



MN50.

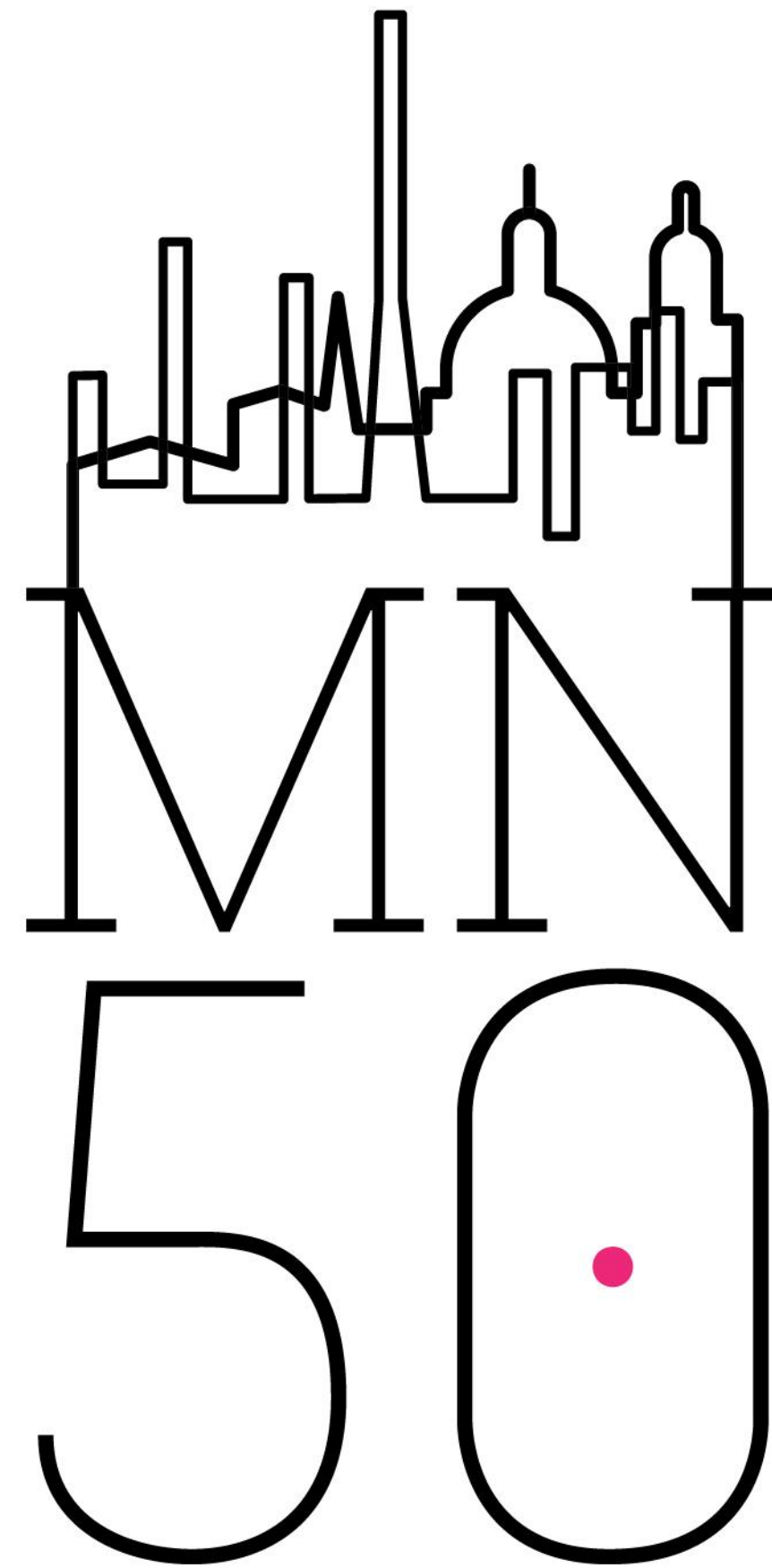
Re-identifying the Industrial Heritage Sites: The Engine for the Historical City's Future Landscape

Sanya Kovacheva, Veronica Rigonat





**World Forum on
Urban Forests**
Mantova 2018





**World Forum on
Urban Forests**
Mantova 2018





**World Forum on
Urban Forests**
Mantova 2018

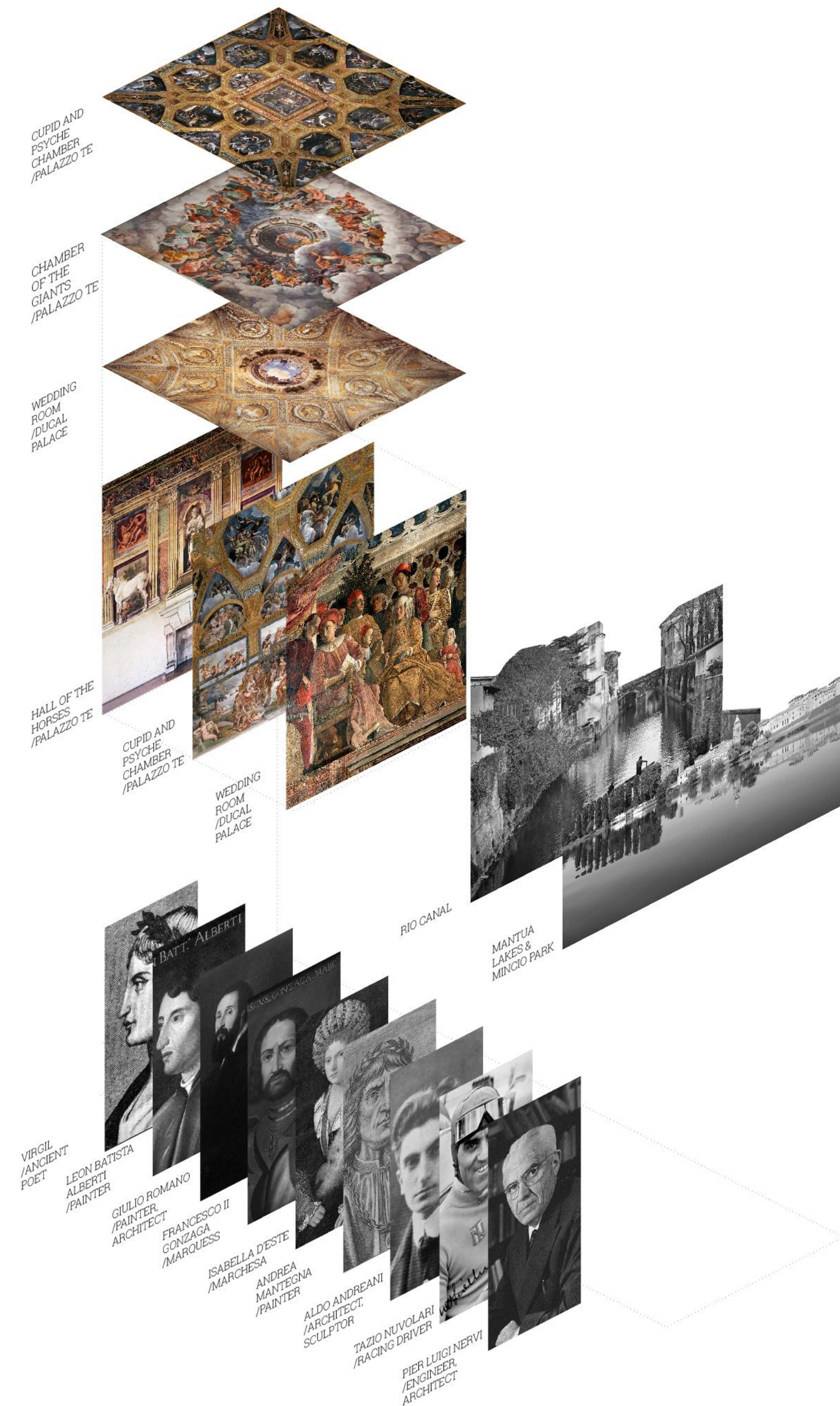
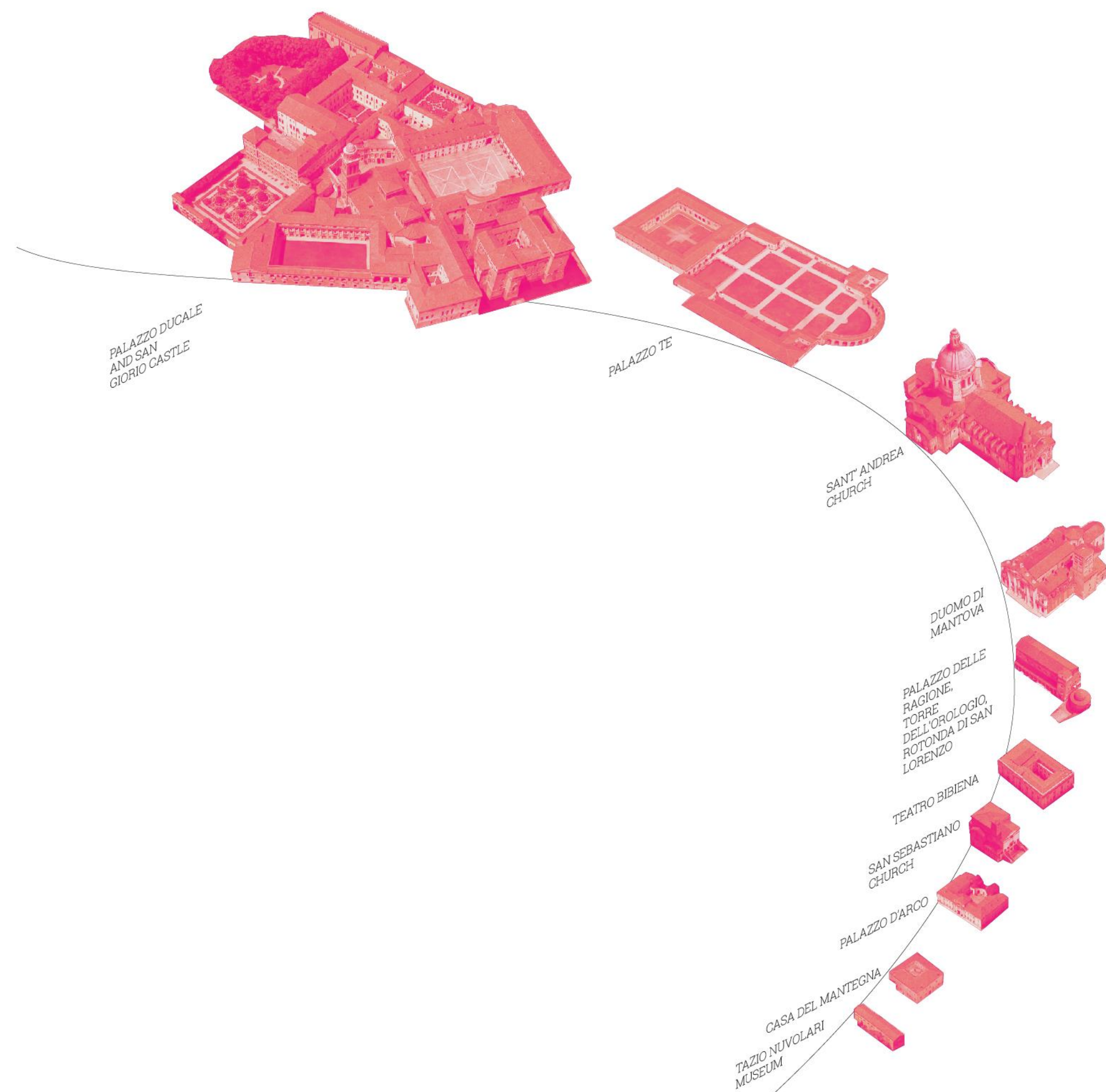
+ TOPICS

- + Industrial Landscape as Heritage
- + Biological Remediation Strategies
- + Urban Forest as Multipurpose Tool



World Forum on
Urban Forests
Mantova 2018

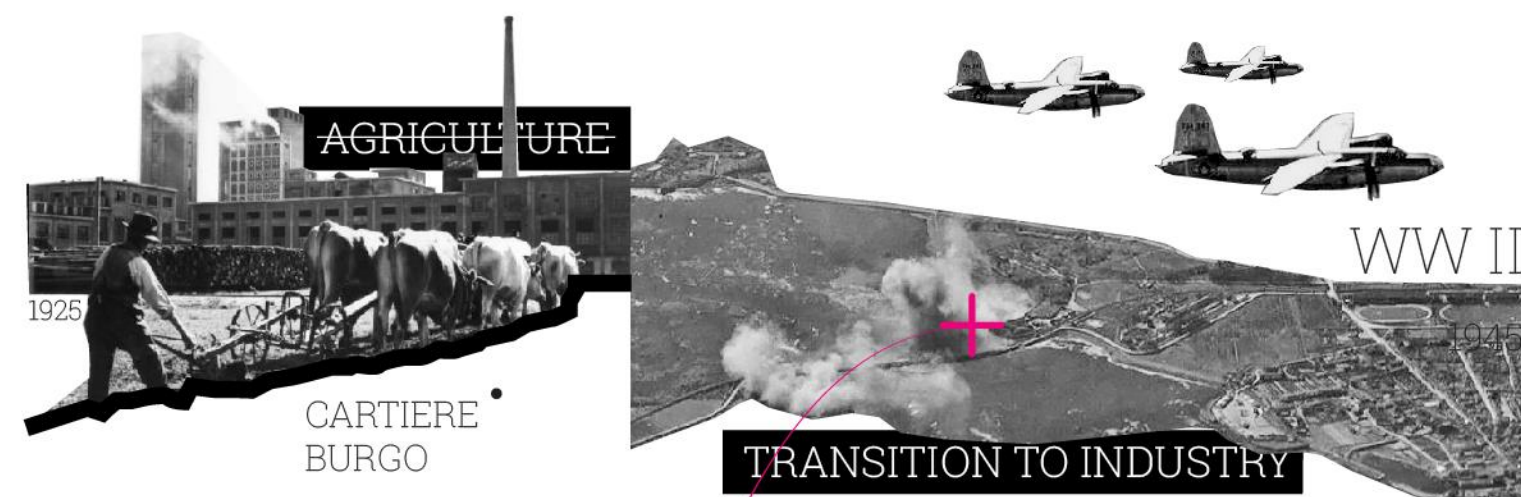
+ WHAT IS HERITAGE IN MANTOVA?





World Forum on
Urban Forests
Mantova 2018

+ INDUSTRIAL LANDSCAPE AS HERITAGE



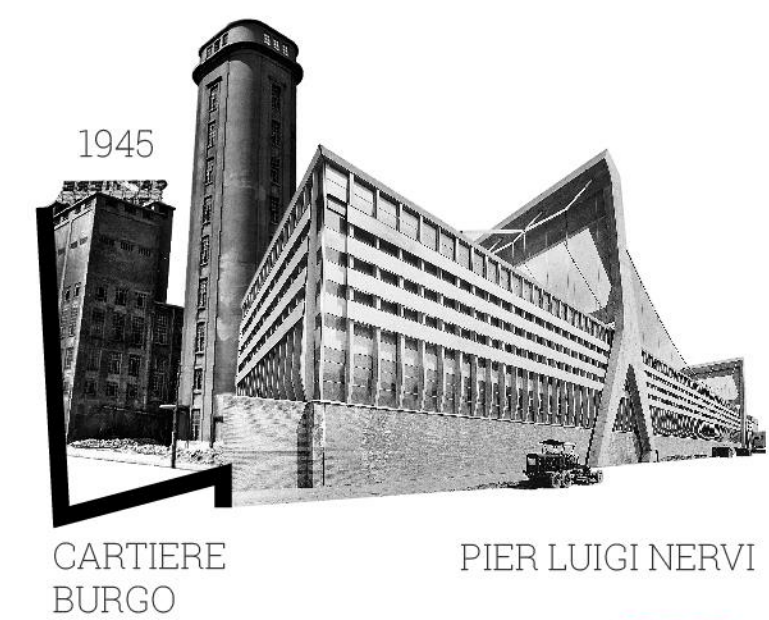
AGRICULTURE

WW II

1925

CARTIERE
BURGO

TRANSITION TO INDUSTRY



1945

CARTIERE
BURGO

PIER LUIGI NERVI

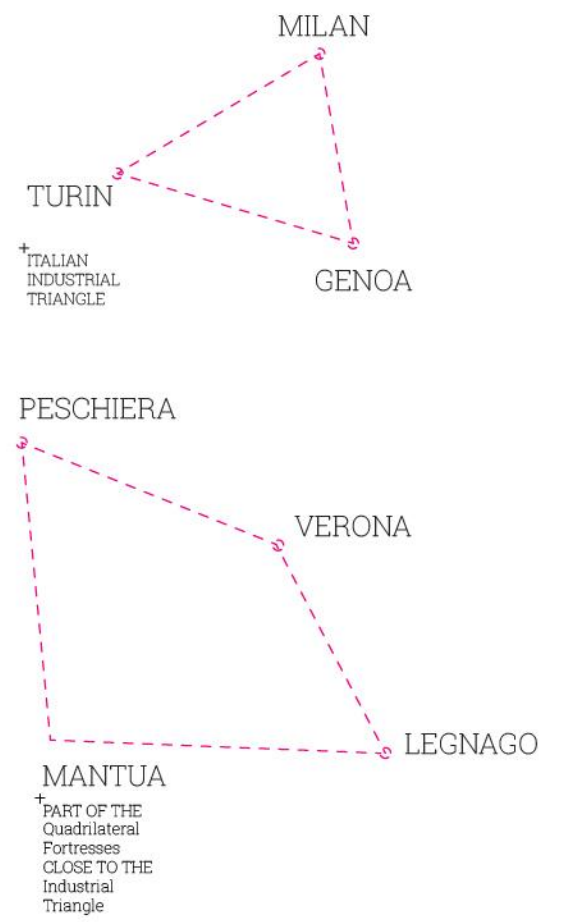


MANTUA



TRANSITION FROM CULTURAL
AND AGRICULTURAL ECONOMY
TO INDUSTRIAL ONE

1961-62



TURIN

MILAN

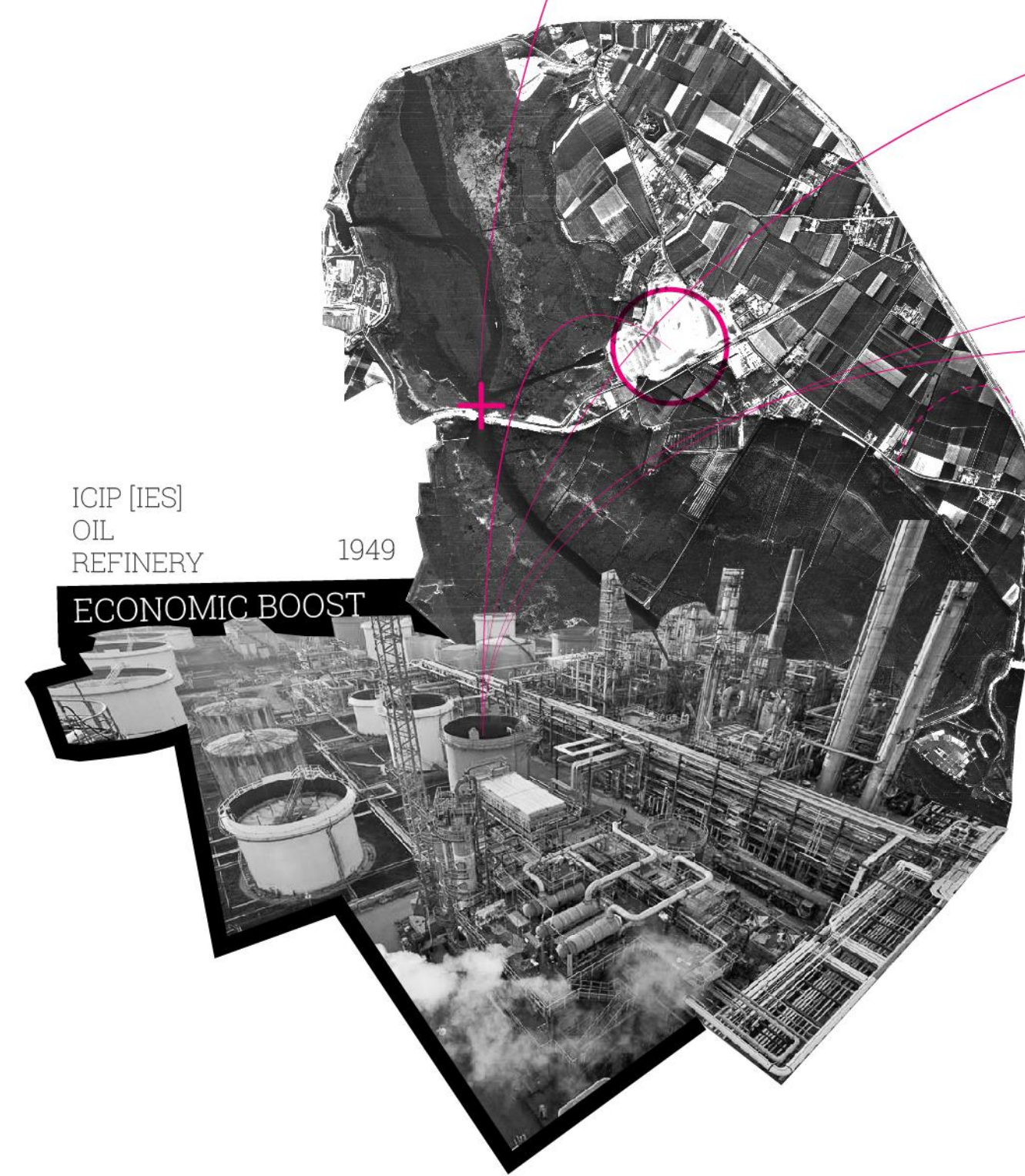
GENOA

PESCHIERA

VERONA

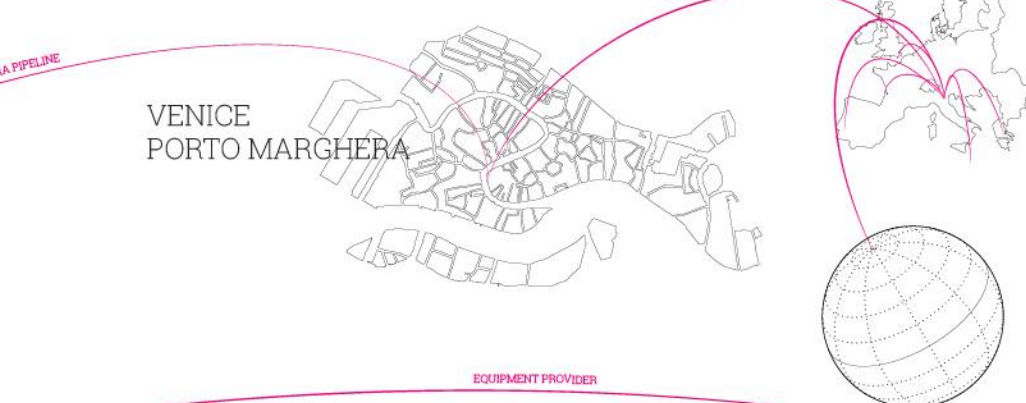
LEGNAGO

MANTUA
PART OF THE
QUADRILATERAL
FORTRESSES
CLOSE TO THE
INDUSTRIAL
TRIANGLE



ICIP [IES]
OIL
REFINERY
ECONOMIC BOOST

1949



MANTUA - PORTO MARGHERA PIPELINE

VENICE
PORTO MARGHERA

EQUIPMENT PROVIDER

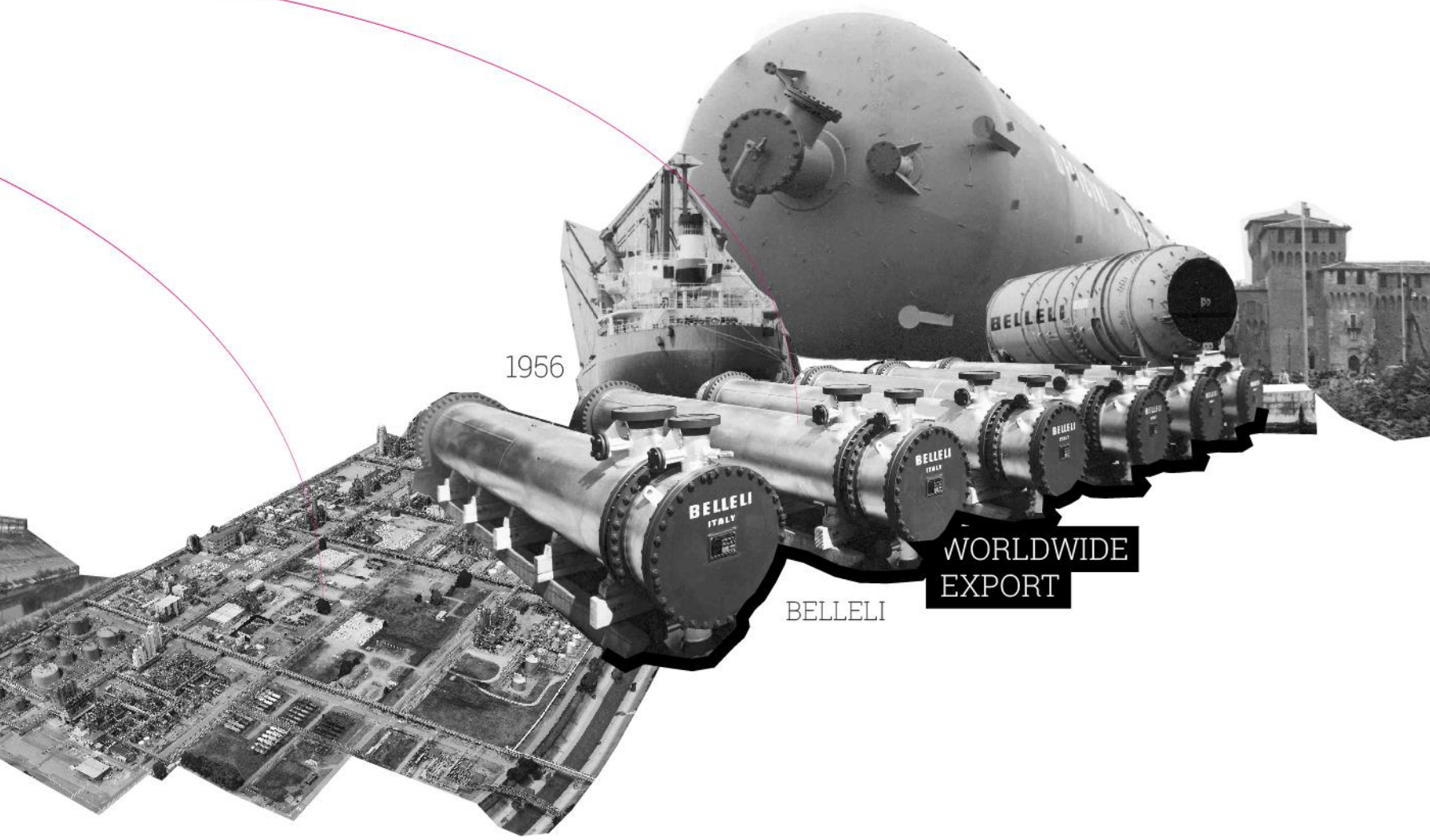
EXCHANGE OF CRUDE OIL



1954

SECOND BIGGEST
PLANT IN ITALY

EDISON [ENI]
PETROCHEMICAL SITE



1956

BELLELI

WORLDWIDE
EXPORT

BELLELI



World Forum on
Urban Forests
Mantova 2018



1943



World Forum on
Urban Forests
Mantova 2018



1955



**World Forum on
Urban Forests**
Mantova 2018



1963



**World Forum on
Urban Forests**
Mantova 2018



2017



World Forum on
Urban Forests
Mantova 2018





**World Forum on
Urban Forests**
Mantova 2018





**World Forum on
Urban Forests**
Mantova 2018





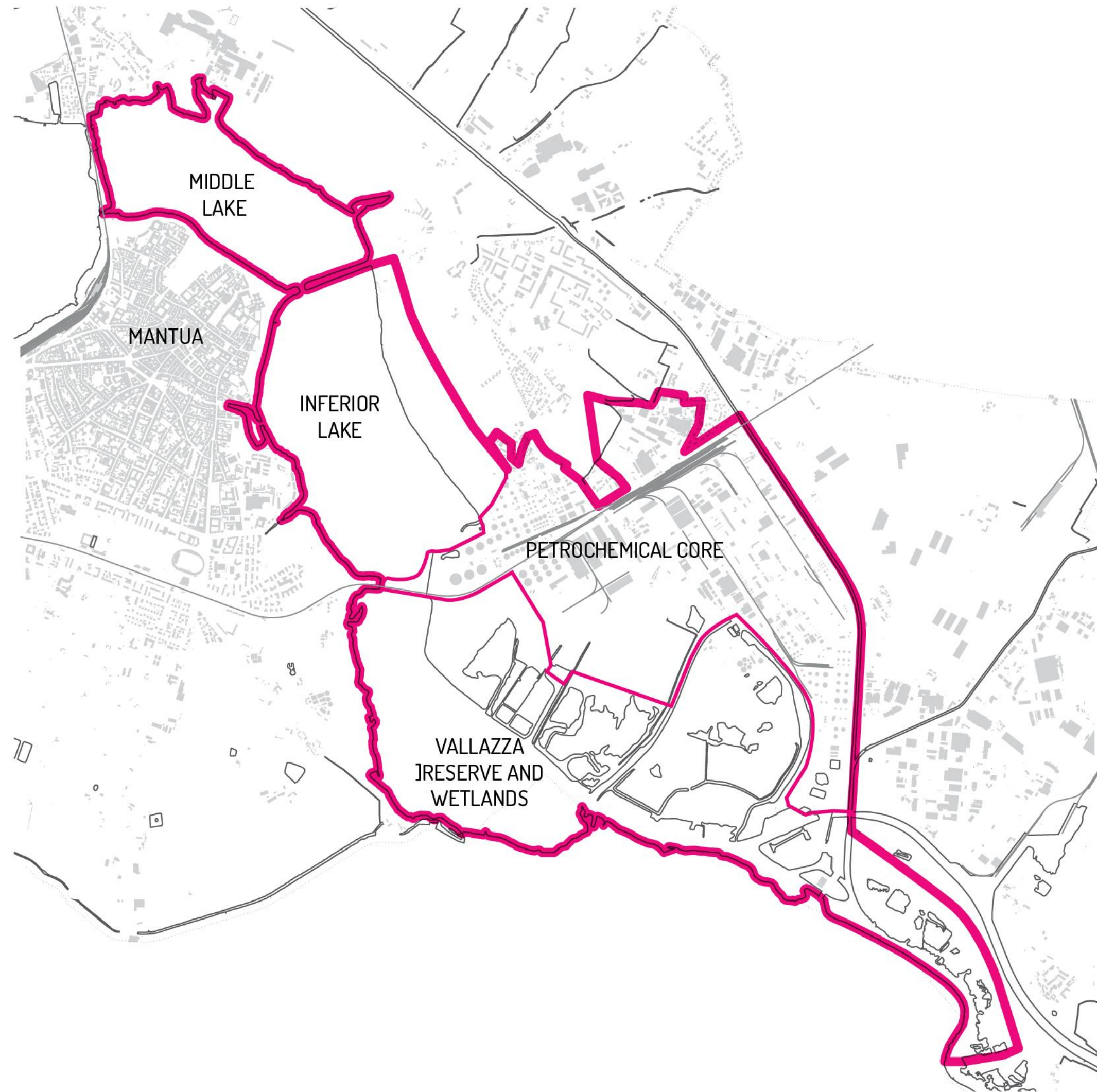
**World Forum on
Urban Forests**
Mantova 2018





**World Forum on
Urban Forests**
Mantova 2018

**+ THE SIN
AREA**



SIN AREA
DIVISION

1032 Ha*
TOTAL SIN AREA

* THE BIGGEST IN
LOMBARDY REGION

450 Ha
VALLAZZA RESERVE
AND WETLANDS

350 Ha
MANTUA CITY

350 Ha
PETROCHEMICAL
CORE

250 Ha
MIDDLE AND
INFERIOR LAKE

AMOUNT OF
CONTAMINATED
INDUSTRIAL
WASTE

1X = 1000 TEU*
*TWENTY-FOOT EQUIVALENT
UNIT VOLUME OF A INTERMODAL
CONTAINER OR 40 CUBIC METERS

14,770
EMMA MAERSK SHIP
CAPACITY
(BIGGEST IN THE WORLD)

5,212
SIN "LAGHI DI MANTOVA E
POLO CHIMICO"

0





World Forum on Urban Forests Mantova 2018

+ ISSUES

PARADOXES

CONTAMINATION



- UNESCO World Heritage Site
- UNESCO World Heritage Site Buffer zone
- SIN 'LAGHI DI MANTOVA E POLO CHIMICO'
- INDIRECT PROTECTION OF [MANTUA LAKES - DUCAL PALACE - SAN GIORGIO CASTLE] SYSTEM
- LANDSCAPE HERITAGE MIDDLE AND LOWER LAKE
- MINCIO PARK
- VALAZZA NATURAL RESERVE



World Forum on
Urban Forests
Mantova 2018

+
ISSUES

CONFLICT MARGINS

ACTIVE/INACTIVE
SITES





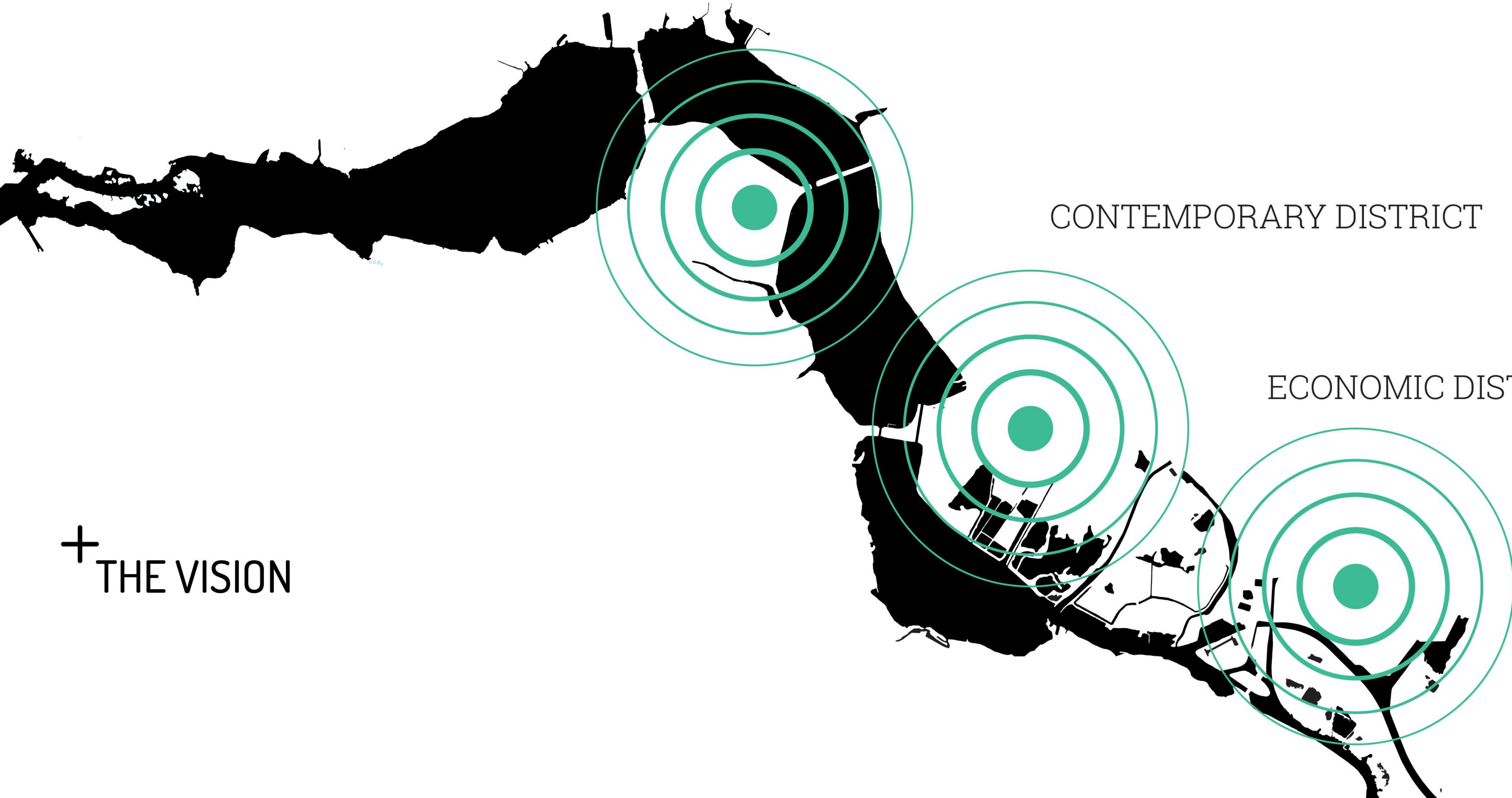
**World Forum on
Urban Forests**
Mantova 2018

HISTORICAL CITY

CONTEMPORARY DISTRICT

ECONOMIC DISTRICT

+
THE VISION





**World Forum on
Urban Forests**
Mantova 2018

+
PHASE 1
2018-2020

-  CONTEMPORARY PARK
-  CREATIVE DISTRICT
-  INDUSTRIAL PARK

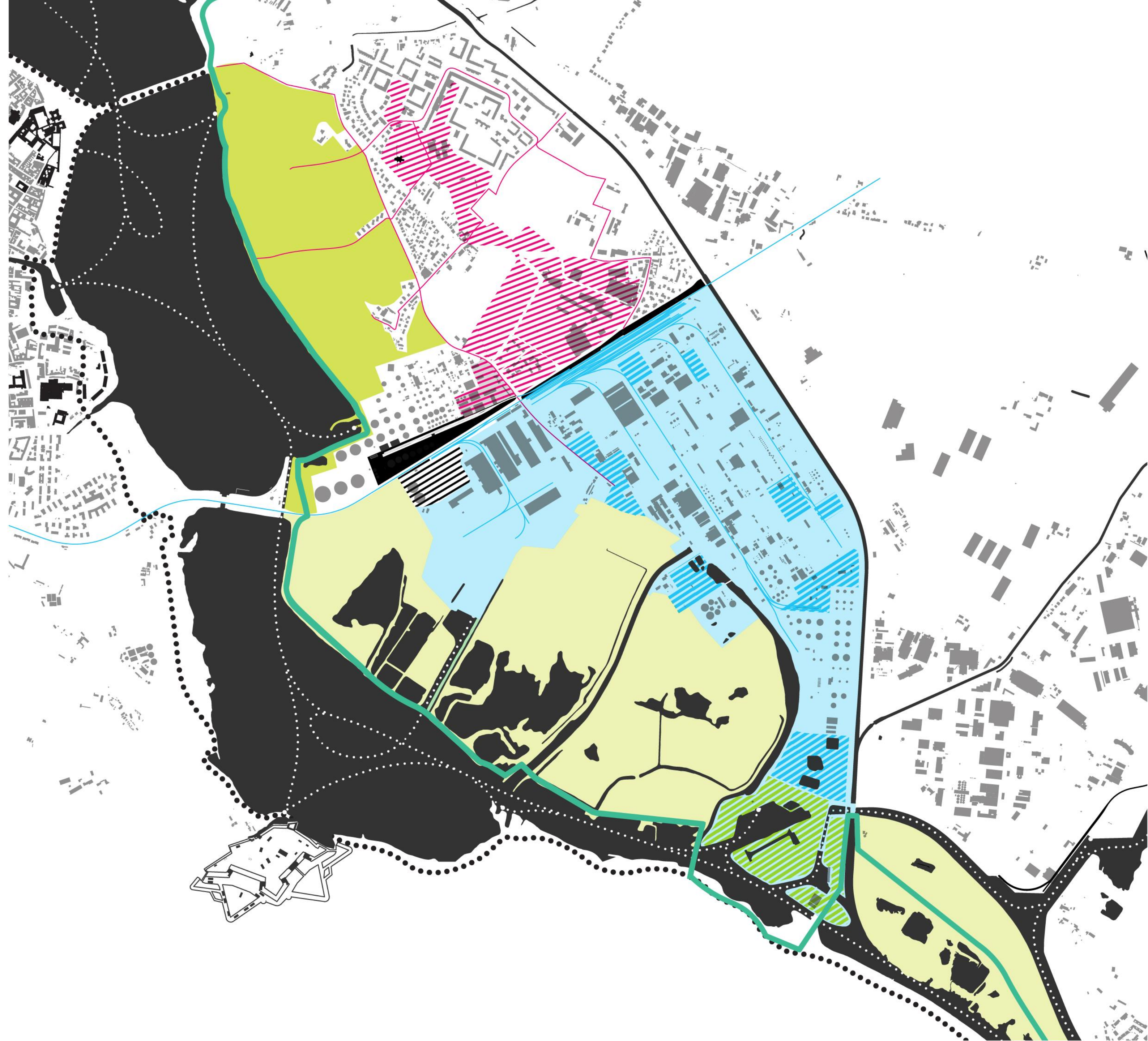




**World Forum on
Urban Forests**
Mantova 2018

+
PHASE 2
2020-2035

-  CONTEMPORARY PARK
-  CREATIVE DISTRICT
-  INDUSTRIAL PARK

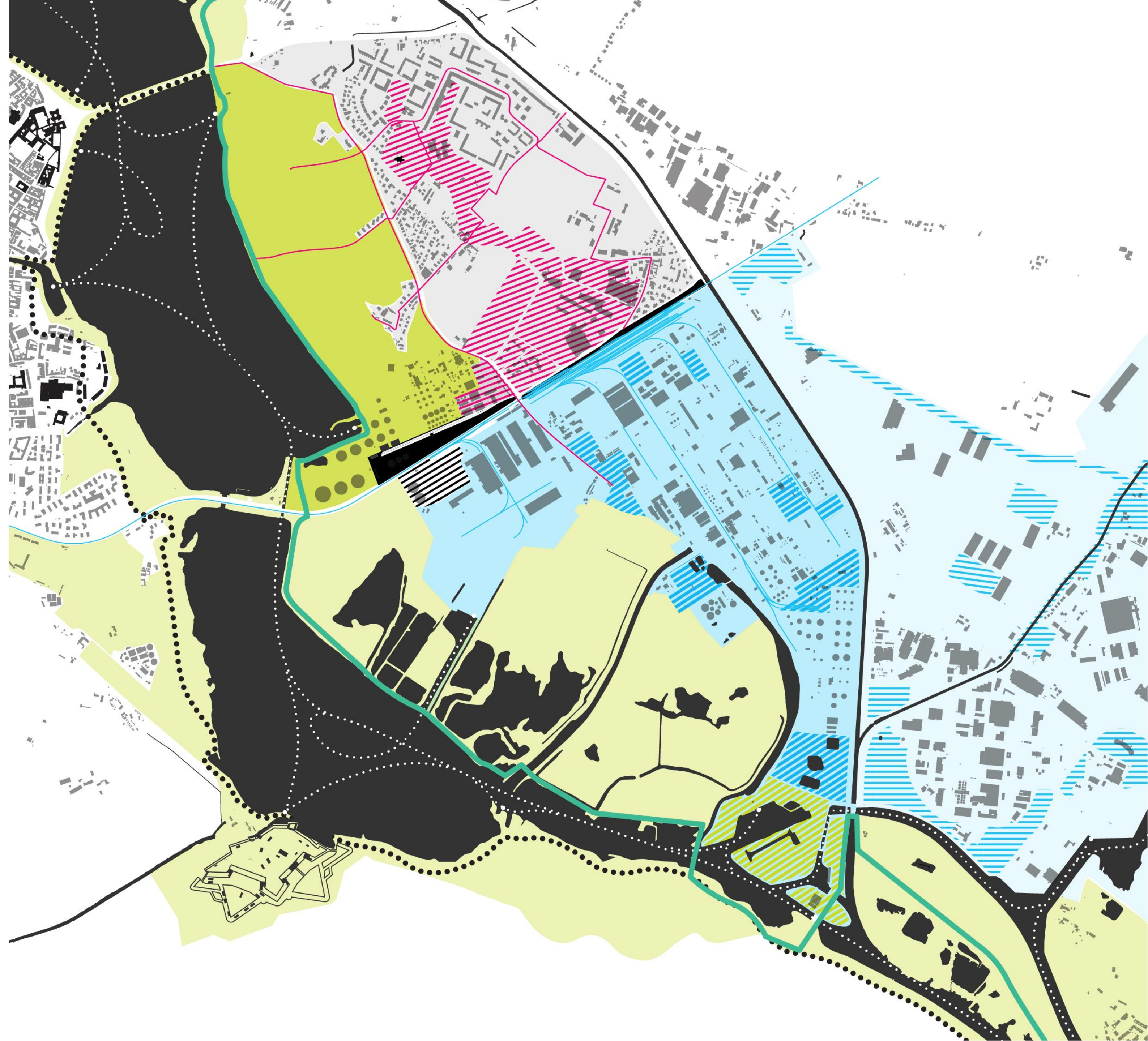




**World Forum on
Urban Forests**
Mantova 2018

+ **PHASE 3**
2035-2050

-  CONTEMPORARY PARK
-  CREATIVE DISTRICT
-  INDUSTRIAL PARK

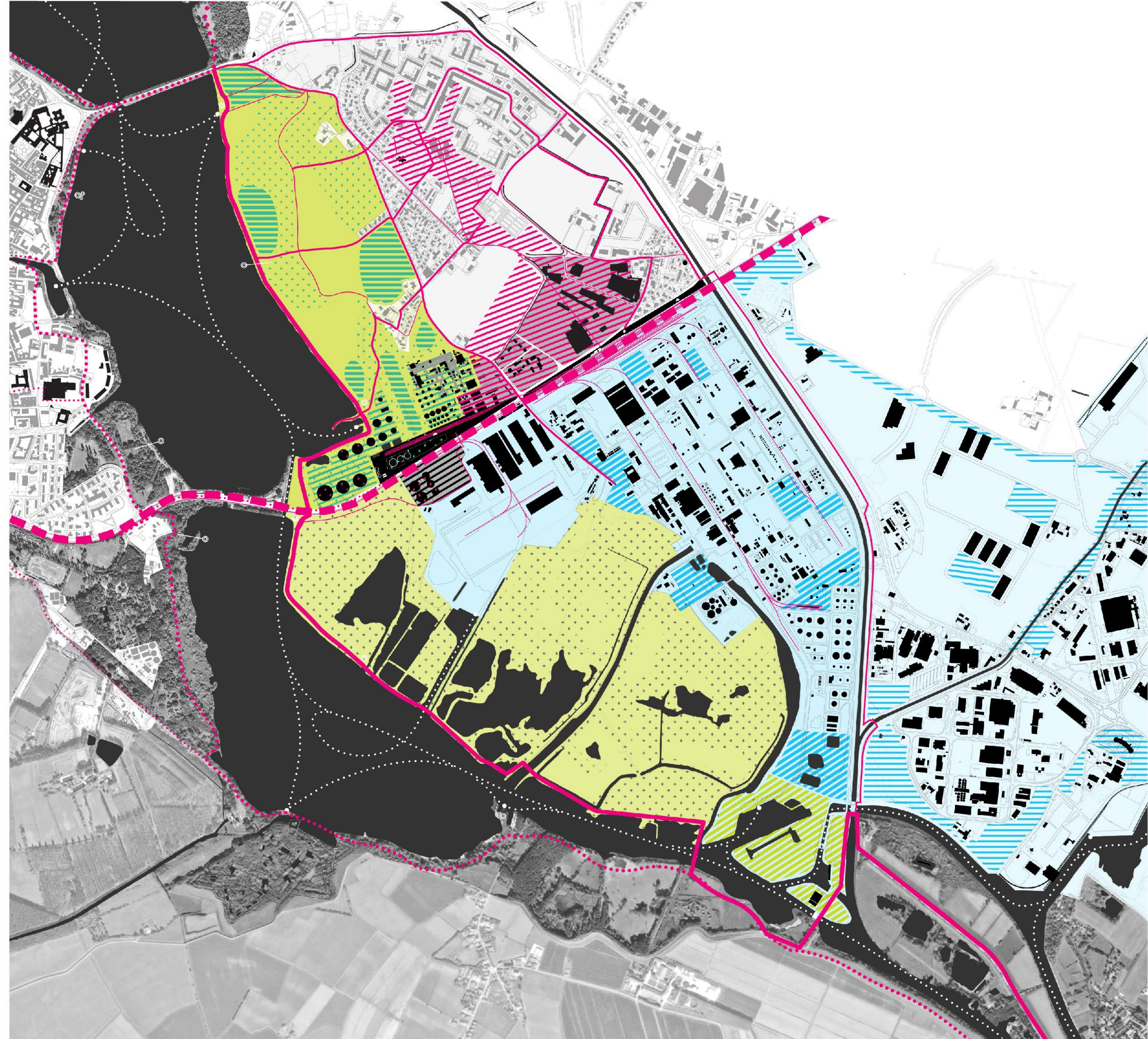




**World Forum on
Urban Forests**
Mantova 2018

**+ SPATIAL
STRATEGY**

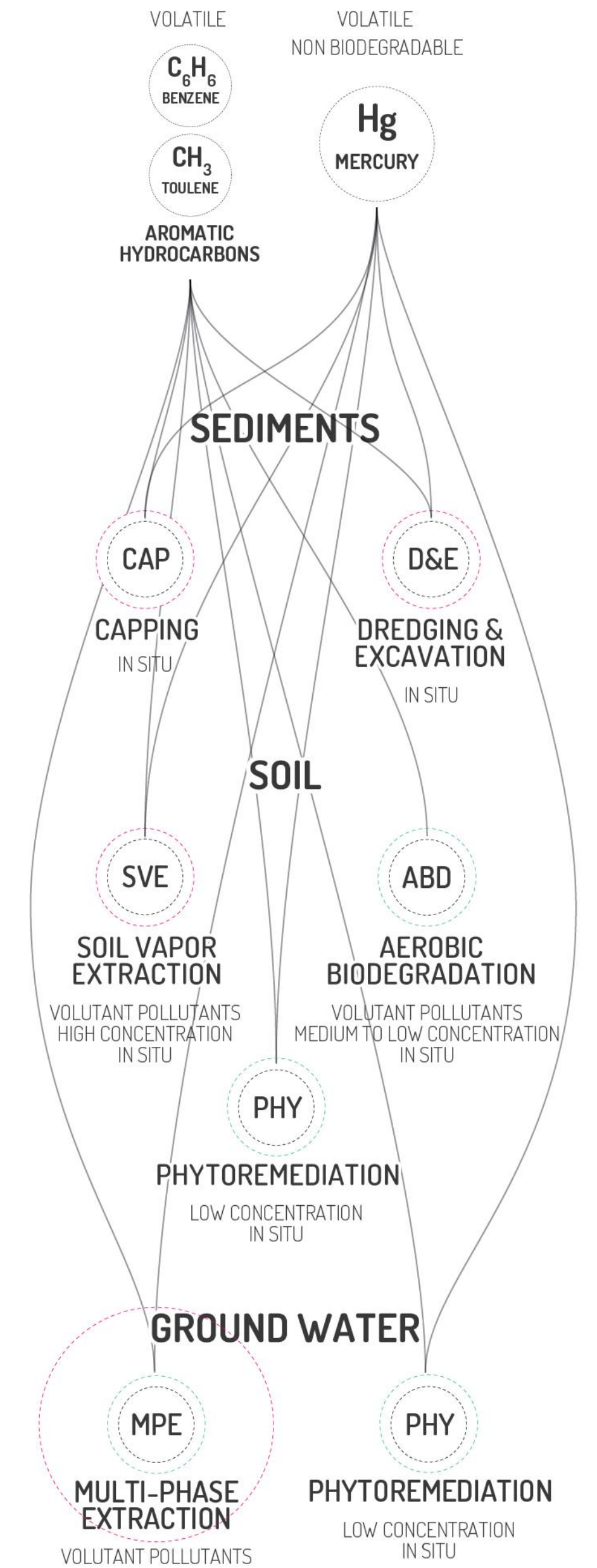
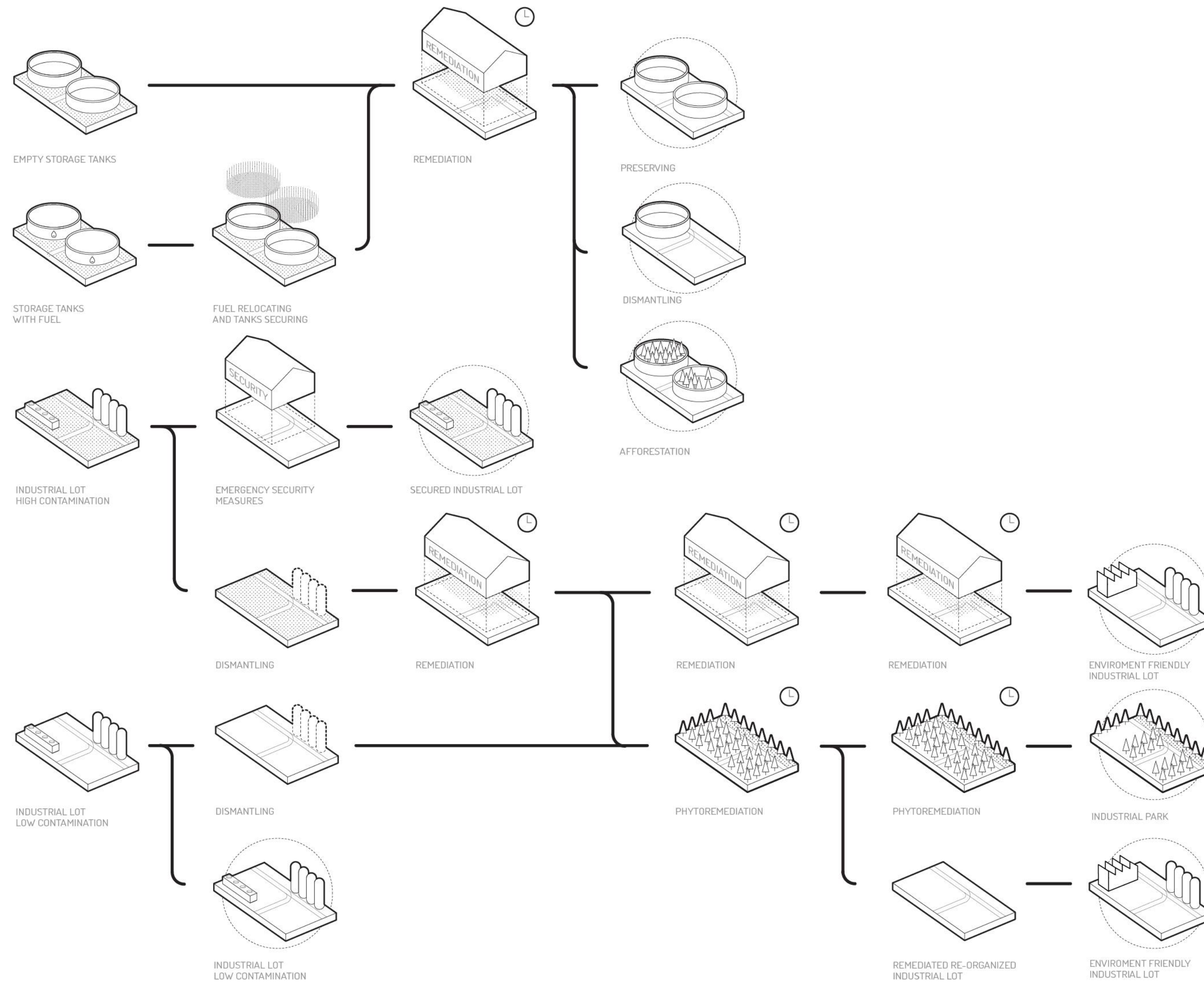
-  CONTEMPORARY PARK
-  CREATIVE DISTRICT
-  INDUSTRIAL PARK





World Forum on
Urban Forests
Mantova 2018







+ REMEDIATION STRATEGY

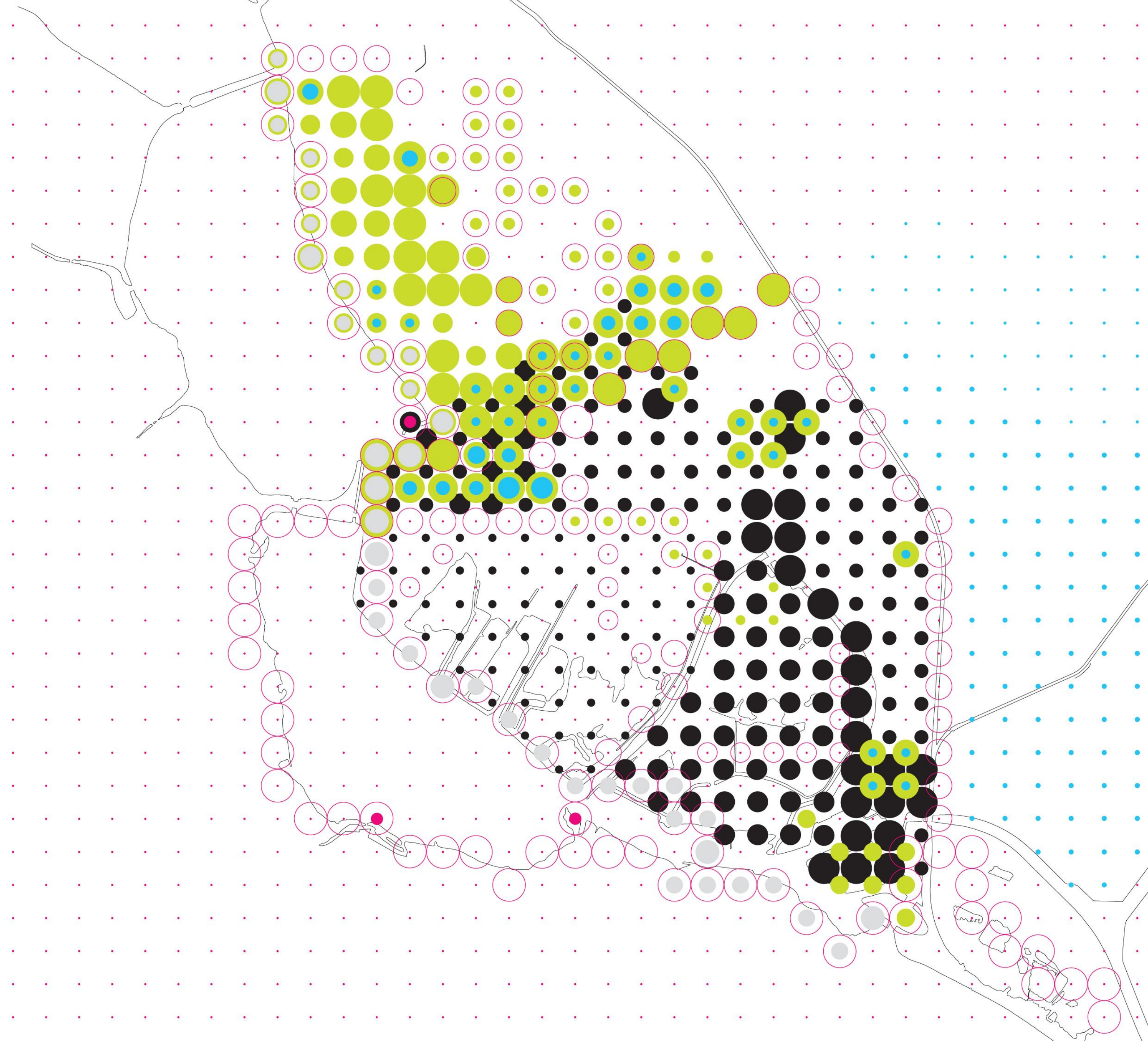




**World Forum on
Urban Forests**
Mantova 2018

+ ACTIONS PLAN

-  MOBILITY - CONNECTION
-  MOBILITY - CHANGE MEANS OF TRANSPORT
-  VISUAL CONNECTION
-  VEGETATION
-  PROGRAM
-  REMEDIATION





**World Forum on
Urban Forests**
Mantova 2018

+ MASTERPLAN



LEFT BANK

VISUAL CONNECTIONS

- VERTICAL MIRADOR
- ◐ HORIZONTAL MIRADOR

PHYSICAL CONNECTIONS

- LEVEL 0
- LEVEL 1
- LEVEL 2

VEGETATION

- EXISTING TREES
- NEW TREES
- GRASS FIELDS

RIGHT BANK

REGENERATE MANTUA
MASTERPLAN COMPETITION
STEFANO BOERI ARCHITECTS, 2016

MANTOVA HUB PROJECT
STUDIO CORVINO+MULTARI, 2017

SLOGO PROJECT - GROUP 4

PLANNING IN HISTORICAL
CONTEXT STUDIO,
2016/2017,
PROF. A. BALDUCCI, C. GEROLDI
POLITECNICO DI MILANO





**World Forum on
Urban Forests**
Mantova 2018





**World Forum on
Urban Forests**
Mantova 2018



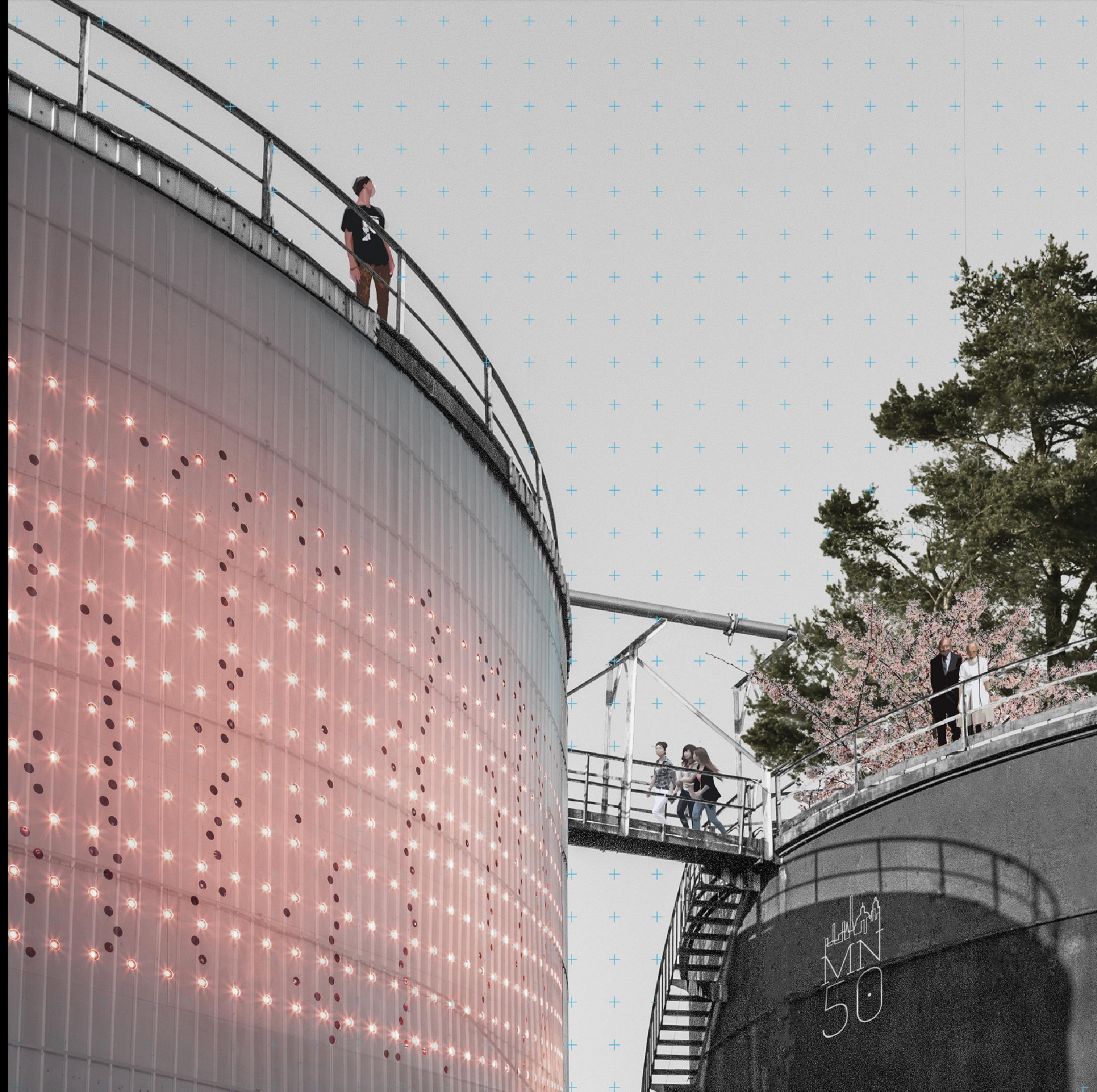


**World Forum on
Urban Forests**
Mantova 2018





**World Forum on
Urban Forests**
Mantova 2018





**World Forum on
Urban Forests**
Mantova 2018





World Forum on
Urban Forests
Mantova 2018





**World Forum on
Urban Forests**
Mantova 2018





**World Forum on
Urban Forests**
Mantova 2018





**World Forum on
Urban Forests**
Mantova 2018

The Urban Forest as the guiding element
for generating better inhabiting environment.



**World Forum on
Urban Forests**
Mantova 2018

Thank you.