



# RESILIENT FORTRESS – SUOMENLINNA SUMMER SCHOOL

2–4 September 2024

ERASMUS +



Funded by  
the European Union

Final Program v2



# RESILIENT FORTRESS – SUOMENLINNA SUMMER SCHOOL

2–4 September 2024

ERASMUS +

Ancient and modern fortifications were designed by the best available military engineers and designers. They were places of technological and logistic innovation, planned to be autonomous in case of siege. These places of defence and attack can educate us on building techniques, on economic use of building materials and recycling, as well as on water management. Since the 16th century and until the 20th century the architecture of war includes massive amounts of earthworks spread to wide areas that today are proper to ecological reserves much needed in the preservation of biodiversity. More than any other category of cultural heritage, the widespread fortified heritage unite architecture with landscape.

Due to the structural strength of defensive structures, many European fortifications once abandoned by army, have become protected monuments, places to live and to work, places to visit. They have a meaningful potential in European well-being, and they have an important role in teaching us our own history in its international context.

Originally built to resist artillery, it is almost a paradox, that today the new common enemy of fortified heritage is climate change. Since about ten years – at least in Suomenlinna – the negative effects of climate change are clearly detectable: both masonry structures and cultural landscape have become vulnerable.

The restoration principles of protected sites follow international recommendations. In addition, every site has its own problematics related to its characteristics and the balance between the needs and the means available. Site related restoration solutions are always required. These global and local characteristics on protection and conservation are also proper to military architecture itself. The development of fortifications design can be considered as global – because the military architecture has always been related to a worldwide development of weapons – and local, because defence constructions are always site-specific, built as much as possible with local materials.

Facing the common challenge of climate change, the awareness of environmental sustainability has increased also in the field of cultural heritage. Today we know that to find solutions in preserving at the same time fortified landscape, its built structures, and its ecosystems is an urgent necessity.

Suomenlinna Summer School is the first event of nine-month ERASMUS + project Resilient Fortress. Thanks to European funding, professionals engaged in fortified heritage preservation in Naarden (NL), in Mont-Dauphin and on the Port of Vauban, Antibes (FR), in Forte Monte Tesoro and Forte Aurelia (IT) and in Suomenlinna, Hamina, Hämeen linna, Olavinlinna, Turku Castle (FI) and Bomarsund (Åland) together with experts on climate change from Helsinki Municipality and biodiversity from Sitowise Oy, can meet, exchange experiences, ask questions and learn from each other.



Mont-Dauphin 2023 © Stéphane Aboudaram - We are Content(s) / CMN Naarden



CENTRE DES  
MONUMENTS NATIONAUX



# RESILIENT FORTRESS – SUOMENLINNA SUMMER SCHOOL

2–4 September 2024, ERASMUS +

## MONDAY, 2 September 2024

**Suomenlinna general presentation** 15:45–19:00 (21:00)

Ferry from the Market Square 15:30

- 15:45 From ferry arrival walk to Länsi-Mustasaari (Island E) and Pikku Mustasaari (Island D)
- 18:15 General Presentation (C40, GBS Officebuilding)
- 19:00 Dinner at Panimo Restaurant (C1)
- 21:00 Ferry to the Market Square

## TUESDAY, 3 September 2024,

Venue: Suomenlinna B17c / Fersen

**Lecture day** 9:30–18:00 (20:30)

Ferry from the Market Square 8:50

- 9:30 **Introduction to Summer School** Tuija Lind
- 9:35 **Restraining the Climate Change in Urban Planning** Alpo Tani
- 10:00 **What is Biodiversity?** Jaakko Erävuori
- 10:25 Coffee break
- 11:40 Suomenlinna (FI)  
**Fortifications, Landscape, Vegetation: what are the Future Values in Suomenlinna Maintenance and Restoration?** Tuija Lind, Pia Kurki, Ina Johansson
- 12:35 Naarden Fortifications (NL)  
**Knowledge and Research-based Preservation**  
Jeroen van der Werf  
**Towards a New Green Maintenance**  
Federica Marulo
- 13:30 Lunch at Restaurant Adlerfelt (B1)
- 15:10 Mont Dauphin Fortification (F)  
**Conservation Issues**  
Laurent Alberti, Isabelle Fouilloy-Jullien



Forte Monte Tesoro

16:00 Forte Monte Tesoro and Forte Aurelia (IT)  
**Restoration and Preservation of Fortified Heritage and its Landscape** Fiorenzo Meneghelli, Andrea Meneghelli

17:00 Antibes (F)  
**Port Vauban - Bastion St Jaume's Preservation in a Global Transformation Project; Preserving the Living, another Way of Restoring**  
Germaine de Bazelaire, Baptiste Grandais

18:30 Boat trip with buffet-dinner  
Departure from Tykistölahti (Artillerie Bay)  
20:30 arrival at the Market Square

## WEDNESDAY, 4 September 2024 /

Venue: Suomenlinna B17c / Myllysalu

**Visits, workshop** 9:30–16:00

Ferry from the Market Square 8:50

9:30–11:00 Walking tour in Kustaanmiekka (Island A)  
11:00–12:25 Workshop on sustainable maintenance and restoration practices

13:00 Lunch at Valimo (B13)

13:45–15:00 Walking tour in Susisaari (Island B)  
15:00–16:00 Summary, Erasmus + meeting



Bastion Saint Jaume, Port Vauban, Antibes, EDITADA



# RESILIENT FORTRESS – SUOMENLINNA SUMMER SCHOOL

2–4 September 2024

ERASMUS +

Speakers and Partners



**Alpo Tani** has a planning geographer and urban planner background, currently working as a climate change mitigation specialist in the Helsinki urban environment department. He has been working with climate change related strategic urban planning questions for 15 years and his work has included wide variety of projects ranging from development of evaluation methods for climate impact assessments to planning of green transition needed both within transportation and energy systems.



**Lauri Erävuori** is a biologist specialized in ecology. He is currently working as a leading consultant in Sitowise Oy. He has been working with biodiversity related projects for over 20 years including nature studies, biodiversity planning and environmental impact assessment.



**Jeroen van der Werf** is an engineer and a construction historian. He currently works for the Stichting Monumentenbezit where he is in charge of the restoration and preservation work of the fortifications of Naarden. He studies the history of the fortifications and the technical specifics of the materials used there. He is a member of several European organizations involved in fortifications and castles and is the secretary general of the International Fortress Council.



**Federica Marulo** is an architect who has worked with the Stichting Monumentenbezit in Naarden. Currently she is an Assistant Professor on Cultural Heritage and Identity: Material and Intangible Heritage at the University of Groningen. Her doctoral thesis (2022) is intitled *At the Crossroads of Architecture and Landscape, Preservation Strategies of Historic Military Systems: a Comparison between Italy and the Netherlands*.



State architect, **Laurent Alberti** has graduated from the Centre des Hautes Etudes de Chaillot. After working in the private sector, he has worked as the head of the Department of Architectural History and Archaeology of Paris. Today he works as a curator for the Centre des monuments nationaux (CMN), and is in charge of 20 monuments, including the fortified city of Carcassonne, the forts of Salses-le-Château, and Villeneuve-lès-Avignon, as well as the fortress of Mont Dauphin. He also teaches at the École Nationale Supérieure d'Architecture de Paris Belleville.



Graduated from École de Louvre, **Isabelle Fouilloy-Jullien** is an art historian and a chief curator for heritage. She has been the director of heritage department of Briançon for 26 years. Since 2016 she has been working for the Centre des monuments nationaux and is the administrator for the stronghold of Mont-Dauphin and Fort Saint-André.



Fiorenzo Meneghelli is an architect working on the heritage field: restoration of historic buildings, and the recovery of military architecture and enhancement of territorial defensive systems. He coordinates networks of fortified sites, he is the vice president of the Instituto Italiano dei Castelli and president of its Veneto section, also a member of ICOMOS/ICOFORT and head of the Study Centre of Forte Marghera as well as EFFORTS Member. He has set up exhibitions, promoted conferences and published essays on the recovery of fortified works in Italy and Europe

# RESILIENT FORTRESS – SUOMENLINNA SUMMER SCHOOL

2–4 September 2024

ERASMUS +

## Speakers and Partners



**Andrea Meneghelli** is an architect-engineer who has taken part in several international conferences and in a European project on fortified cultural heritage as co-lecturer. He works as a project leader and a BIM coordinator at Mario Cucinella Architects and collaborates with the Studio Architettura Meneghelli for restoration of historic buildings.



**Germaine de Bazelaire** is a French-Polish architect who graduated from the EPFL in Lausanne in 2011. Subsequently she trained in preservation and restoration of architectural heritage at the Ecole de Chaillot in Paris. After having worked for several years in Geneva, she moved to Paris and is currently enjoying her architectural practice as a project manager at the Atelier d'Architecture Philippe Prost. Her current projects include the Port Vauban restoration in Antibes, the renovation of Port Gallice in Juan-les-Pins and the preservation of the Columbarium at the Parisian Père Lachaise cemetery.



**Baptiste Grandais** is an HMONP architect from Normandy. He trained at the École Nationale Supérieure d'Architecture de Paris Malaquais and spent a year in Rome at the Università degli studi Roma Tre. After graduating in 2017, he spent four years working for the Parisian architecture firm Bruther. In 2021, he joined the Atelier d'Architecture Philippe Prost. In particular, he is working on the redevelopment of the Vauban marina in Antibes, the preliminary study for the Fort Carré in Antibes and the restoration work on the Citadelle of Saint-Tropez.



**Rafaël Deroo** is the Secretary general of the European Federation of Fortified Sites, representing 200 sites from 23 countries. EFFORTS focuses on the growth of a network platform for its members in order for them to increase their European project capacity, especially in green adaptive reuse for fortified heritage.



**Pia Kurki** is a landscape architect working for the Governing Body of Suomenlinna. She is responsible of both small- and large-scale restoration and renovation projects on Suomenlinna landscape and infrastructure. Her expertise is used in all projects linked to landscape. Before Suomenlinna she has worked in several private architecture and landscape planning offices. She is the vice chairman of the Finnish Garden Art Society.



Landscape specialist, gardener **Iina Johansson** has been working for the Governing Body of Suomenlinna for 19 years. She is responsible for planning the guidelines of landscape maintenance and waste management and coordinates the process of contaminated soil examination and remediation. She also collaborates with educational field on historical landscape maintenance. Retaining the indigenous vegetation of Suomenlinna is one of her main interests.



**Tuija Lind**, architect, D.Sc (Tech.) trained at the Department of Architecture at Aalto University (Helsinki), has developed three different approaches to heritage through the practice of restoration, conservation theory and archeology. Her field of expression is Suomenlinna (GBS), where she is responsible for fortified structures and historical dockyard. Her theoretical knowledge is developed through writings on the reuse of Suomenlinna and on ruin restoration. As a member of French archaeological mission in Pompeii (Porta Nocera) she observes year after year the traces left by human activity and the degradation of masonry structures. She is a member of Finnish ICOMOS and ICOFORT, a board member of EFFORTS and the coordinator of *Resilient Fortress* Erasmus + project.



3.9 Fersen

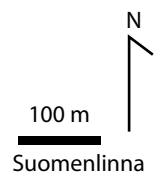
4.9 Myllysalu



**Kauppatori - Suomenlinna**  
Salutorget - Sveaborg

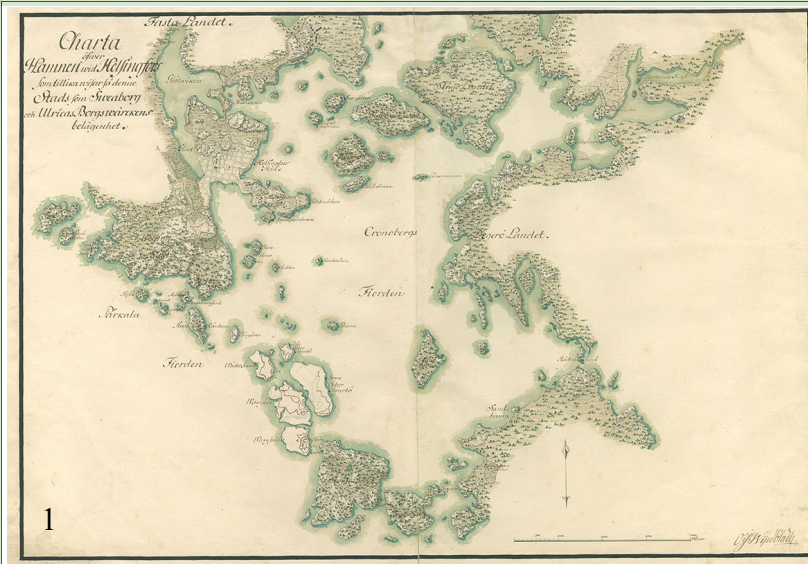
29.4.2024-15.9.2024

Kauppatori Salutorget	Suomenlinna, päälaituri Sveaborg, huvudbryggan
Ma-pe / Må-fr	Ma-pe / Må-fr
6 20	6 00 40
7 00 40	7 20
8 20 50	8 00 40
9 20 40	9 10 40
10-11 00 20 40	10-11 00 20 40
12 00 20	12 00 20
13-14 00 20 40	13-14 00 20 40
15 00 30	15 00 20 50
16-18 00 20 40	16 20 40
19 00 20	17-18 00 20 40
20-21 00 20 40	19 00 20
22 00 20	20-22 00 20 40
23-0 20	23-0 40
1 00 40	1 20
2 20	2 00



Suomenlinna





1



3



4



2

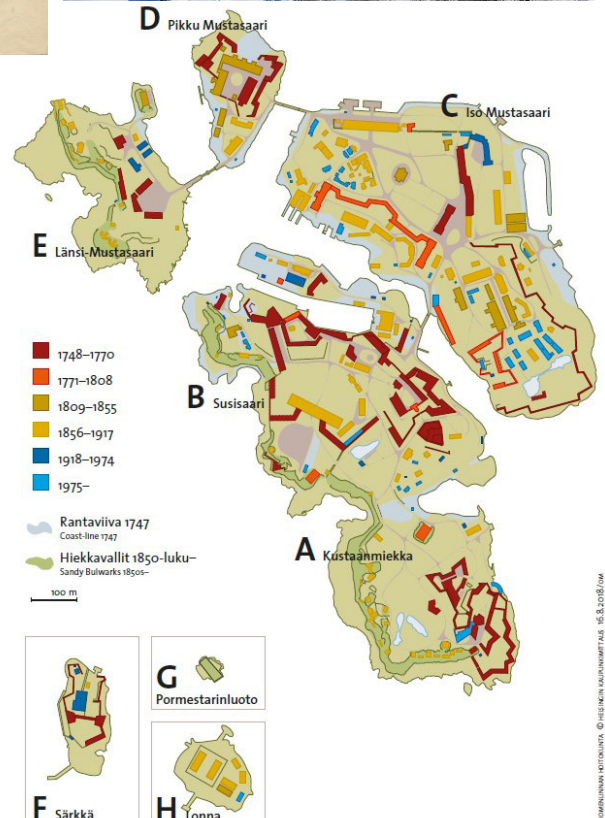


5

- 1. Helsinki 1767, Krigsarkivet Stockholm
- 2. Helsinki 1856
- 3. Suomenlinna 2022, Suomen Ilmakuva Oy
- 4. Dockyard 2022, Suomen Ilmakuva Oy
- 5. Suomenlinna 2012, Suomen Ilmakuva Oy
- 6. Suomenlinna 2023, Leo Laitinen



6



# RESILIENT FORTRESS – SUOMENLINNA SUMMER SCHOOL

2–4 September 2024  
ERASMUS +



Funded by  
the European Union

Project Partners



Supported by



ERASMUS +

KA210-VET - Small-scale partnerships in vocational education and training  
Submitted by the Governing Body of Suomenlinna / M.Lehtimäki, T.Lind, 4 March 2024  
project code 2024-1-FI01-KA210-VET-000249442

## Resilient Fortress, Project Summary

**Objectives:** What do you want to achieve by implementing this project?

Resilient Fortress -project is designed for upskilling professionals facing the challenges of climate change in the context of fortified heritage. An exchange of knowledge and good practices between heritage practitioners from Suomenlinna (FI), Naarden (NL) and Mont-Dauphin (FR) and European EFFORTS-network with invited experts for Antibes / Port Vauban (FR) and Monte Tesoro (IT) and experts on environment and climate change is the way to learn practical green skills applicable on heritage sites.

**Implementation:** What activities are you going to implement?

Resilient Fortress -project is a learning process organized in 6 project activities: project management, Suomenlinna Summer School, Antibes site visit, Mont-Dauphin learning session and Naarden knowledge exchange that take place on sites, in lecture rooms and online with the target group of heritage practitioners from each partner site. The communication and dissemination activity is targeting a wide professional European audience.

**Results:** What results do you expect your project to have?

- Partners have learned sustainable practices to cope with fortified heritage exposed to the effects of climate change and have drafted environmentally responsible guidelines.
- The participants have alert attitude towards climate change and are willing to transform old routines to green skills.
- Results will motivate other fortified heritage sites to develop similar programmes, and provide them with new ideas, concepts, tools that partners will publish in the network collaboration events.

For all information please contact  
tuija.lind@suomenlinna.fi, +358-(0)295 338 337