



Karen Gysen, architect & boardmember EFFORTS, Antwerp Belgium

With contributions from:

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Karen Minsaer, Archeological department , Antwerp

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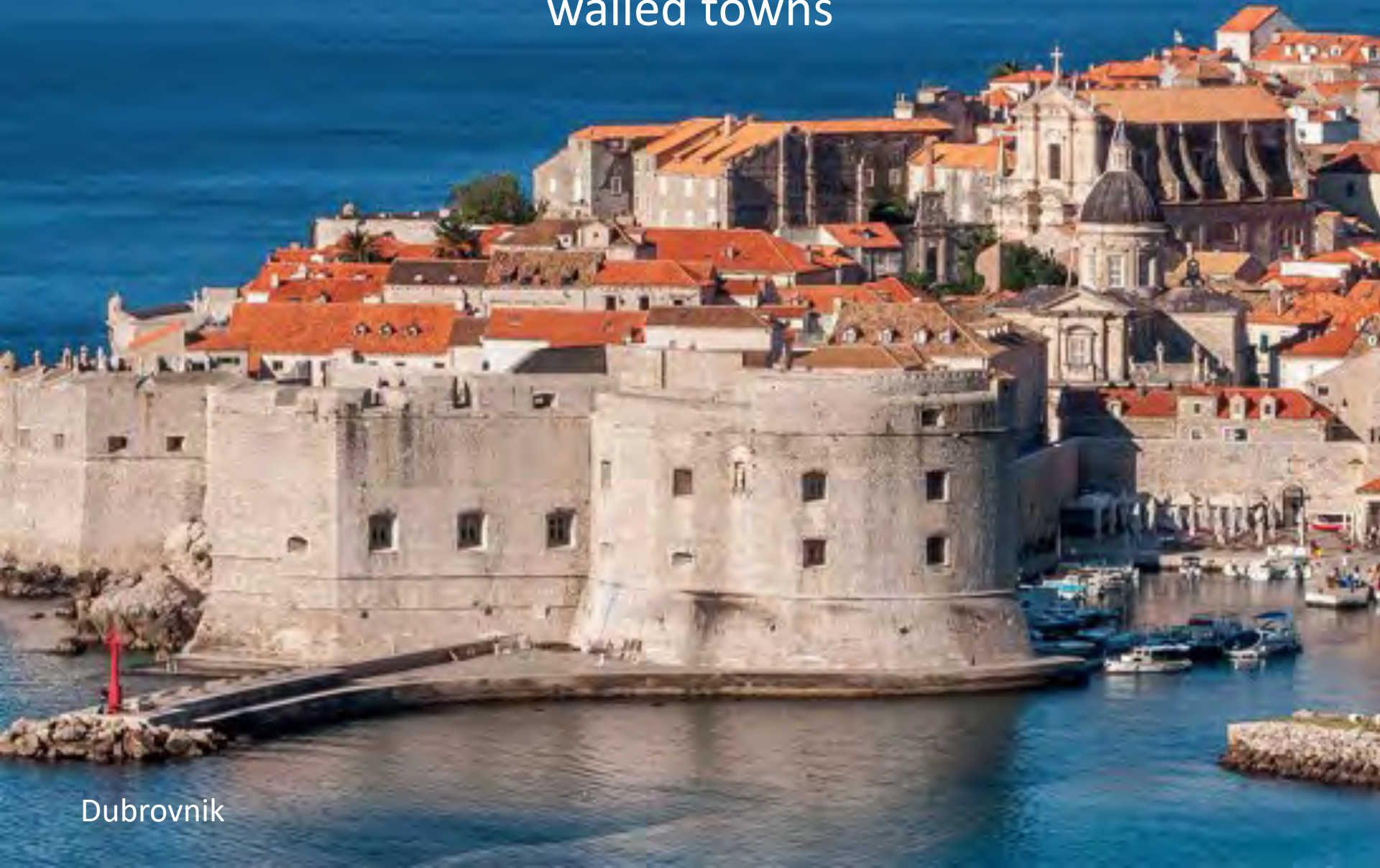




European Federation of Fortified Sites
European network for fortified cities, forts and lines of defence

“From stronghold to welcoming arms”

Fortified heritage walled towns



Dubrovnik

Fortified heritage coastal Towers



Malta

© Maria Zammit

Fortified heritage citadels



Spandau

Fortified heritage

fortresses and antitank-ditches



Antwerp

Fortified heritage military towns



Palmanova

Fortified heritage

archeological sites in urban context



Fortified heritage

archeological sites in open landscape



Newcastle upon Tyne, Tyne and Wear

Fortified heritage

strategic defence lines and bunkers



Fortified heritage

Important to social, spatial and economic development
Cultural historical importance

Part of our common European history



European
Year of
Cultural
Heritage
2018

*"Cultural heritage is not only
a legacy from the past, it is also
a resource for our future"*

Tibor Navracsics, European Commissioner in charge
of Education, Youth, Culture and Sport

Shared Issues

Redevelopment , re-use and maintenance
Environment - specific problems



Mission

**To share expertise, promote cooperation
and emphasize the significance of fortified heritage as a continuing
connection to our
common European history
and as a condition for
social, economic and spatial development.**

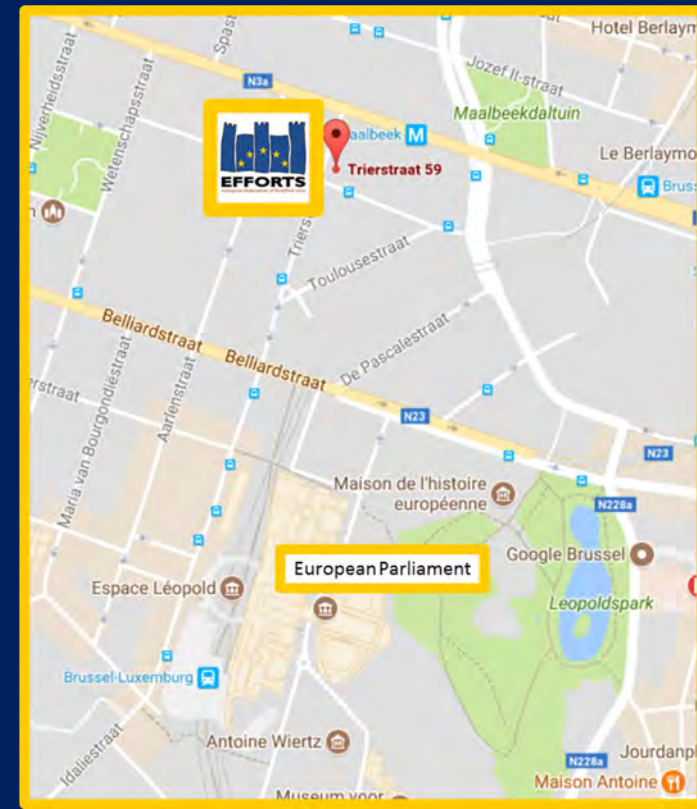


What we offer:

- a platform for the exchange of knowledge, ideas, strategies, project proposals and financial opportunities
- a meeting place for (potential) partners in EU-projects
- advocacy in the interest of fortified heritage in EU

for

- decision makers, practitioners, specialists, project managers, fundraisers, scientists, etc. etc.



Membership benefits



- A portal to build **partnerships**
- Access to a relevant European **network** for fortified heritage
- An **online library** of best practice material, casestudies, technical specs, and toolkits
- Annual European **Conference**
- Awareness of **EU policy** being made
- Development of research and other projects
- European partner network for developing marketing and tourism strategies
- **Expert-to-expert exchanges**
- External project partner **matching service**
- Forum for potential future **project ideas**
- Increased city **profile at European level** through visibility on an online European map of fortified heritage members
- News and **information**
- Periodical scan of available national and **EU funding programmes**
- Production of specific **policy papers**

Join EFFORTS



- Within the Efforts-network, international projects will create innovative solutions, stimulate coöperation and understanding.
- Your work will be more efficient by sharing knowledge, expertise, and best practices. (and you'll save money)
- By joining forces, everyone can benefit from combined knowledge and experience in fortified heritage projects.
- You will be able to meet colleagues from all over Europe, learn about other successful projects, discuss projectcoöperation and transfer knowledge.
- Please apply for membership by filling in the form, which can be found on the Efforts website.

Synergies between Heritage, Tourism and Digital Culture

Case 1 & 2: Integration of fortified heritage, visitor and transport facilities in an urban context: Den Bosch (NL) and Antwerp (B)

Case 3: Balancing between being a historic Unesco site, tourist destination, place to work and place to live. Helsinki (FIN)

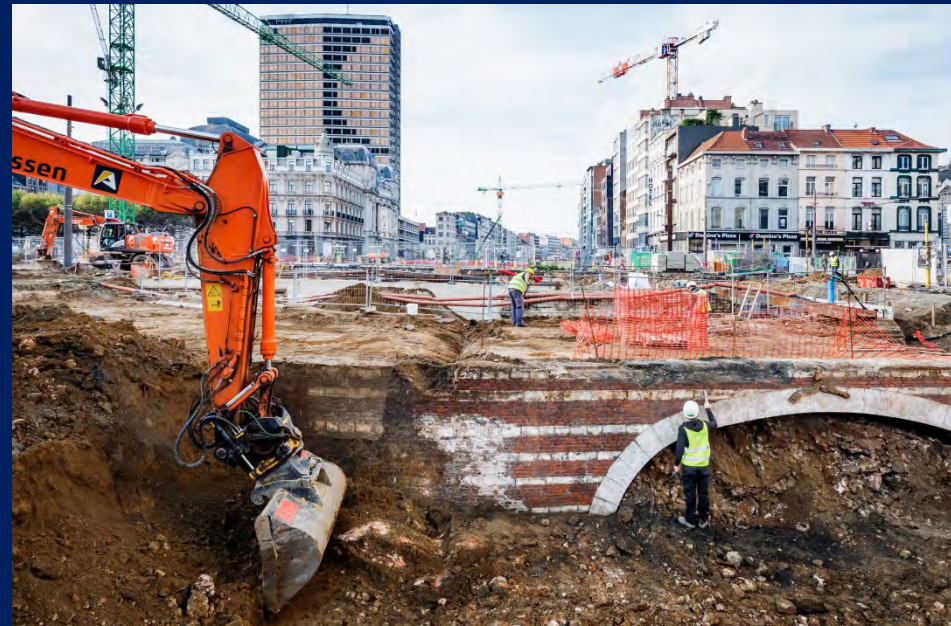
Case 4: Bringing military heritage sites to life with Augmented Reality. (EU-project proposal)

Integration of fortified heritage & facilities in an urban context

's Hertogenbosch



Antwerp



's Hertogenbosch

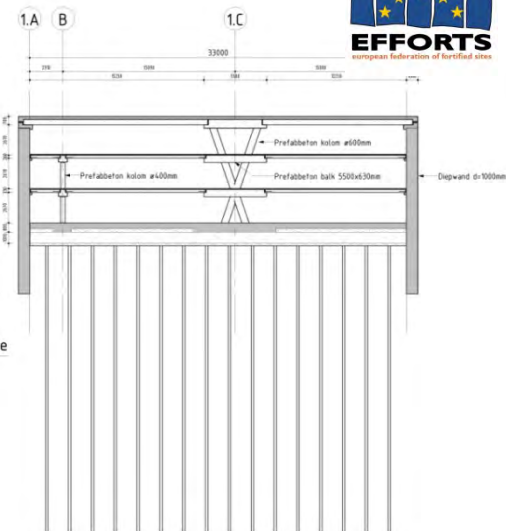
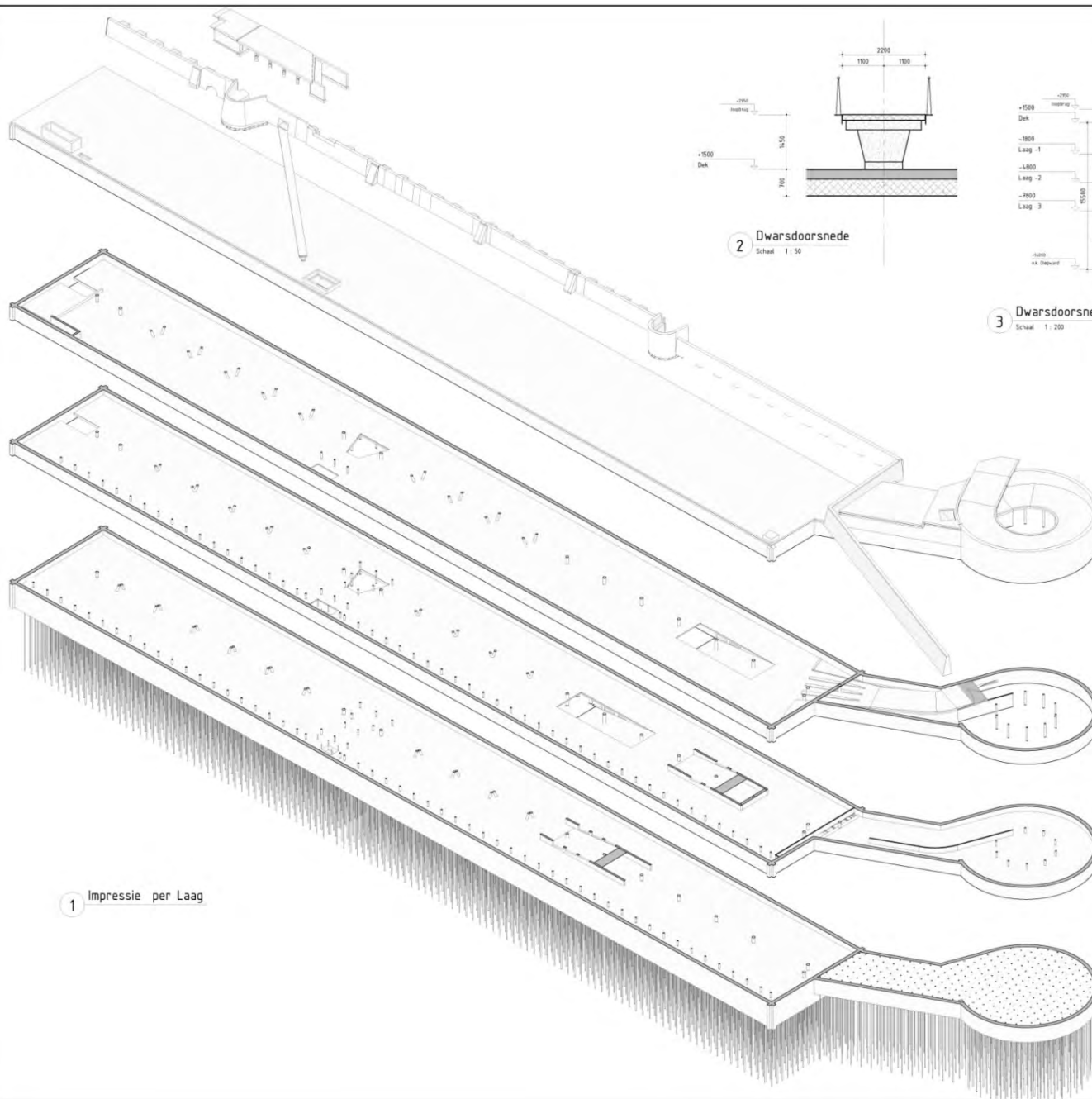




Carpark 2012







A	Concept	P. de Lennep	29-12-2019
Vereniging	Beelding	Beelding	Beelding
Geplandeerd	G. van Engelen	Verplegen	M. van Eindhoven
 <p>ARCADIS Infrastructure Water & Energy</p>			
<p>Studio Leon Thier</p> <p>Zwaardsloot 16 2584 TX Den Haag</p> <p>Tel. 070 358 40 00 Fax 070 358 44 88 info@studioleonthier.nl www.studioleonthier.nl</p>			
<p>Architecten</p> <p>Gedirecteerd: Gemeente 's-Hertogenbosch</p>			
<p>Project: Vink en Vlak</p>			
<p>Endoorsnee: Impressie per Laag Eindsituatie</p>			
<p>Fase: VERBODIG ONTWERP</p>			
<p>Ontwerp: M. van Engelen, J. van Eindhoven, G. van Eindhoven</p>			
<p>Beeldvorm: M. van Engelen, J. van Eindhoven, G. van Eindhoven</p>			
<p>Beeldvorm: M. van Engelen, J. van Eindhoven, G. van Eindhoven</p>			
<p>Projectnummer: E01034.000098</p>			
<p>Projectnummer: CV1-4101</p>			
<p>Projectnummer: A</p>			









Carpark 2016



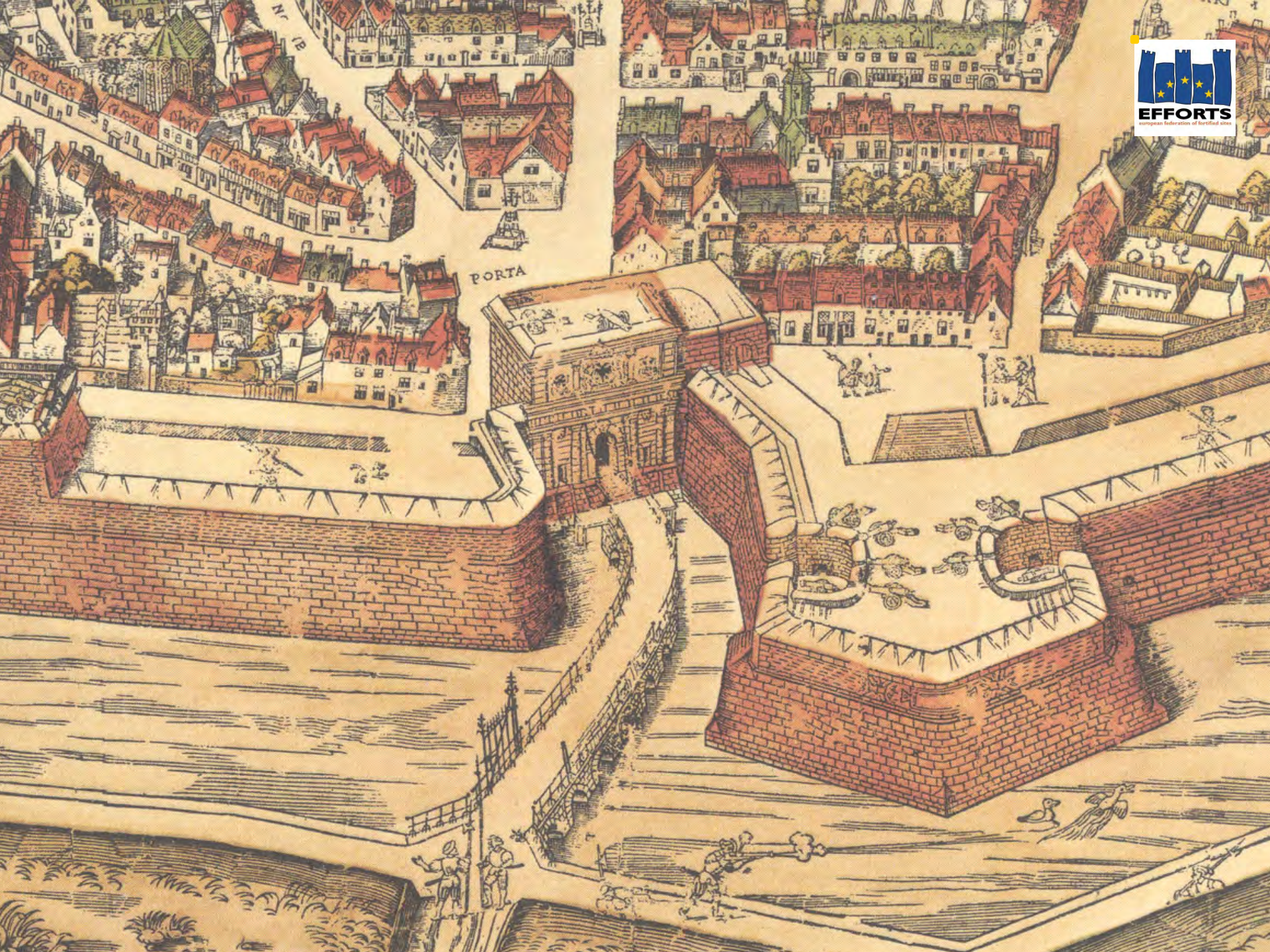






Antwerp







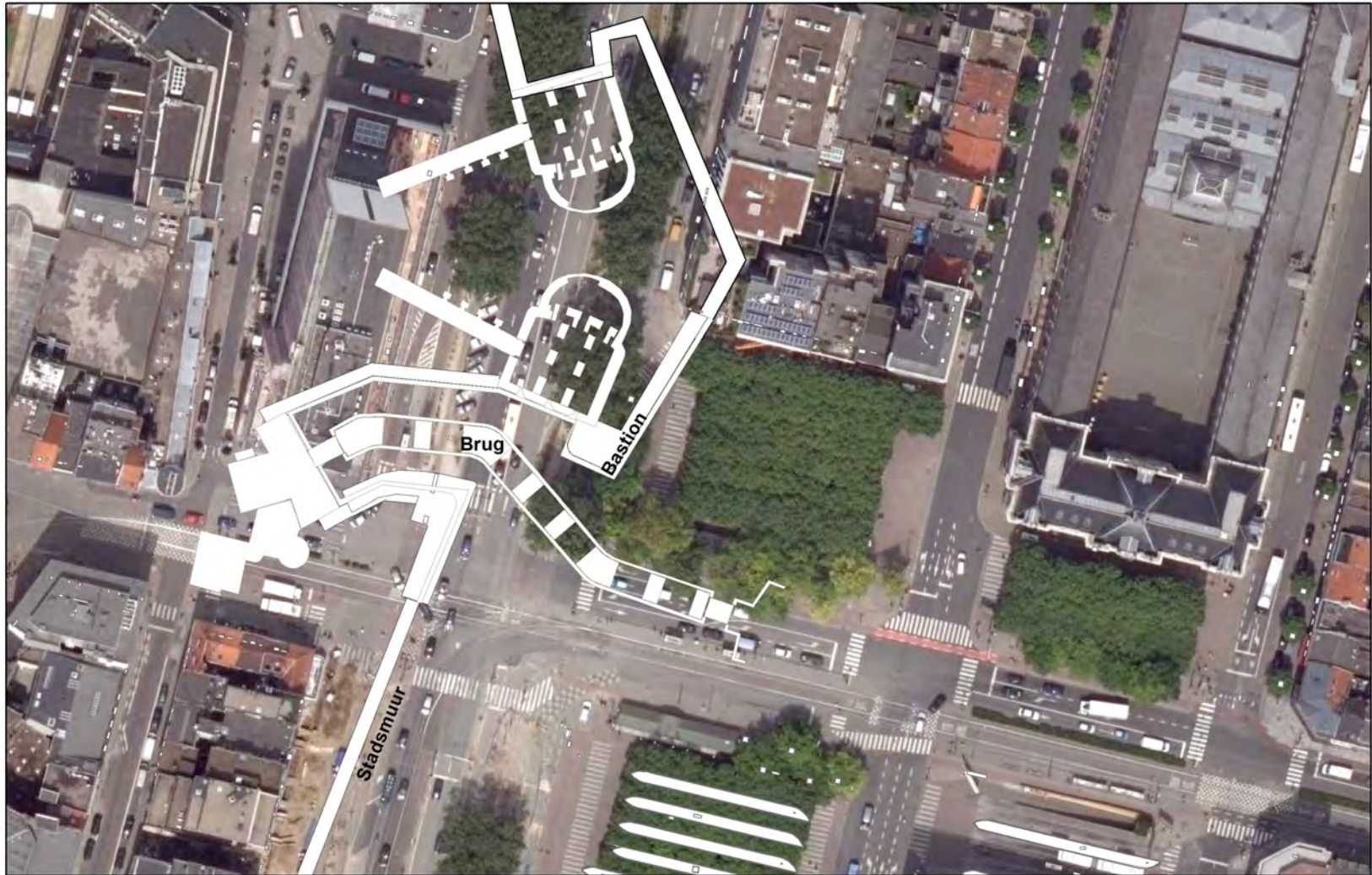
Demolished in the 19th century

Preserved below street level

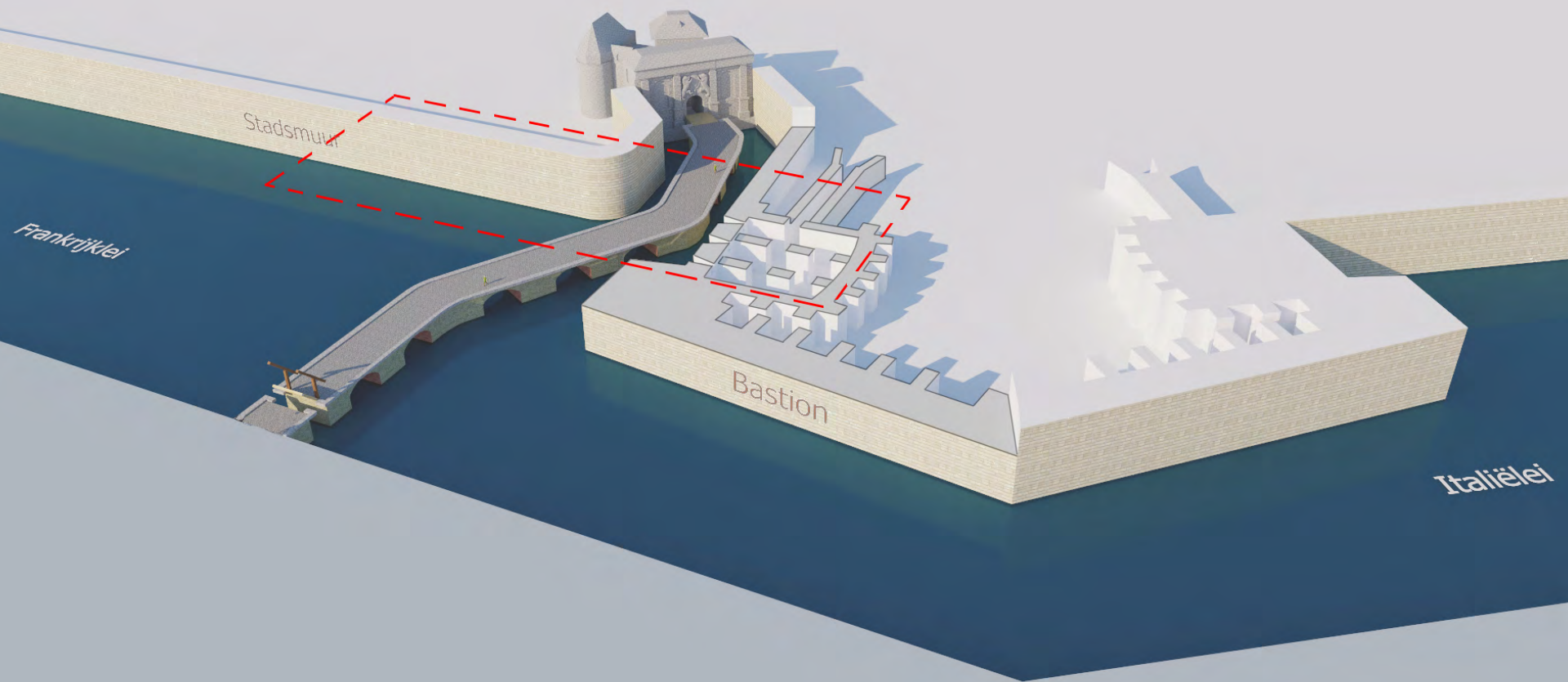
Archaeological pre-research & report 2006



Scaled projection 2006



3D Simulation 2012



Archaeological research 2017



Work in progress 2018



Guided visits & public days



Communication on site: billboards



DEZE HERKENT U NOG UIT
2006: DE IJZEREN BRUG
BOVEN DE KIPDORPBRUG

www.antwerpen.be/archeologie



V.U. Patricia De Smet-Groth Mark 1, 2000 Antwerpen
Foto dienst archeologie, stad Antwerpen

● KIPDORPBRUG

Slim naar
Antwerpen



AGENTSCHAP
WEGEN &
VERKEER

www.noorderlijn.be

NOORDERLIJN

Drone-flights



Droneflights online



<https://www.antwerpenmorgen.be/projecten/kipdorpsite/over>

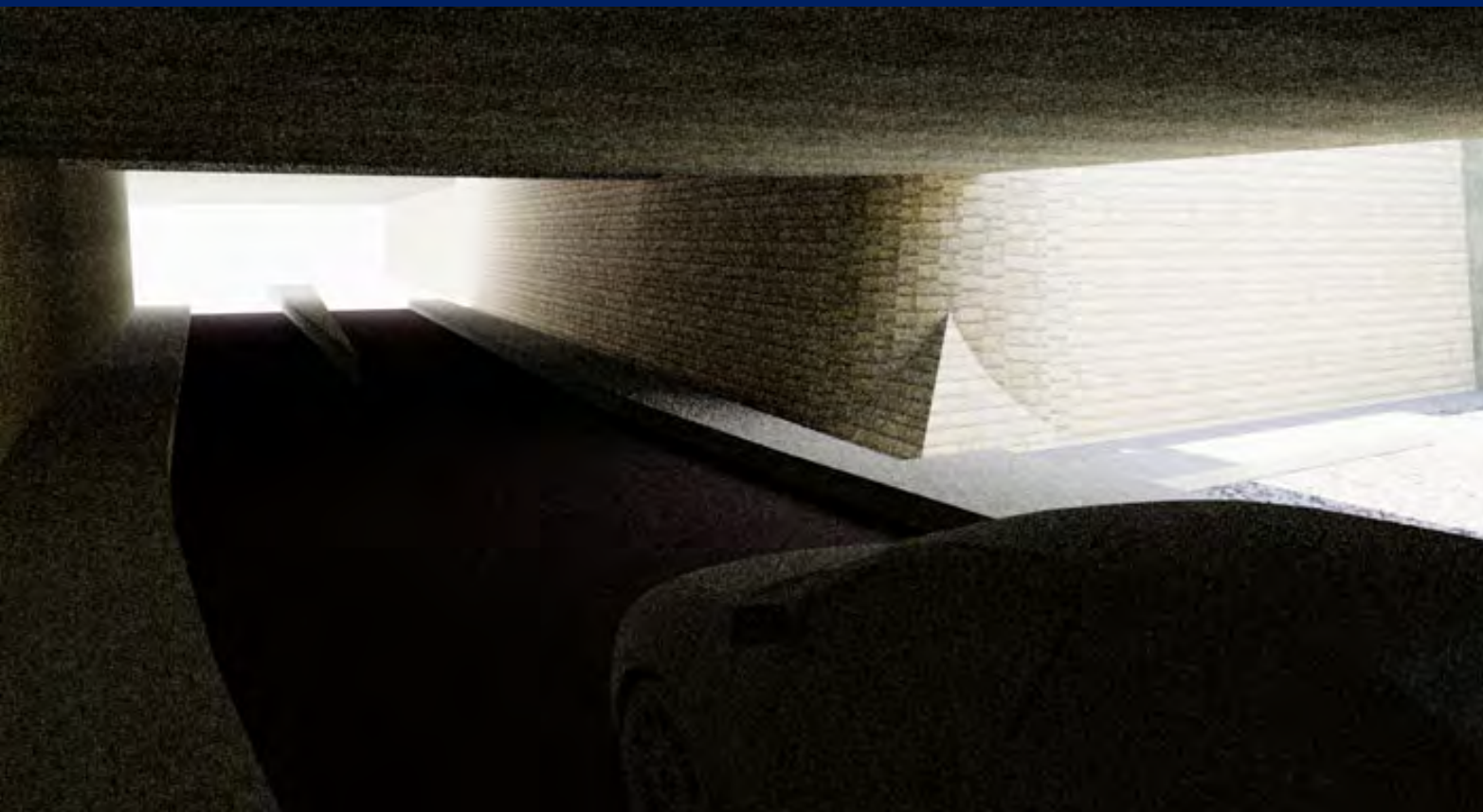
<https://sketchfab.com/models/58bbbada02a8d41328fe976a6f00c3ac0>

Synergie of trafic, fortified heritage & public transport in an urban context





Design 2013 Manuel de Solà-Morales



Balance between being a historic
Unesco site, tourist destination, place
to work and place to live.



Suomenlinna-Helsinki





Tourism and Digital Culture

- Online-interpretation
- Skyview service of the fortress
- Skyview history of the buildings and maps
- Virtual reality: VR-glasses in the tourist information centre.
- Augmented reality: site panels and site maps come to life.
- archive digitisation





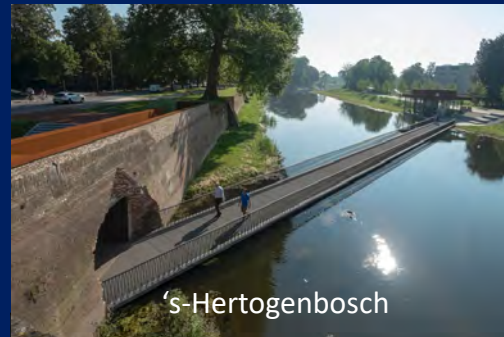
Augmented reality

Interactive site-panels



Military heritage sites brought to life by Augmented Reality

- Heritage department 's-Hertogenbosch Municipality | lead applicant | the Netherlands
- Suomenlinna governing body | Unesco World Heritage site | Partner | Finland
- Kaunas Municipality | Partner | Lithuania
- Narva Museum | Partner | Estonia
- Wennekes Office for Imagination | SME | Partner | the Netherlands
- Kaunas Technical University | faculty of Informatics | Affiliated entity | Knowledge partner | Lithuania



Scalable 3D objects, NEW in Heritage applications



Virtual visits with augmented reality

Proposal EU-project



Fortified heritage is not an easy tourist attraction:

- isolated position
- eradicated by mankind or nature (overgrown)
- covered by new constructions
- inaccessible

The challenge is to unlock invisible, inaccessible history to a large audience.

Proposal Objectives:

- presenting the transnational development of techniques and strategies to defend
- creating an easy format for dissemination
- presenting existing but invisible heritage
- producing virtual visits with augmented reality

Virtual visits with augmented reality



Narrative engine & holographes



Thank you for your attention!



Contact

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efforts-europe.eu

facebook.com/effortseurope



Andrea Bonifacio

Coordinator of Forte Marghera Knowledge Centre (Venice)
boardmember EFFORTS

Resources and perspectives

Actual Phase:
membership fees

**start-up of the organization and realization of
the first common actions**



**the network is already offering an umbrella
For local activities and ideas, experts consultancy, partner
search, creation, draw and management**

**In cooperation projects, the shared issues and needs of
fortified sites**

match

**with many of the EU priorities deriving from Europe 2020
strategy for smart, sustainable and inclusive growth
scientific research, knowledge
Competitiveness, culture
social and economic cohesion
Infrastructures, employment and social innovation**



Research
and Innovation



Combating
climate change



Employment
and Mobility



Information and
Communication
technologies



Environment and
resource efficiency



Social inclusion



Competitiveness
of SMEs



Sustainable transport



Better education,
training



Low-carbon economy



Better public
administration

for instance

**Croatia is involved in the
ADRIATIC-IONIAN and
DANUBE macro region
strategies (partly in
ALPINE Region)**

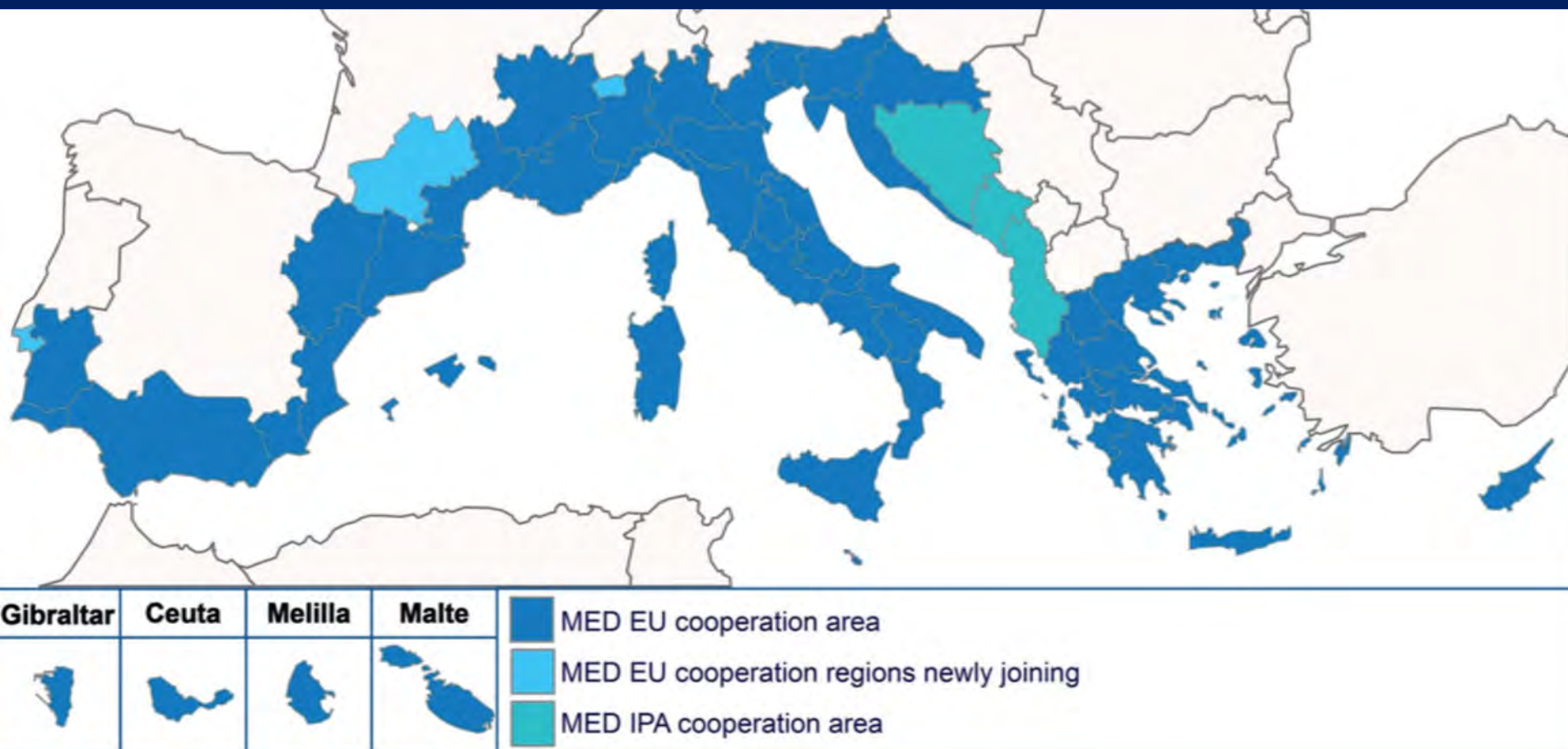
**and in several cross-
border, transnational and
interregional cooperation
programmes:**



Interreg Europe, URBACT, INTERACT and ESPON



Interreg-Mediterranean



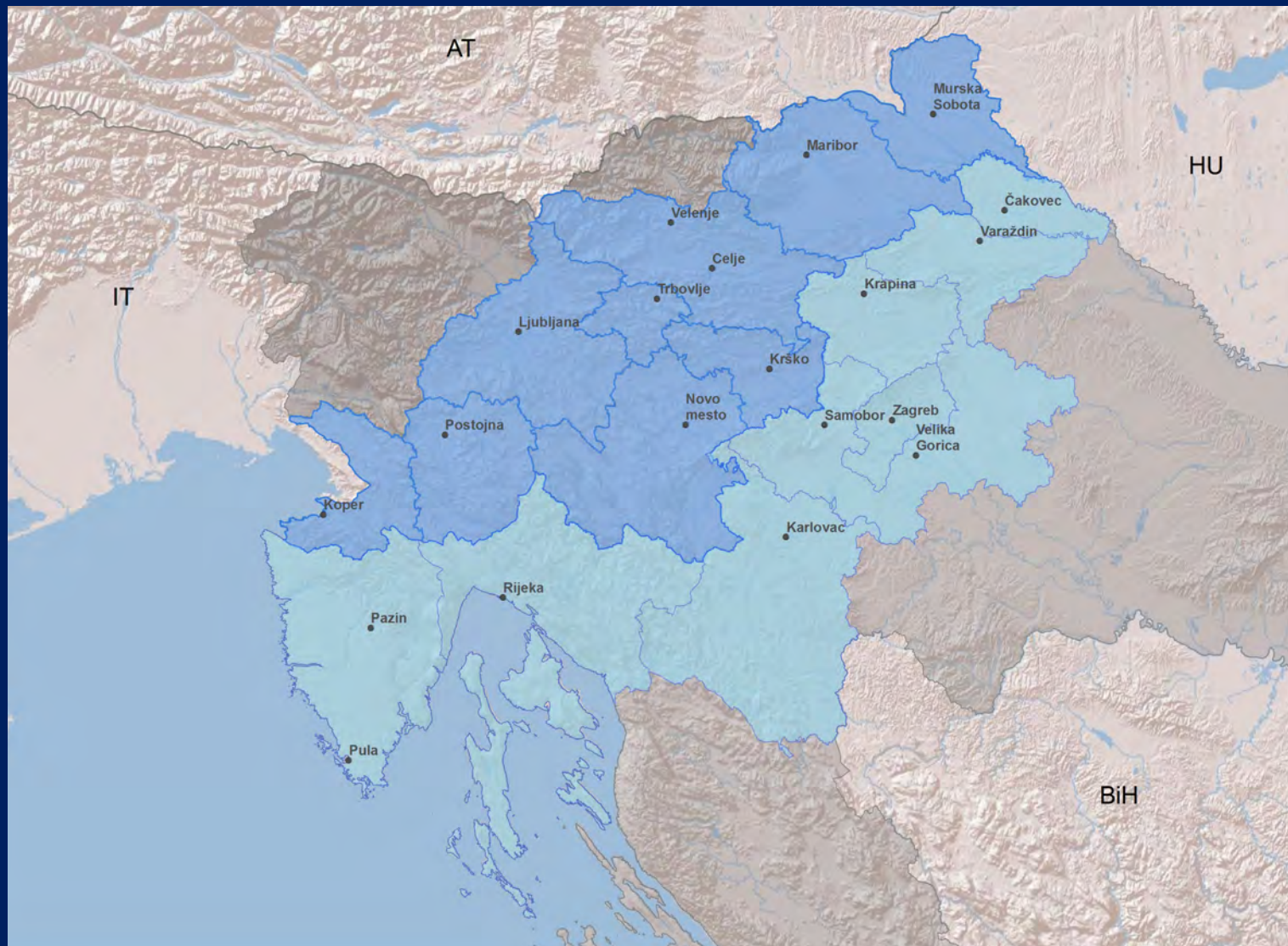
Interreg Hungary-Croatia



Interreg Italy-Croatia



Interreg Slovenia-Croatia



IPA CBC Croatia-Serbia



Croatia

- 1 Osječko-baranjska county
- 2 Vukovarsko-srijemska county
- 3 Brodsko-posavska county
- 4 Požeško-slavonska county

Serbia

- 1 North Bačka district
- 2 West Bačka district
- 3 South Bačka district
- 4 Srem district
- 5 Mačva district

IPA CBC Croatia-Bosnia and Herzegovina-Montenegro



Adriatic-Ionian



Central Europe



Danube



Members can already use EFFORTS the Knowledge centers



in

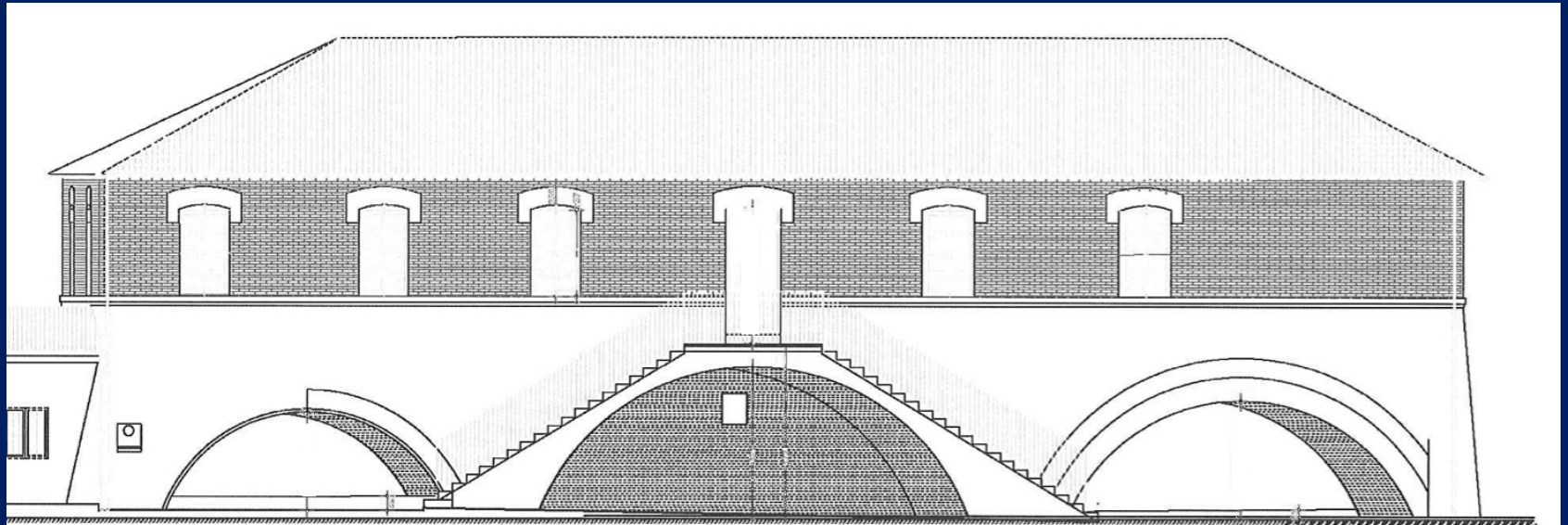
Paola (Malta)

the Vauban network (France)

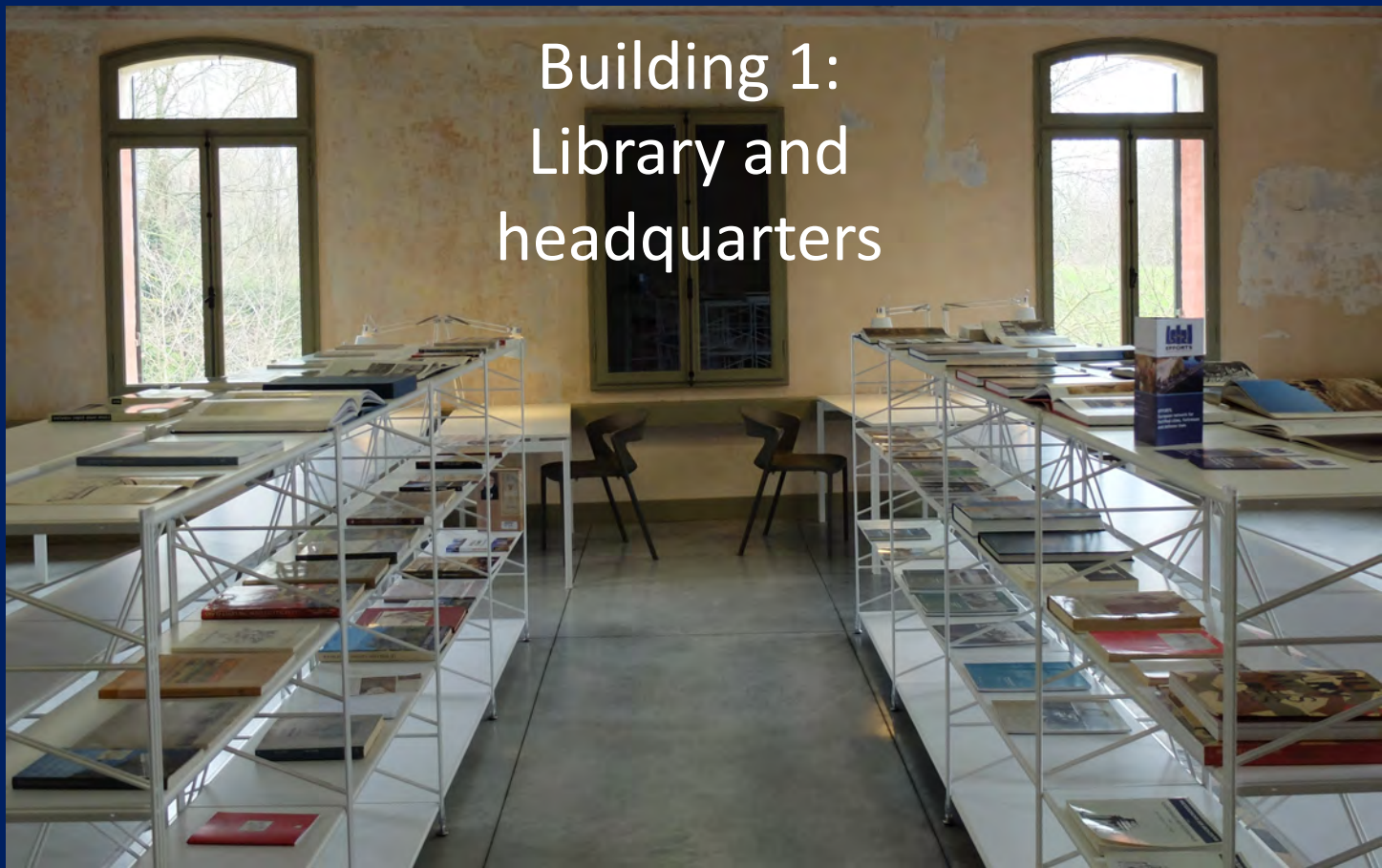
Fort Vechten (the Netherlands)

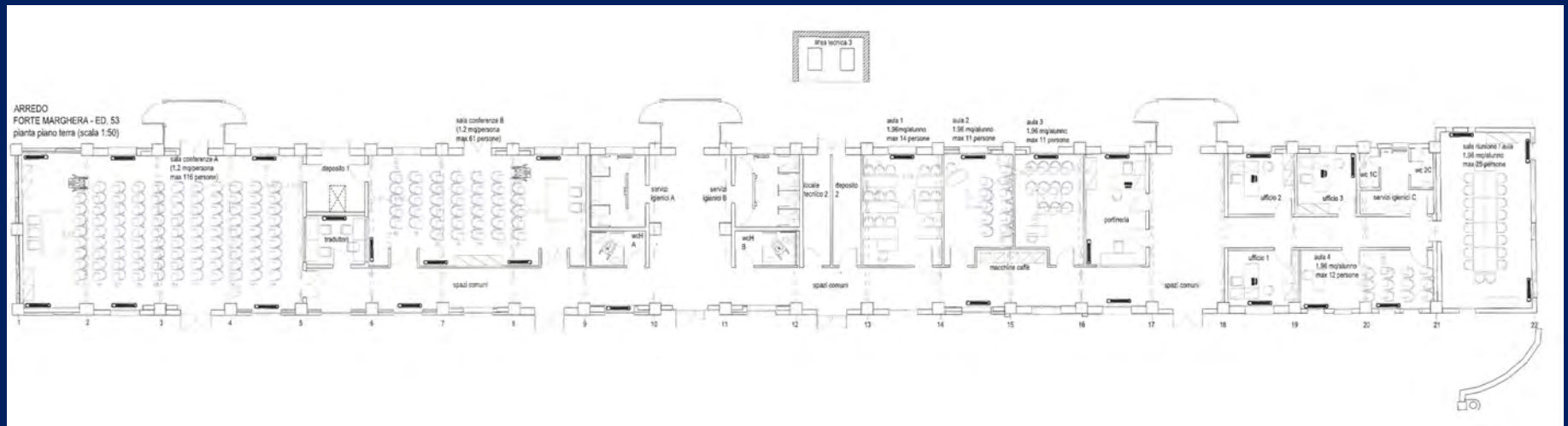
and in Forte Marghera - Venice (Italy)





Building 1: Library and headquarters





Building 53: Congress halls and workshops



Next Phase:

more members, more activities

And different financial incomes will be searched

- EFFORTS as a project partner itself
- UE support for European Network

**making fortified sites more strong
and more welcoming arms**



thank you