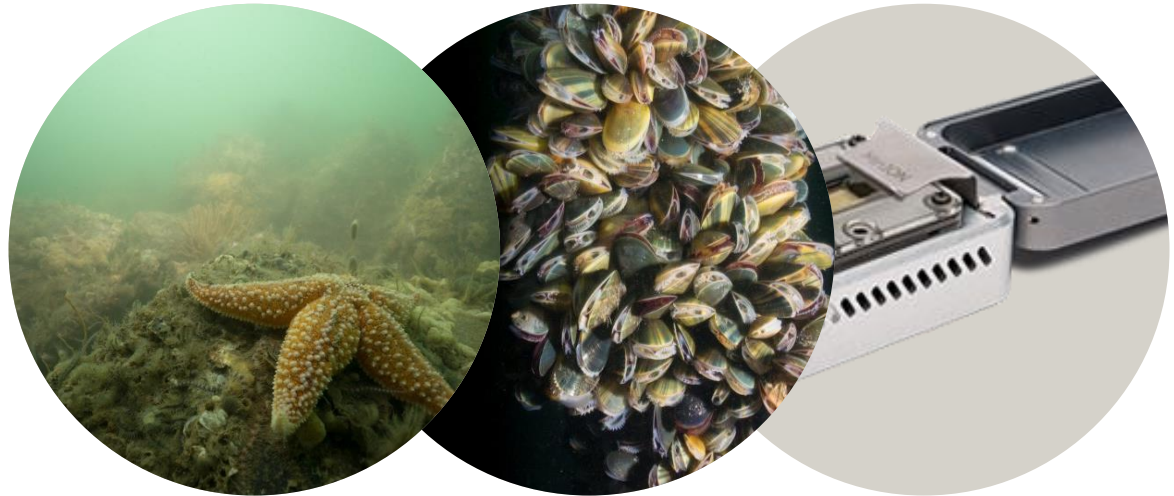
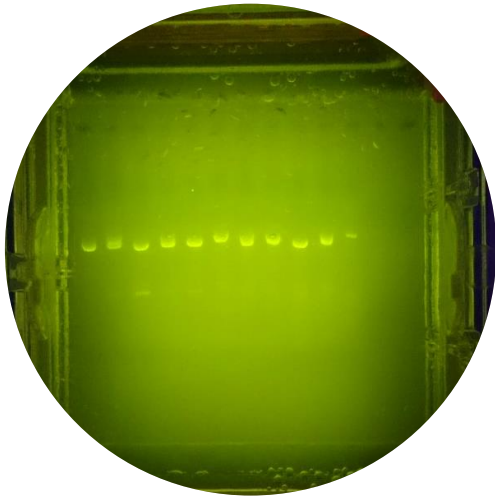


# Harmonisation of DNA based methods

Reindert Nijland  
15 March 2019



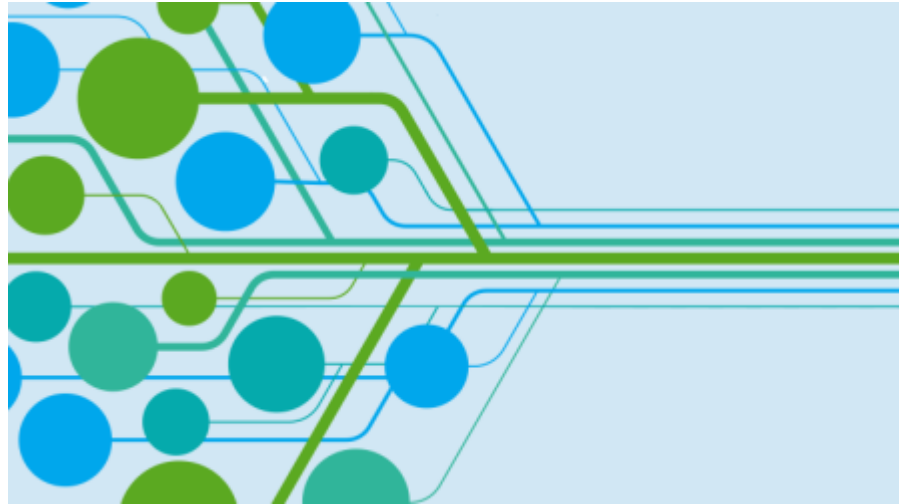
# GEANS-WP4

WP4 aims to optimise and standardise DNA-based field and lab protocols.



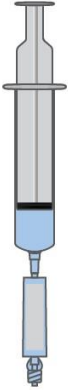
# GEANS-WP4: Harmonisation

- Currently many different approaches and methods are used. To be able to compare data between projects/countries etc. we need to harmonize

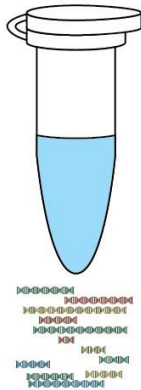


# GEANS-WP4: Harmonisation

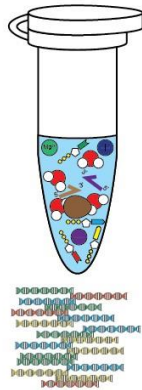
1  
Collect an  
environmental  
sample



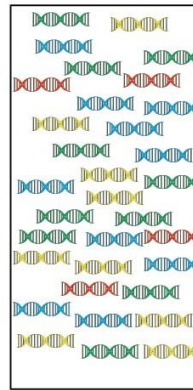
2  
DNA extraction  
from environmental  
sample



3  
Amplify DNA  
markers



4  
High-throughput  
sequencing



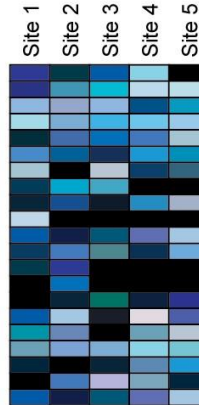
5  
Bioinformatic  
processing



6  
Species  
identification



7  
Ecological  
analysis



<https://www.naturemetrics.co.uk/>

# GEANS-WP4: Harmonisation

- Aims/objectives of WP 4:
  - Design and further develop SOP's/protocols/guidelines
  - Protocols adapted/optimized for each individual Pilot.
- Outputs: Optimized protocols/guidelines/best practices for sampling, sample processing and data analysis, tailored towards the specific applications.

## Involve stakeholders: YOU

- **Interview with relevant stakeholders.** Feedback on the usefulness of different DNA-based SOPs will form an integral part of WP4.
- **A training workshop**  
→ Transfer obtained skills and expertise to both beneficiaries and external stakeholders.
- **The stakeholder board**  
→ **promote established and standardized tools** and SOPs to targeted end user communities.