

AMPHIBIOUS FUTURE



Country / City Poland
University / School KIELCE UNIVERSITY OF TECHNOLOGY
Academic year 2019/2020
Title of the project Amphibious Future
Authors Klaudia Szot, Aleksandra Smolarczyk, Eligia Maciejasz, Jakub Ziulek

TECHNICAL DOSSIER

Title of the project	Amphibious Future
Authors	Kaludia Szot, Aleksandra Smolarczyk, Eligia Maciejasz, Jakub Ziulek
Title of the course	Landscape Architecture Course
Academic year	2019/2020
Teaching Staff	Magdalena Wojnowska-Heciak
Department/Section/Program of belonging	Department of Civil Engineering and Architecture, Master of Architecture Program
University/School	KIELCE UNIVERSITY OF TECHNOLOGY



Written statement, short description of the project in English, no more than 250 words

The project entitled Amphibious Future is a direct response to the problem of global warming and the rising of sea water levels. The study area covers a coastal polis located at the Baltic Sea. Polish coastal zone is regarded as the one of the most exposed to sea level rise in Europe with over 270,000 people living in flood risk areas. In Gdansk, single-family houses are most endangered form of development. The site analysis proves the need to adapt the existing city structure to the climate change.

The project includes two approaches to the problem and separate flood resilient solutions. The first one is focused on protection of the cultural city heritage by installing at the Baltic Sea a set of mobile barriers. The main aim is to save the historic buildings and monuments that cannot be moved away. The barrier will rise when the water level will be high but it will enable work of fishing boats and ensure the international trade that takes place at the study area. The second solution proposes the new development pattern for the single-family housing based on floating technologies combined with the change of the existing land forms. The project covers a system of polders developed with a mixed-use neighborhood that could float and adapt to different flooding scenarios.

Amphibious Future is based on living with the sea water cycles and accepting the forthcoming changes, and not fighting with the nature.

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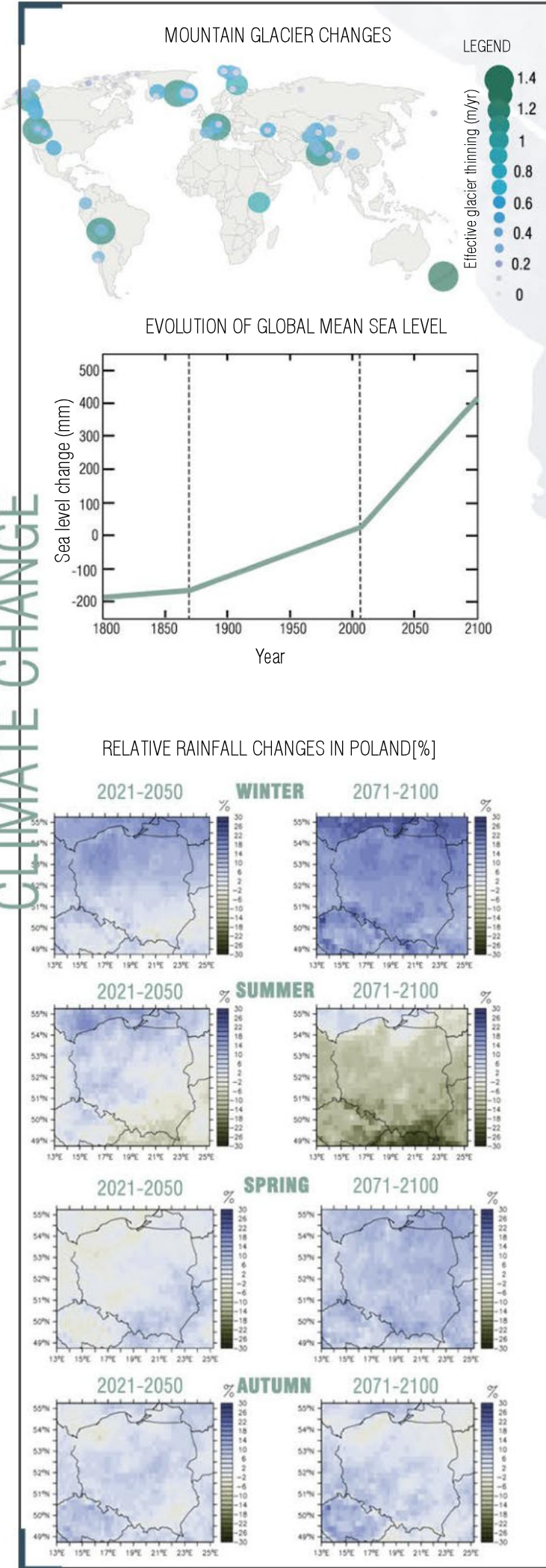


CLIMATE CHANGE AGAIN

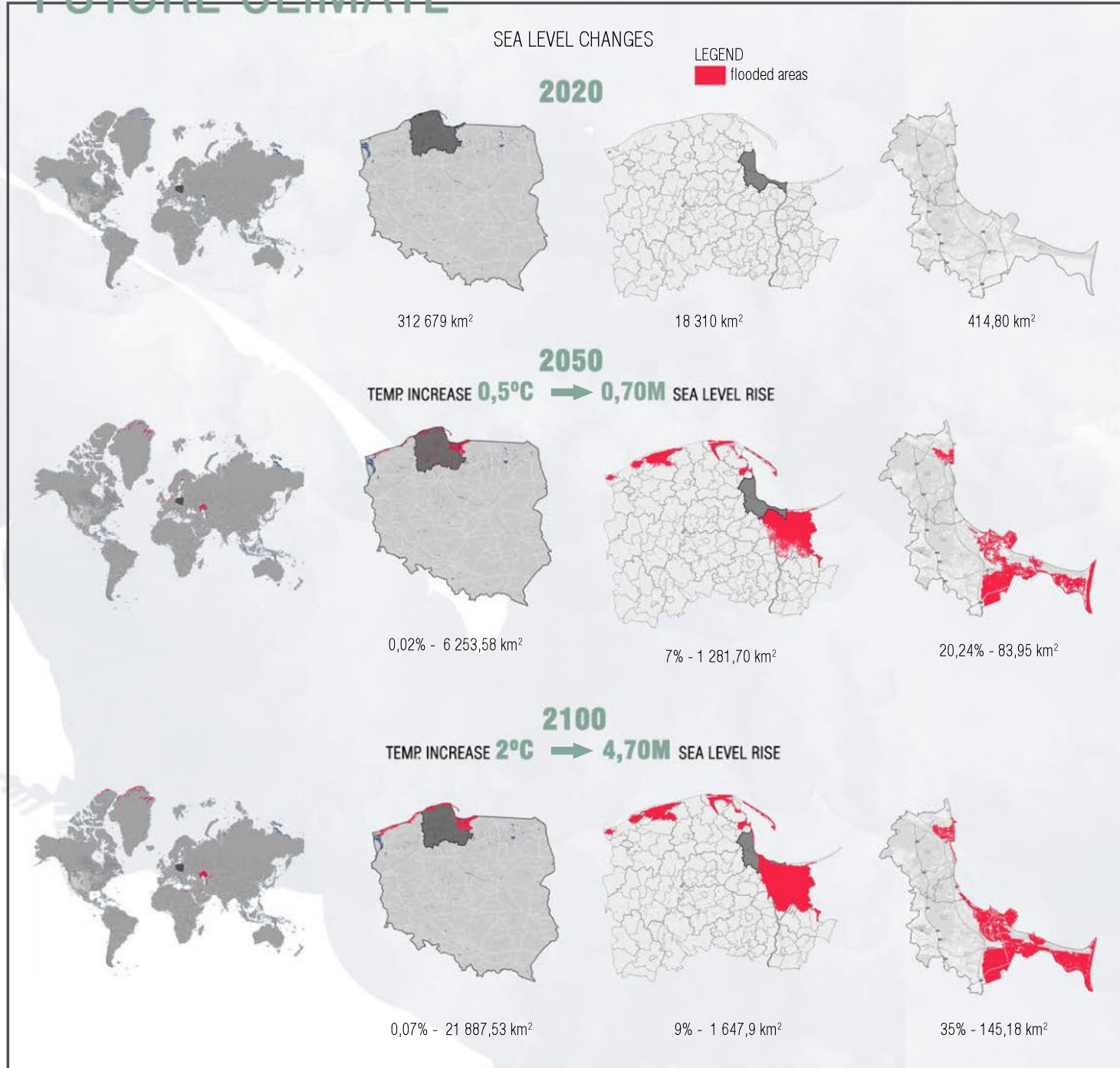
11th International Biennial Landscape Barcelona

Barcelona September 2020
SCHOOL PRIZE

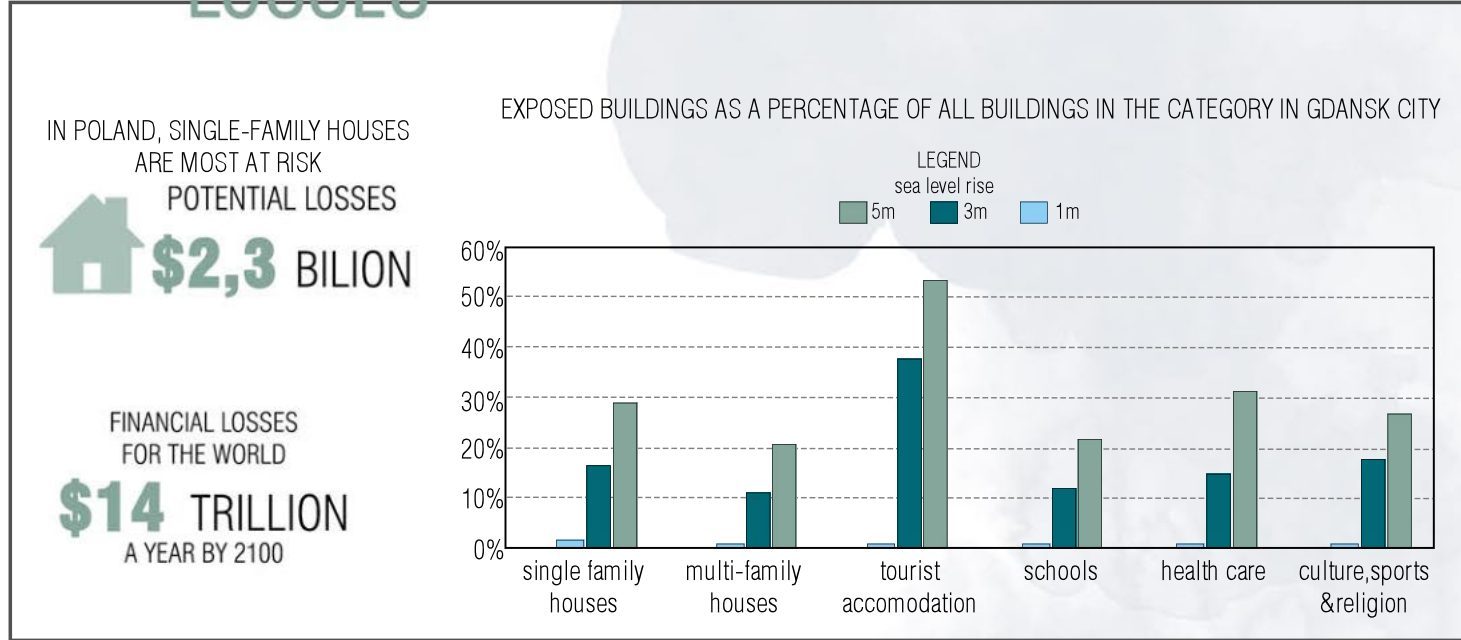
CLIMATE CHANGE



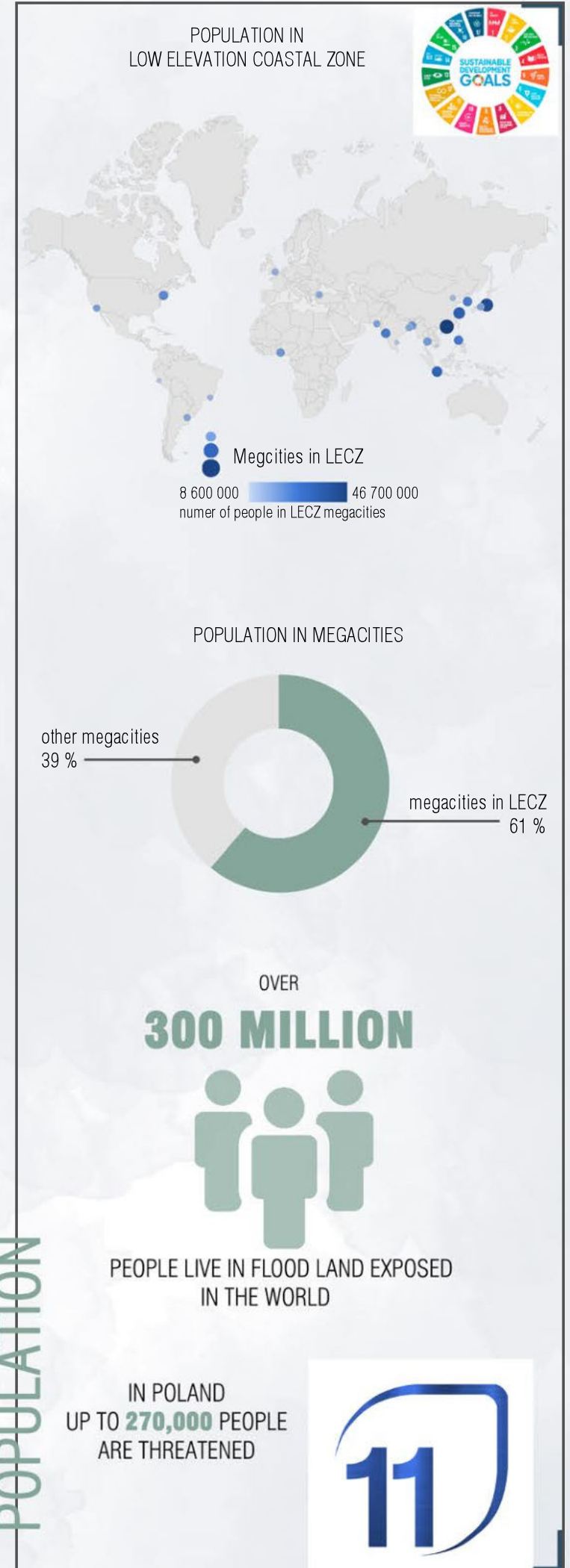
FUTURE CLIMATE



LOSSES



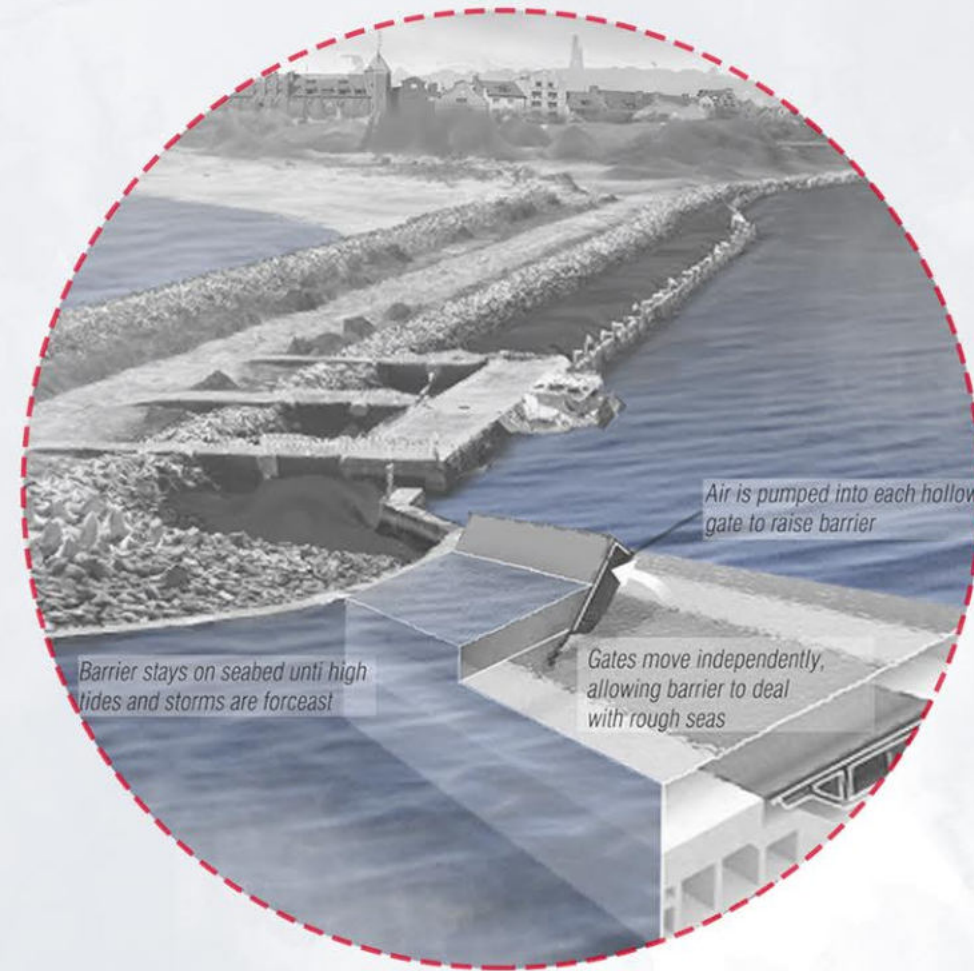
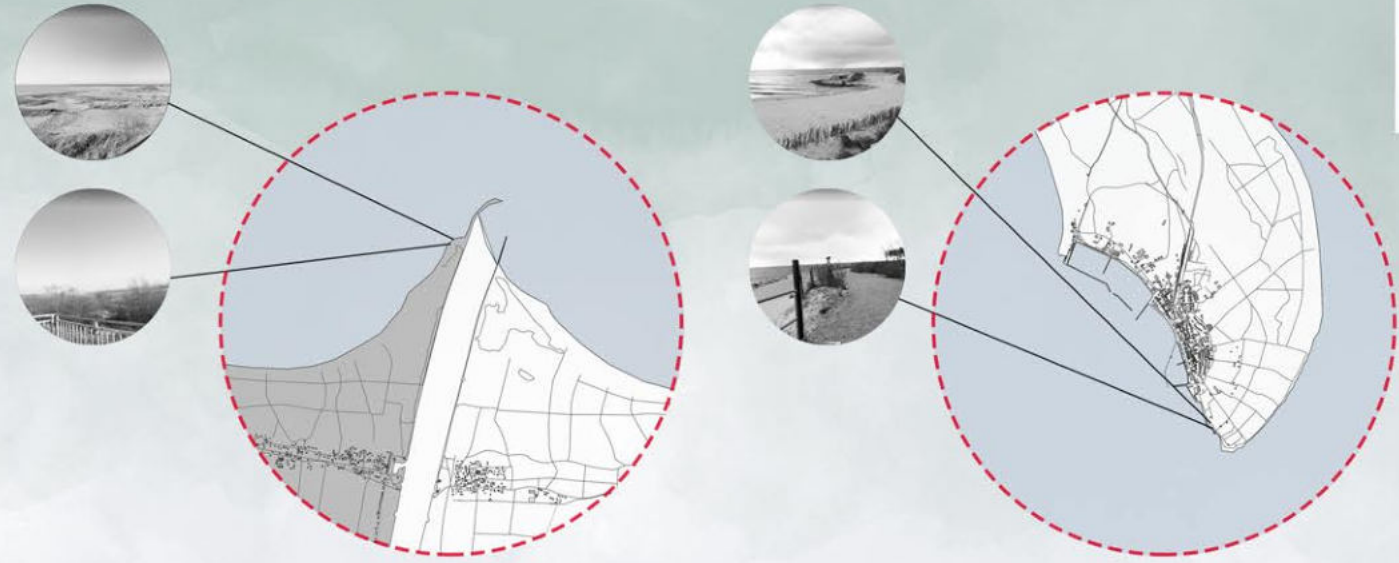
POPULATION



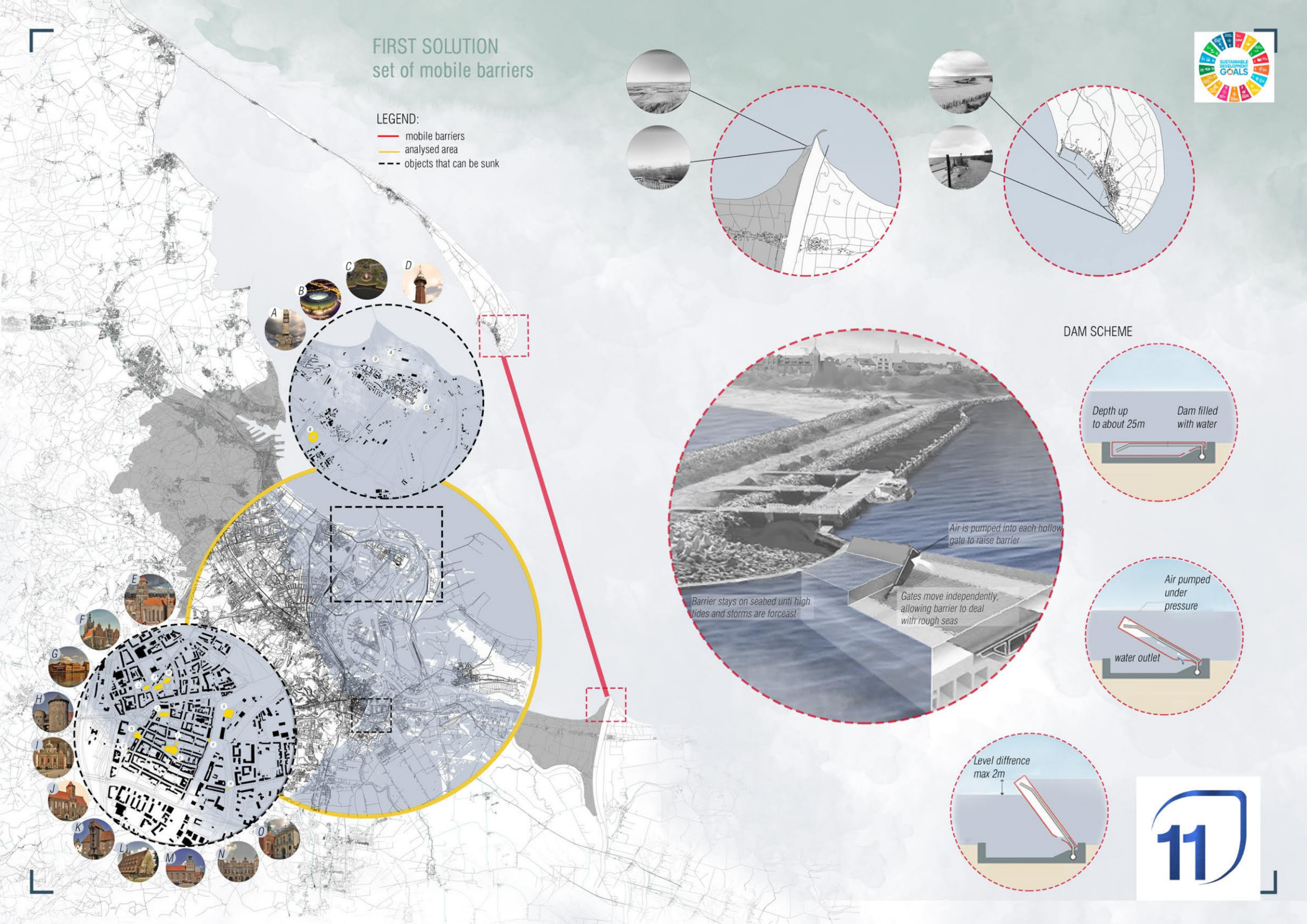
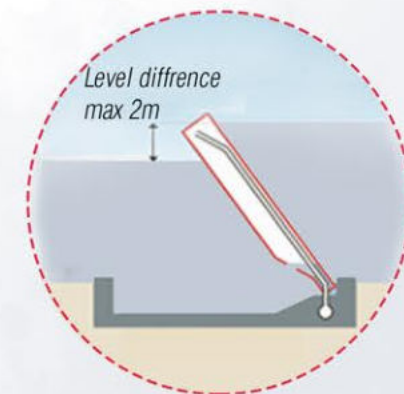
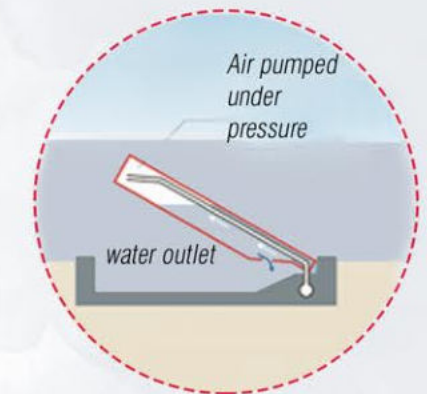
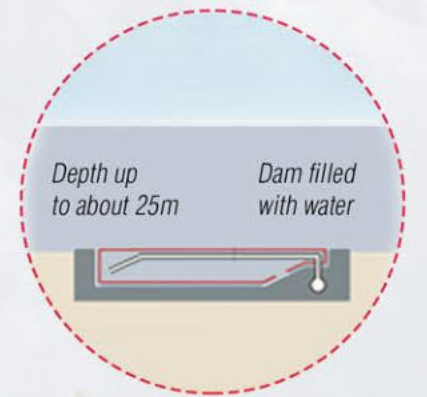


FIRST SOLUTION set of mobile barriers

LEGEND:
— mobile barriers
— analysed area
--- objects that can be sunk



DAM SCHEME



SECOND SOLUTION
floating single-family housing



ANALYZED AREA OF THE CITY GDANSK

LEGEND
— analysed area
— existing situation during floods
--- floating housing estate

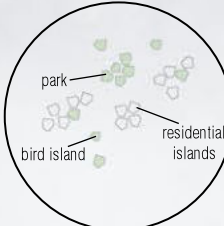
PLANTS USED IN PROJECT



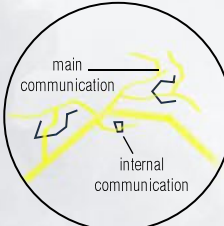
TREES USED IN PROJECT



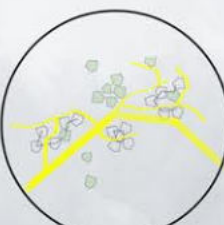
ZONES OF THE ANALYZED AREA



ISLANDS



COMMUNICATION



COMMONS QUARTER

VIEW 1

VIEW 2

