

The Future of Historical Network Research , 13-15 September, 2013 Hamburg

Conceptualize

History into “Dots and Lines”

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Dynamic Network Analysis of
the History of **Chinoiserie**
Architecture in Germany



Outline

- ◆ History of Chinoiserie
- ◆ Network: build Chinoiserie network
- ◆ Diffusion analysis :
 - Adopter types: 5 phases
 - Adoption thresholds
- ◆ Historical explanation of network analysis

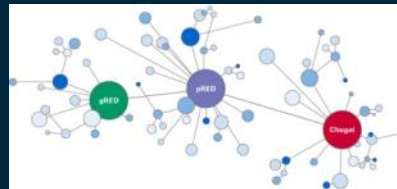


Outline

History



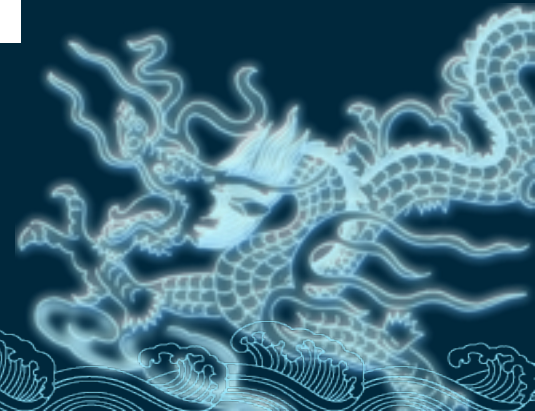
Network



Analysis

$$\begin{aligned}\frac{dC_U}{dt} &= \pi_W(1-sp) - \alpha C_U - \mu_C C_U \\ \frac{dC_V}{dt} &= \pi_W sp - \alpha C_V - \mu_C C_V \\ \frac{dA_U}{dt} &= \alpha C_U - f(\bar{e}\bar{p})A_U - \mu A_U - \beta_H A_U N \\ \frac{dA_V}{dt} &= \alpha C_V - f(\bar{e}\bar{p})A_U - \mu A_V - (1-\psi)\beta_H A_V N \\ \frac{di_U}{dt} &= \beta_H A_U N - \mu i_U \\ \frac{di_V}{dt} &= (1-\psi)\beta_H A_V N - \mu i_V \\ \frac{dM}{dt} &= \pi_M - \beta_H i_U M - \mu M - \beta_H i_V M \\ \frac{dN}{dt} &= \beta_H i_U M - \mu N + \beta_H i_V M,\end{aligned}$$

Historical explanation



History of Chinoiserie

- ◆ “Chinoiserie”

a French word, meaning “chinese-esque”

- ◆ → in decorative arts

- ◆ → in architecture

- ◆ ! Chinoiserie is not “Chinese,” but
“European”





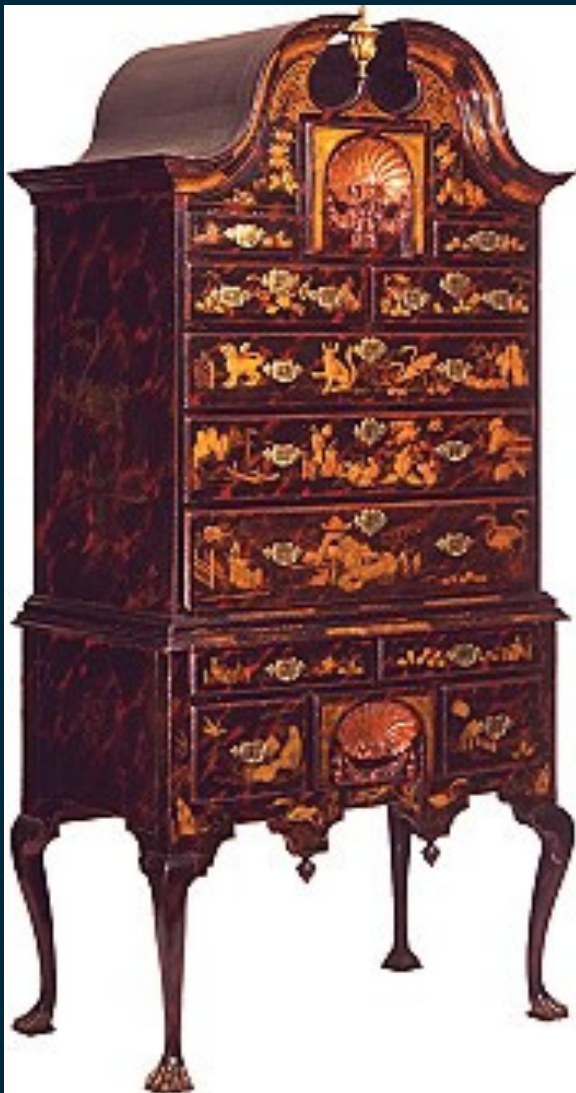
The Chinese Garden, a
chinoiserie painting
by [François Boucher](#).





Chinoiserie porcelain, made in Europe





Japanned High Chest*, 1740 -1750
Signed John Pimm, Boston
Courtesy Winterthur Museum



Chinoiserie furniture





Chinoiserie interior,
mirror cabinet in
Schönbrunn Palace,
Austria





Chinoiserie interior,
Schönbrunn Palace,
Austria





Trianon de Procelain,
1767 Versaille, France

Architecture

in

Chinoiserie



Chinese/Japanese Tea House, Sanssouci, Potsdam, Germany

Architectural Chinoiserie in
Germany





Chinese Tower, English Garden, Munich, Germany

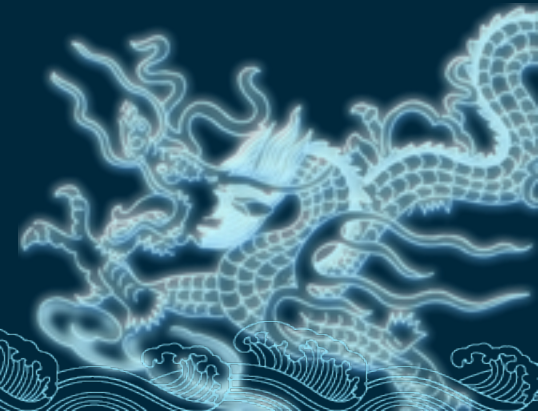
Architectural Chinoiserie in
Germany

Architectural Chinoiserie in Germany



Selected sites with Chinoiserie buildings:

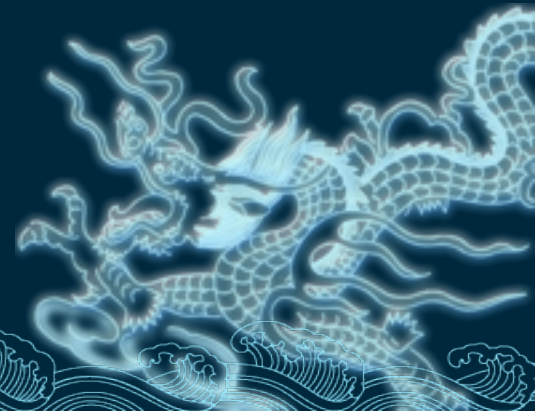
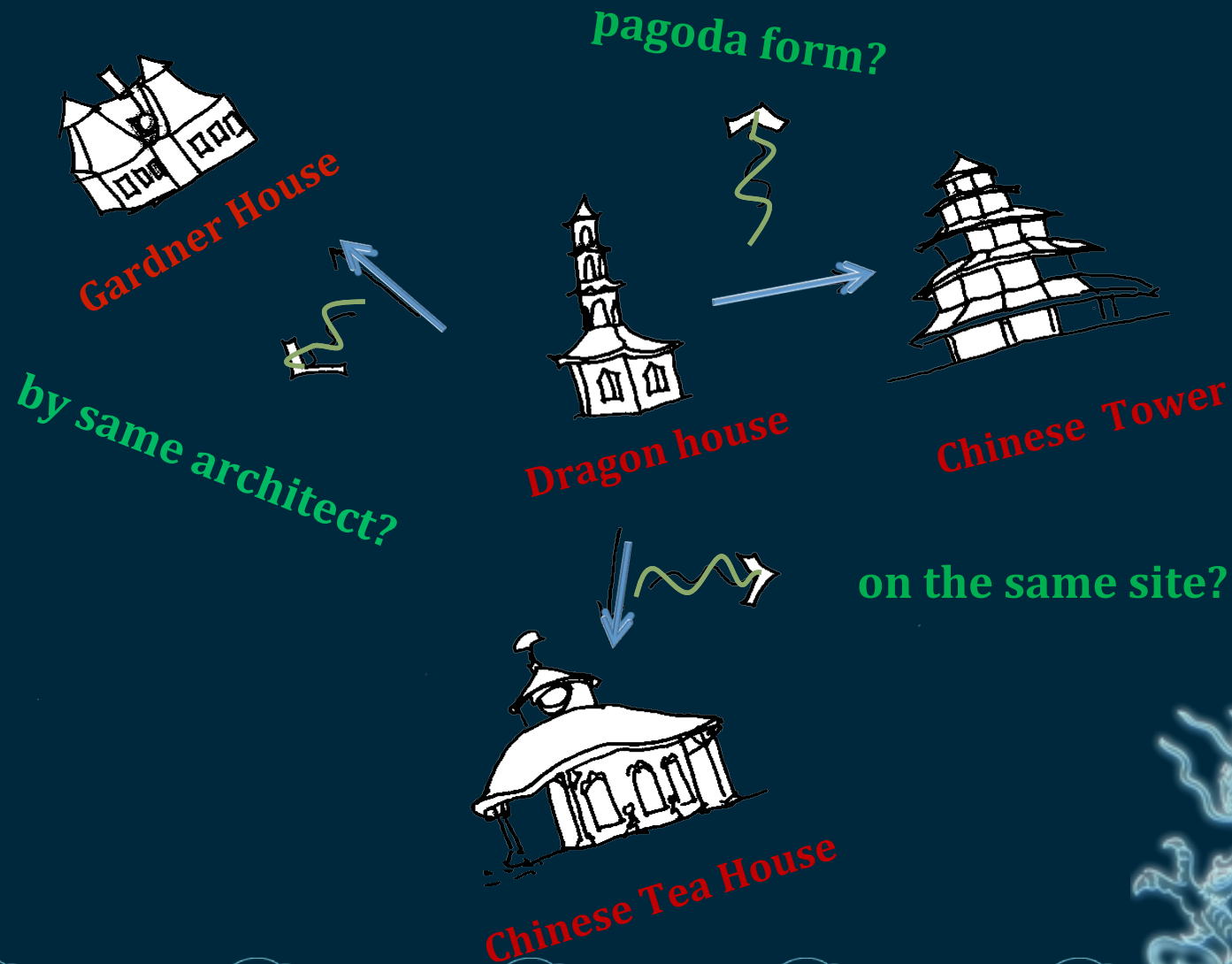
1. Sanssouci , Potsdam
2. New Garden, Potsdam
3. Pillnitz , Dresden
4. Mulang, Wilhelmshöhe, Kassel
5. Nymphenburg, Munich
6. English Garden, Munich
7. Ludwigsberg, Saarbrücken
8. Karlsruhe Palace, Karlsruhe



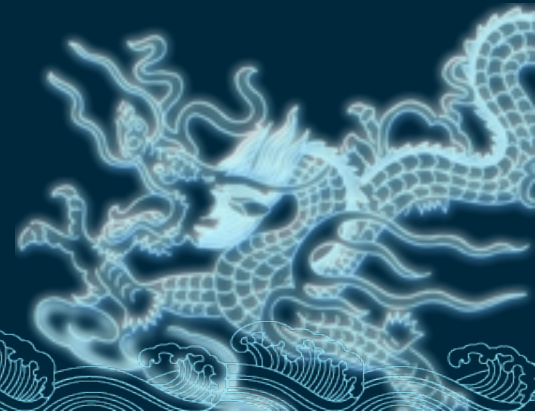
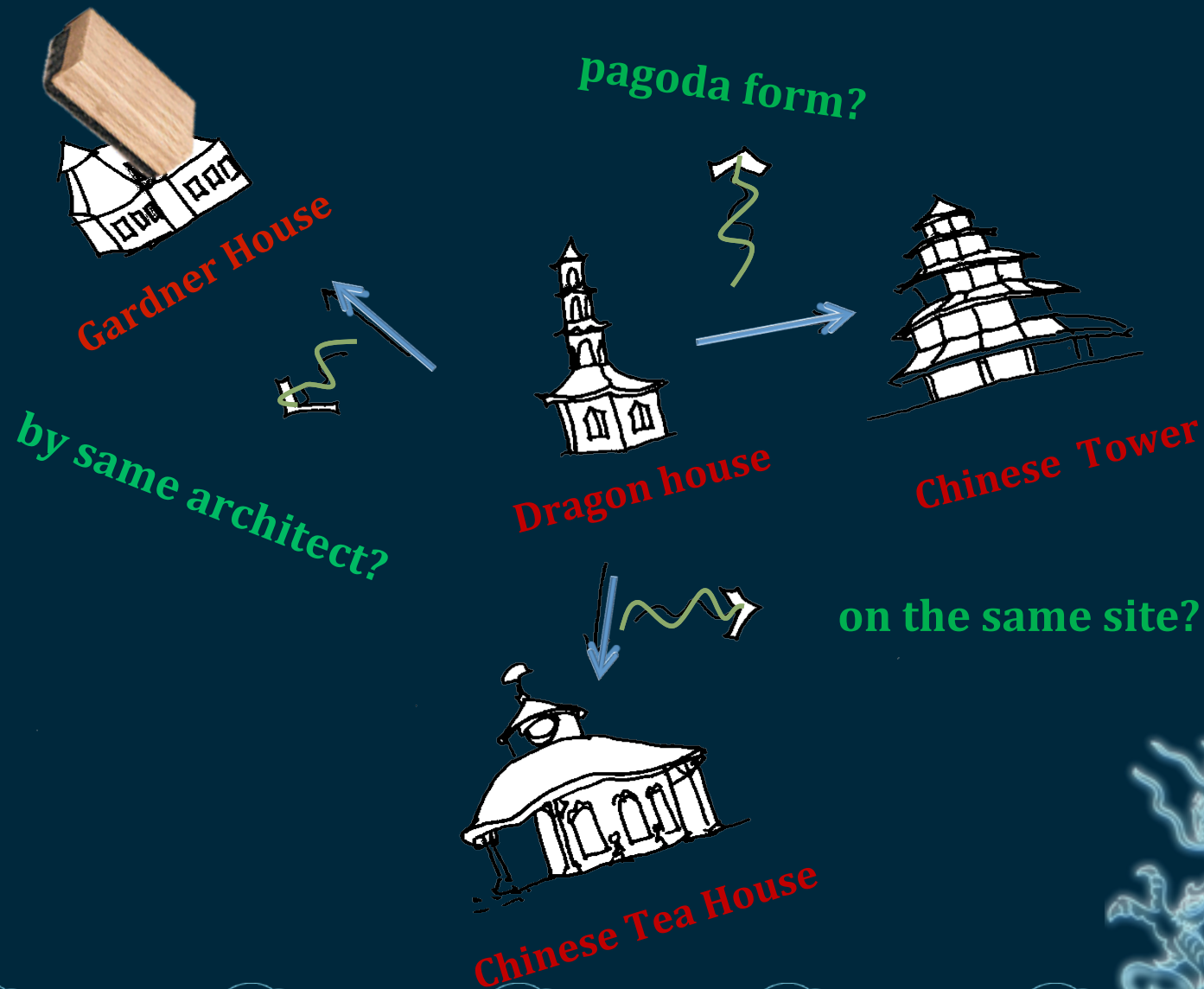
Build **Chinoiserie** Network



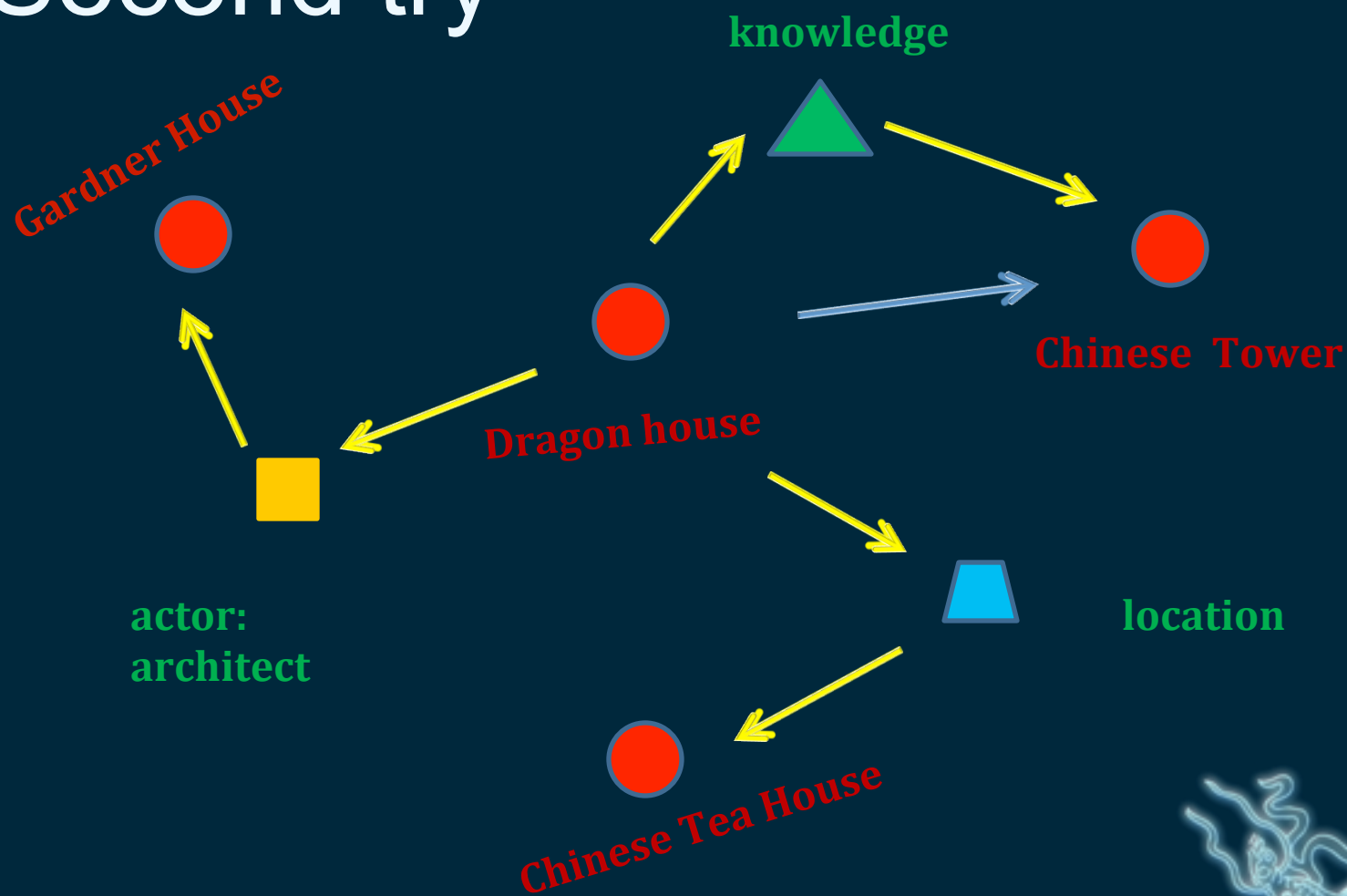
First try



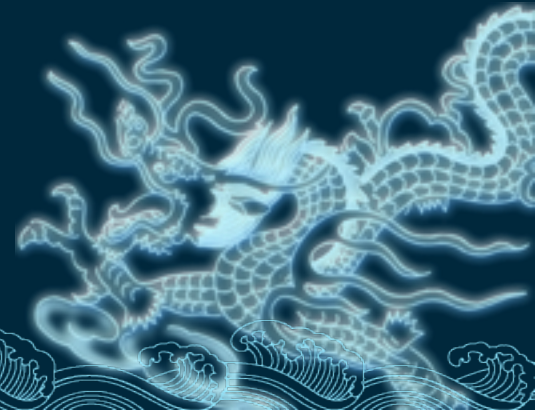
First try



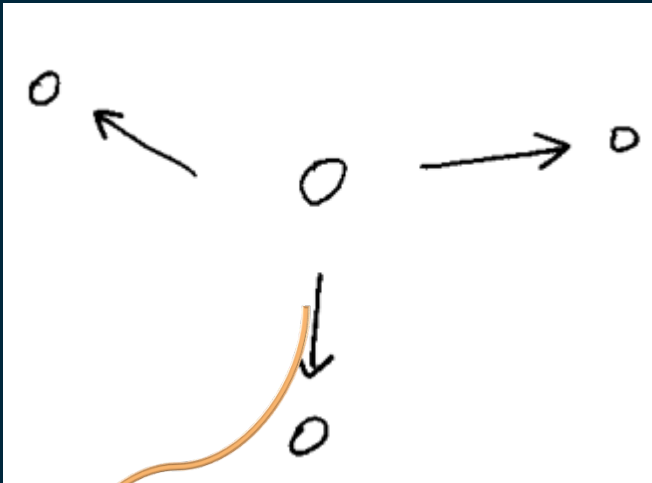
Second try



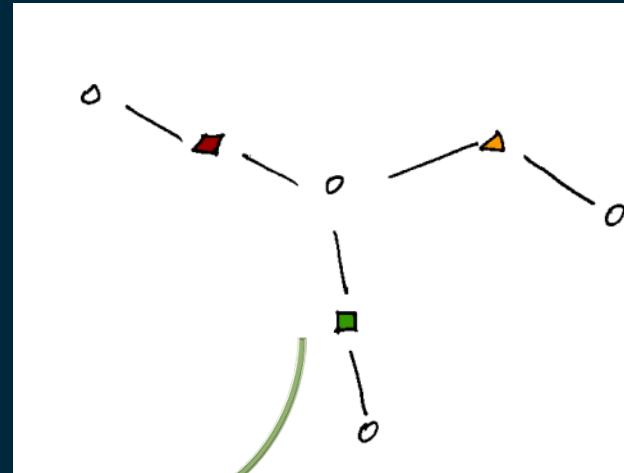
Build chinoiserie Network



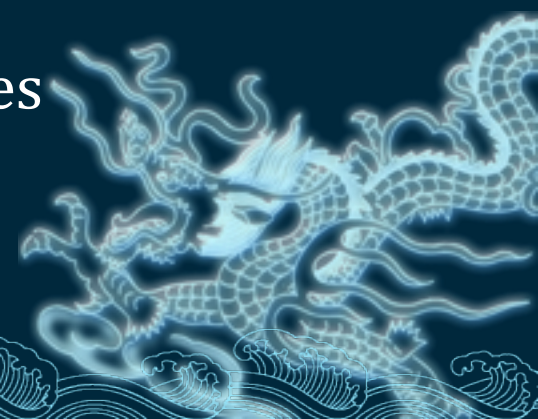
Compare first and second tries



Confusing relation



Nodes from extra modes

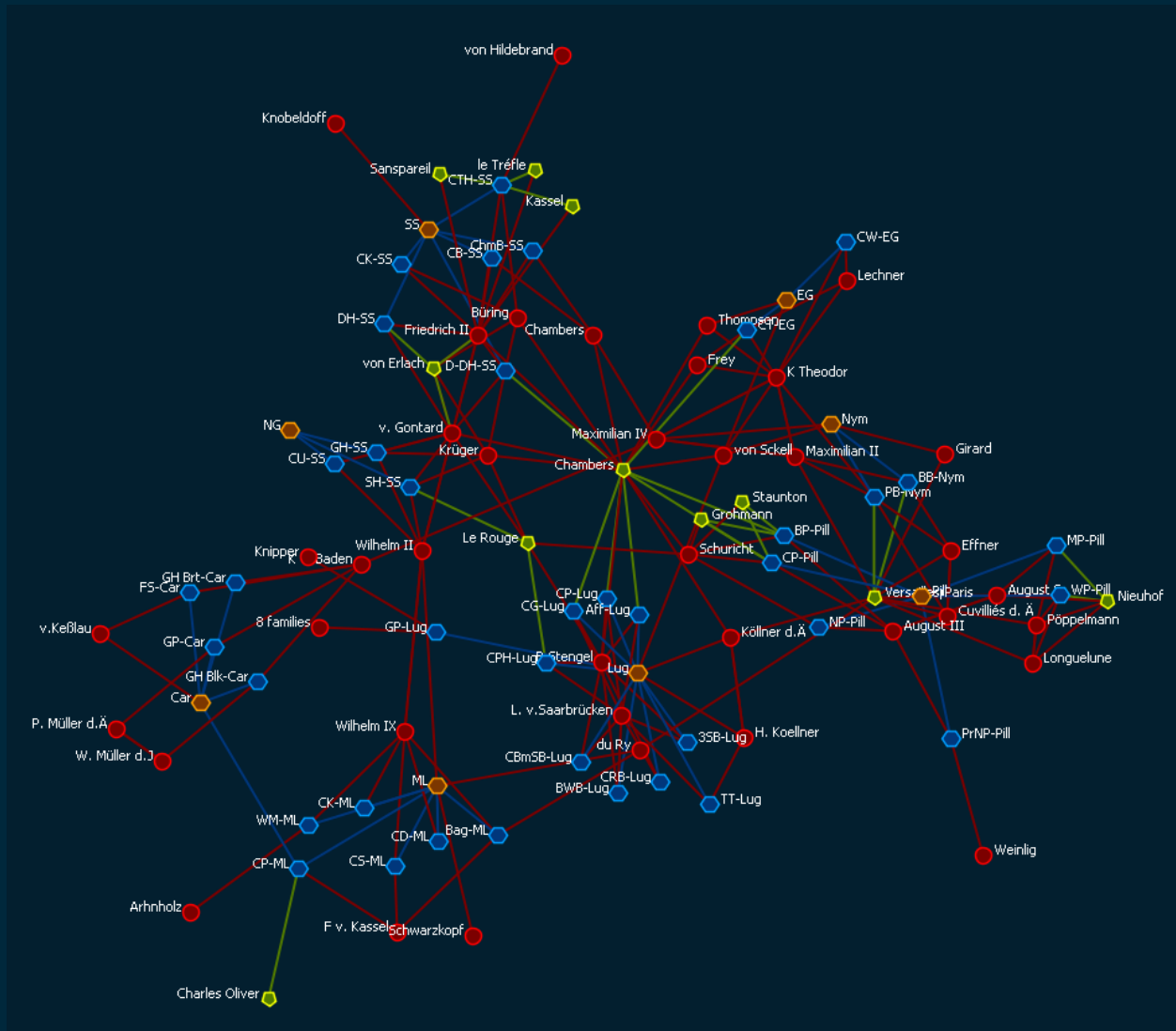


Big question

Who (architects) designed
which buildings (tasks)
for whom (sponsors)
at where (locations)
with reference to what
(knowledge)?

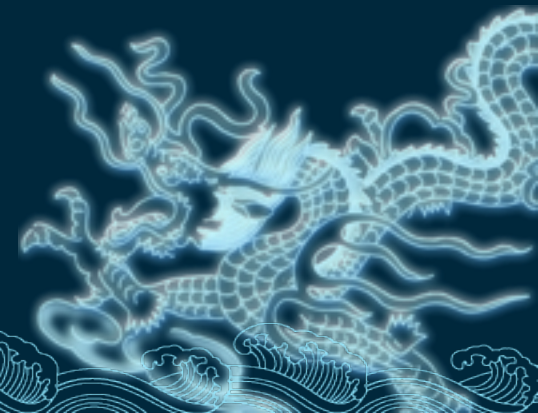
- ◆ Modes:
- ◆ **Actor**
- ◆ **Task**
- ◆ **Location**
- ◆ **Knowledge**





- ◆ Modes:
- ◆ **Actor**
- ◆ **Task**
- ◆ **Location**
- ◆ **Knowledge**

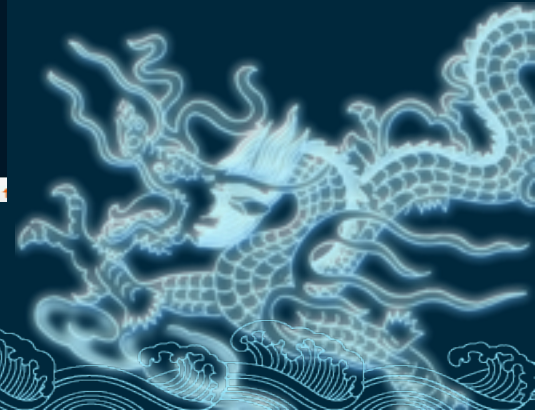
Build chinoiserie Network





Dynamic
Network of
Chinoiserie
Architecture
in Germany
(8 sites)

Build **Chinoiserie** Network



Diffusion Analysis

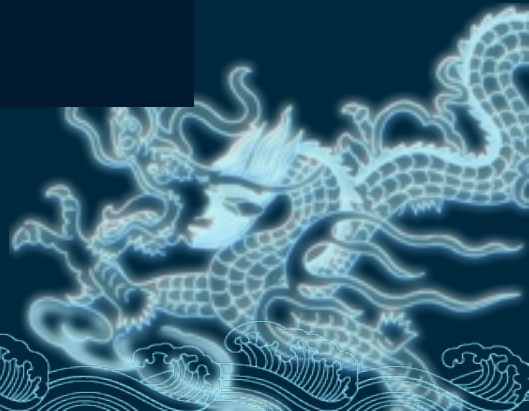


Goal

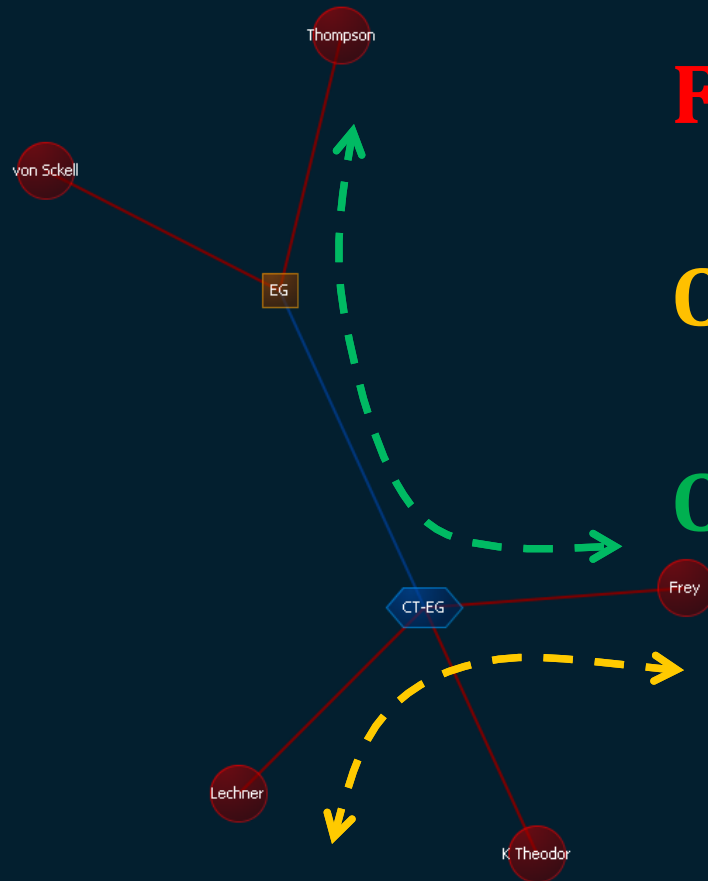
study the spread of Chinoiserie ideas
among people



Diffusion Analysis



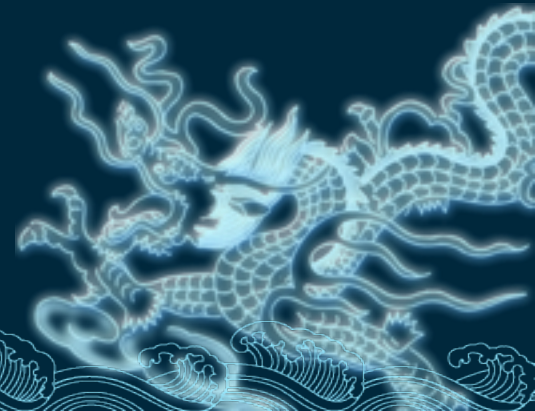
Discover unknown links



Focus Theory, Feld 81

Co-task affiliation

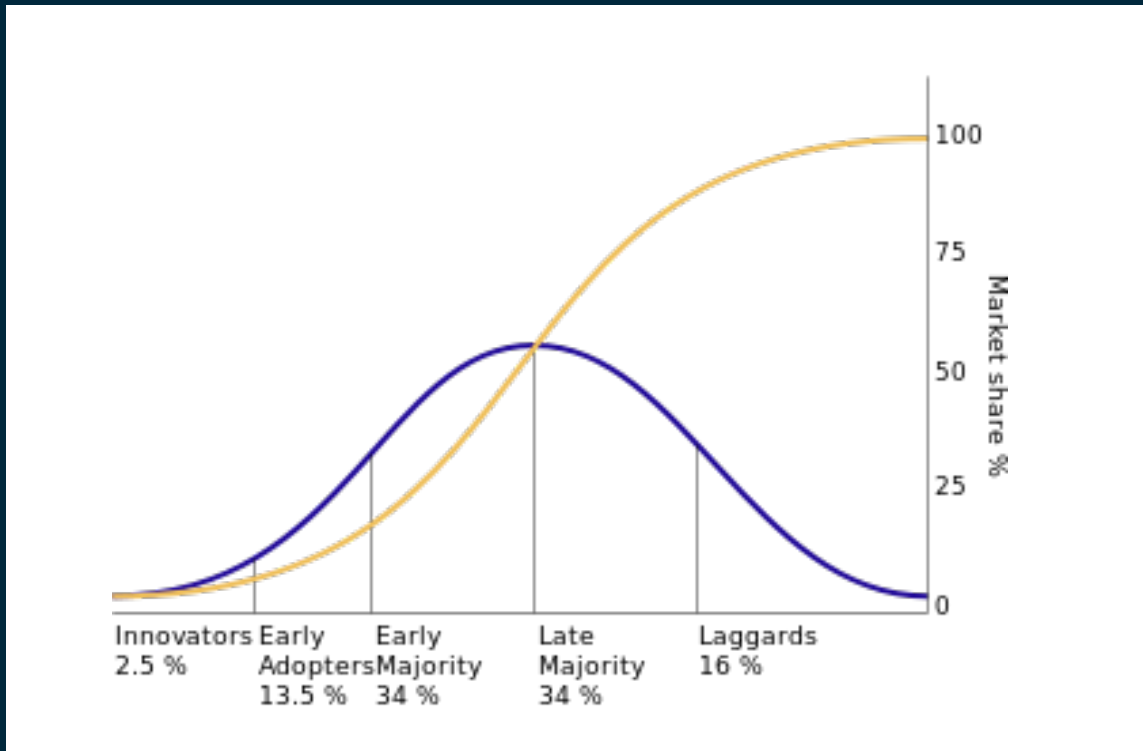
Co-location affiliation



Two Diffusion Measures

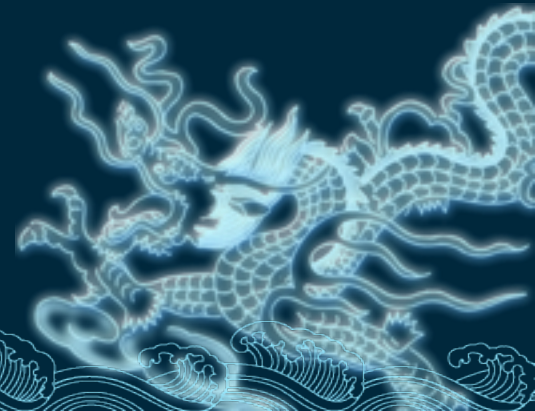


5 types of adopters

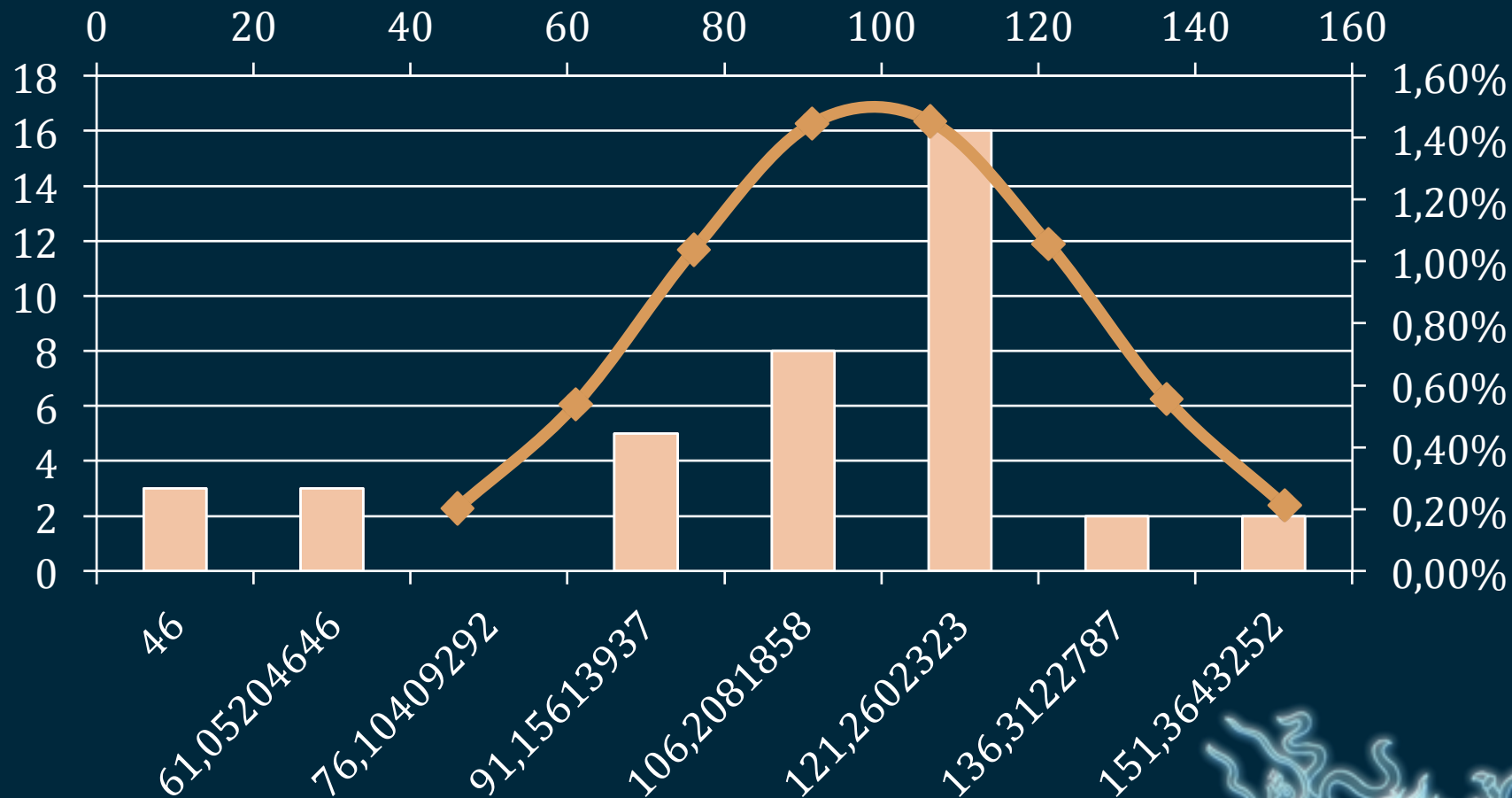


early adopters,
early majority,
late majority, and
laggards

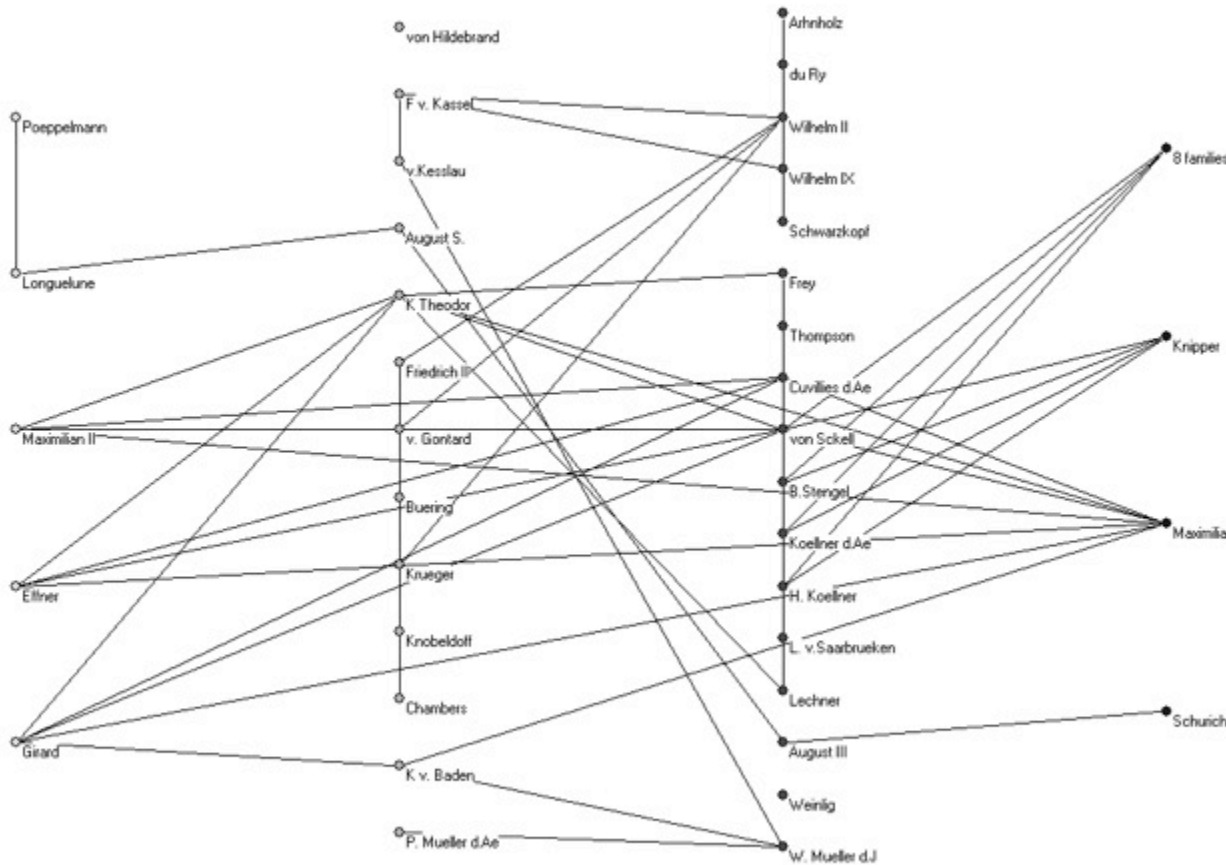
(Rogers 1962, p. 150)



Five types of adopters over time

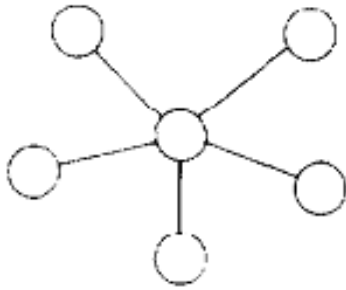


Five types of adopters over time

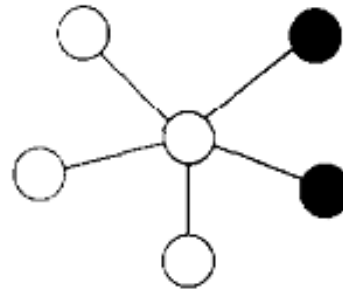


Thresholds willingness to adopt

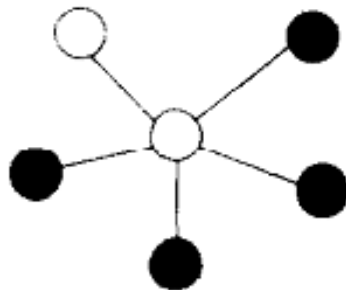




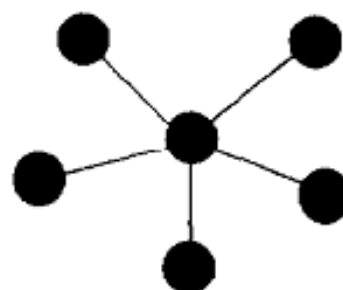
(a) time=1, exposure= 0%



(b) time=3, exposure= 40%

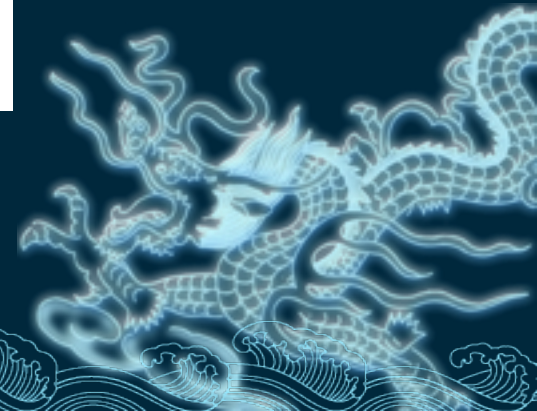


(c) time=5, exposure= 80%

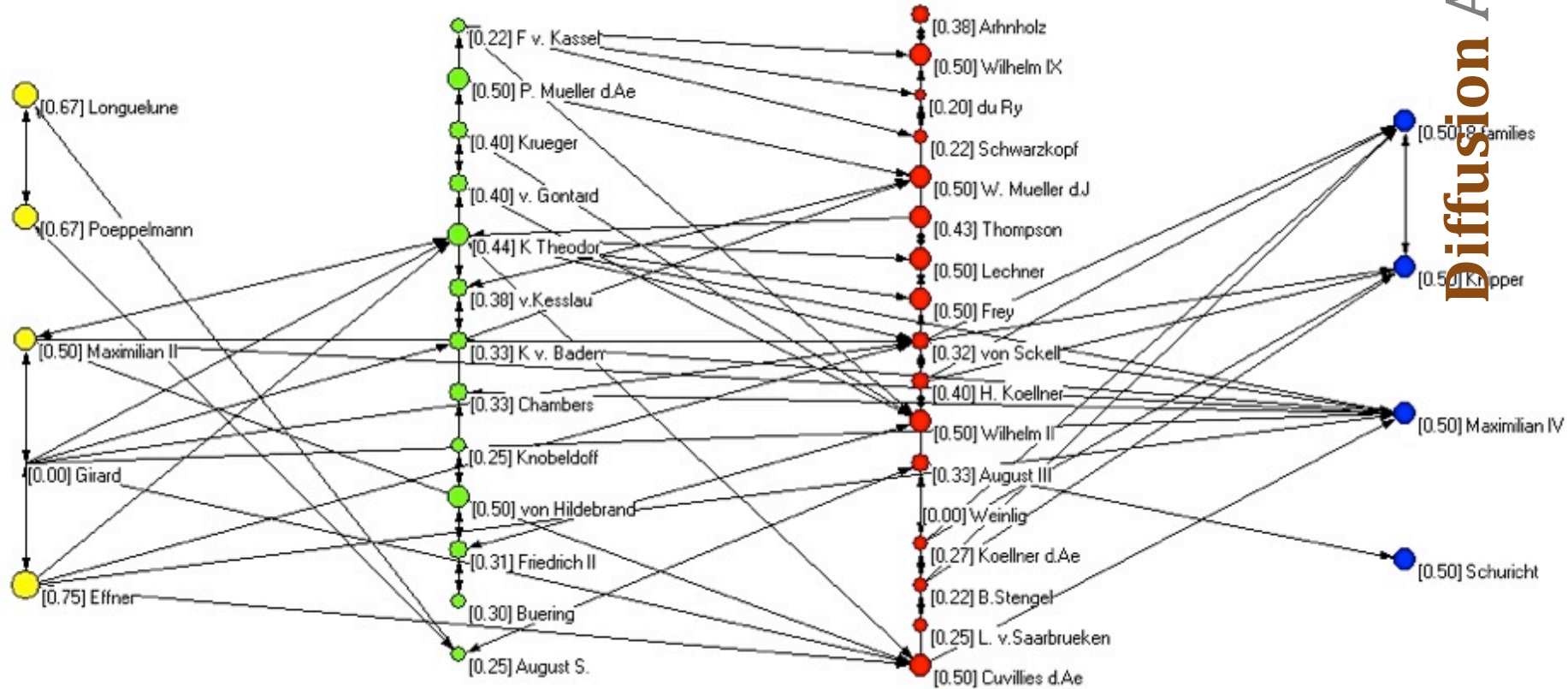


(d) time=8, exposure= 100%

Definition of
threshold (Valente
1996)



Thresholds of each actors in Chinoiserie Network

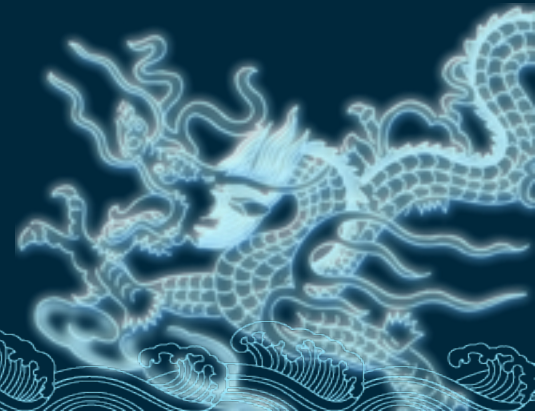


Some Thoughts



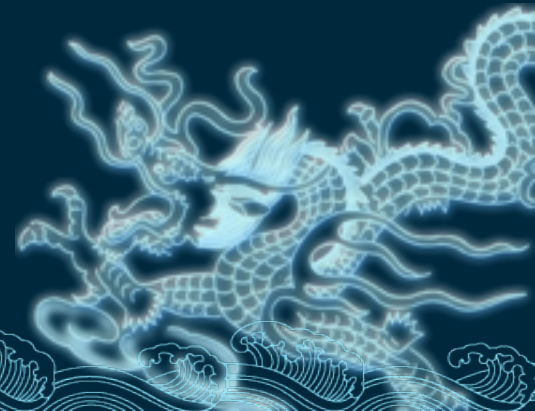


It is **fun** to
study history
with network
approach





It helps to solve
difficulties in
historical research
with a
structuralist
method





Cartoon by Maurice Henry, published in La Quinzaine Littéraire, 1 July 1967.

*(from left to right)
Foucault, Lacan,
Levi-Strauss, and
Barthes.*

However, results of the **structural** analysis
need a **historical** round-up



Thank You

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