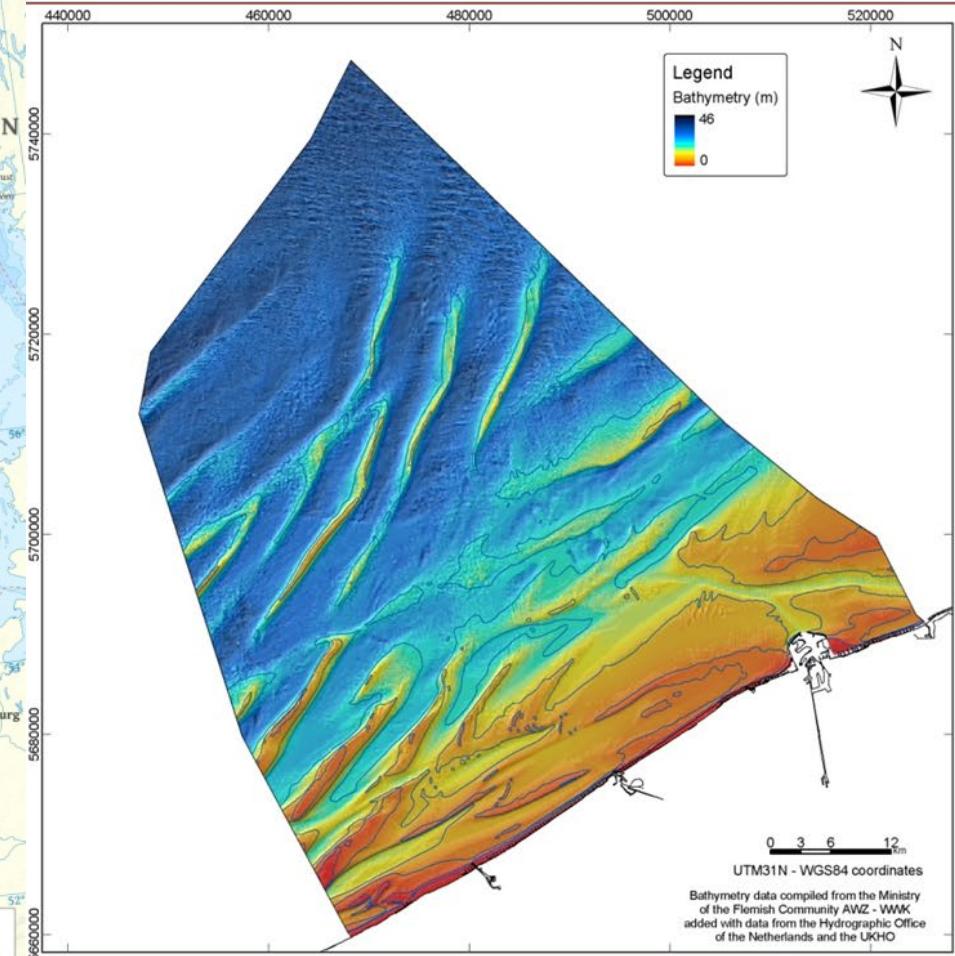




*New technological
perspectives for
ecological evaluation
of soil impacts*

SEMINAR SAND EXTRACTION:
GOLD in the North Sea
October 18, 2024

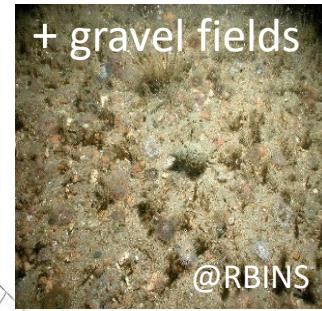
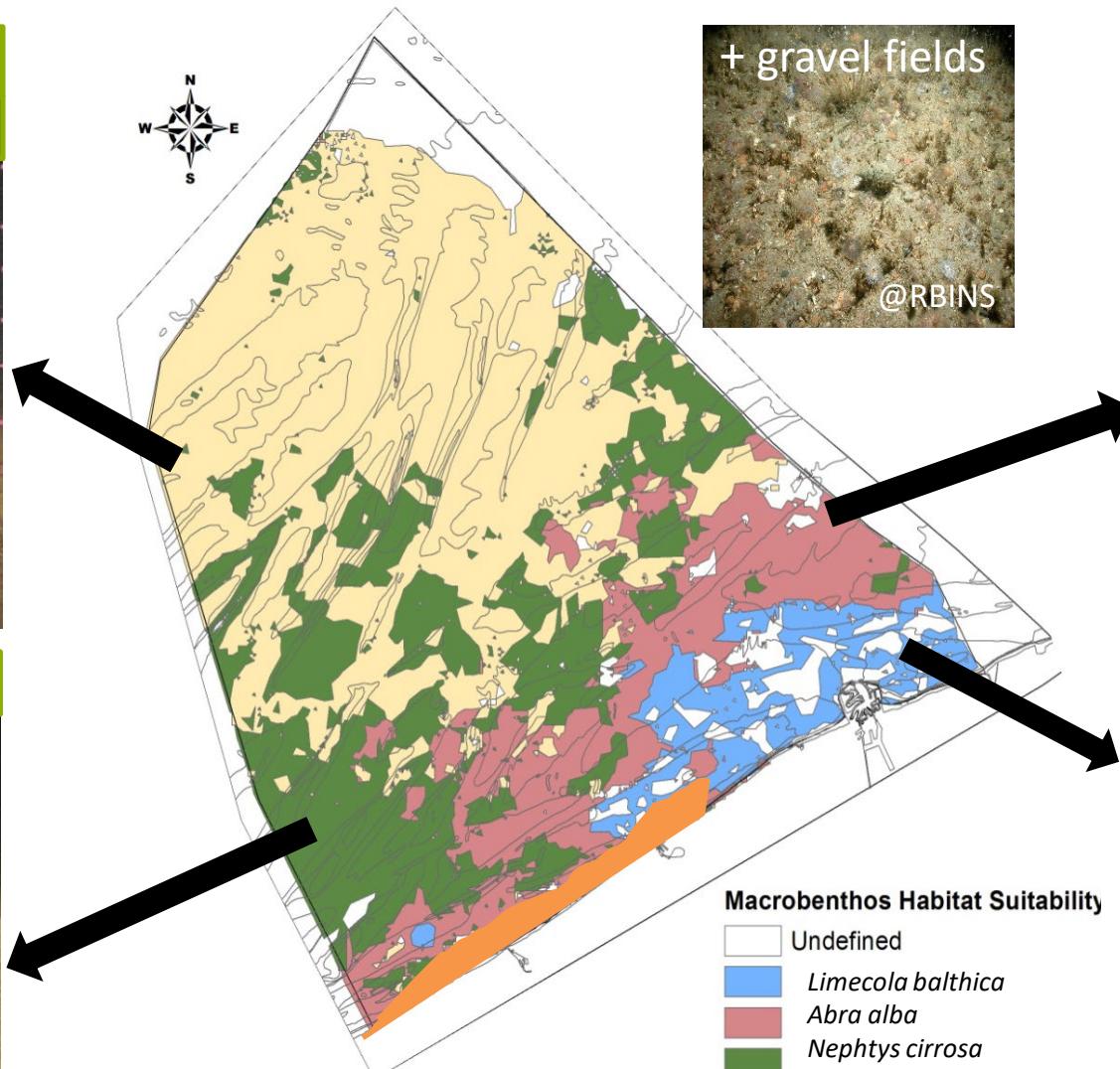
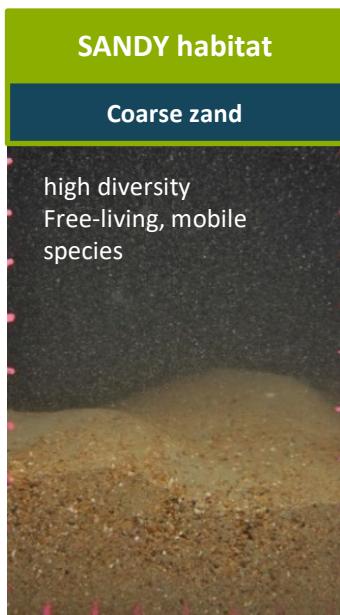
Belgian Part of the North Sea



Bathymetry data compiled from the Ministry of the Flemish Community AWZ - VWK added with data from the Hydrographic Office of the Netherlands and the UKHO

Different sediments and macrobenthic communities

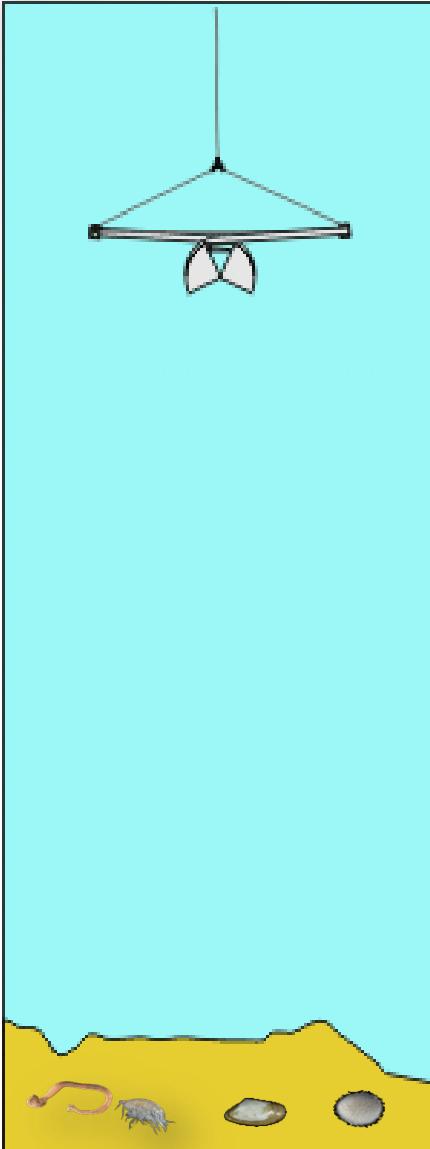
Look at the poster!

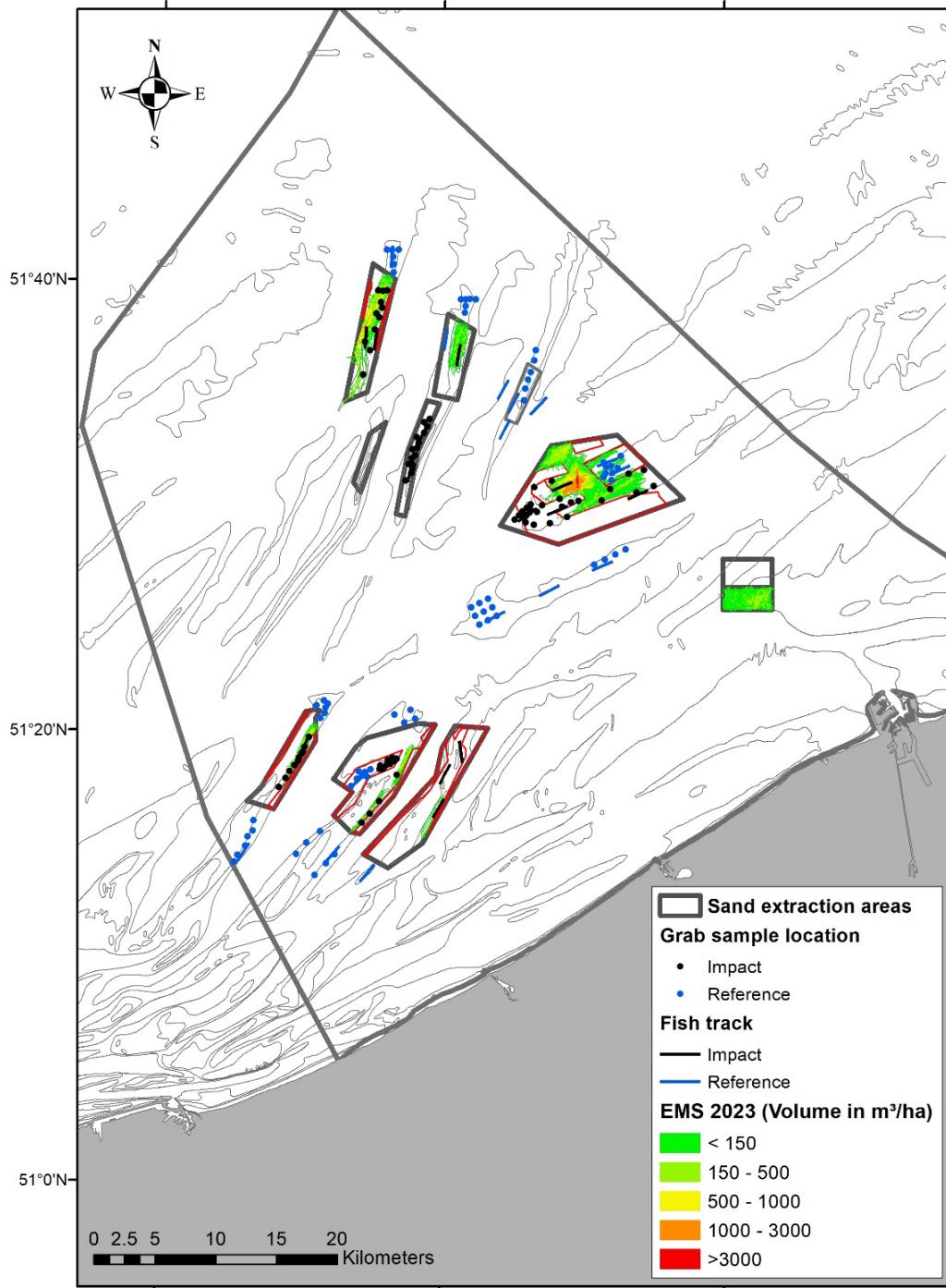


After Degraer *et al.*, 2009

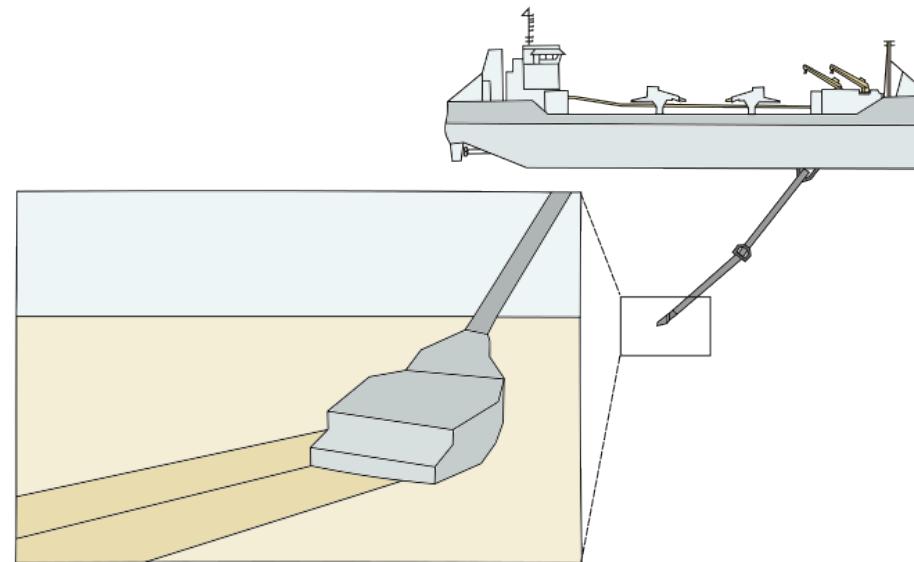
Sampling sediment

Van Veen grab ($\pm 0.1\text{m}^2$)





Sand extraction monitoring at the Belgian part of the North Sea



TO MEASURE IS TO KNOW

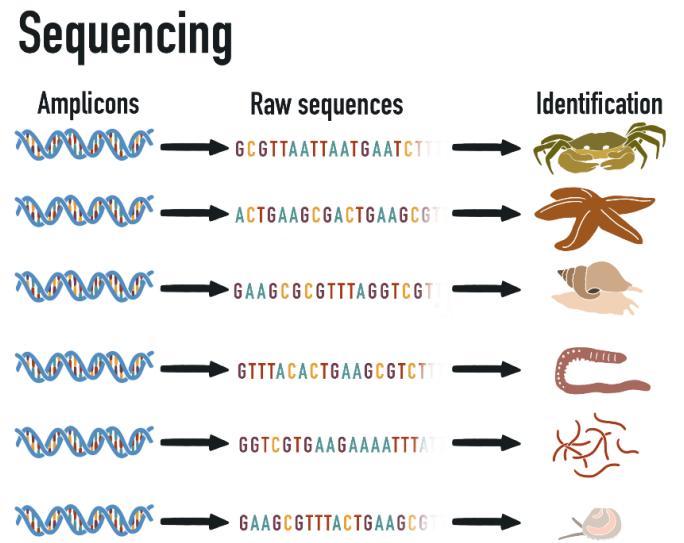
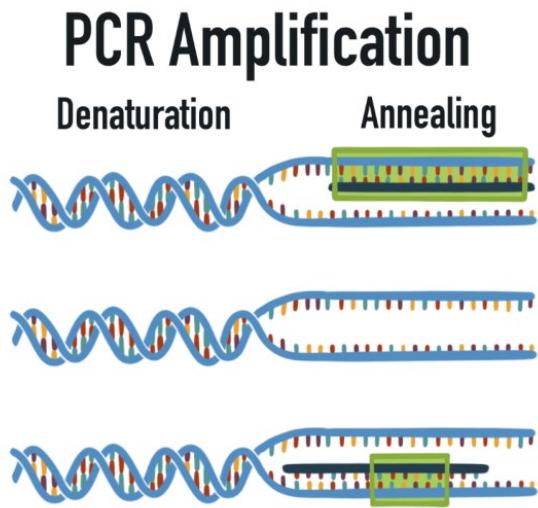
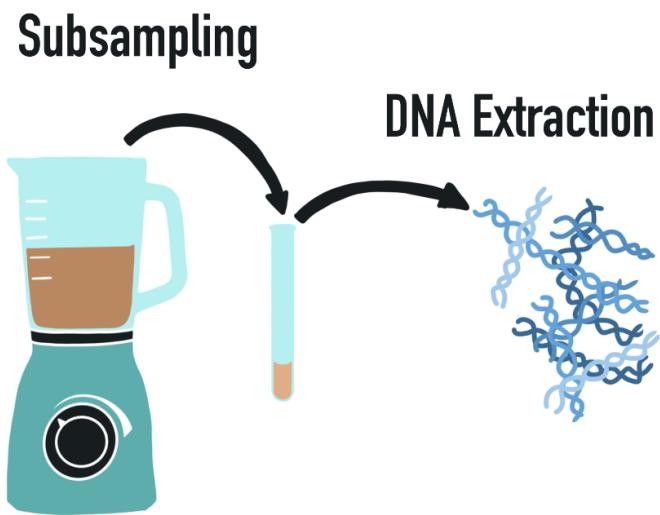


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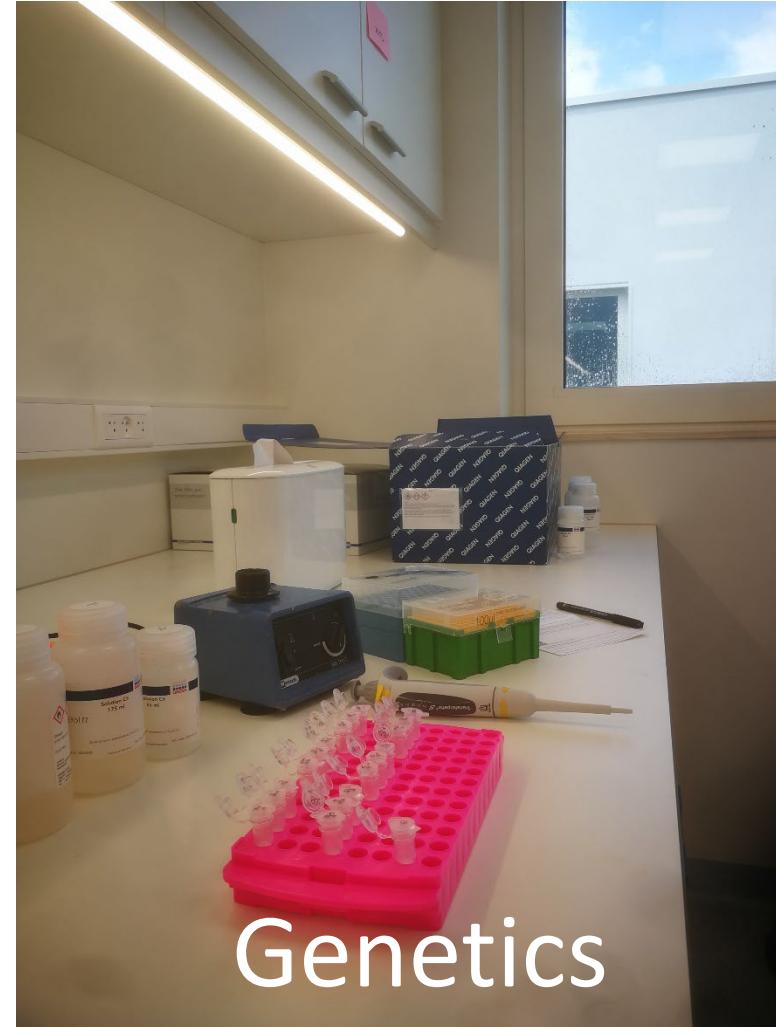
Foto's: photos © Hans Meeuwisse
Rodenborgh op een op schaal
Foto: photo van de schaal



BULK DNA METABARCODING



IDENTIFY !





Remarks ?



Abundance and biomass with morphological identification



Shorter processing time with genetic identification



Lower cost (personnel cost included) with genetic identification



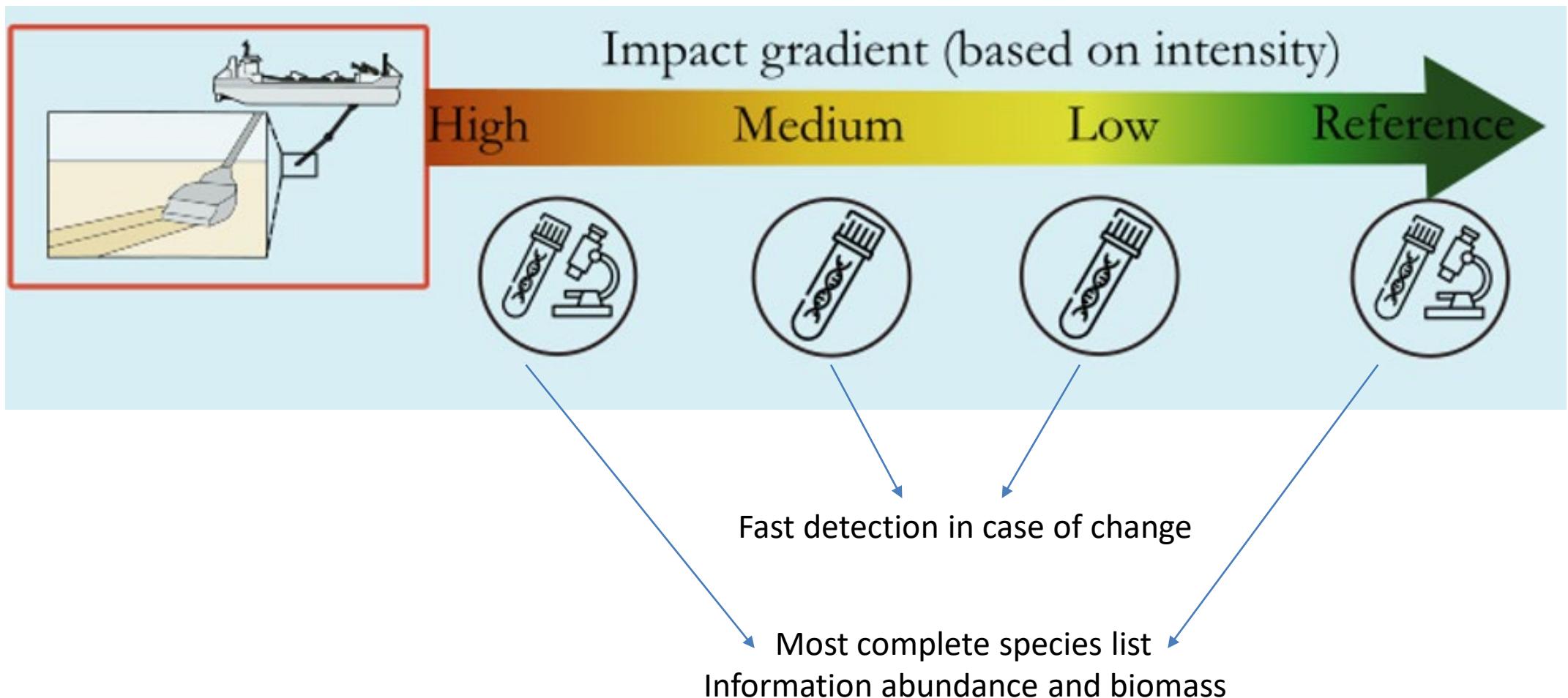
Taxonomic expert needed (morphological) vs. lab technician (DNA)



Damaged specimens and juveniles (morphological) vs. reference database (DNA)

Combined monitoring design

Morphological and genetic identifications are **COMPLEMENTAIR**



Thank you!

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Ilvo marien



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