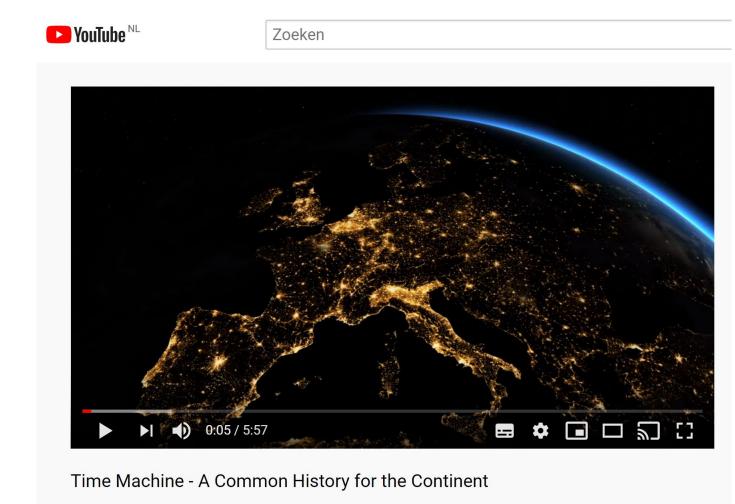
Time Machine Europe Towards Scalable Humanifies Research Helsinki, 13 March 2020

Julia Noordegraaf University of Amsterdam







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Content

- 1. The Time Machine Project
- 2. The Amsterdam Time Machine
- 3. Innovating Scholarship
- 4. Time Machine for Society



1. Time Machine Project An infrastructure to extract Big Data of the Past

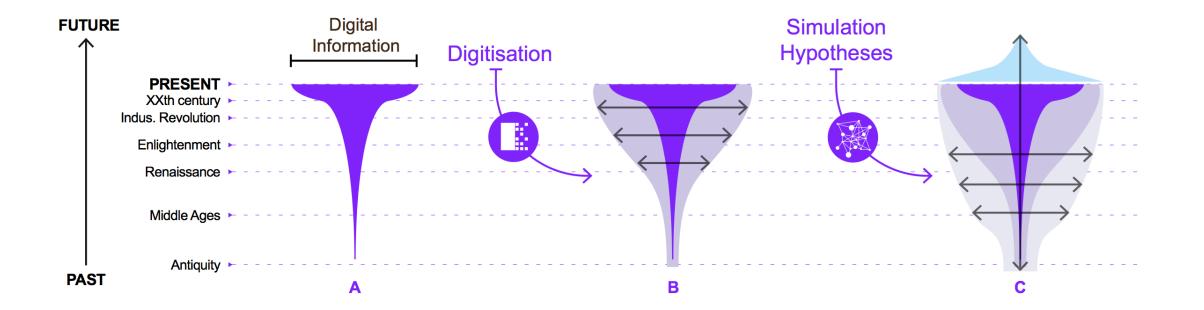


TimeMachine.eu

Since 2016, more than 600 partners from science, industry, cultural heritage and civil society have joined an unprecedented alliance under the umbrella of the **Time Machine**.



► YouTube ^{NL}	Zoeken
	* _
	•
Agian	nt graph of data linking people, places
► ► ► 1 :21 / 1:54	and events is created.
Venice Time Machine : General Introduction	
16.202 weergaven • 19 jun. 201	14



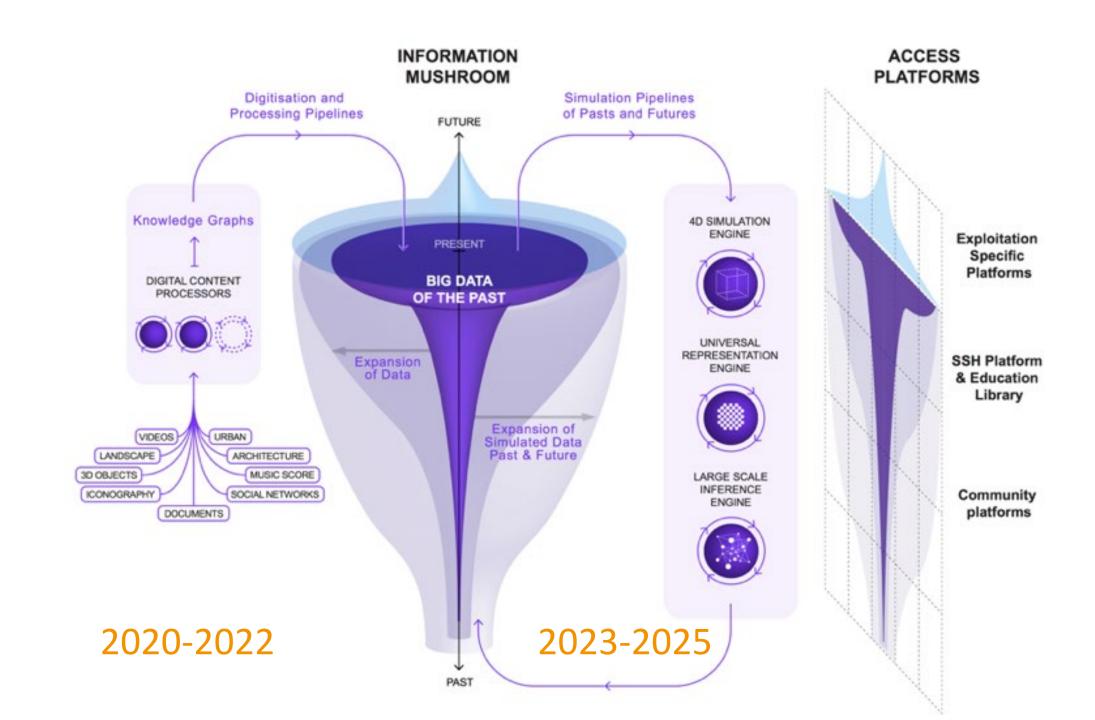


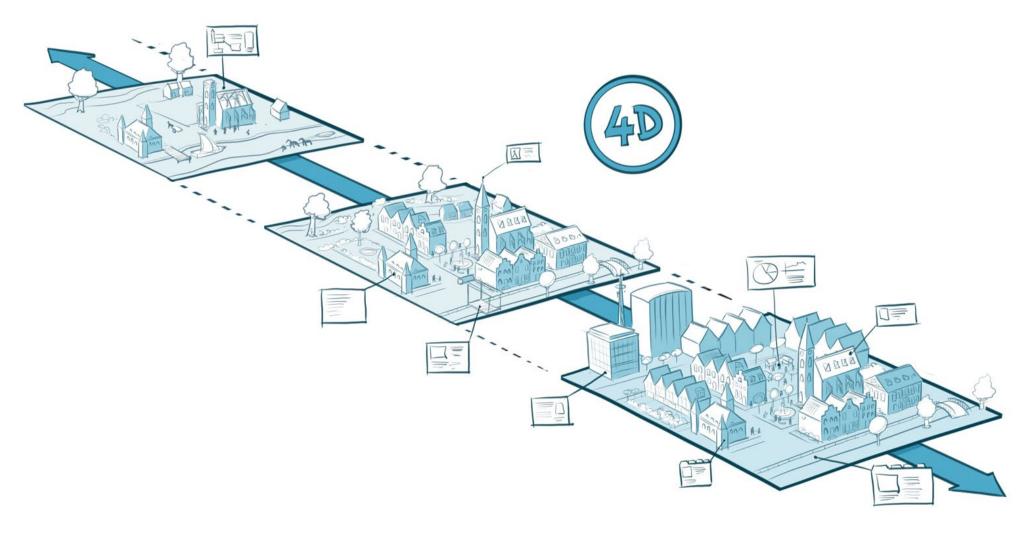


In the **Time Machine CSA** (2019-2020) a collective vision was established for the next 10 years.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 820323

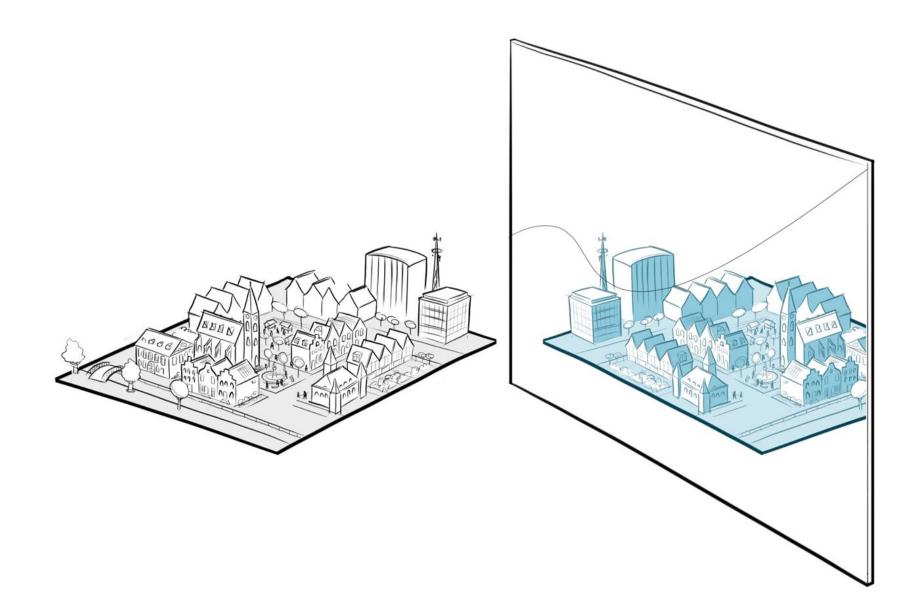




2026-2030

With Time Machine, Europe will build the first 4D mirror world, connecting each place with the depth of its past and giving direct access to unique assets for studying, learning, deciding, creating and inventing a shared future.

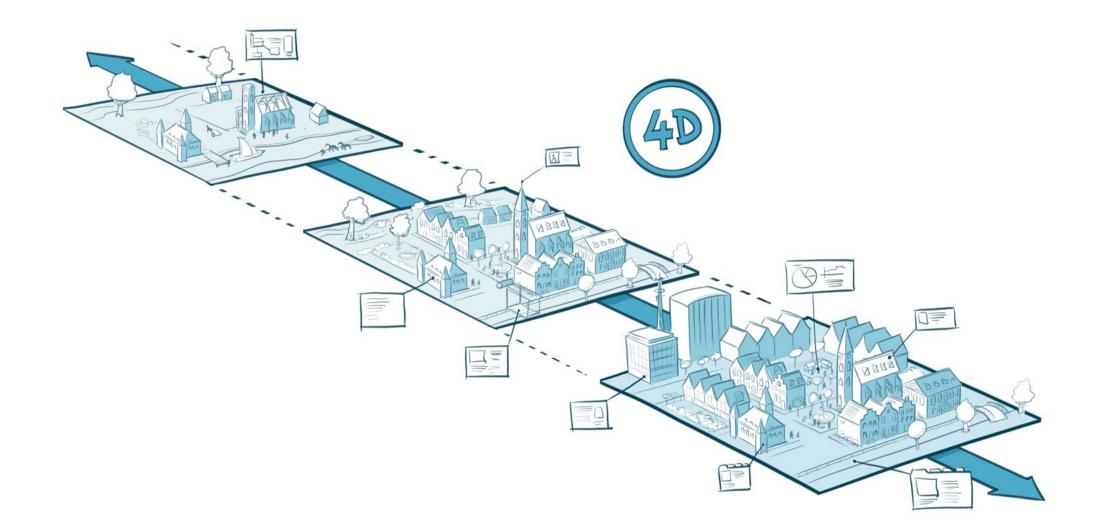


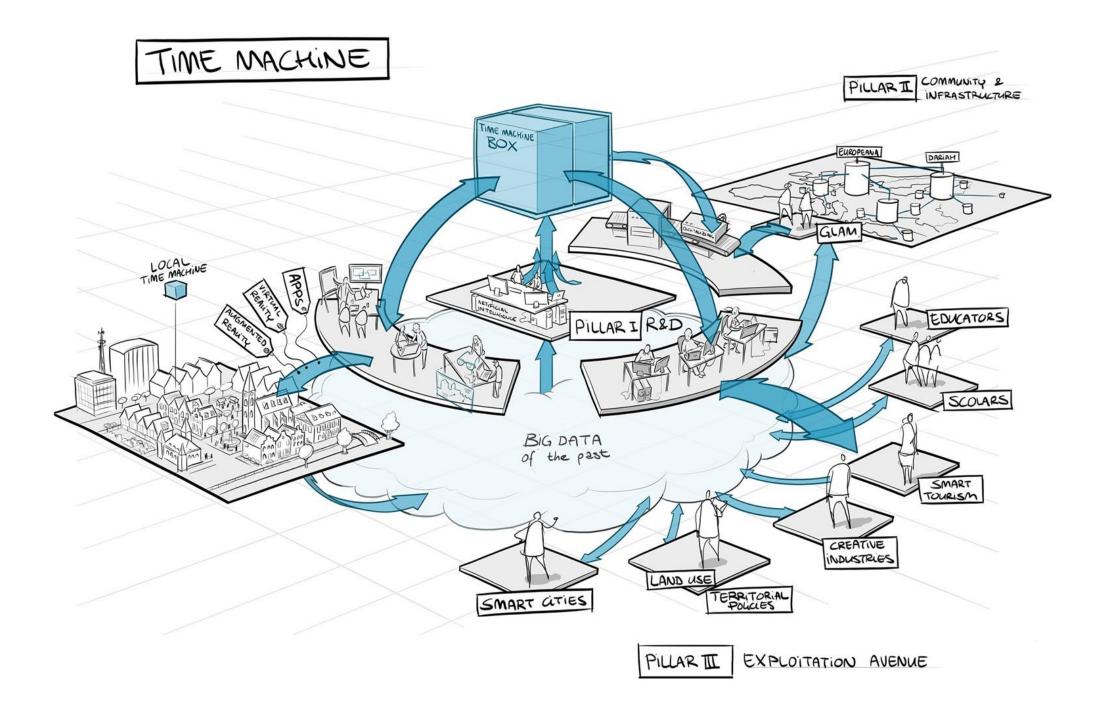


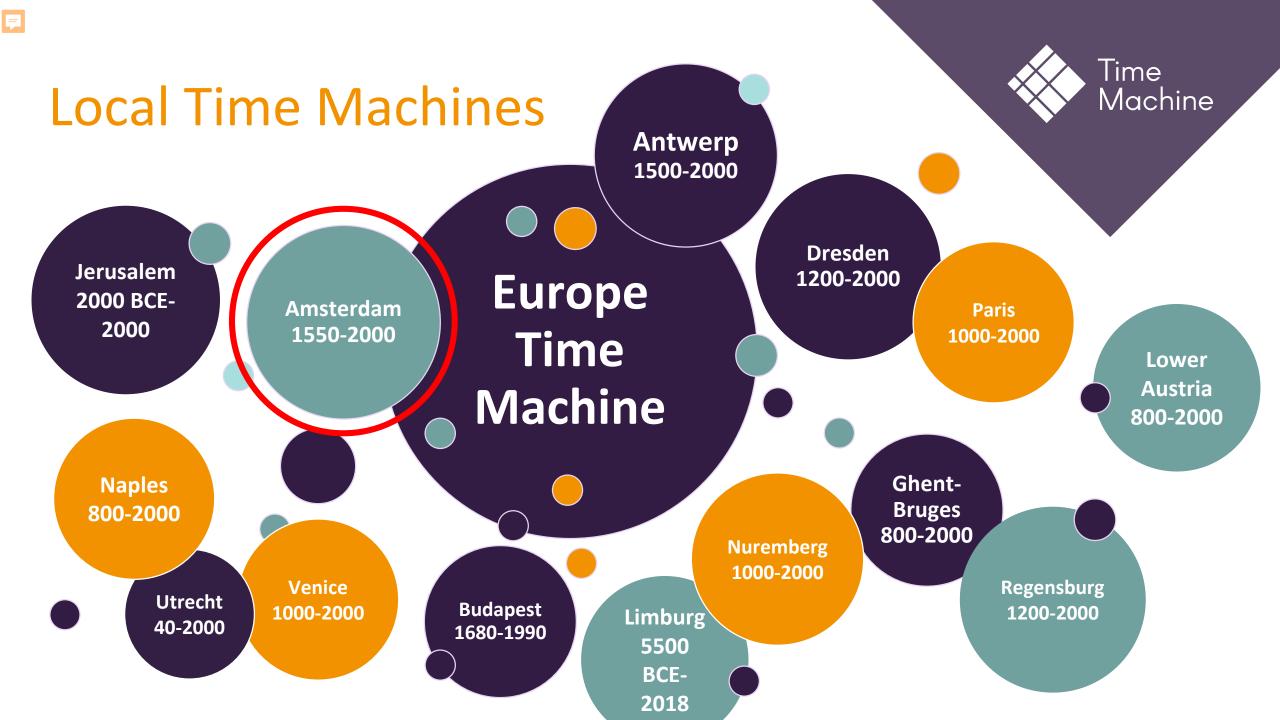
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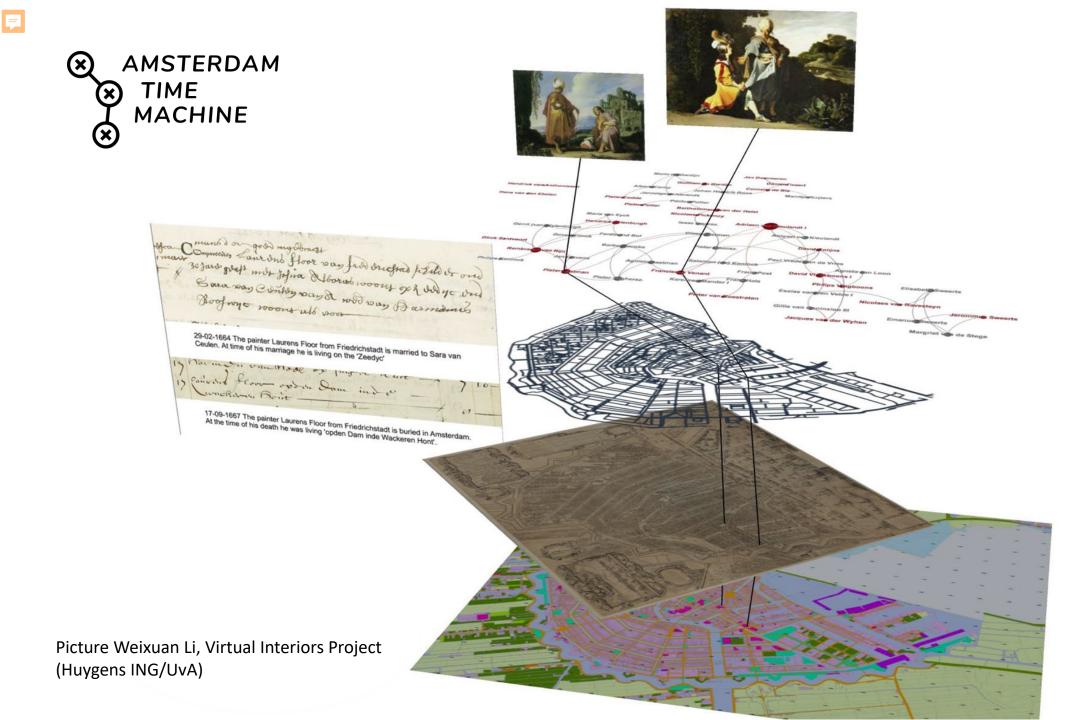


2. Amsterdam Time Machine





TimeMachine.eu





Artist house and shop at Warmoesstraat 138 in 1580 Wouter van Elburg & Madelon Simons, University of Amsterdam





A Geographical Data-Infrastructure for Historical Amsterdam

Hans Mol, Mark Raat, Thomas Vermaut

a new GIS

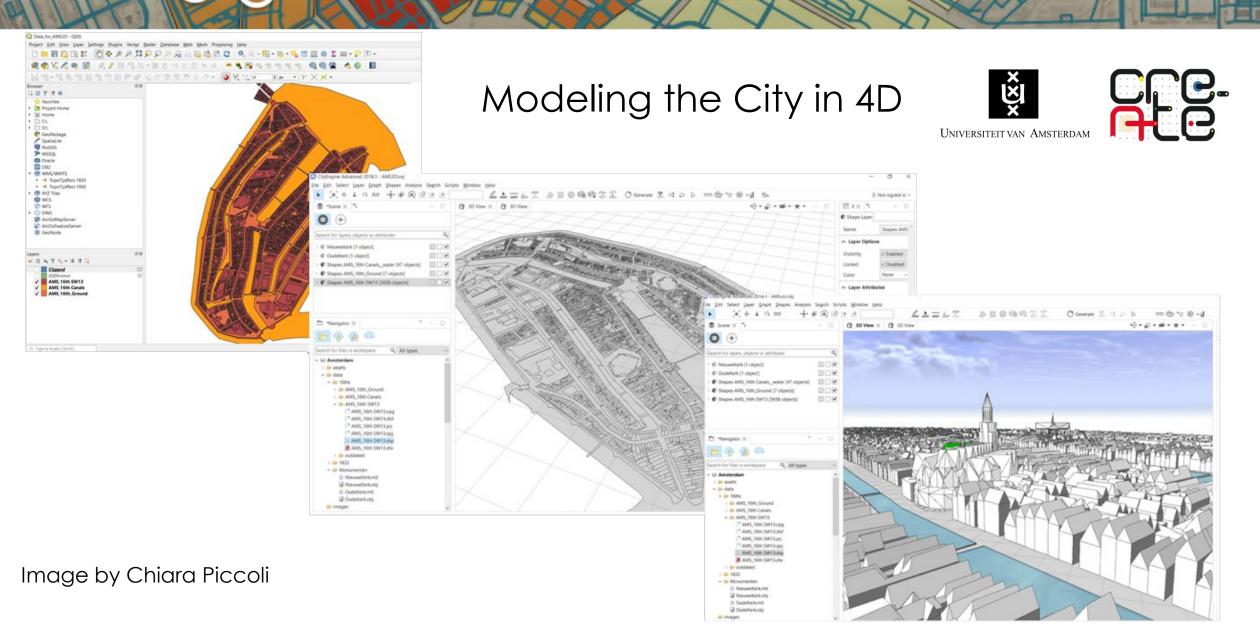
• now: 19th + early 20th C

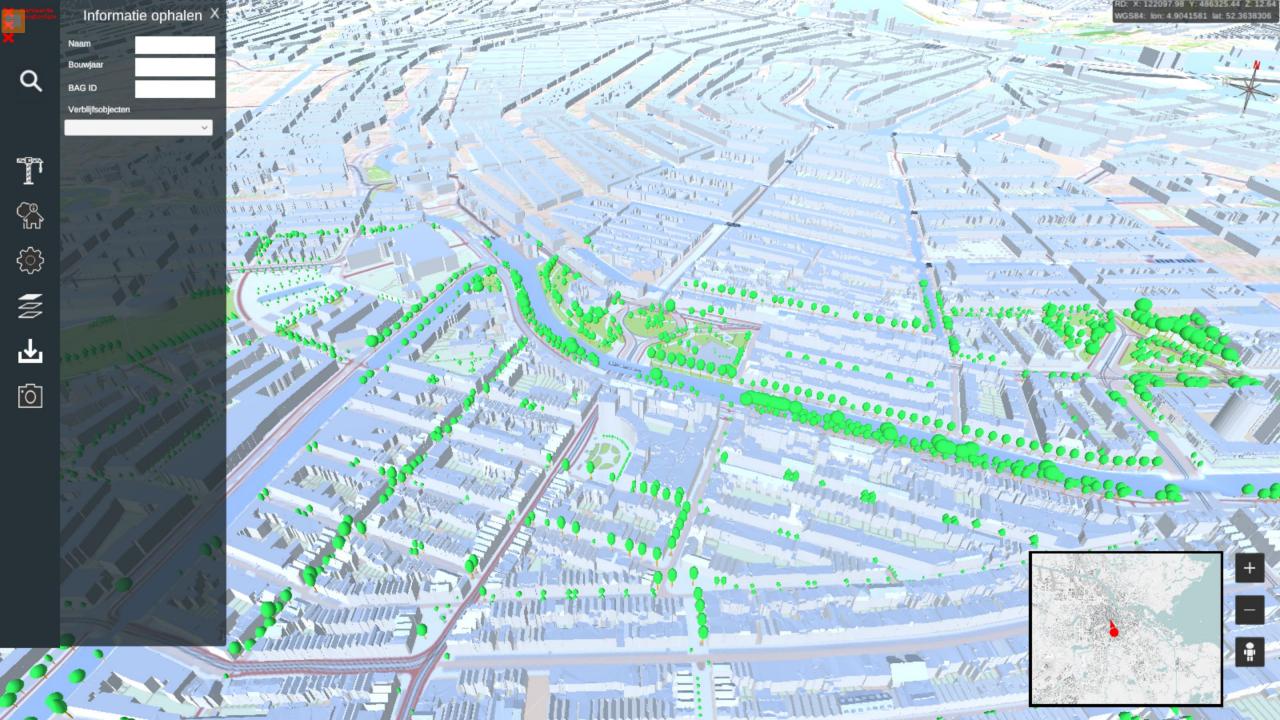
AMSTERDAM TIME MACHINE

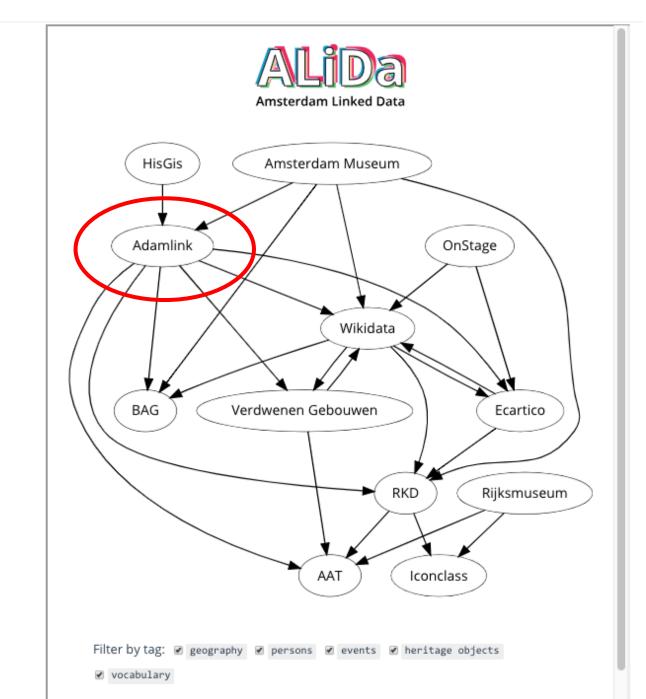
- next: 17th + 18th C
- 52.684 proxies for location
- semantic concept + geographical location
- knowledge graph



AMSTERDAM TIME MACHINE







Adamlink Lab

Verdwenen straten Straatbeelden

A'dam op de kaart



De kaarten van het stadsarchief waren alleen in de beeldbank terug te vinden. Totdat Bert en Menno ze op de HackaLOD ook geografisch ontsloten.

Op <u>github</u> meer informatie en links naar beide applicaties.

A'dam op de kaart 2



In een <u>tweede prototype</u> zoek je ook met andere parameters, zoals deelcollectie en tijd. En SPARQL liefhebbers komen hier ook aan hun trekken.

Pionieren



Zand, net gesloten straten, de eerste boompjes in de grond. Eens kijken of we dit soort foto's van pionierend Amsterdam boven water krijgen met een query die beeld ophaalt dat genomen is binnen twee jaar na aanleg van een straat.

Straatbeelden



De straatbeelden - van verschillende Amsterdamse collecties - komen uit de Adamlink sparql endpoint, de straatgeometrie en het autocomplete afrolmenuutje uit de referentiedata.

Portretten per beroep



Verdwenen straten

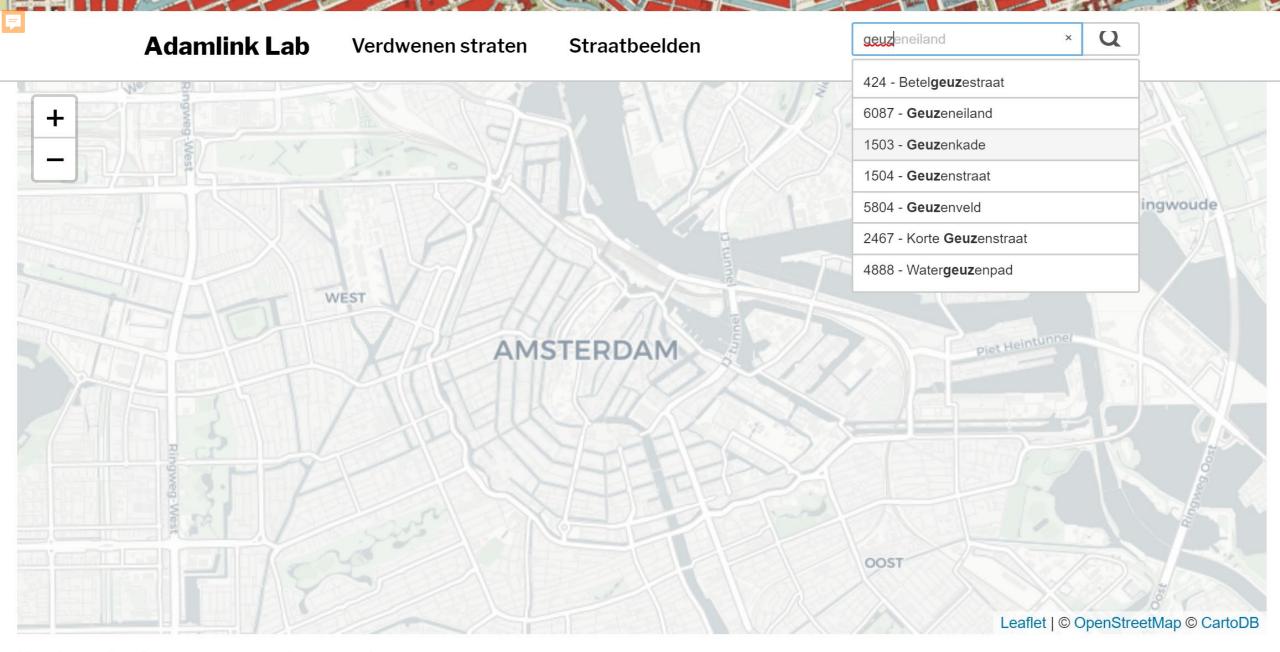


Jaarkaart



A'dam verbeeld





Zoek rechtsboven op een Amsterdame straat.

Daarna worden de bijbehorende afbeeldingen in de AdamLink triplestore opgezocht.

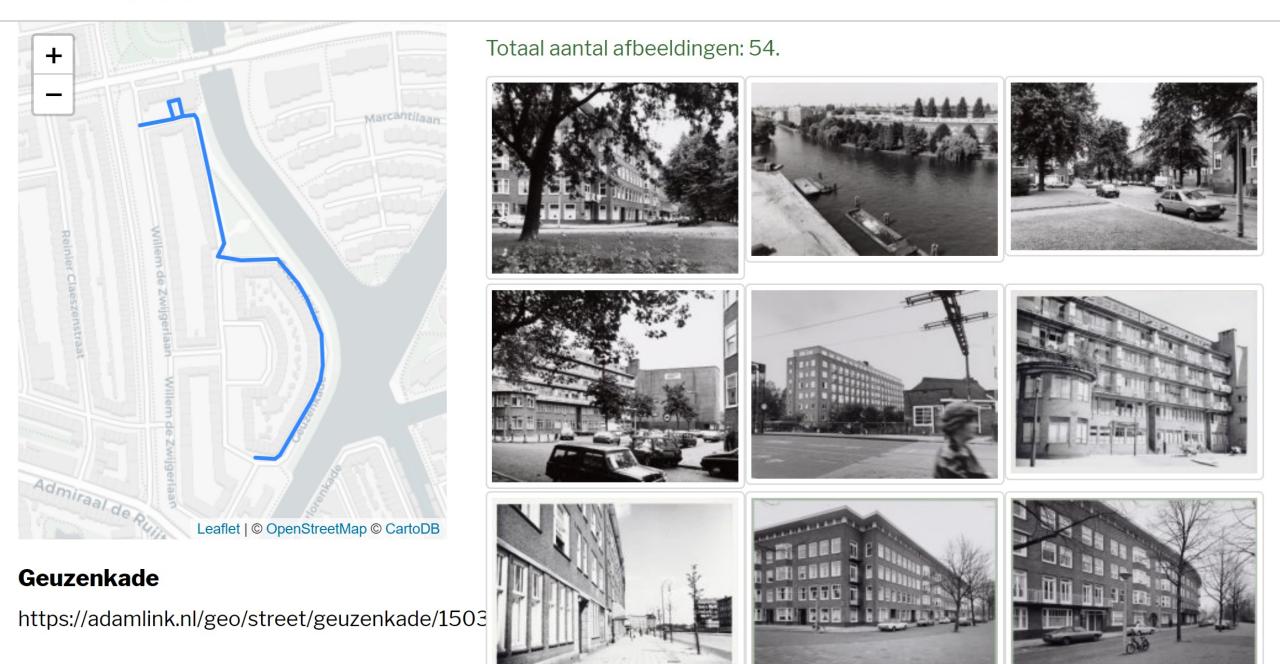
Adamlink Lab V

Verdwenen straten

Straatbeelden

Geuzenkade

×



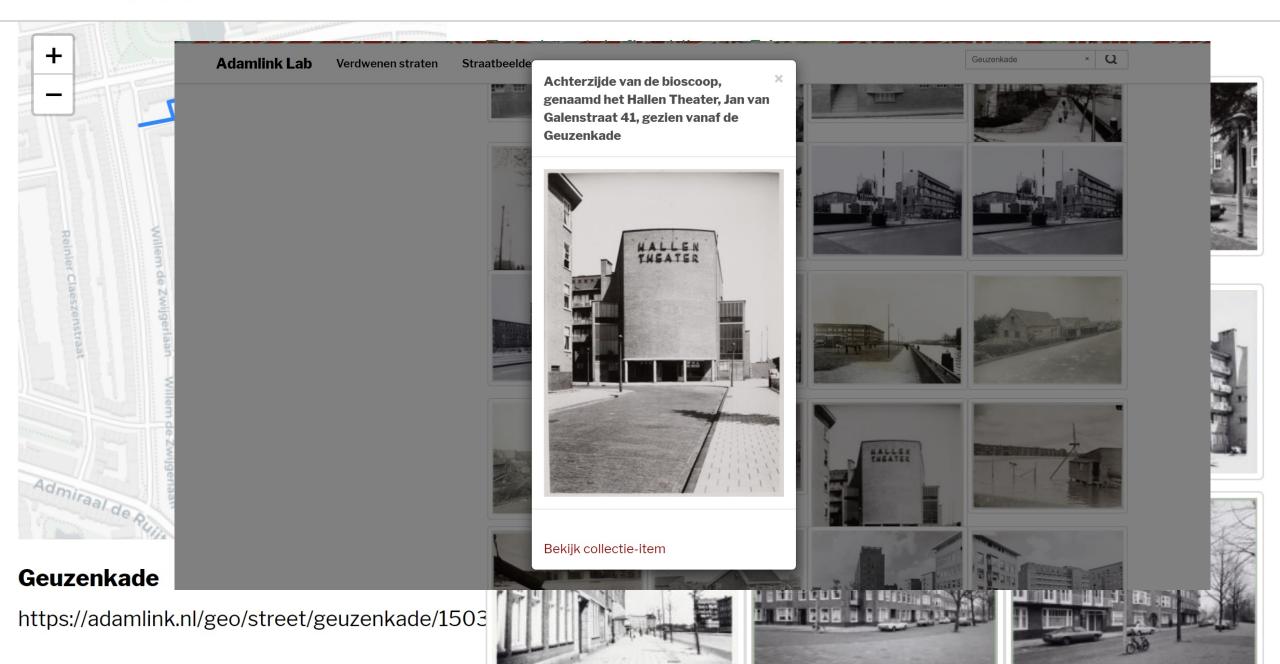
Adamlink Lab

Verdwenen straten

Straatbeelden

Geuzenkade

×





Reconstruction Cinema Parisien 1910, Nieuwendijk 69 Amsterdam



Reconstruction Cinema Parisien 1910, Nieuwendijk 69 Amsterdam Julia Noordegraaf, Loes Opgenhaffen, Ivan Kisjes, Norbert Bakker (UvA-CREATE)

3. Innovating Scholarship







THE FREEDOM OF THE STREETS

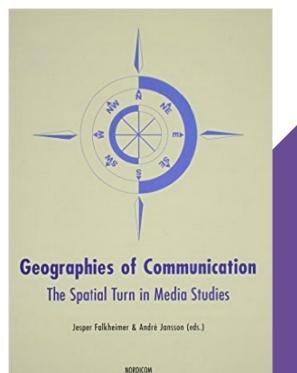


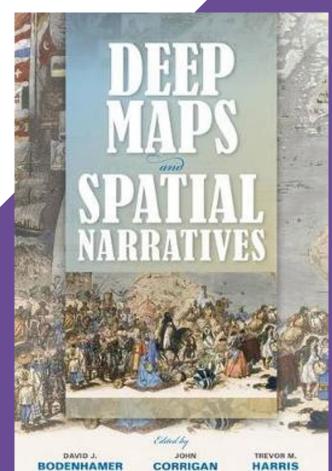
GENDER AND URBAN SPACE IN EURASIA 1600-1850



National Research Council Innovational Research Incentives project Danielle van den Heuvel

The Spatial Turn in the Humanities and Social Sciences





Sozialtheorie

Jörg Döring, Tristan Thielmann (Hg.) Spatial Turn

Das Raumparadigma in den Kultur- und Sozialwissenschaften



transcript

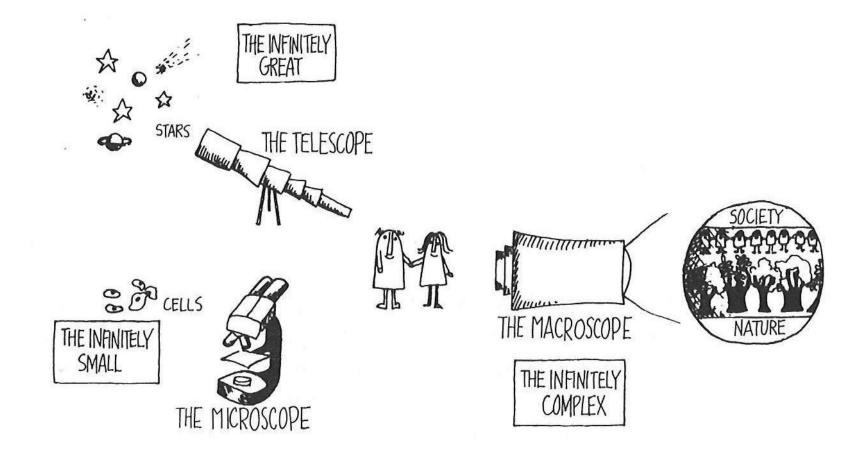


"In the social sciences and humanities, scholars returned to urban history and environmental studies with a renewed interest in the microcosms of everyday life and the macrocosms of global flows."

Jo Guldi, 'What is the Spatial Turn?' Spatial Humanities: A Project of the Institute for Enabling Geospatial Scholarship. University of Virginia Library Scholar's Lab, <u>http://spatial.scholarslab.org/spatial-turn/what-is-the-spatial-turn/</u>



Scalable Humanities Research



From: Joël de Rosnay, The Macroscope: A New World Scientific System. New York: Harper & Row, 1979.

Ę

Virtual Interiors as Interfaces for Big Historical Data



Netherlands Organisation for Scientific Research



Spatial analysis of **cultural** production and consumption









Rembrandt Dated:1640-1640

-



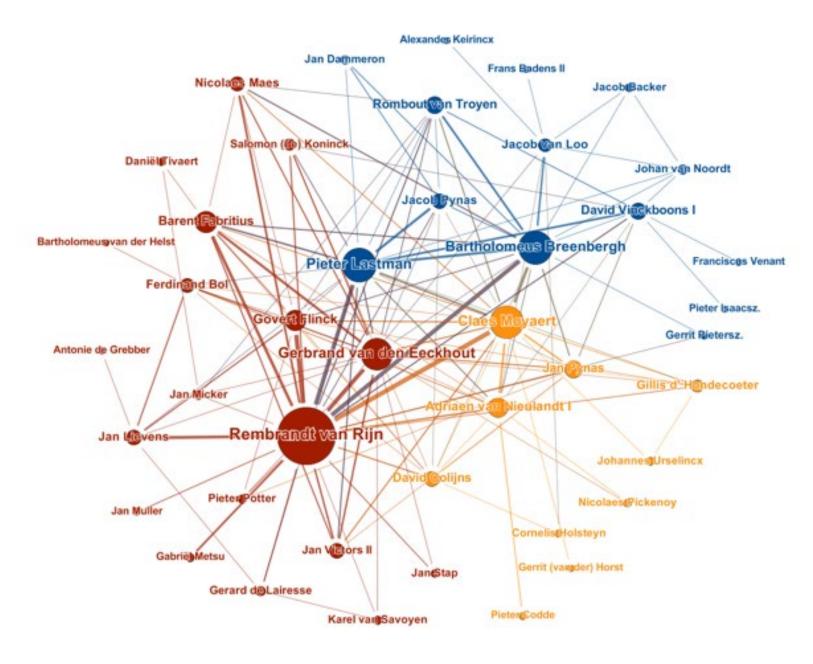
Govert Flinck Dated:1639-1639

Mutual influence <

Pieter Potter Dated:1620-1652



Ferdinand Bol Dated:1647-1647



AMSTERDAM TIME \otimes MACHINE

 (\mathbf{x})

Weixuan Li: visualization network of early modern Amsterdam painters by choice of topic





3,5 km archive

760 cupboards

4,5 million acts (1578-1915)

5075: Archief van de Notarissen ter Standplaats Amsterdam > Inleiding Inventaris PDF printversie



Crowd leert computer lezen

DAVID DES POMMARE 1698-1724 - 3 - 6932 - KLAB05138000163

363 brough Orbragam Wijbrout Soopman Anondoryanias Yougman, barthoused Shing to any and congrifte Anangansta Landa Lawy word ban Sommat Soutwigh Internet Mingto the andors Zijde boyd woonords bunds

Mijn profiel: Pauline (Stadsarchief Amsterdam

Transkrib

x² abe Special Characters ?! Unclear

6 dam residerende, in presentie van de naergenoemde getuijgen,	
Text Region 3 1 363 2 alhier 3 ### Mons ^r Abraham Wijbrants Coopman 4 5 6	Char frontes and the office of the second of

26 augustus 1567, inventaris van de goederen van Barnardijn Gaerlofsz (Warmoesstraat 46)

Verblijfplaats: SAA 5028, inv.nr. 549 (Annotatiën van de goederen), fol. 6v-8v.

[Fol. 6v]

[...] Int voorhuiis

Een laeckens parsse, een staelen booge, een vleijschgaffel, een slaepbanck met een bedde ende zijn toebehooren daer inne,

201

Item een tonnestoel, vier witte beugel stoelen, een roodt cussen, een groen cussen, een stroijen stoel Item een tresoer met een tafereel daer op,

[fol 7]

CHACILE

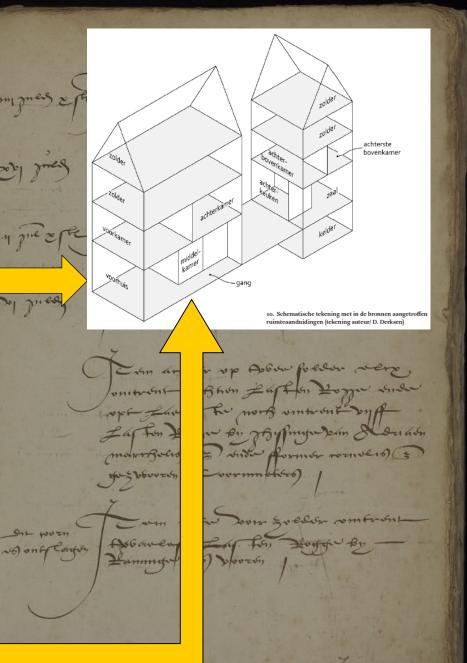
Item mappa mundi in lijsten met noch een ander grote

Item een contrefeijtsel van Barnardijn ende zijn eerder huijsfrouwe in twee paneelen Item twee schrijff leijen met drie stockbe[...]ssen Item een comptoir met een riem papiers ende een nijeuw schrijfbouck daer inne

Item achter op twee solder elcx omtrent achtien lasten rogge ende opt laechste noch omtrent vijff lasten rogge bij ghijssinge van Adriaen Marchelisz ende Fformer Cornelisz gezwooren coornmeters, Item opte voirzolder omtrent twaelff lasten rogge bij raminge als vooren [i.m. dit coorn es ontslagen]

[fol. 7v]

Inde middelcamer Een trecktafel met een tafelcleet Item een chaerte Itam aan jisaran habgal, aan haut aan brandar, aar



🚅 🗸 🔲 Object Mode 🗸 View Select Add Object GIS [∠, Global ~ _◎~ *◎* : □~ ○ ∧ ▽ 😤 ~ 💦 ~ 💽 🗢 🖸 🛇 🛇 ~ 🗋 User-Perspective A. (107) Herengracht573 | 01_PlanFirst_floor.001 (:)<-[↑]-) ••• ۲ Ĺ DEDE od Roor Ground Roop Reconstruction of the house of Pieter de Graeff and Jacoba Bicker on Herengracht 573

1 150

(1665-1700) by Chiara Piccoli, Virtual Interiors Project (Huygens ING/UvA)



Mapping Cultural Consumption

F





What will be the impact? 4. TIME MACHINE FOR SOCIETY



TimeMachine.eu

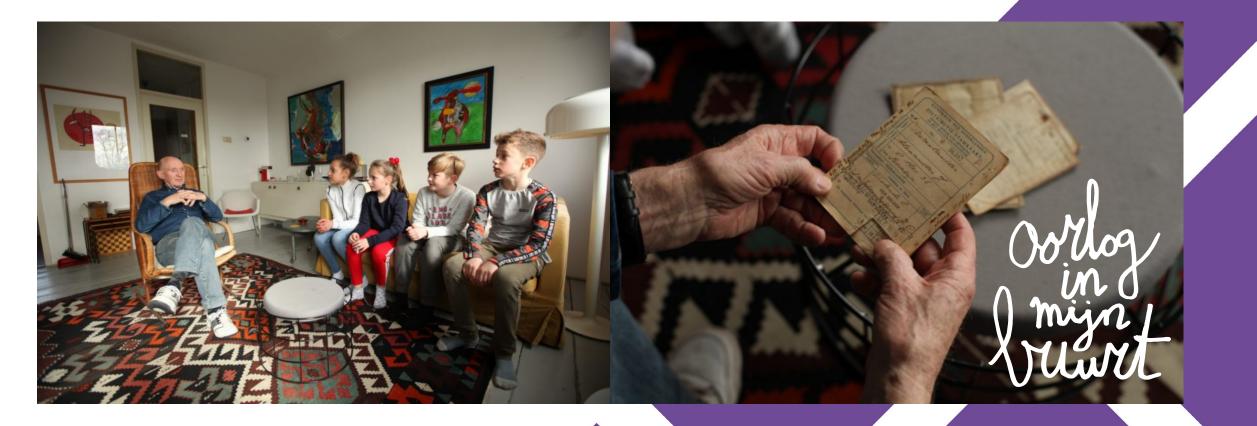
Crowdsourcing and Citizen Science







Time Machine for Education and Social Cohesion Give historical data **new relevance**





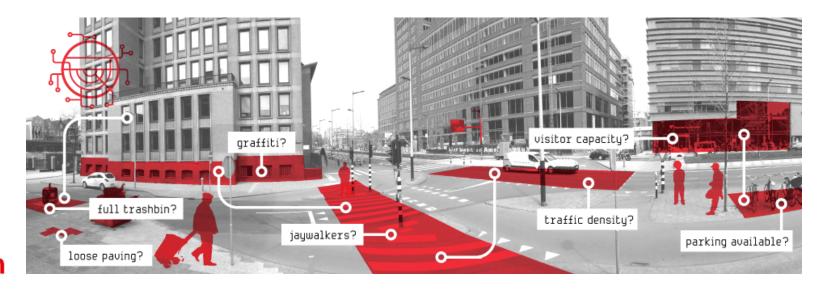
Virtual reconstruction of Bergen-Belsen by the Future Memory Foundation

http://www.belsen-project.specs-lab.com/2012-reconstruction/



Time Machine for Smart Cities...

Provide a **longitudinal perspective** to present-day problems





X DataLab Amsterdam





> Dutch site

Q

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Home > News



Major maintenance work on bridges and canal walls

14 February 2019

Amsterdam, city of water, has around 1,600 bridges and 600 kilometres of canal walls. At least 10 kilometres of the city's 200 kilometres of brick canal walls are in a poor state of repair, and there is an increased risk of subsidence. Maintenance work is needed without delay.

Conclusion





TimeMachine.eu

The Time Machine is...

An international collaboration to bring 5000 years of European history to life

Digitising millions of **historical documents**, paintings and monuments

The largest computer simulation ever developed

An open access, interactive resource



Time Machine will...

Revolutionise scholarship, education, culture, media, tourism and policymaking

Give historical data **new relevance**

Contextualise history through advanced AI

Modernize the institutions that archive Europe's history





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d y d

LET US CREATE A UNIQUE ALLIANCE OF THE MOST CAPABLE PLAYERS IN SCIENCE, TECHNOLOGY AND CULTURAL HERITAGE!

https://www.timemachine.eu/join-in/



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Czech Republic – Eva Vodochodská

Librarian of the Benedictine monastery library in Broumov



Estonia – Birgit Kibal Head of communications and foreign affairs at the National Archives of Estonia



Finland – Tomi Ahoranta Development Manager at the National Archives of Finland / Kansallisarkisto



Finland – Dr. Juha Henriksson Director of Music Archive Finland



France - Dr. Valérie Gouet-



France – Anna Cristofol



France – David di Marco

Germany - Prof. Dr. Peter Bell

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