

# Circulation of Knowledge and Learned Practices

in the 17th century Dutch Republic. A web-based Humanities' Collaboratory of Correspondences

*Hugo  
Grotius  
1583-1645*

*Caspar  
Barlaeus  
1584-1648*

*René  
Descartes  
1596-1650*

*Constantijn  
Huygens  
1596-1687*

*Christiaan  
Huygens  
1629-1695*

*Antoni van  
Leeuwenhoek  
1632-1723*

*Jan  
Swammerdam  
1637-1680*



> 7.700

> 1.200

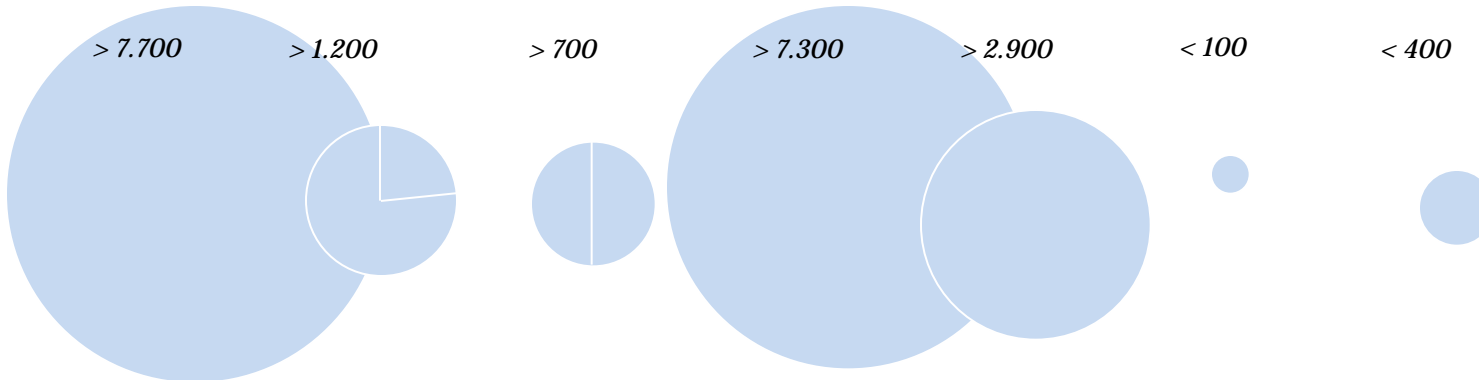
> 700

> 7.300

> 2.900

< 100

< 400



- Partners
  - University of Utrecht, Descartes Centre for History and Philosophy of the Sciences and the Humanities
  - University of Amsterdam, Department of Historical Dutch Literature
  - Huygens Institute (Royal Netherlands Academy of Arts and Sciences = KNAW)
  - Data Archiving and Networked Services (KNAW)
  - Virtual Knowledge Studio for the Humanities and Social Sciences (KNAW)
  - Koninklijke Bibliotheek, National Library of the Netherlands
- Project funded by Netherlands Organisation for Scientific Research (NWO)
- Duration 4 years, started November 2008



## Objectives

- Research corpus

Multilingual, 17th century: Latin, Dutch, French, German, Italian, Spanish, English, Greek

- Analysis tools for demonstrator
- Visualization tools for demonstrator
- Collaboratory



## Analysis and Visualization Targets

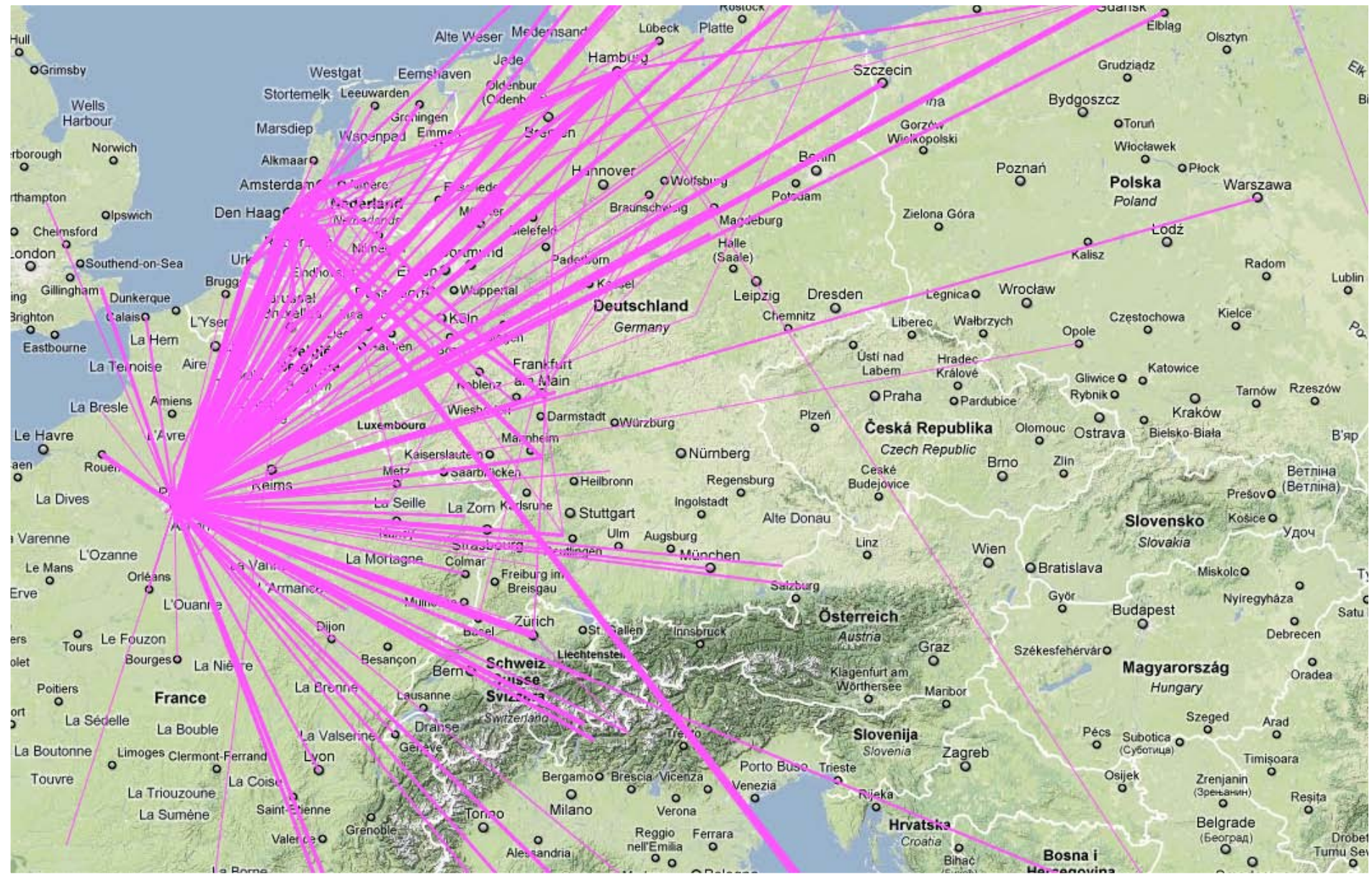
- Network
- Content



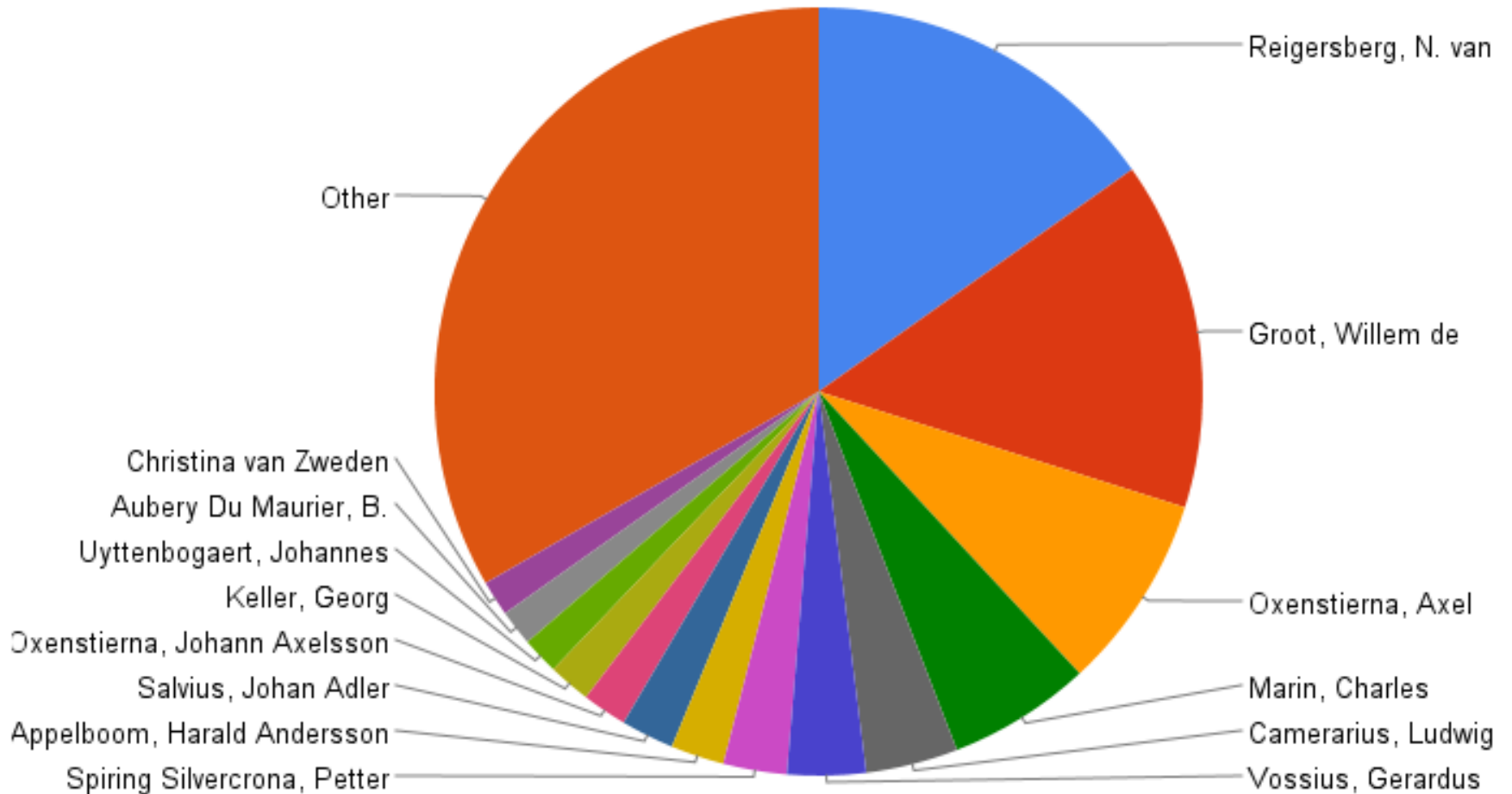
## Network

- Based on metadata
  - People (sender and recipient)
  - Places (sender and recipient)
  - Date
- Google / Yahoo maps
- Statistics
- Next phase: combine with topics / concepts

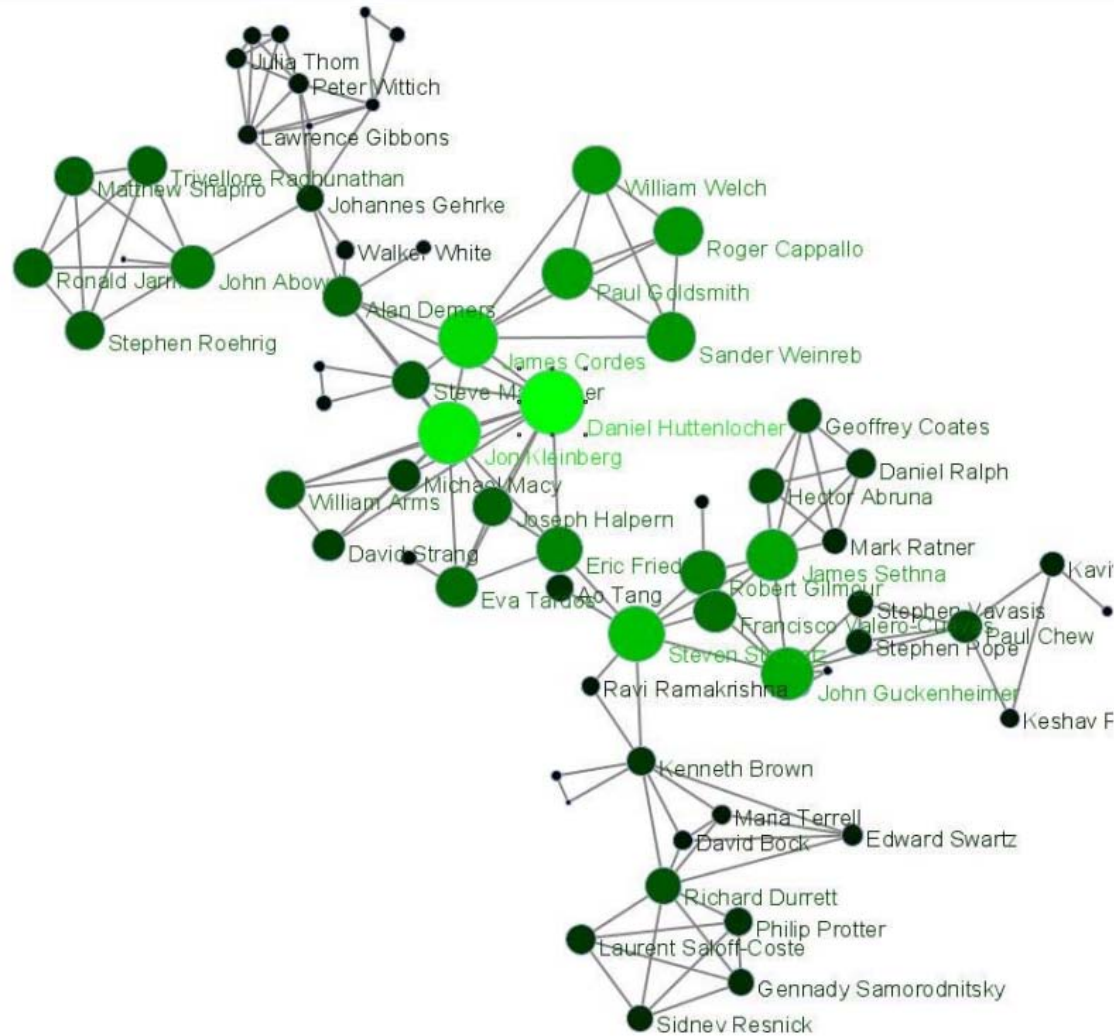












Who is in The Hague?

<input type="radio"/> Reigersberg, Maria van	<input type="radio"/> Reigersberg, Maria van	<input type="radio"/> Inthima, Hero van	<input type="radio"/> Brassier, Govert	<input type="radio"/> Groot, Pieter de
<input type="radio"/> Nassau, prins van Oranje, Frederik Hendrik, graaf van	<input type="radio"/> Camerarius, Joachim			<input type="radio"/> Hogerbeets, Adriaen
<input type="radio"/> Groot, Willem de				<input type="radio"/> Groot, Willem de
<input type="radio"/> Staten van Holland				<input type="radio"/> Nassau, prins van Oranje, Frederik Hendrik
Hugo de			Camerarius, Joachim	
. van			Reigersberg, Maria van	
	Reigersberg, N. van			
urier, B.				



## Content

- Digital editions
- Keyword Extraction and Topic Modelling
- Next phase: Concept Modelling



## Pipeline

- Tokenization
- Language identification (N-gram based)
- Spelling normalization
  - VARD2 (Lancaster Univ.)
- Key word Extraction WMatrix
- Topic Modelling LDA (Mallet); future RTM?
- Next phase: NER, PoS, Syntactical Parsing

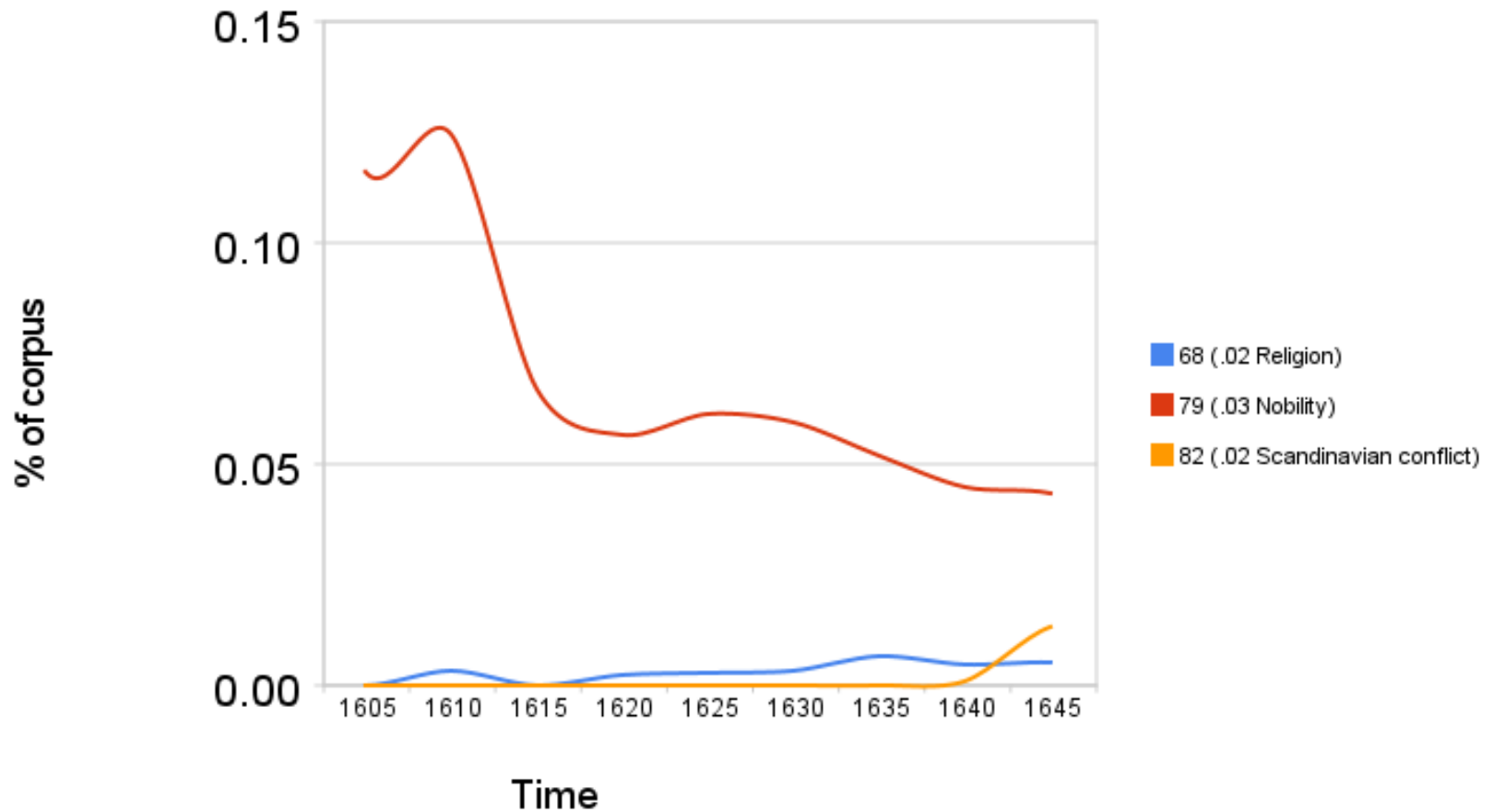


## RelatedAuthors : Sheet1

cloeck_pieter	hoofd_pc
coene_tobias_de	hoolck_gerridt_van_der
colterman_david	matthisius_assuerus
colterman_johan	overall_john
duyck_anthony	bonnaert_jan_adriaenssen
episcopius_s	hogerbeets_adriaen
gecommitteerde_raden_ter_admiraliteit_te_amsterdam	hohenlohe_philipp_ernst_graaf_von
gecommitteerde_raden_van_holland	hoofd_henrik
grevinhoven_nicolaas	splinter_jan
groenevelt_reinier	staten-generaal
groot_adriana_de	wael_van_moersbergen_adolf_de
groot_cornelius_de	witte_boudewijn_de
groot_johan_hugo_de	hogerbeets_rumoldus
reigersberg-blonck_susanna_van	houver_francois_van
brasser_joost	junius_maria
groot_willem_de	maurits_prins
haen_johan_de	muller_georg
hertoghe_van_osmael_heer_van_valkenburg_johan_de	oudart_robert
heuvel_maerten_willemsz_van	pels_pauwels
hof_van_holland_en_zeeland	pels_pieter
leeuwen_pieter_van	pelsaert_francois
lodewijk_xiii	philippus_van_brussel_p
matelief_de_jonge_cornelis	prins_pieter_christiaensz
meerman_dirk	prouning_jacob
mierop_jacob_van	reael_laurens



### Topical Changes



## Collaboratory

- All sources in one system
  - Letters
  - Metadata
  - Secondary sources
- One User Interface
  - Editing
  - Analysing



edit <new> Text Fragment + add cun chain switch toc cun hide

copy link cut paste delete <move after> move pages xml page copy as...

entire e-Laborate site

fuzzy match

My personal page

brandt\_vollenhove\_17061701

Eerwaarde Heer

Zie hier de proef van Uw Eerw<sup>4</sup> lofdicht, daarbij ik vrese dat al mijn kraam<sup>5</sup> te slechter<sup>6</sup> zal afsteken. Ik [ver]zoeke het ten spoedigste te rugge, dewijl 'er de Drukker na wacht.

Amsterdam, 17 juni 1701. UBA RK O 22 g

Eerwaarde Heer[,]

Amsterdam

17 juni 1701

Annotation on "Amsterdam"

Amsterdam

Signatuur  
Plaats  
Datum  
Ontvanger  
Zender  
Aanhef  
Ondertekening  
Personen  
Publicaties  
Kunstwerken  
Annotatie  
Woordverklaring  
Afkorting  
Editieleestekens  
Vertaling

Last modified: 21-06-2008 15:20 by karina | Created: 20-06-2008 10:56 by karina



## CKCC and CLARIN-EU

January 2009: CLARIN-EU call for LRT support

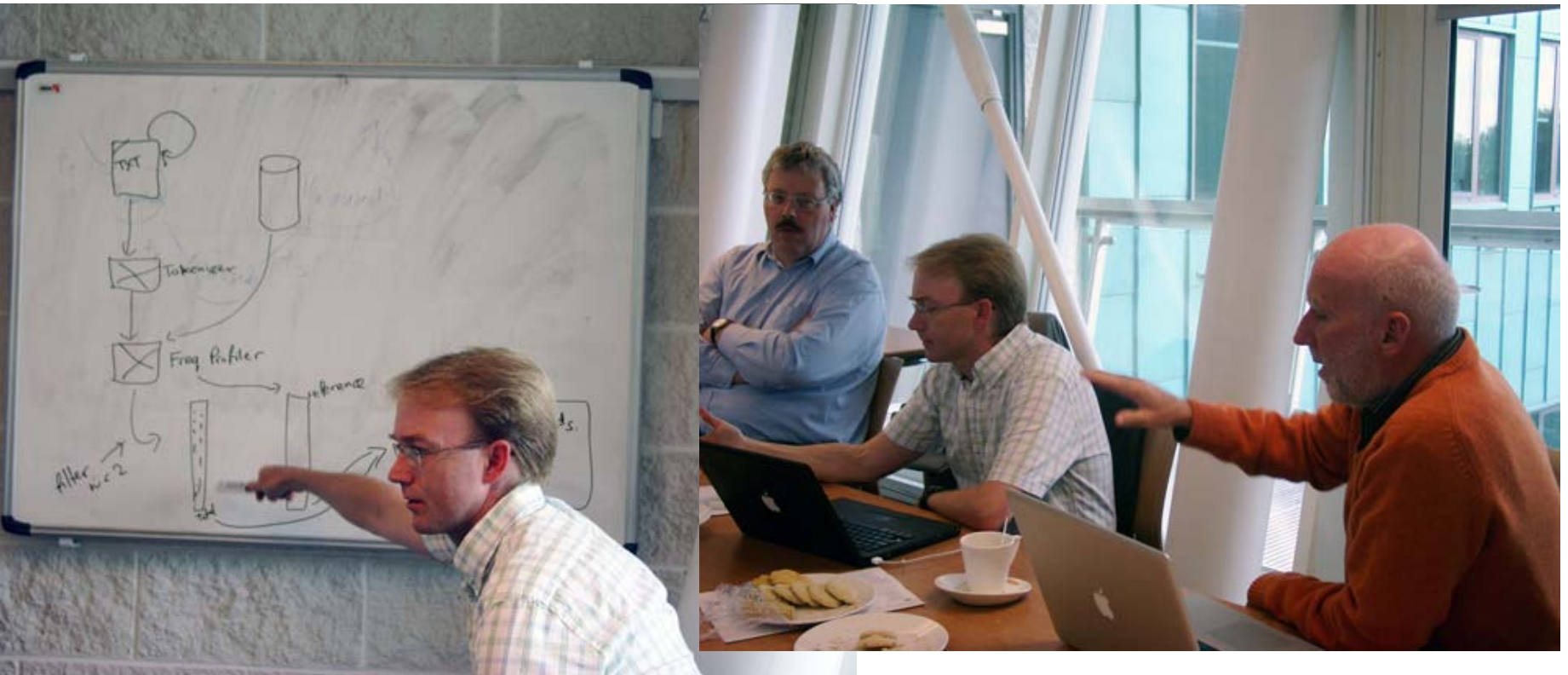
*Pre-proposals are invited for Humanities research projects that would benefit from access to language resources and technology (LRT).*

Decision of CLARIN –EU, May 2009:

“It seems a good project for testing concepts relevant to CLARIN and demonstrating the potential of LRT for humanities research. CLARIN is interested in closely monitoring and advising this project from the design phase on.”



CKCC–CLARIN workshop, Lancaster University, Sept. '09  
with Tamás Varadi, Paul Rayson, Piroska Lendvai



## CKCC – CLARIN-NL

*Quid pro quo*: A ‘Demonstrator’ ready in October 2010, at the CLARIN/DARIAH Conference, Vienna, Austria (19-20 Oct.).

Late 2009: CLARIN-NL application.

The financial support of CLARIN-NL is requested for

- Programming/ implementation LRT technologies for key word and concept extraction.
- Advice on LRT technologies for key word and concept extraction for tool development to analyse and visualize knowledge circulation.

