Nature-Based solutions (NBS), also known as Building with Nature (BwN) solutions, are implemented to make coasts more resilient to climate change effects, primarily sea level rise. The Building with Nature (BwN) project demonstrates Nature Based solutions that utilize natural processes to deliver flood risk and coastal erosion management whilst enhancing ecosystem services.

The overall objective of the BwN project is to make coasts, estuaries and catchments of the NSR more adaptable and resilient to the effects of climate change. Therefore, a common transnational evidence base is needed to justify investments and optimize the effectiveness of BwN solutions.

Common implemented BwN solutions are beach and/or shoreface nourishments. These aim at counteracting erosion, stabilizing coasts, facilitating other functions and ensuring protection to flooding. The performance of these solutions is divers and hampers wider uptake across NSR (Wilmink, Lodder & Sørensen, 2017).  

Work package three of Interreg BwN started the project writing a work plan and to define common understanding of flood risk protection (fig 1 & 2).

Shared understanding resulted in an in-depth overview of all common practices in coastal protection (table 1).

### Work package 3 proceeded to create an overview of data available of each lab and build a transnational database for coastal transect data (fig 3 & 4).

#### Transnational database:
- 135.432 profiles
- 5840 transect locations
- 4 countries: BE, NL, Langeoog, Baltrum, Syd, Westcoast Denmark
- Measurements between 1874 – 2017 (Almost 150 years in some locations!)

In 2018 the first steps will be taken to analyse performance of executed nourishments in all laboratories using a shared methodology drafted in 2017. The results of the co-analyses will be drafted into guidelines on the implementation and effectiveness of nourishments.