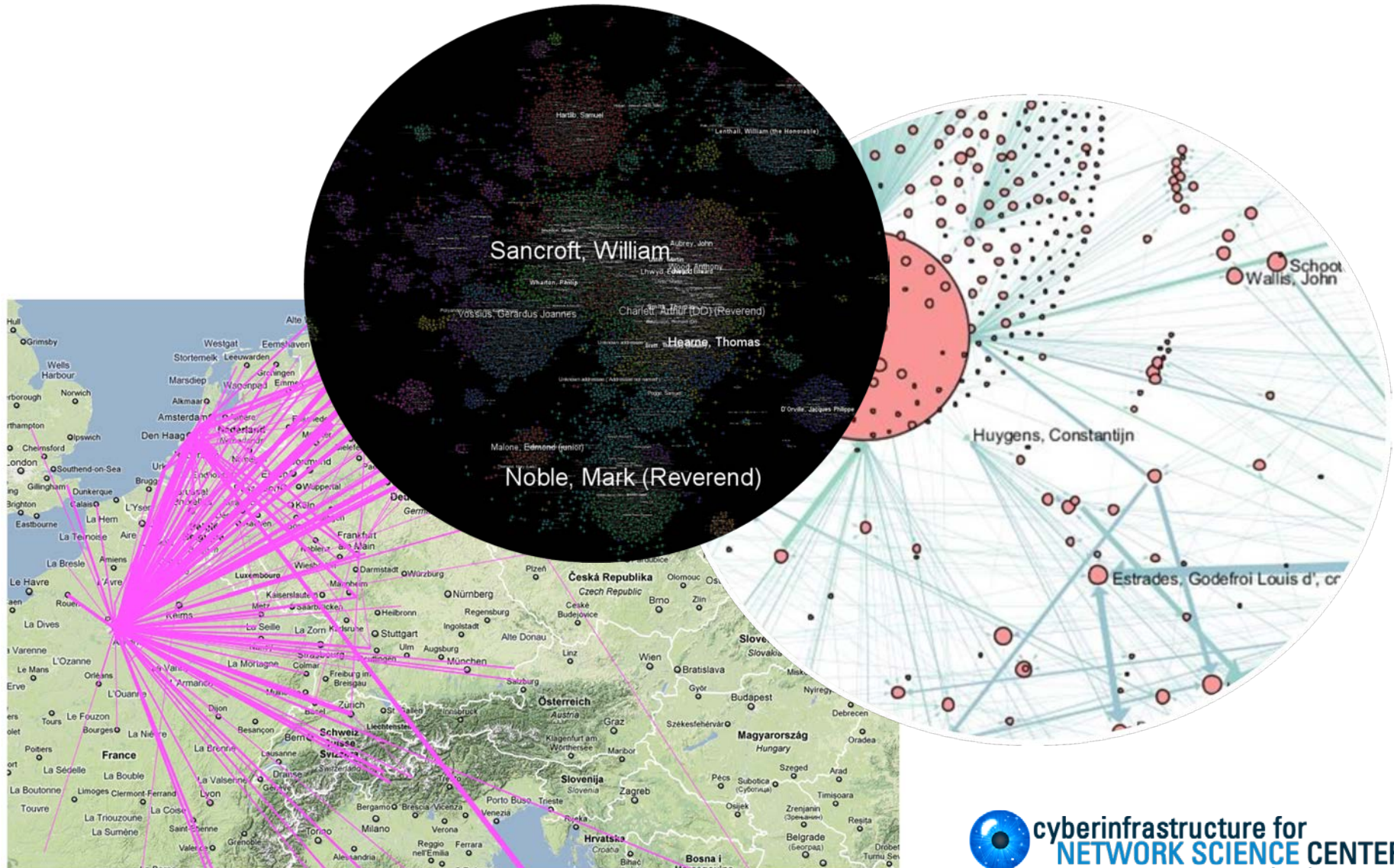


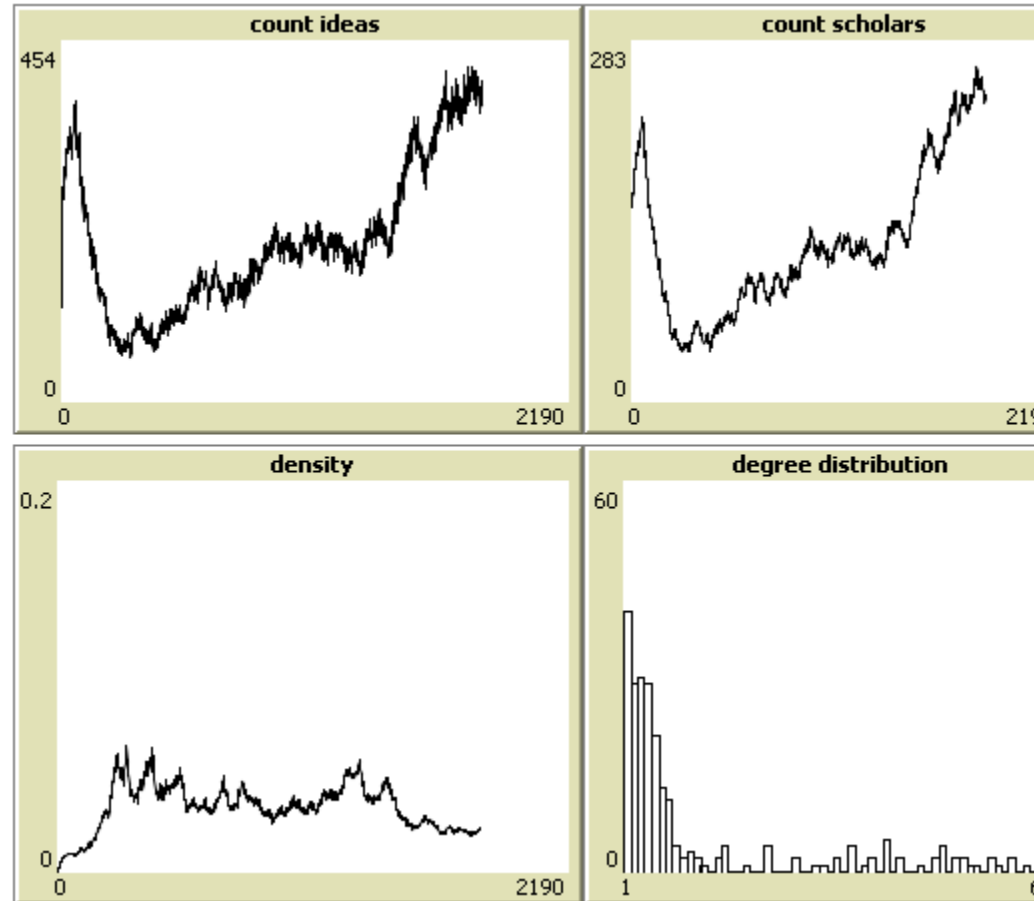
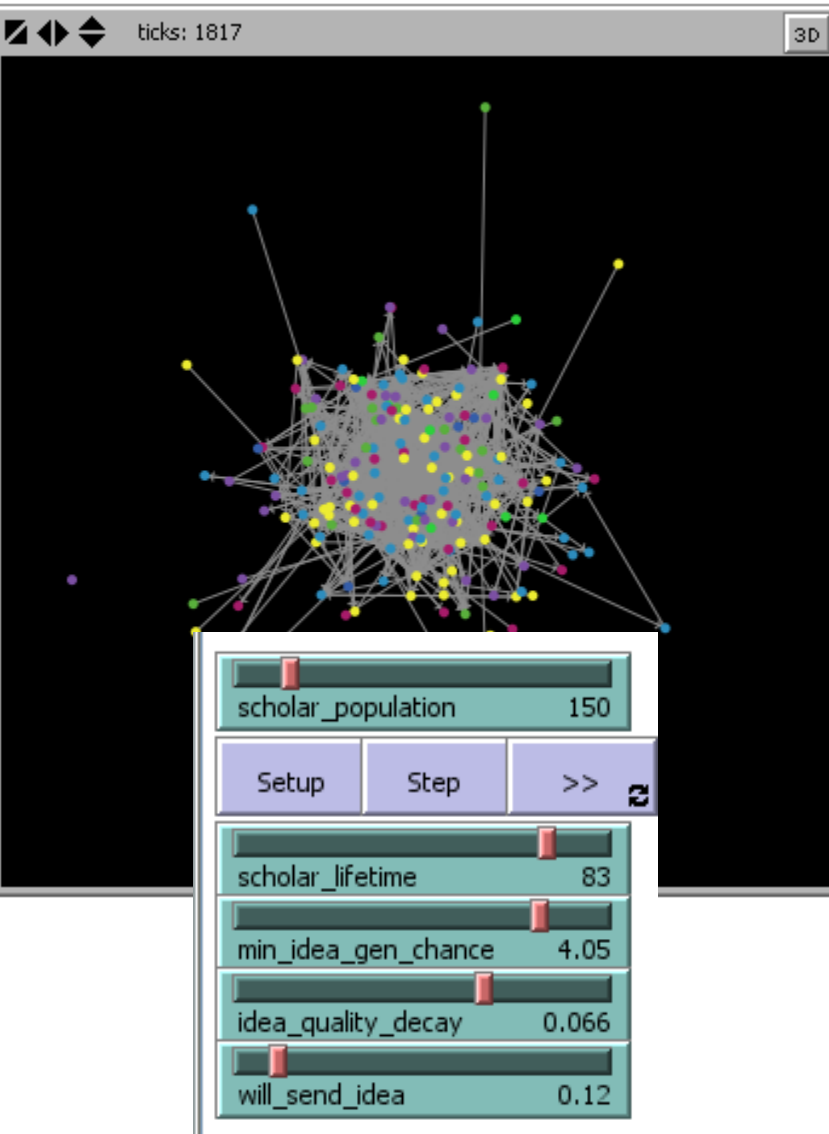
# Finding Scholarly Communities Then and Now

The Nature of Historical Evidence.  
Modeling the History of Scholarship.  
Predicting the Future of Science.

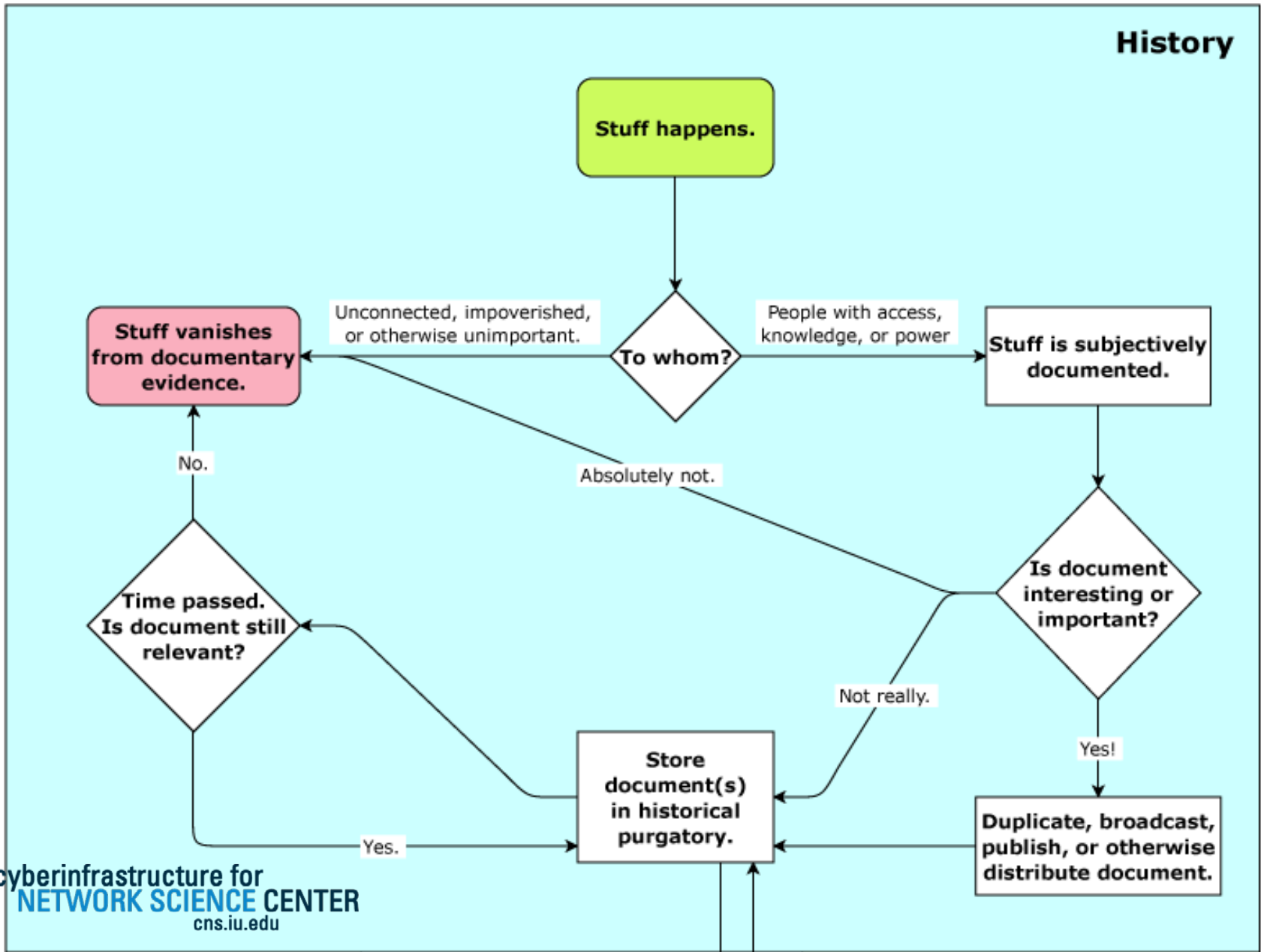
# Mapping the Republic of Letters



# Modeling the Republic of Letters

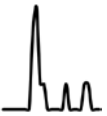



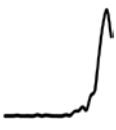


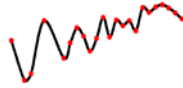
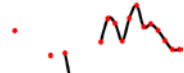
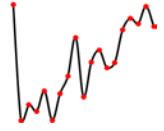



# The Nature of Historical Evidence



# Mixed Indicators Model for Identifying Emerging Research Areas

- Sudden increase in specific word frequency
- Speed with which new authors attracted
- Changing interdisciplinarity of cited references

Indicators	Nano*	RNAi	Impact Factor	h-Index	Insight Gains
# Bursting Words			0		Topical Change
# New Authors					Topical Brain Drain
Interdisciplinarity of References					Diversity of Base Knowledge