

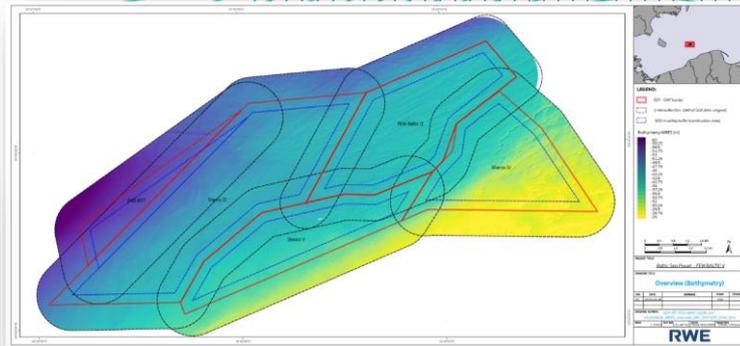
# RWE

## GIS team FEW Baltic II

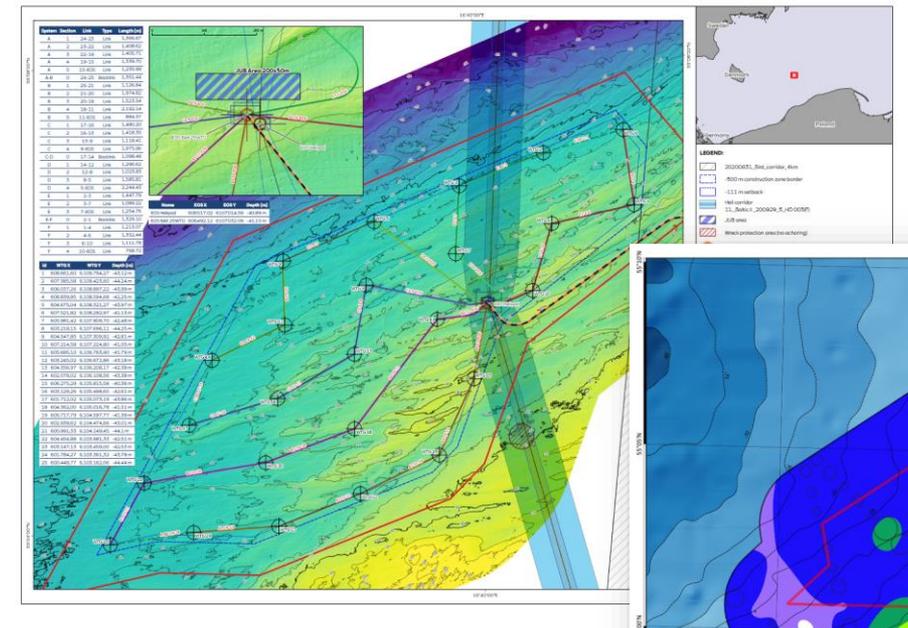
Aleksandra Szewczun

Piotr Sadowski

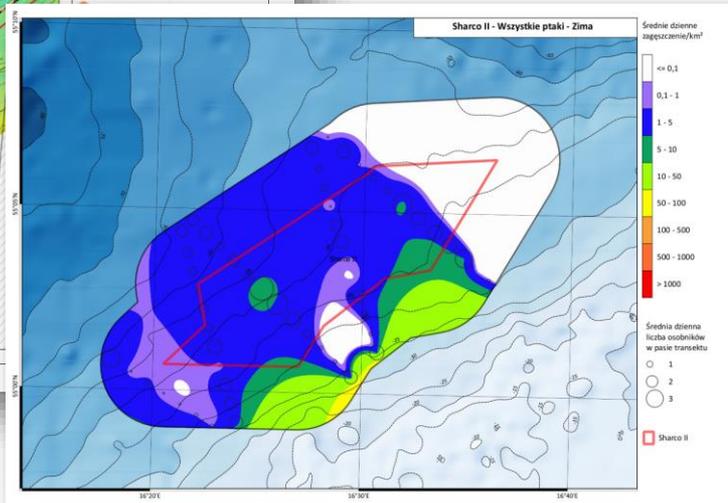
# GIS/CAD 2D in service of BSP/FEW Baltic II



BSP bathymetric maps



Wind farm layouts

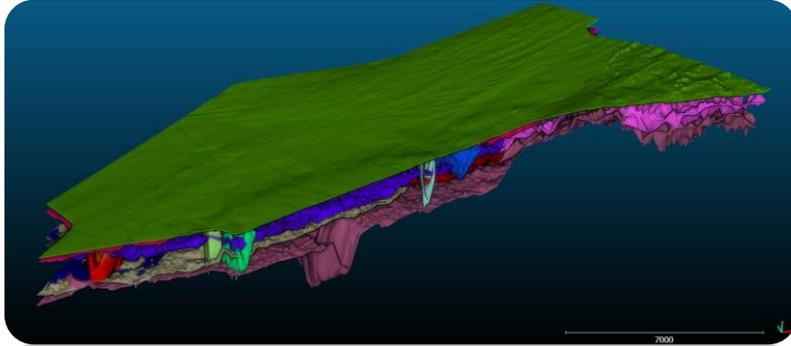


Geostatistics - bird and fish density maps



Real estate & LDP maps

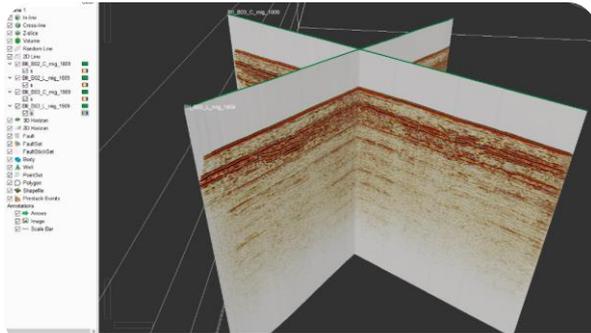
# GIS/CAD 3D in service of BSP/FEW Baltic II



Visualizing 3D ground models

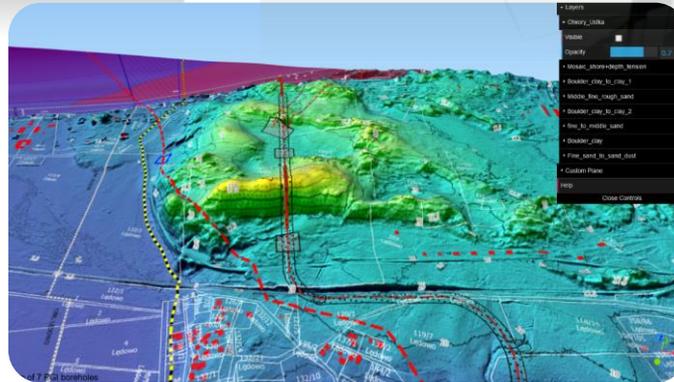


3D modeling



Visualizing deep seismics

RWE



Digital terrain/land cover models



VR data visualization

# in-field GIS/site assessment in service of BSP/FEW Baltic II



Drone surveys and movies



Harbor development visualizations

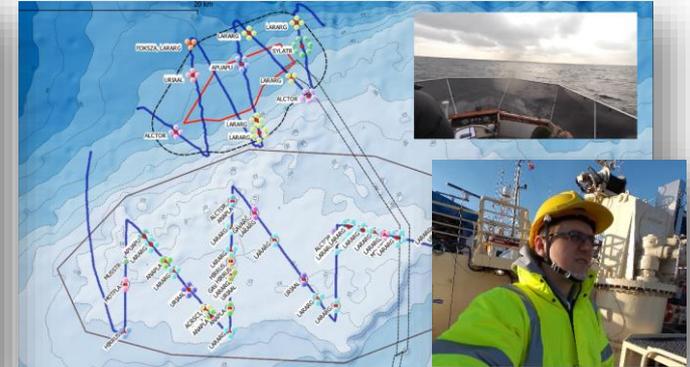


Ortophotomaps

RWE



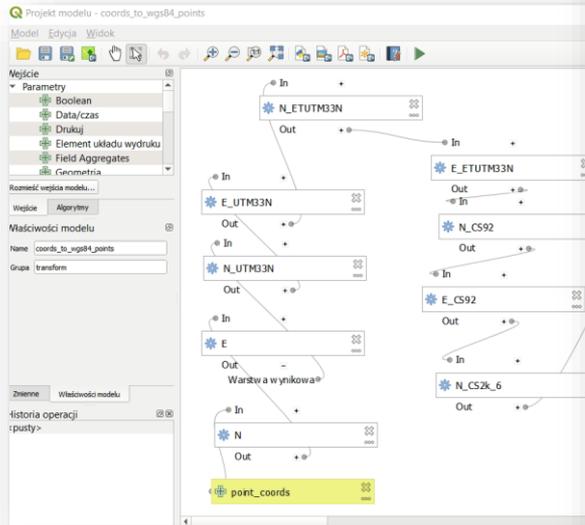
Onshore site visits



Offshore survey supervision on board

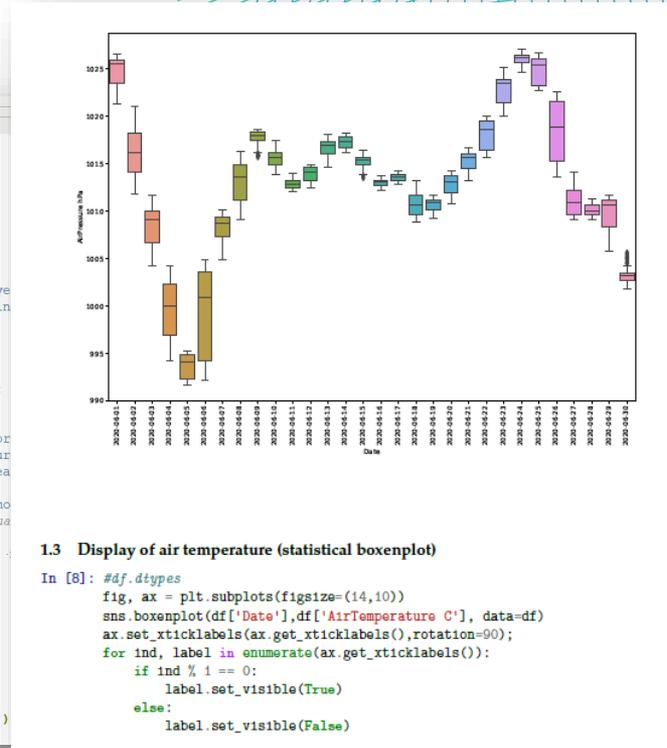
Seite 4

# GIS automation and programming in service of BSP/FEW Baltic II



```
1 """
2 Model exported as python.
3 Name : coords_to_wgs84_points
4 Group : transform
5 With QGIS : 31803
6 """
7
8 from qgis.core import QgsProcessing
9 from qgis.core import QgsProcessingAlgorithm
10 from qgis.core import QgsProcessingMultiStepFeedback
11 from qgis.core import QgsProcessingParameterVectorLayer
12 from qgis.core import QgsProcessingParameterFeatureSin
13 from qgis.core import QgsProcessingParameterBoolean
14 import processing
15
16
17 class Coords_to_wgs84_points(QgsProcessingAlgorithm):
18
19     def initAlgorithm(self, config=None):
20         self.addParameter(QgsProcessingParameterVector
21 self.addParameter(QgsProcessingParameterFeatur
22 self.addParameter(QgsProcessingParameterBoolea
23
24     def processAlgorithm(self, parameters, context, mo
25         # Use a multi-step feedback, so that individua
26         # overall progress through the model
27         feedback = QgsProcessingMultiStepFeedback(10,
28         results = {}
29         outputs = {}
30
31     # N
32     alg_params = {
33         'FIELD_LENGTH': 32,
34         'FIELD_NAME': 'N_WGS84',
35         'FIELD_PRECISION': 3,
36         'FIELD_TYPE': 2,
37         'FORMULA': 'to_dms($y,\'y\',4,\'aligned\')
38         'INPUT': parameters['pointcoords'],
```

Workflow automation models/scripts



Data processing in Jupyter notebooks/Python