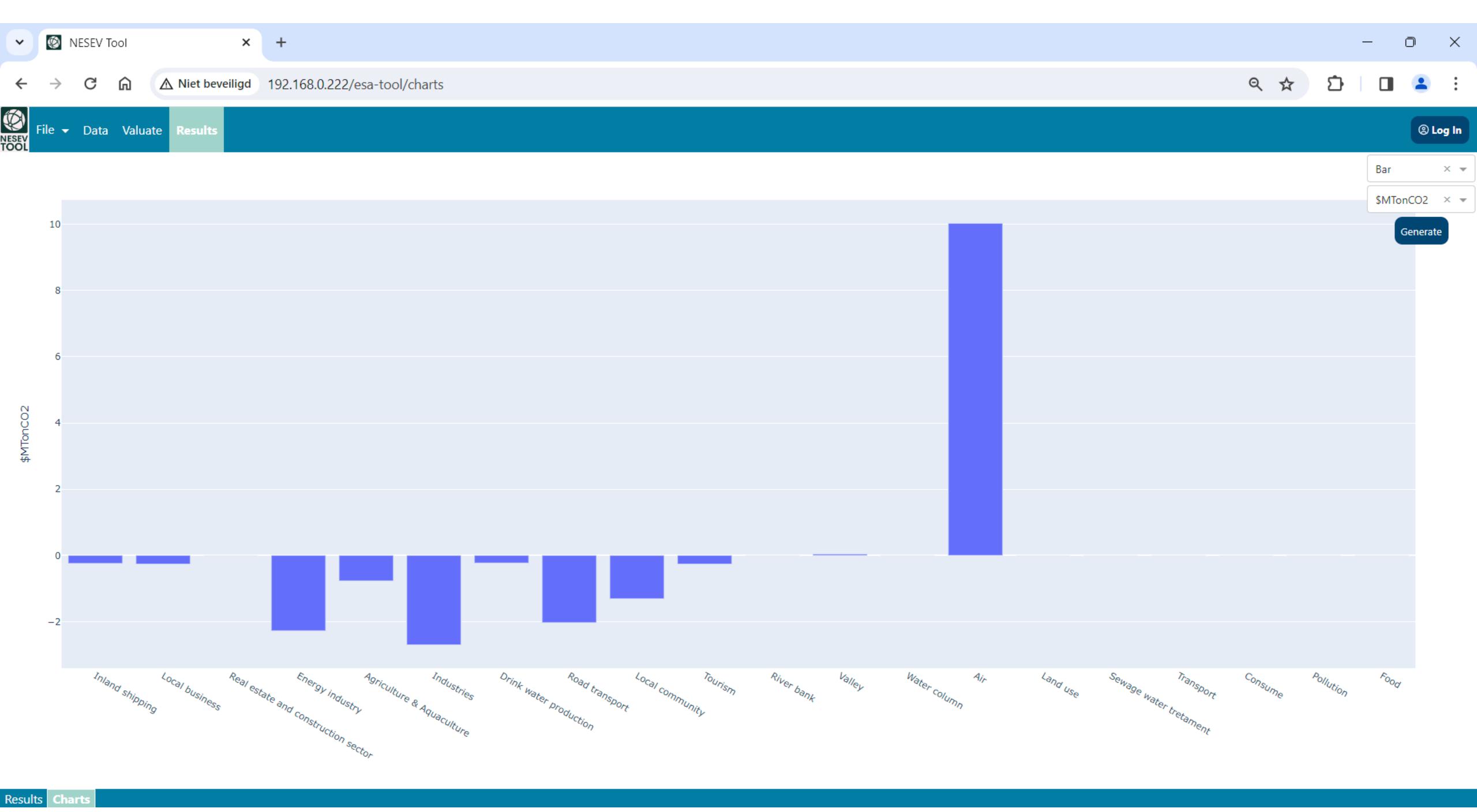
Example network offshore wind energy

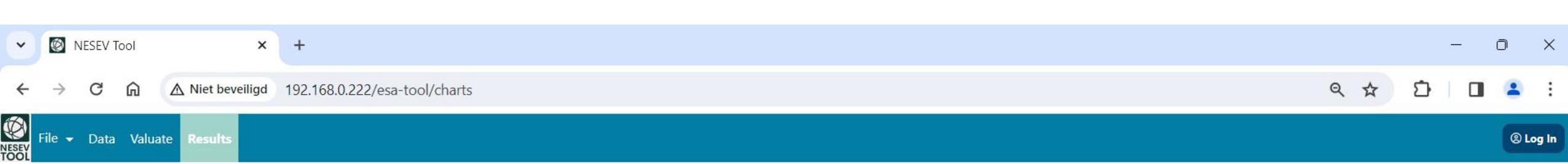


Actor “local population”



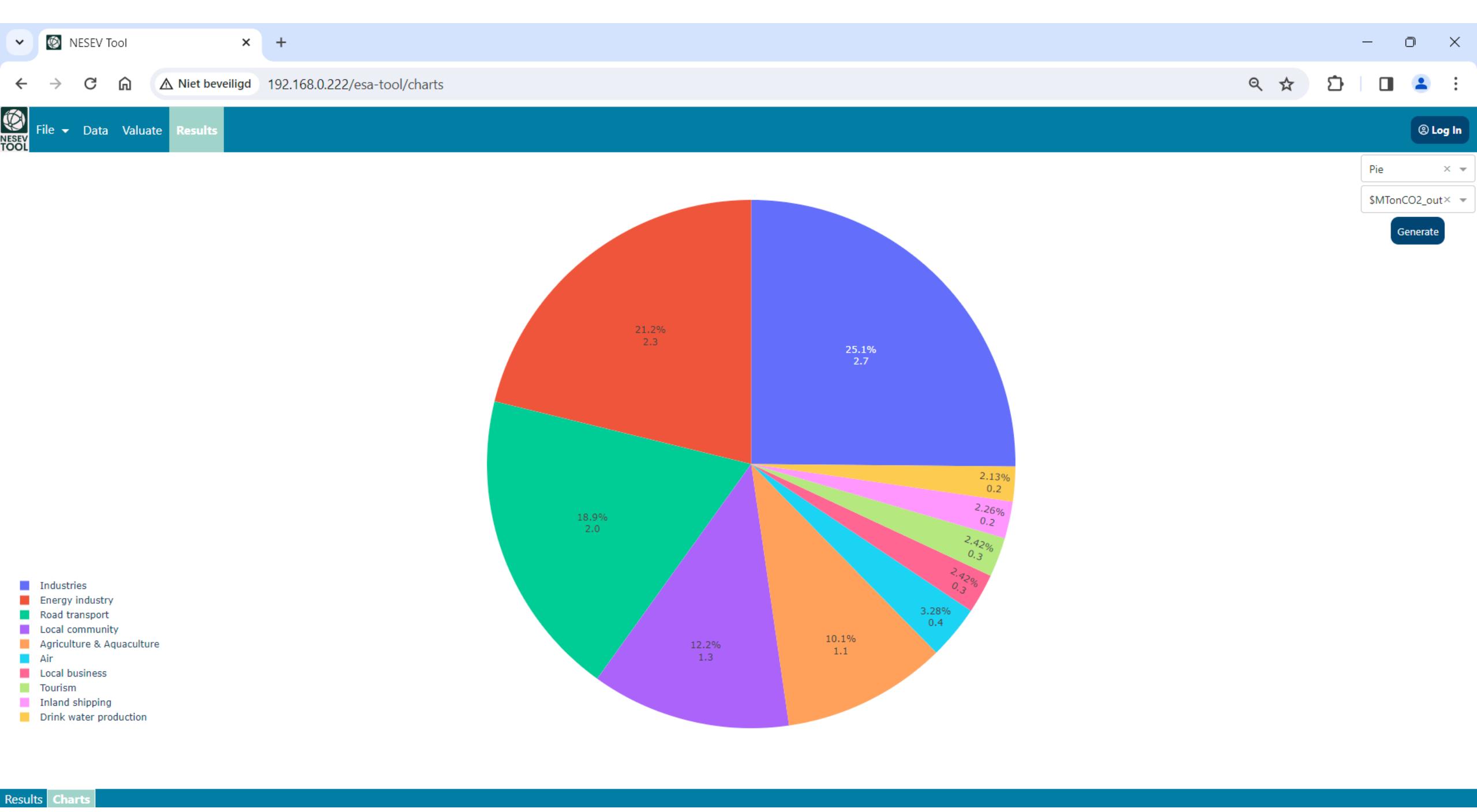
Value in different currencies





Radar
\$MTonCO2_out

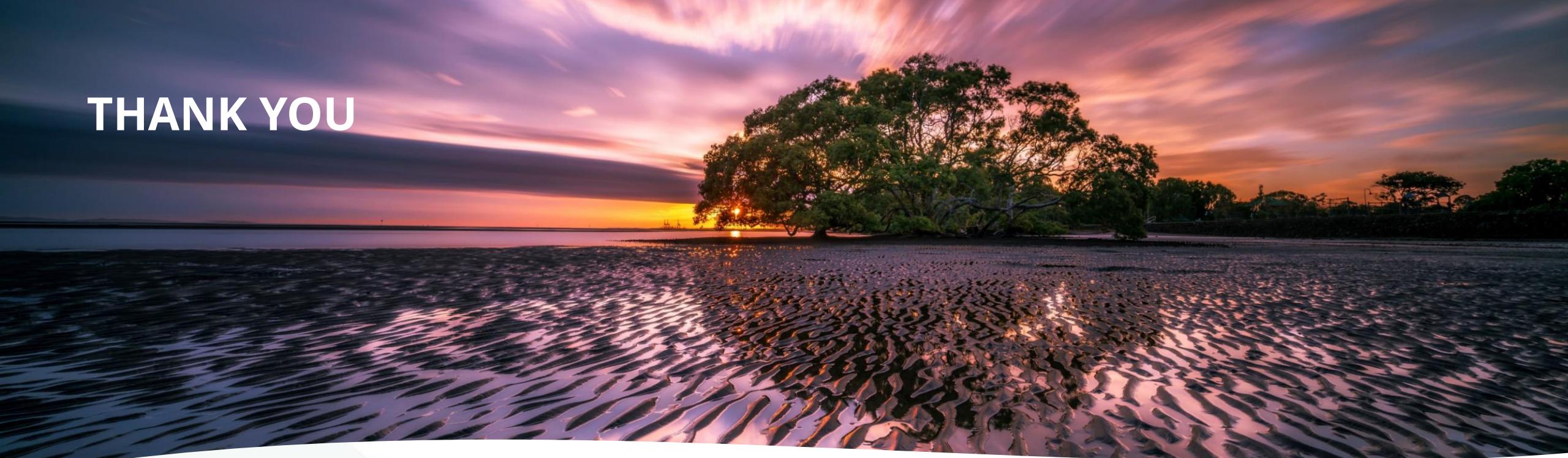
Generate





Current (inter)national use cases

- Offshore energy & nature protection
- Offshore aquaculture & nature protection
- Inland waterways & ports
- Estuarine mangroves
- Natural flood plains (flooding, drought, nature)
- Peatland areas (agriculture, nature, floods)



THANK YOU

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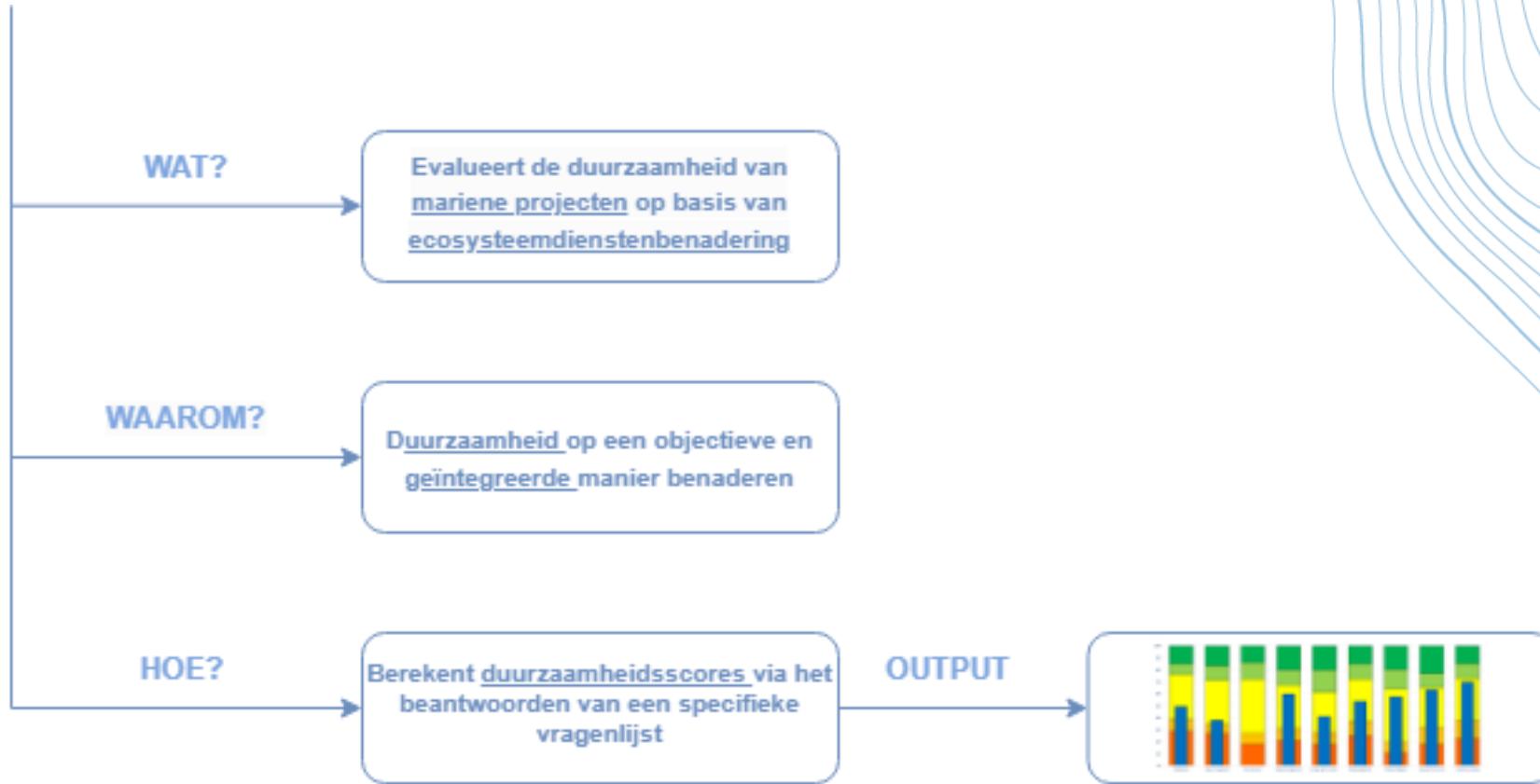
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MESAT

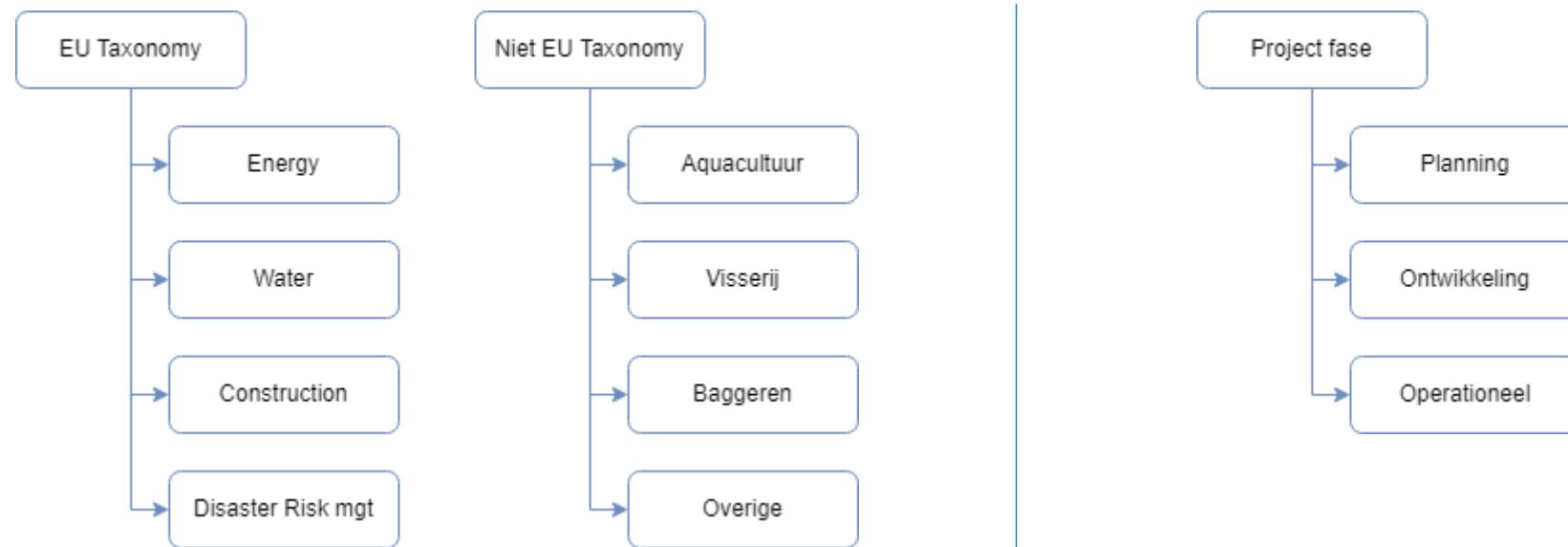
Marine Ecosystem & Sustainability Assessment Tool

MESAT

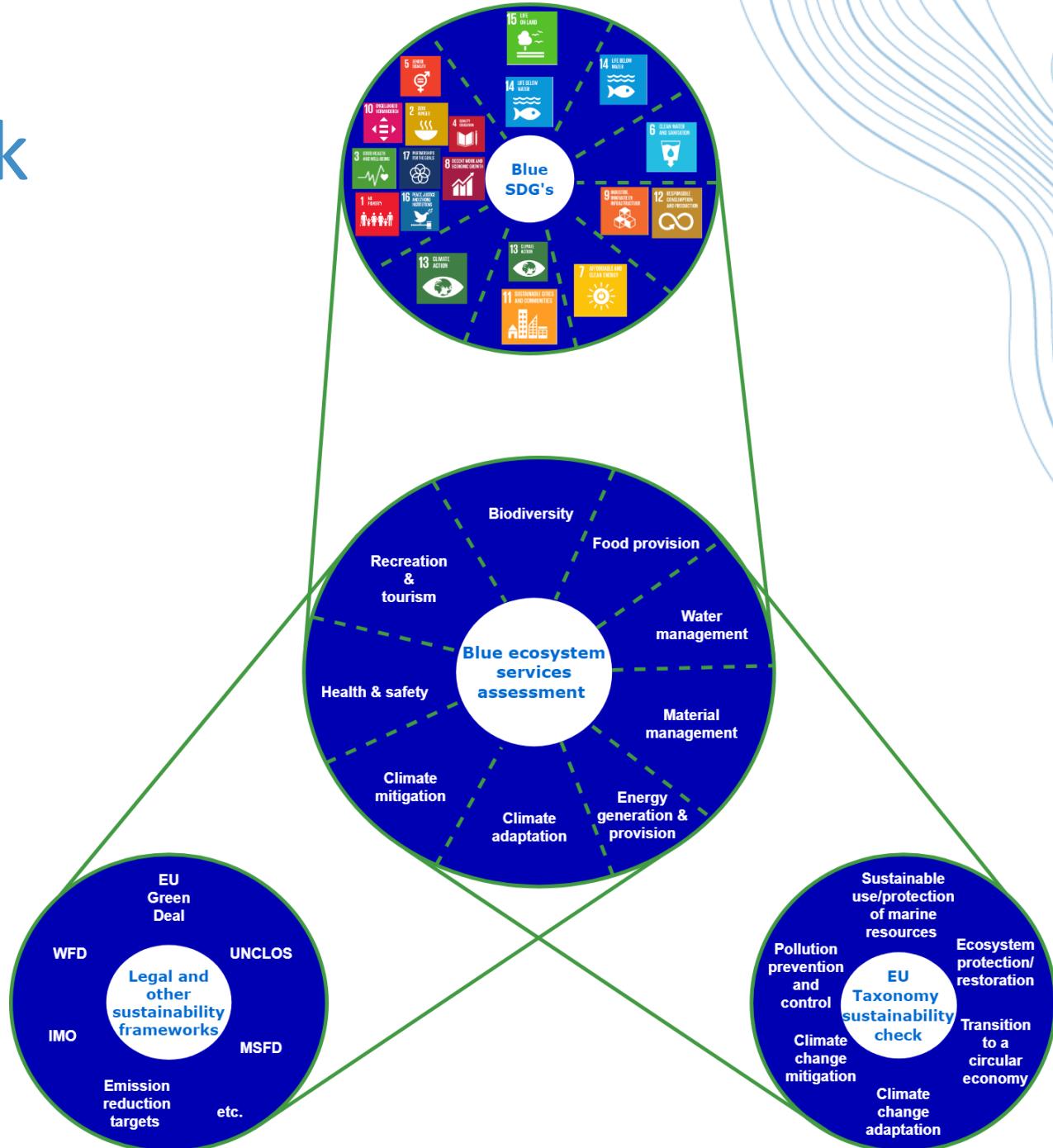


Huidige scope

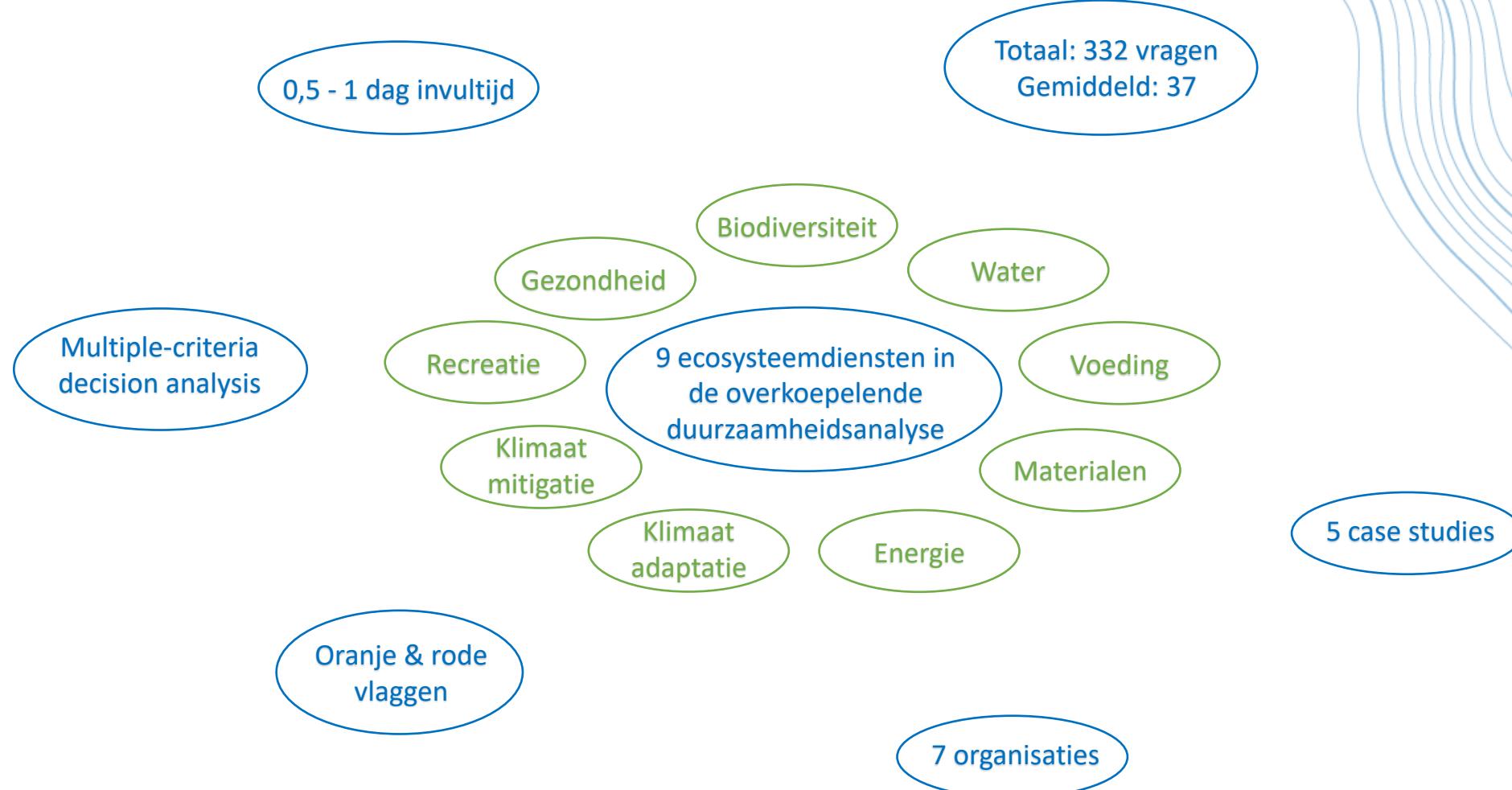
- Mariene projecten
- Geografische scope → tot aan de kustlijn
- 4 EU Taxonomy sectoren → 10 activiteiten
- ≠ projectfasen



Methodiek

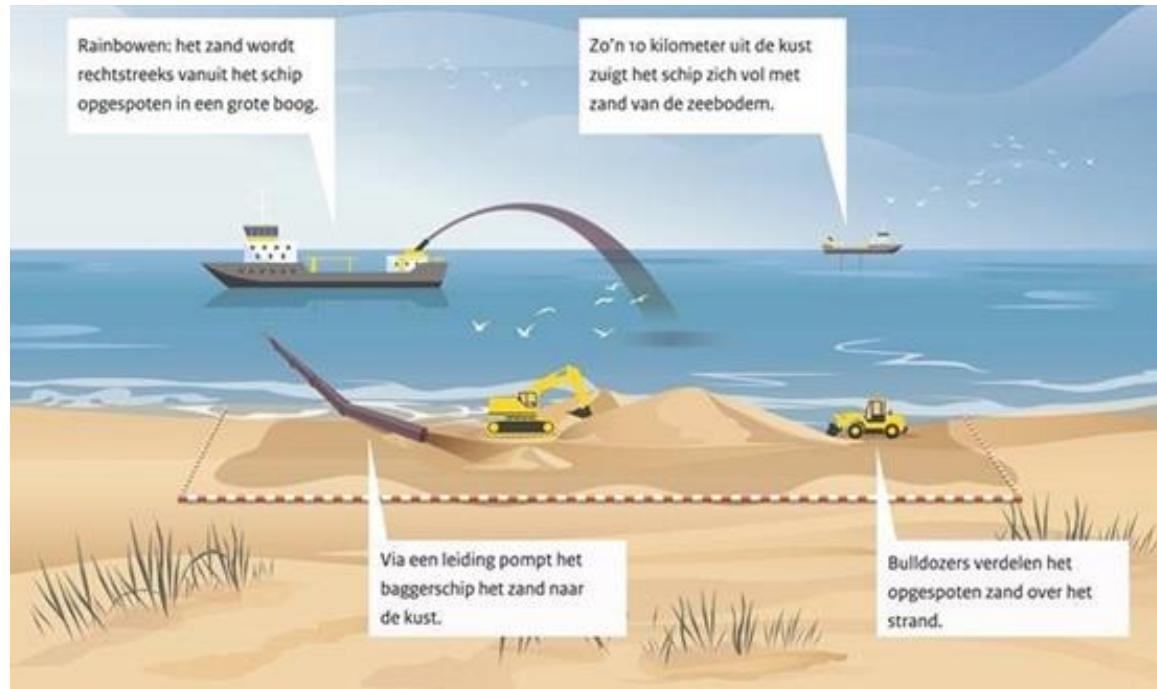


MESAT in 7 weetjes

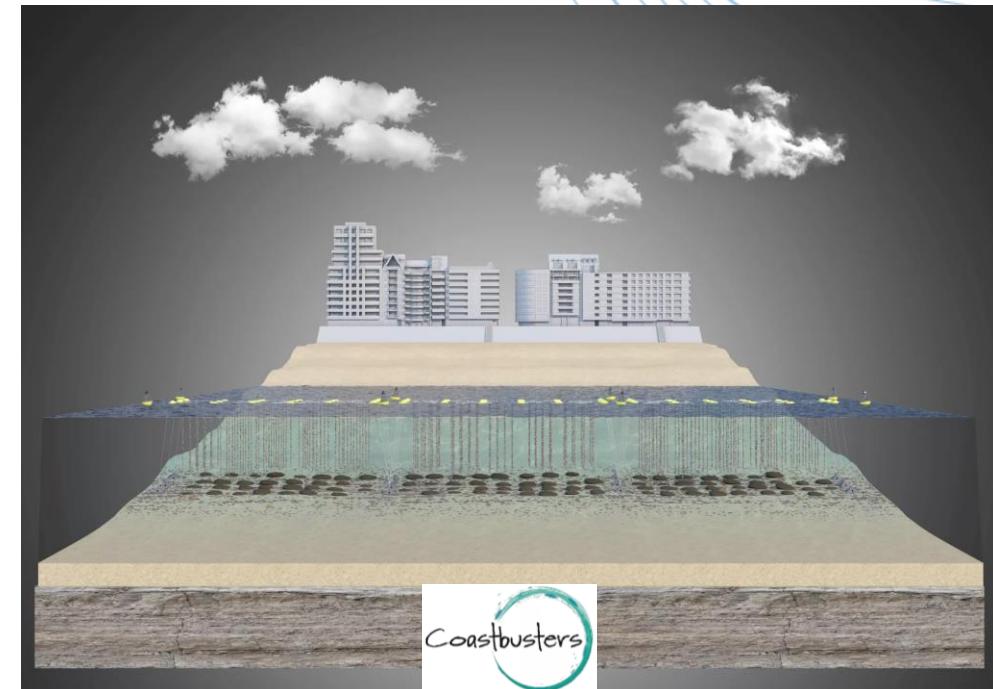


Resultaat

Zand suppletie

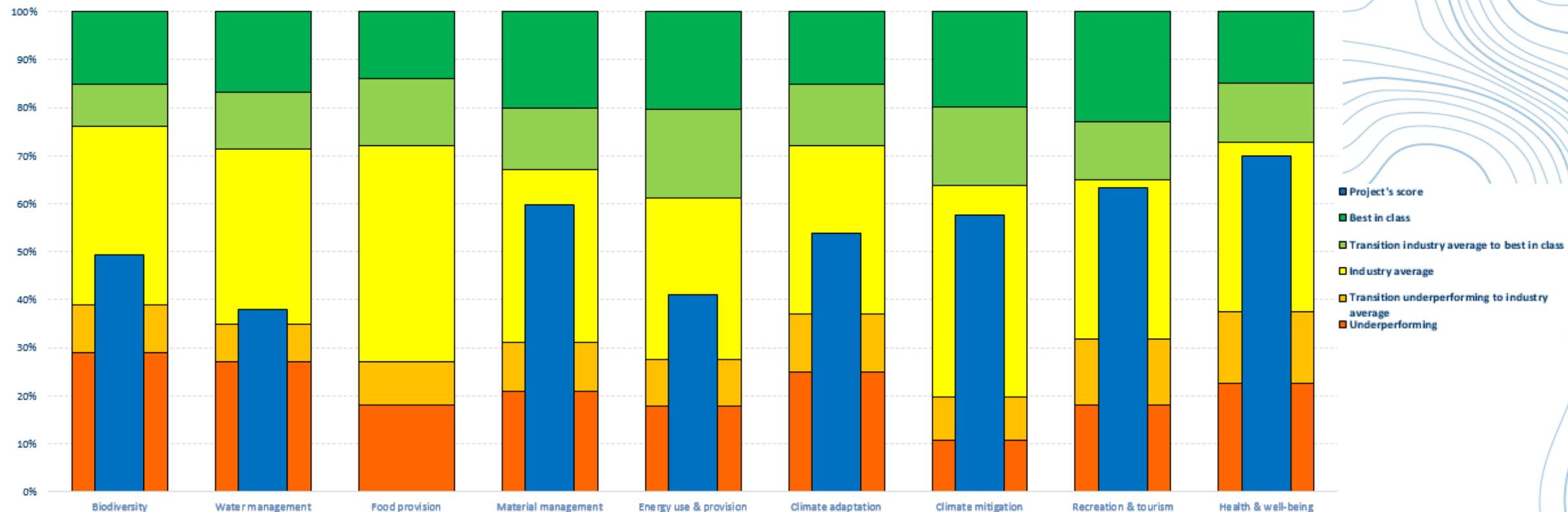


Natuur gebaseerde kustverdediging



Resultaat

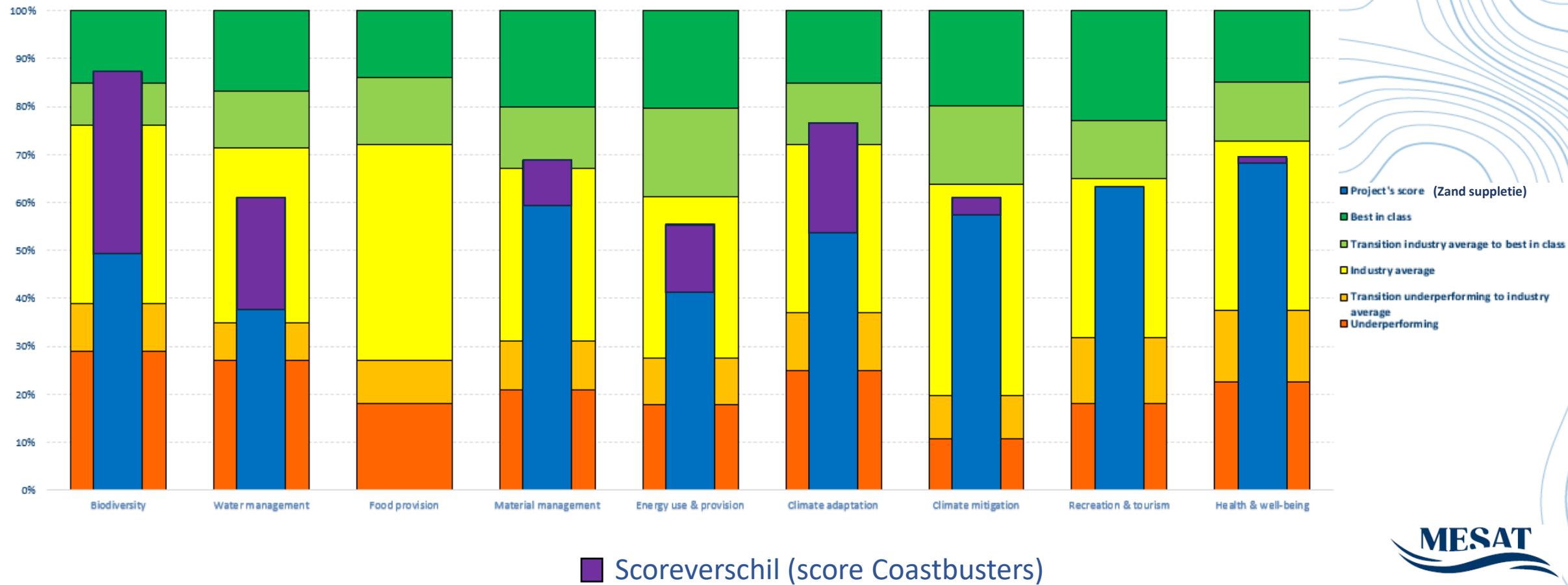
Zand suppletie





Resultaat

Natuur gebaseerde kustverdediging



Een blik op de toekomst

- MESAT is een levende tool in volle ontwikkeling
 - Uitbreiding naar alle sectoren binnen blauwe economie
 - Optie diepgaande projectscenario vergelijking
 - Stelselmatige uitbreiding naar land
- Getriggerd om de duurzaamheidsscore van uw project te weten?

"Er is een nood aan tools binnen de mariene economie die de duurzaamheid van groene projecten op een objectieve manier kunnen vatten. MESAT kan de meerwaarde van een nature-based solution project kwantificeren en overzichtelijk weergeven. Zo kan het verbeterpunten aanreiken, greenwashing vermijden en stakeholders informeren."

Bedankt!



Is er nog iets
onduidelijk?



Heeft u nog een
vraag?



Stuur ons
gerust een mail.

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