

Collegio di Architettura

MSc Degree Course in Architecture for Sustainability

a.y. 2022-2023

Teachers:

Carla Bartolozzi Giulia Sammartano Alessandro Fantilli



Restoration and integrated conservation B - 01VNXPX CASE STUDY: WESTERN EXEDRA OF STUPINIGI

### MAIN AIM



The **Restoration and integrated conservation B atelier** aims to allow the students to acquire a conceptual and operational ability of the different disciplines that can flow into the project of conservation and regeneration of architectural contexts

### three disciplines / one project

### TEACHERS GOALS

#### RESTORATION

Prof. Carla Bartolozzi, carla.bartolozzi@polito.it

Tutor: Daniele Dabbene daniele.dabbene@polito.it

- •Study of the complex within its territorial context and in relation to its history
- Mapping of degradations and instabilities
- Proposal of re-functionalization
- •Enhancement of the architectural asset

#### ANALISI ELEMENTI





Risalto verticale di una parete muraria con funzione decorativa o di



-Architrave
Elemento
architettonico
disposto
orizzontalmente al di
sopra degli elementi



-Arco
Elemento
architettonico con
struttura ad asse



-Paramento Murario Sistema di muratura in blocchi lapidei regolari con giunto di allettamento in



Piattabande e archi Elemento strutturale in muratura usato per delimitare superiormente vani di porte e finestre



SERRAMENTI











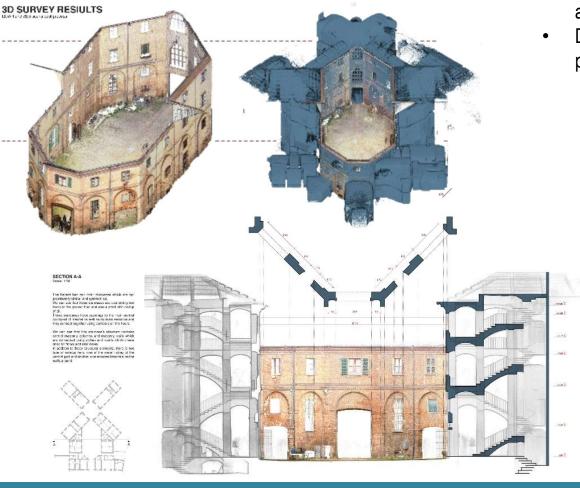
piano e l'altro

### TEACHERS GOALS

#### **GEOMATICS**

Prof. Giulia Sammartano giulia.sammartano@polito.it

Tutor: Alessandra Spreafico <u>alessandra.spreafico@polito.it</u>



- Study and practice of innovative3D survey technologies (image- and range-based techniques)
- Evaluating and selecting the most suitable survey and representation solution
- 3D modeling strategies to describe architectural complex and as key communication and dissemination systems
- Different scales of analysis, and metric control of photogrammetic and Lidar data



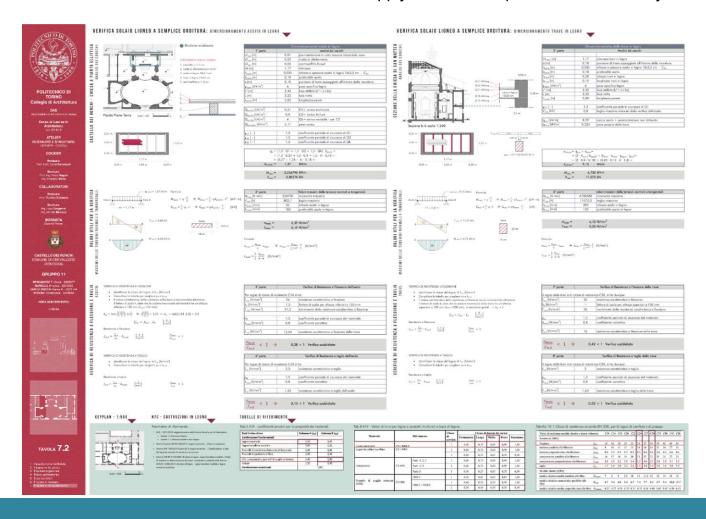
### TEACHERS GOALS

#### STRUCTURAL ENGINEERING

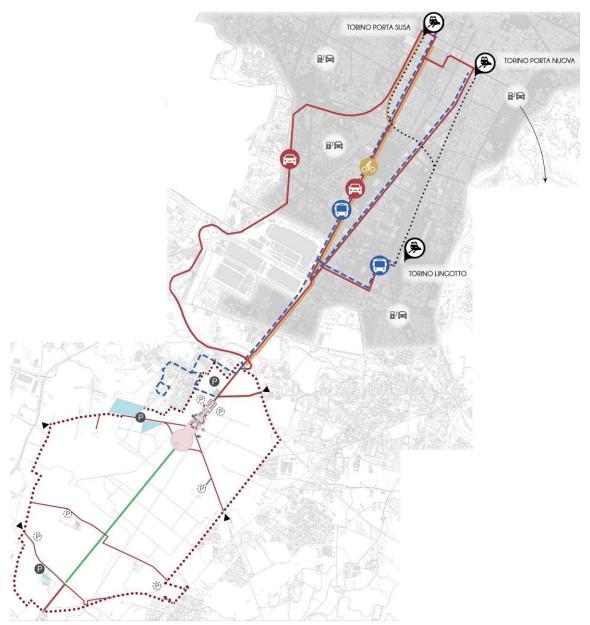
Prof. Alessandro P. Fantilli alessandro.fantilli@polito.it

**Tutor: Nicholas Burello** 

- Perform structural analysis of historical structures
- Recognize structural defects and define possible retrofitting solutions
- Measure the structural safety of existing buildings in seismic zone
- Apply the skills acquired in a case study



### WHERE



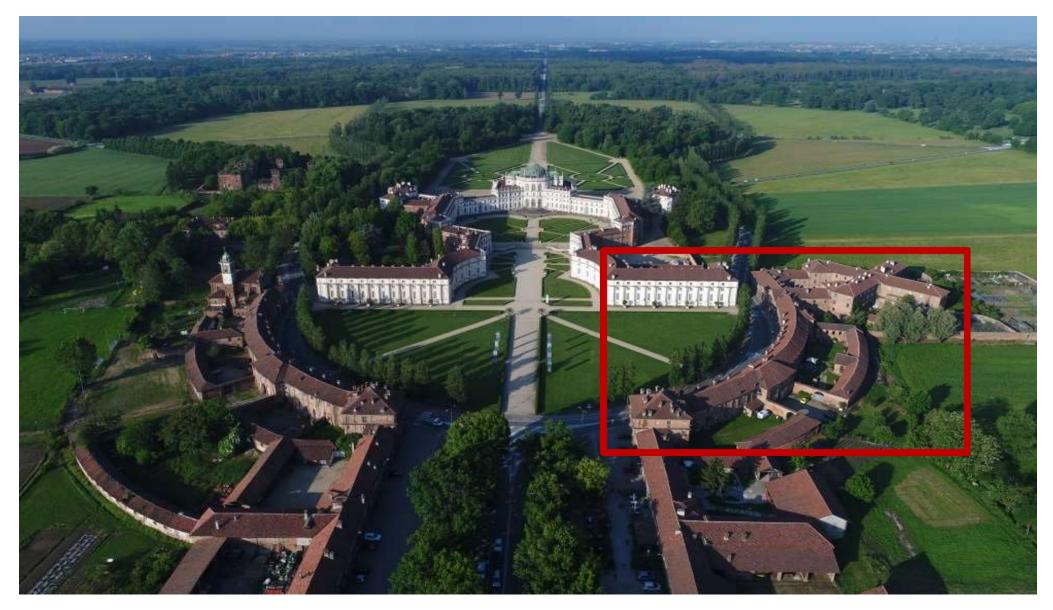


## WHAT



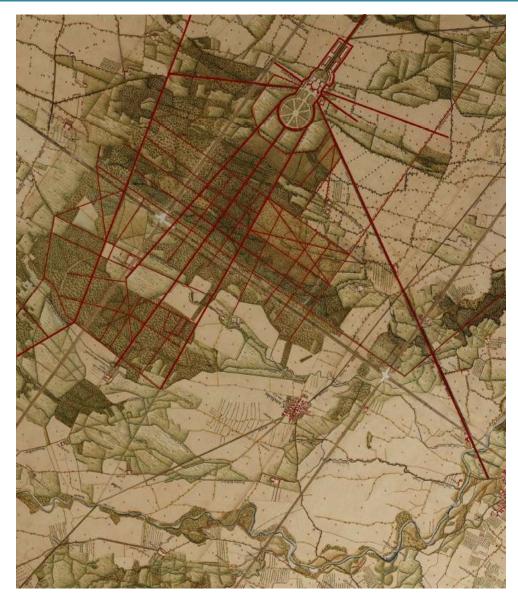
Palazzina di Caccia di Stupinigi and concentric

## WHAT

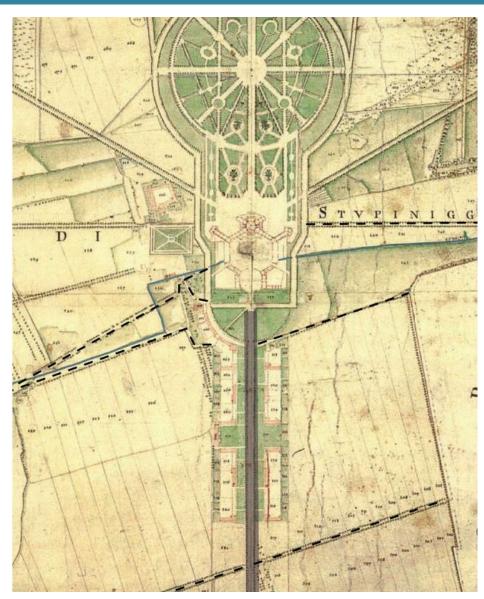


The so-called «exedra buildings» seen from the back, in relation to the surrounding farmland

### WHEN



Carta delle cacce, 1760. (AST, Corte, Carte topografiche e disegni, Carte topografiche segrete)



Mappa della Commenda di Stupinigi, 1757-1762. (AOM, Tipi e Cabrei, Stupinigi 48 quater)

### WHEN

#### FILIPPO JUVARRA

Galleria dei ritratti, biblioteca, 1729-35

-Appartamenti del re e della regina, 1730

-Cascine, 1748

-Guard'arnesi e appartamenti del Principe di Carignano

#### BENEDETTO ALFIERI

Esedra, 1739-40

Podere S.Ippolito 1751

Appartamento del duca di Chiablese, 1751-63

-Esedra, seguendo lo schema Juvarriano, 1755-56

-Esedra, seguendo lo schema Juvarriano 1759-1760

Podere S.Giovanni, 1761-63

#### LUDOVICO BO

Esedra, 1779-80

Orangèrie 1791-92

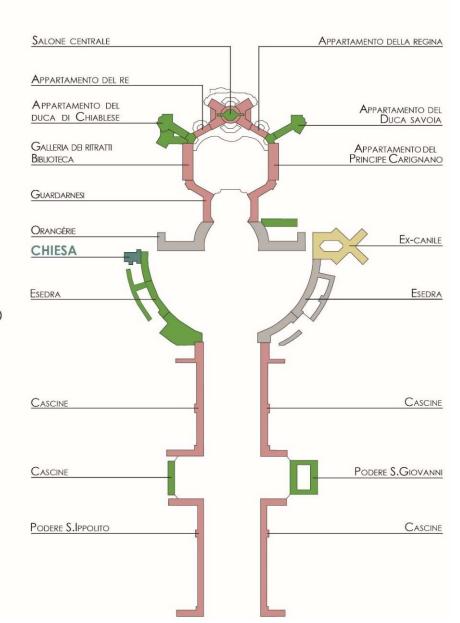
- Salone centrale 1790-91

#### GIOVANNI TOMMASO PRUNOTTO

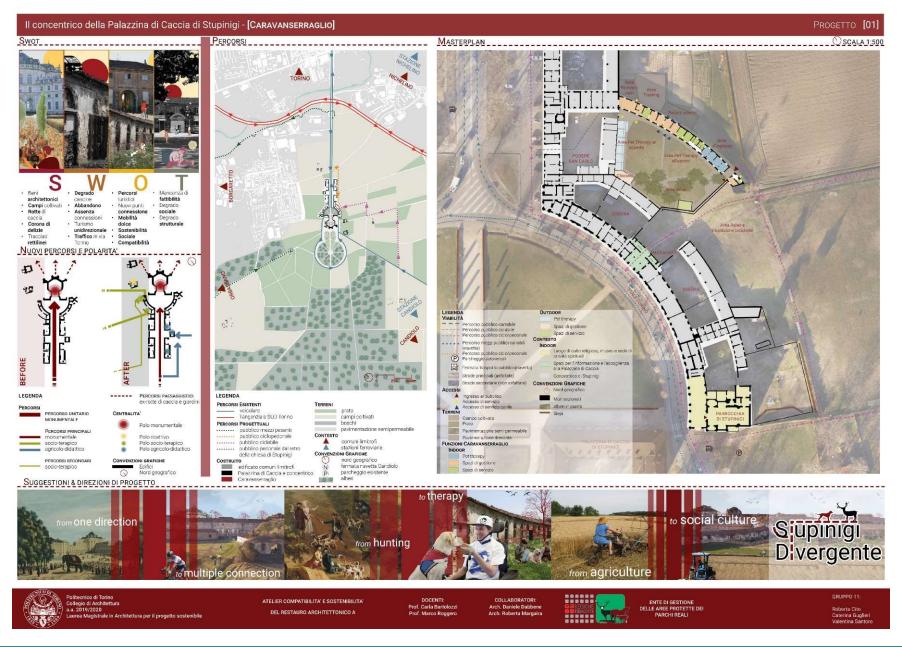
Chiesa, 1737-39

#### BIRAGO DI BORGARO

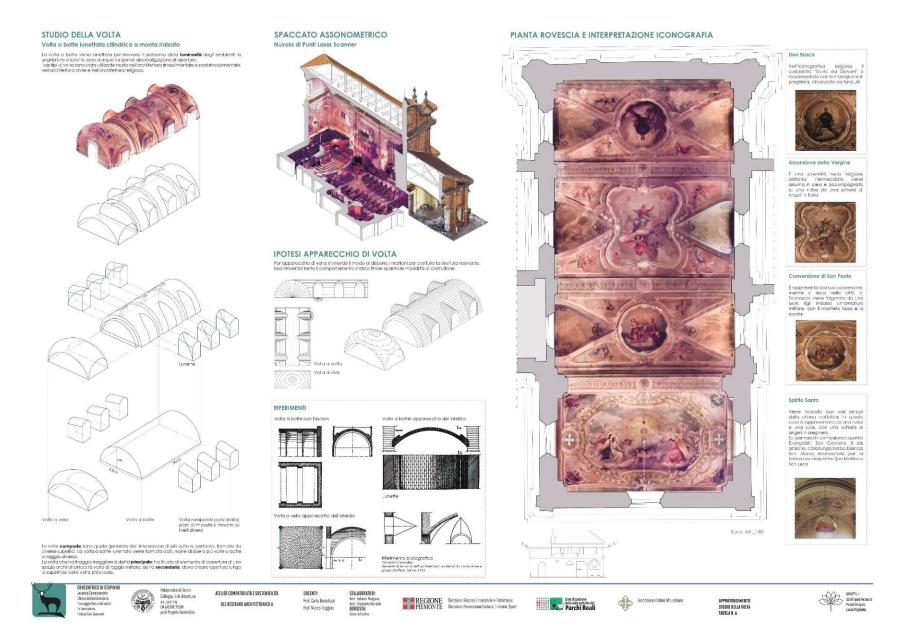
Ex- canile (con Ludovico Bo), 1769-80















CONCENTRICO DI STUPINIO Locardo Castelvecchie Chiesa della Meticoline Passaggio finto dei solici Ex lavanderia Pocire San Davenni

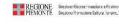


ATELIER COMPATIBILITÀ E SOSTEMBILITÀ

DEL RESTAURO ARCHITETTONICO A

COLLABORATORI Arch Richerta Marg Arch Elisabetta Dor BORSISTA: Sinche Forma

Prof Carlo Bartolozzi







OGGETTO: ANALISI DEL DEGRADO\_6.2





