

2100: A SEA ODYSSEY

A new coastal scenario after sea level rise



Country / City Italy, Milan

University / School Politecnico di Milano

Academic year 2018-2019

Title of the project 2100: a Sea Odyssey. A new coastal scenario after sea level rise

Authors Monica Moschini, Alessandra Paporcone, Francesca Porro

TECHNICAL DOSSIER

Title of the project	2100: a Sea Odyssey. A new coastal scenario after sea level rise
Authors	Monica Moschini, Alessandra Papparcone, Francesca Porro
Title of the course	Master thesis project
Academic year	2018-2019
Teaching Staff	Matteo Umberto Poli, Sara Gangemi
Department/Section/Program of belonging	Department of Architecture and Urban Design Studies
University/School	Politecnico di Milano



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

2100: a Sea Odyssey tells the story of a territory that has been the middle earth between land and sea. In the Ravennate territory (placed in Emilia Romagna, Italy) since XV Century through the action of man, it was possible to transform wet areas suitable for the survival of the human being and thriving in terms of agricultural productivity. Therefore, the action of men tears more and more land to water. Nowadays the situation is changing. Man becomes aware of living in the era Anthropocene era in which the action of man has been the main geological force. The era in which it is necessary to recognize that man's instinct for survival has made possible enormous transformations, perhaps even greater than those caused by catastrophic events - the one destructive to the natural landscapes that host them, the others towards the work of man. All these transformations led to the acceleration of the phenomenon of climate change whose consequences would lead to great changes in the anthropized territories. The story that *2100: a Sea Odyssey* tells is the story of a resilient territory, whose lands once ripped from the waters today are returned to it in order to adapt itself to the rising of the sea. Starting from the assumption that this territory has been in constant motion for centuries - although we understand the drastic nature of the transformations taking place - we have not abandoned an optimistic attitude during our research, and at the end we imagine a reasonable non-apocalyptic scenario.

For further information
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CLIMATE CHANGE AGAIN

11th International Biennial Landscape Barcelona

Barcelona September 2020
SCHOOL PRIZE

GEOGRAPHY IN MOTION



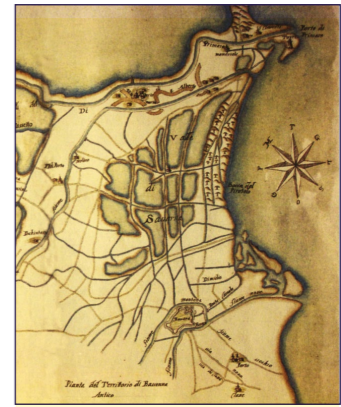
Santerno river is placed into Po di Primaro river

1460



Reclamation of Valle Candiana

1625



Ronco and Montone overflows

1568



Reclamation of Valli Contermini

1670



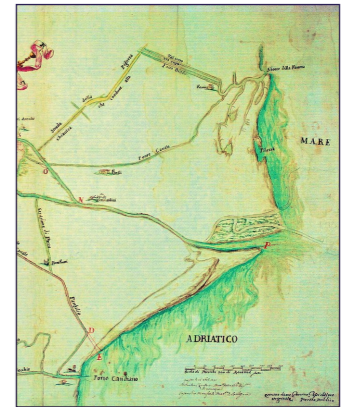
Lamone river derivation during Clementina reclamation

1570



Reclamation of Valle del Montone

1700



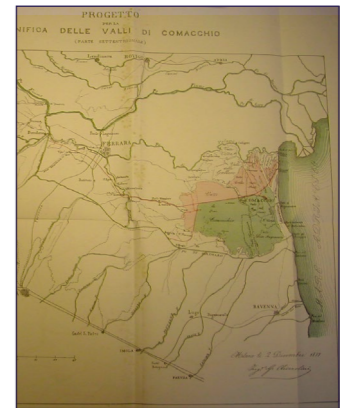
Dune cordon creation

1600



Reclamation of Valli di Coma

1878



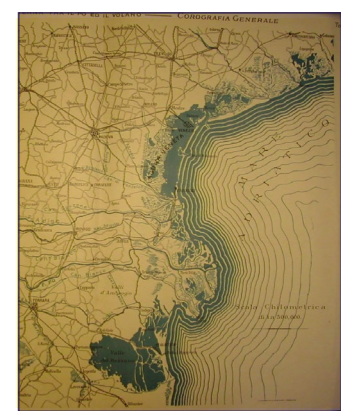
Fiumi Uniti creation

1620



Fiumi Uniti creation

1950



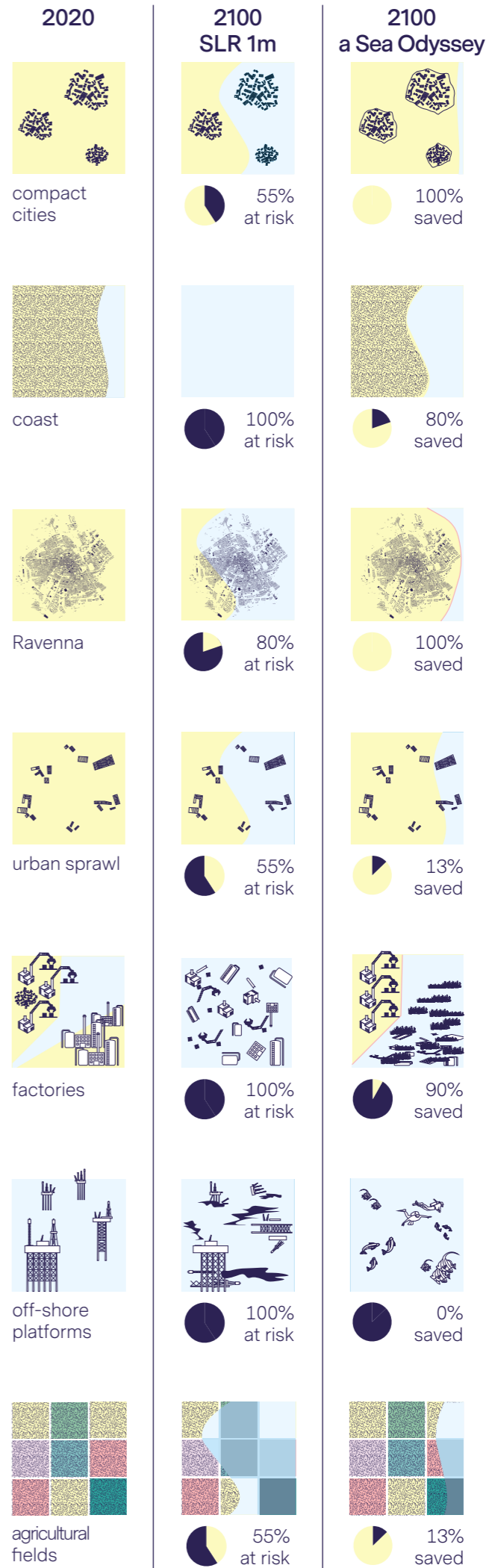
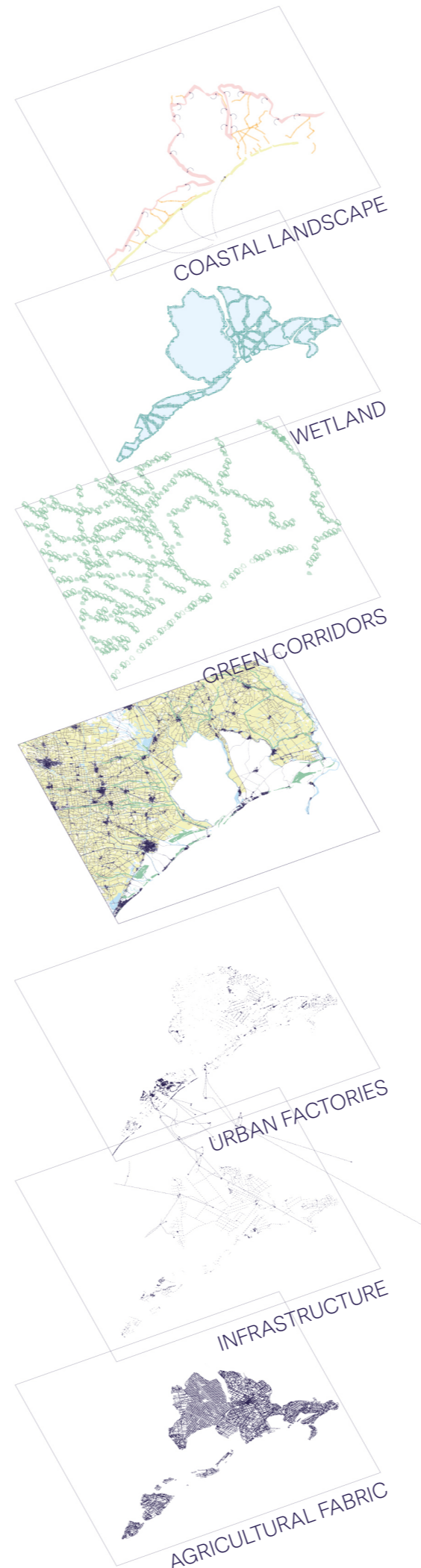
DEMOLITIONS



GAINED

SAVED

SACRIFICED



2100: A SEA ODYSSEY



PROCESS SPACE	RISK	STRATEGY	TOOL
A promenade	1 flood risk	A.1.1 linear spatial expansion	A.1.1.1 terraces
			B.1.1.1 trees on embankment
B embankment walls and dike	1 flood risk	B.1.1 reinforcing resistance	B.1.1.2 reprofiling embankment
			B.2.1.1 trees on dikes
			B.2.1.2 reprofiling the dike
			B.2.1.3 dike as path networks
	2 SLR risk	B.2.1 reinforcing resistance	B.2.1.4 coastal dune
			B.2.1.5 nourishment
			C.1.1.1 reprofiling the flood plain
			C.1.2.1 extensive natural areas
C selected areas	1 flood risk	C.1.1 extending the space	C.2.1.1 dam
			C.2.1.2 pumping system
			C.2.2 make the expendable area ready
	2 SLR risk	C.2.1 water management	C.2.2.1 demolition of refuse
			C.2.2.2 phyto-remediation
		C.2.3 tolerating areas	C.2.3.1 terraces