



SUPPORTING MARINE STRATEGY FRAMEWORK DIRECTIVE INDICATOR DEVELOPMENT.



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Promoting Effective Governance
of the Channel Ecosystem
Promouvoir une gouvernance efficace
de l'écosystème de la Manche

- Interreg IVA projects have used and/or developed several types of ecosystem dynamic indicators.
- They could potentially be used to **assess or monitor** progress towards achieving “**Good Environmental Status**” (GES) of the marine ecosystem, as required by the European Union “Marine Strategy Framework Directive” (MSFD).
- The various potential indicators used and developed were mostly aligned with the descriptors: **Biological diversity D1 and Commercial fish D3**.
- However, **research gaps** were observed in the areas of **marine litter** and **underwater noise/energy** descriptors.

- Indicators used or developed in the context of Interreg IVA projects well answer MSFD
- D1 and D3 descriptors of the MSFD were highly represented in Interreg IVA projects.

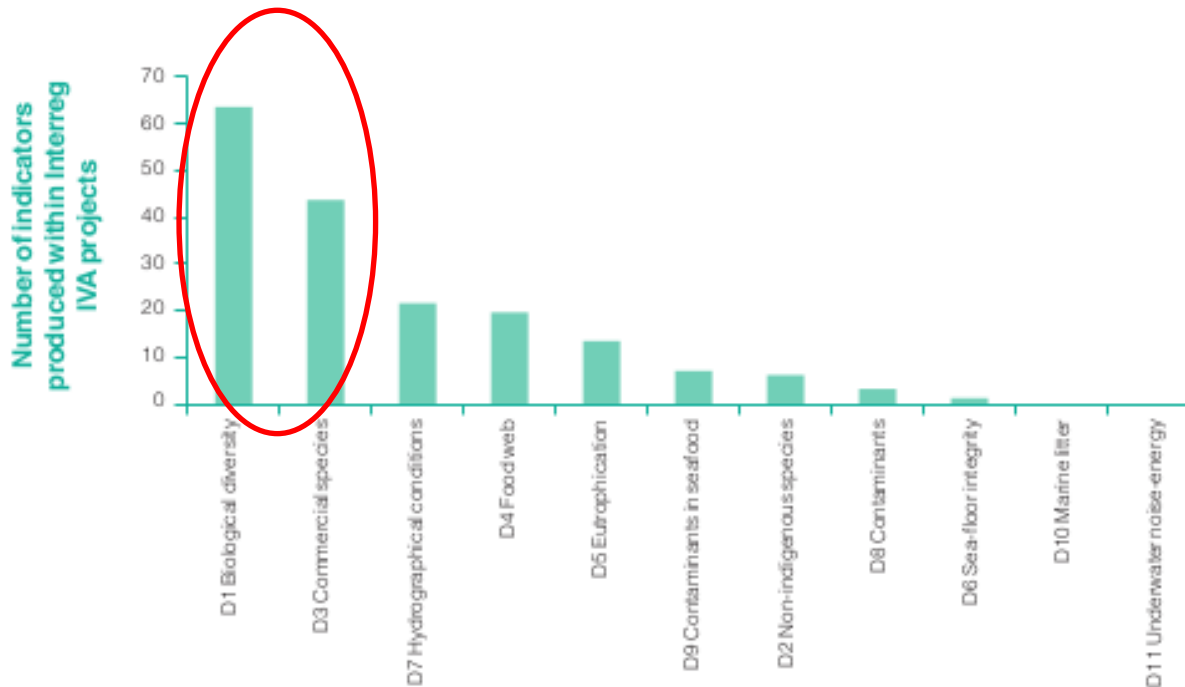


Figure 1: Number of indicators produced within the Interreg IVA projects that could be related to MSFD descriptors.

- Few gaps were identified, with the exception of Marine litter and underwater noise/energy.

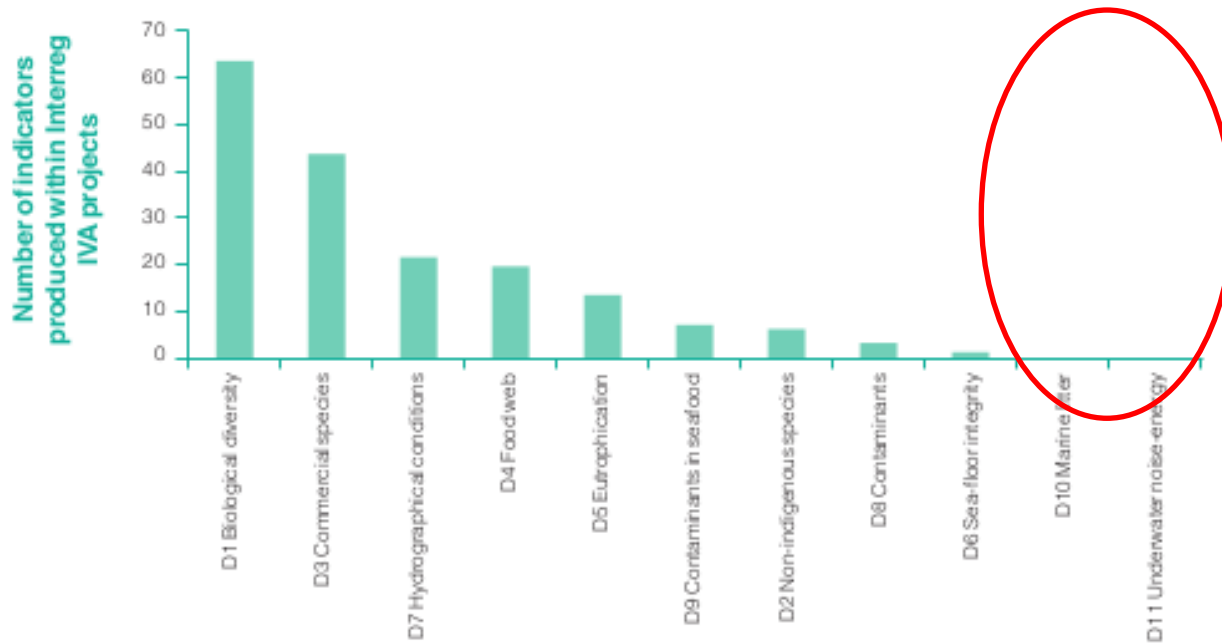


Figure 1: Number of indicators produced within the Interreg IVA projects that could be related to MSFD descriptors.

Descriptors used or produced within the Interreg IVA projects well answered to the following MSFD descriptors:

- Biological diversity (D1)
- Non-indigenous species (D2)
- Exploited species (D3)
- Marine food webs (D4)
- Eutrophication (D5)
- Marine sea-floor integrity (D6)
- Hydrographical conditions (D7)
- Contaminants (D8)
- Contaminants in fish and sea food (D9)

Gaps were identified for:

- Marine litter (D10)
- Marine energies including underwater noise pollution (D11)

Negligible gaps were identified for:

- Biological diversity (community scale and not only population scale D1)
- Non-indigenous species (effects on other biological compartments D2)