

Social «Code»

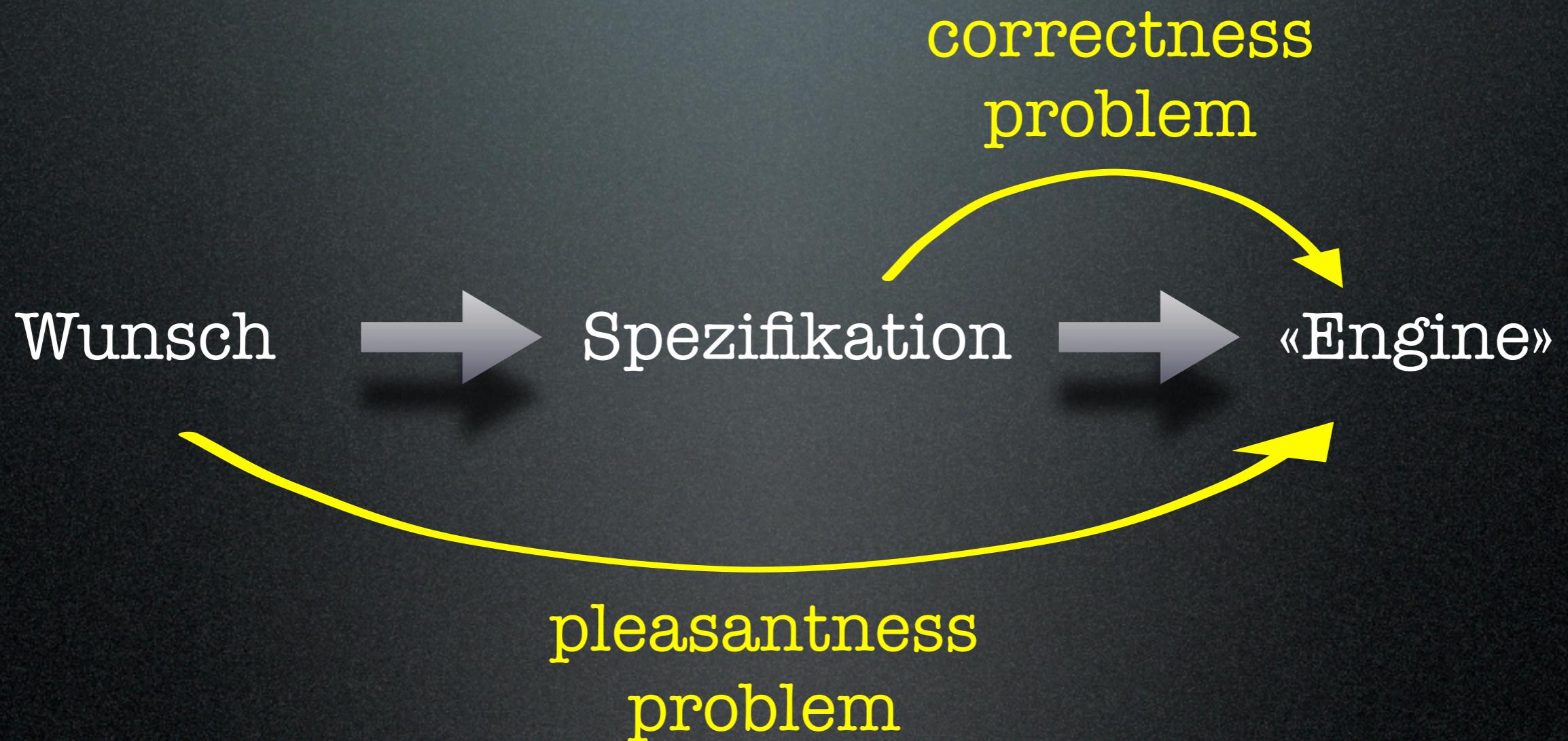
Regulierungsdynamik im Internet Relay Chat

Dr. Kei Ishii

Workshop "Software als Institution"
Karlsruhe, 12.12.2008

"Firewall"-Debatte

Dijkstra (1989)



Computer Science

Computability
De-centralised Information Systems
Semantic Web
Process Calculus...

Mathematics

Theory of Graphs
Networks
Statistics
Game Theory...

Web Engineering

Protocols
Architectures
Accessibility
Security
Resilience...

Psychology

Social attitudes
Cognitive properties
Human Information Processing
Experimental Methods...

Biology

Evolutionary dynamics
Systems biology
Plasticity...

Ecology

Structure of ecosystems
Ecosystem Productivity
Population Dynamics
Digital Biosphere...

Artificial Intelligence

Knowledge Representation
Languages
Inference
Bayesian Methods
Agent Based Computing...

Sociology

Social attitudes
Theory of groups
Social networks
Plume Tracing...

Socio-cultural

Values, attitudes and lifestyles: fast trends
Anti-corporate
'Open source' values
New trust matrix: NGOs
Ethical consumers
Demography

Economics

Theory of Markets
Macro and Micro economics
Auction models
Types of capital...

Law

Intellectual Property
EU/regulatory drivers
Public engage vs indifferent
Corporate social responsibility

Media

Fragmented public media and discourse
Single issue moral panics
Smart mobs
Mobile opinion formers...

Colliding Web Sciences

(Social) «Code»
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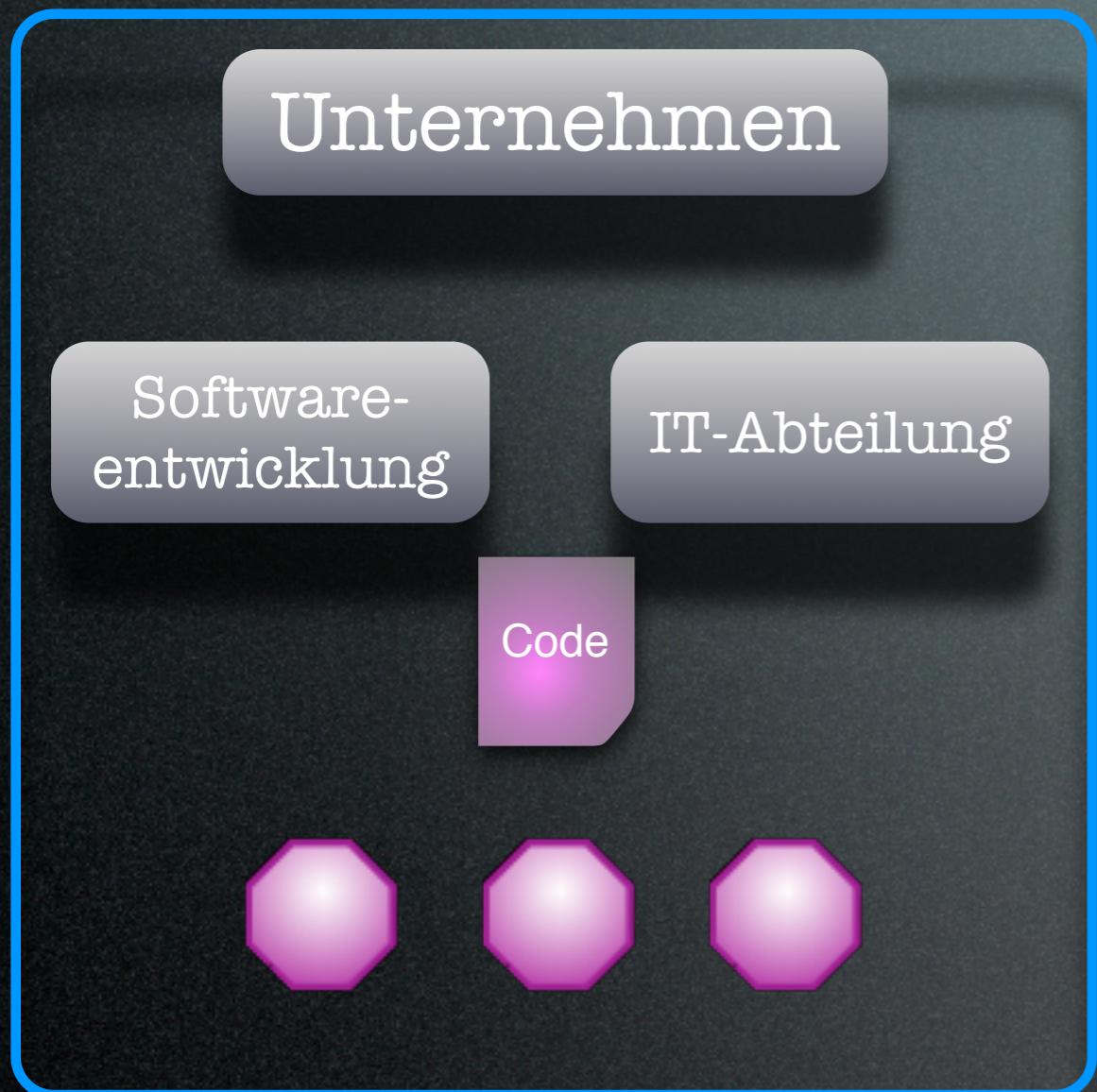
Institutionelle Strukturen
durch Software

Internet Relay Chat

(Ishii 2005)

- 'Chatten' : Text-'messages' zwischen Teilnehmern in Echtzeit im Internet
- 1988 von finnischen Studenten begonnen
- Eine der größten Internetanwendungen
- Analyse: Quelltext und Primärtexte

Institutioneller Rahmen



Unternehmen

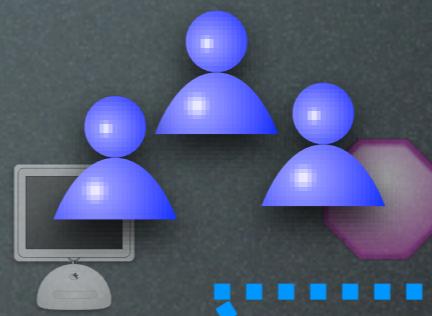
Software-
entwicklung

IT-Abteilung

Code

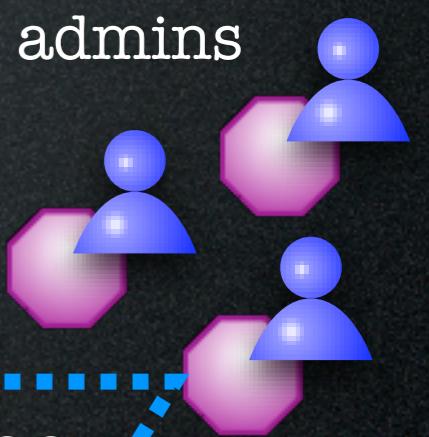


Software-
entwickler



IRC

Server-
admins

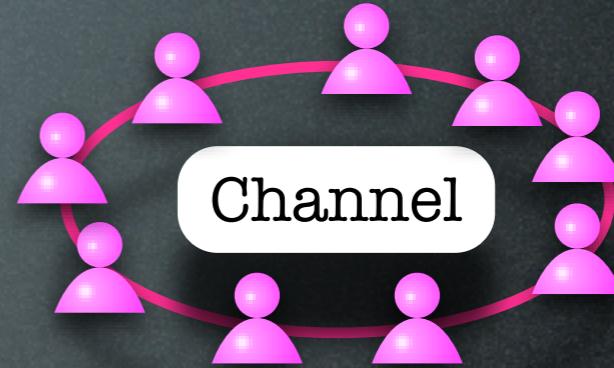


Open Source



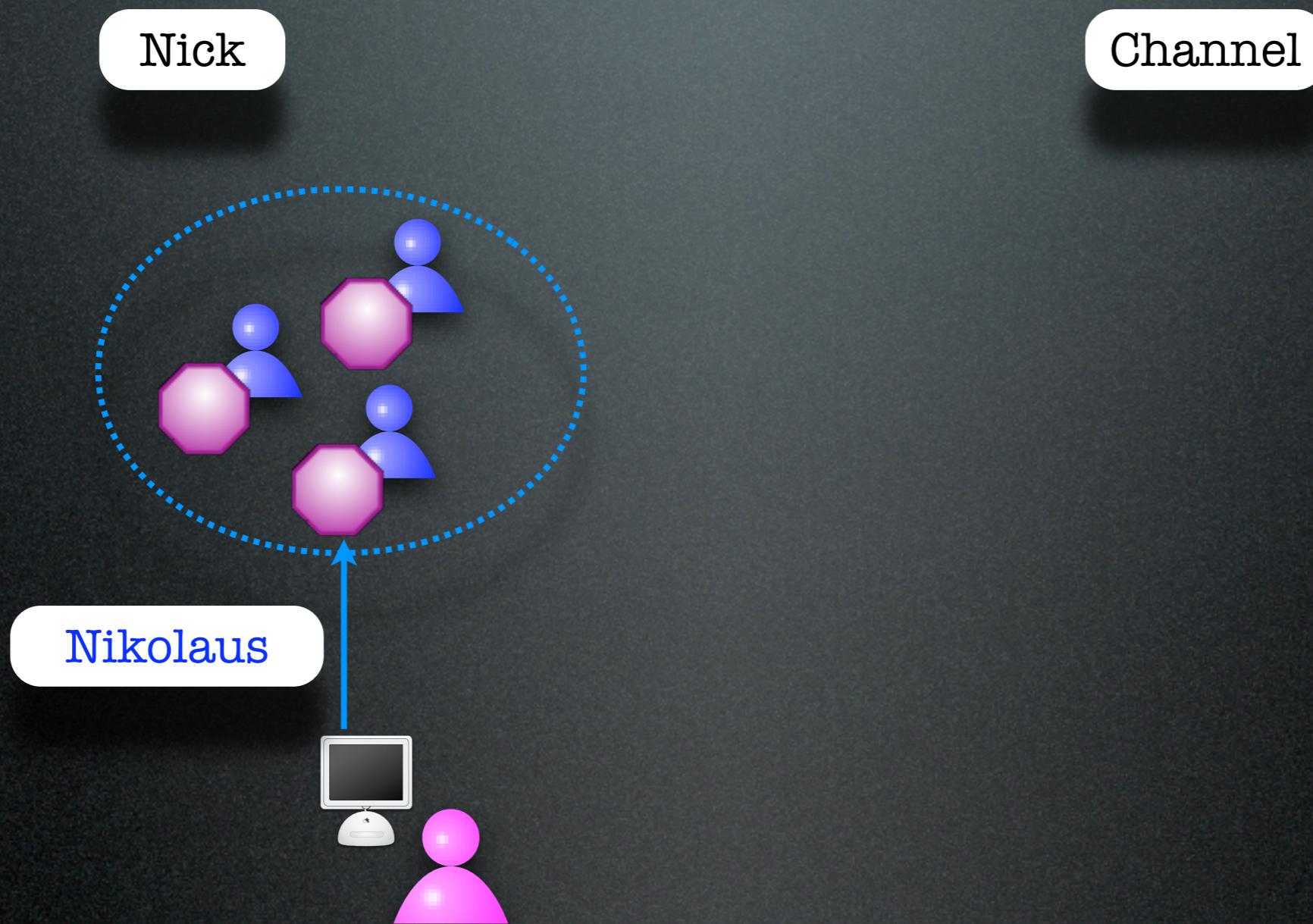
Institutionelle Dynamik

Eigentum?



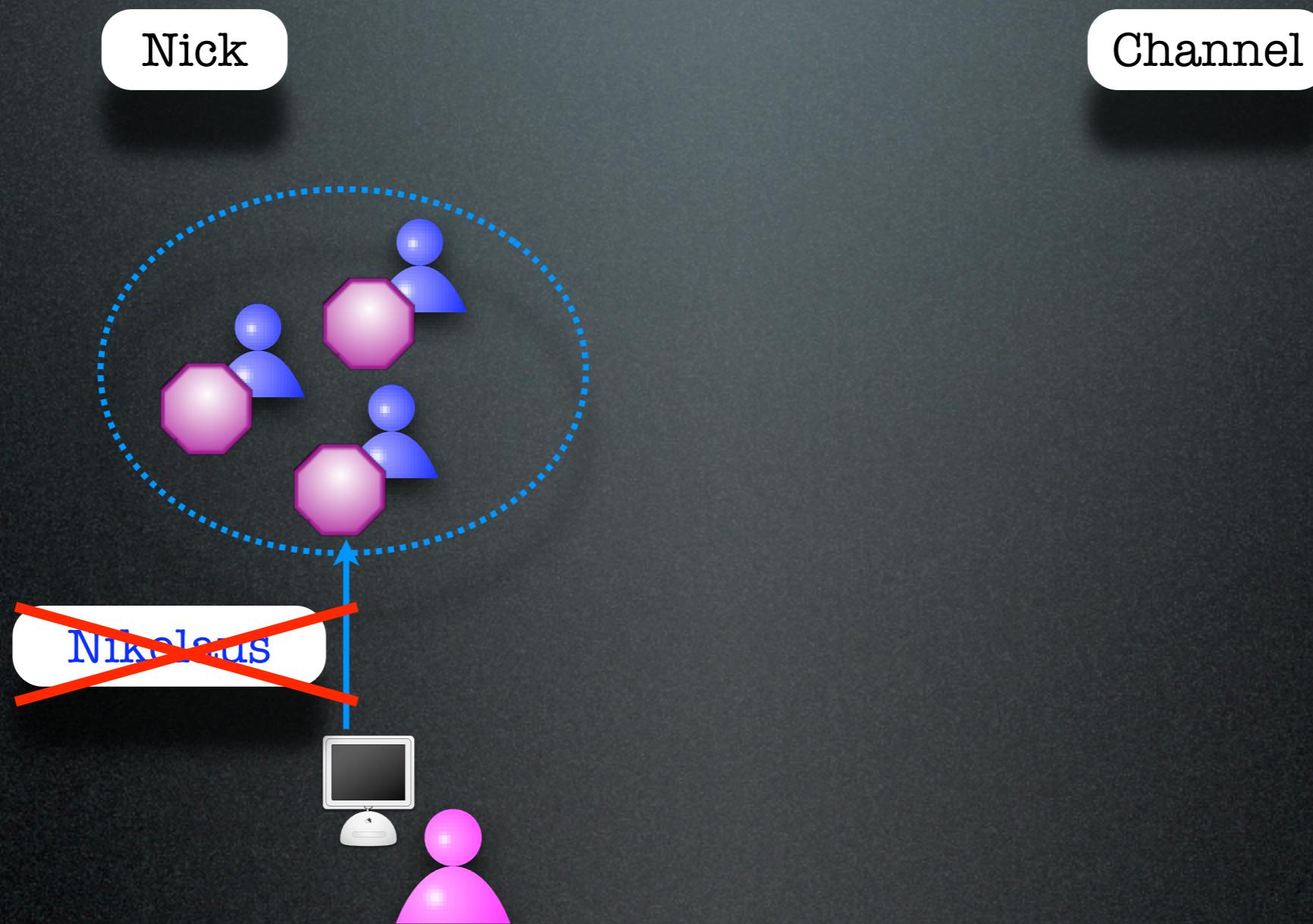
Institutionelle Dynamik

Kein Eigentum



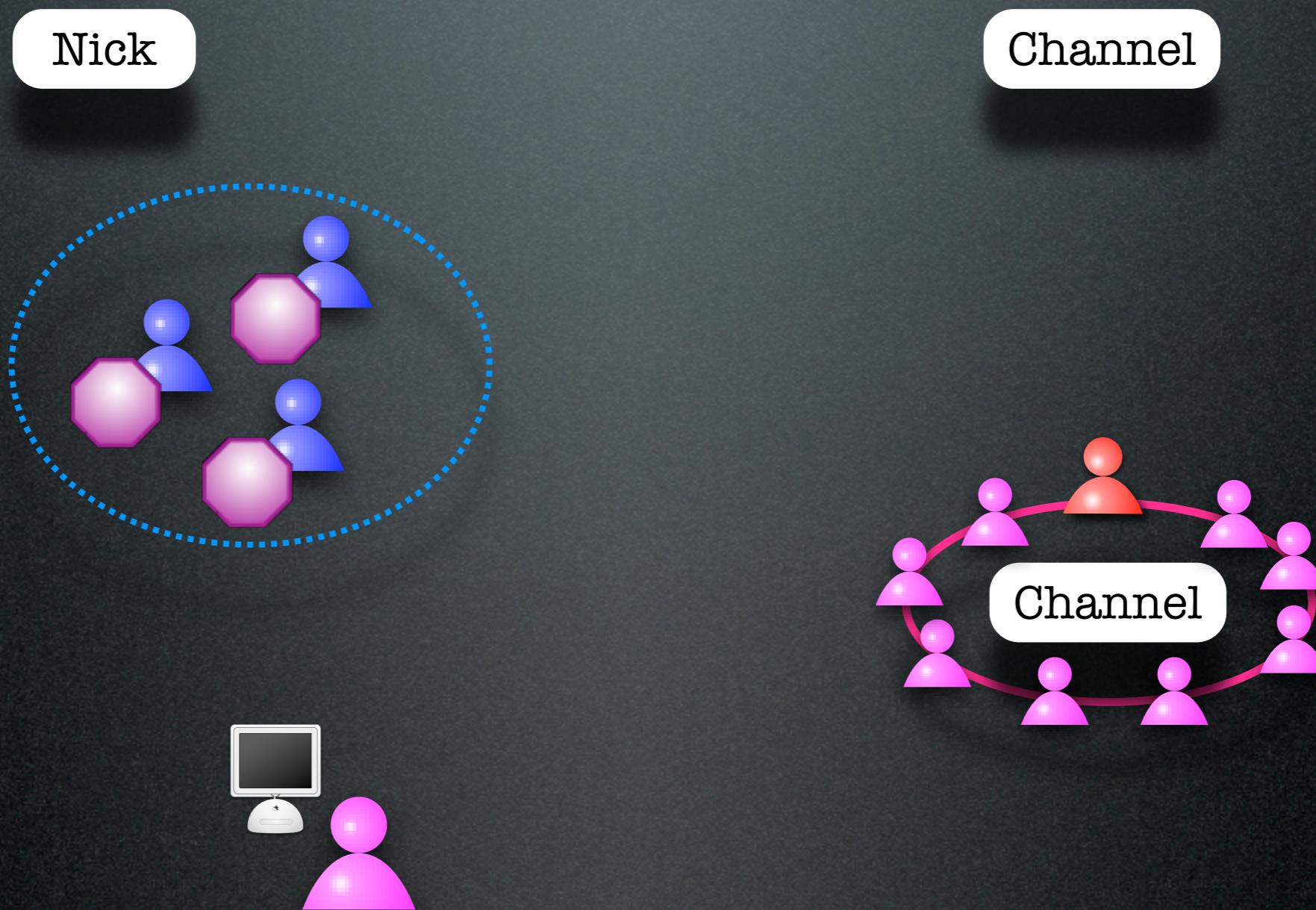
Institutionelle Dynamik

Kein Eigentum



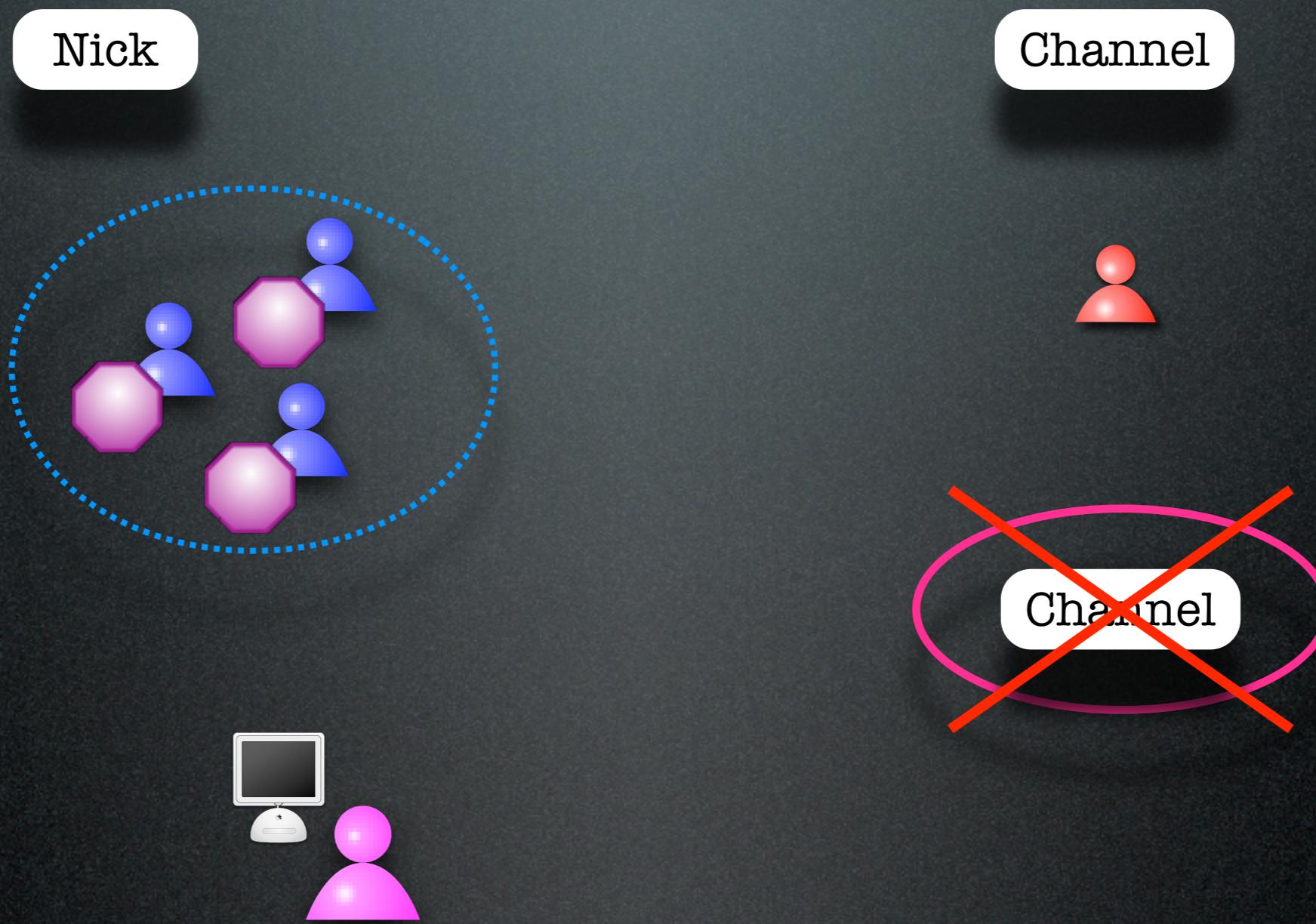
Institutionelle Dynamik

Kein Eigentum



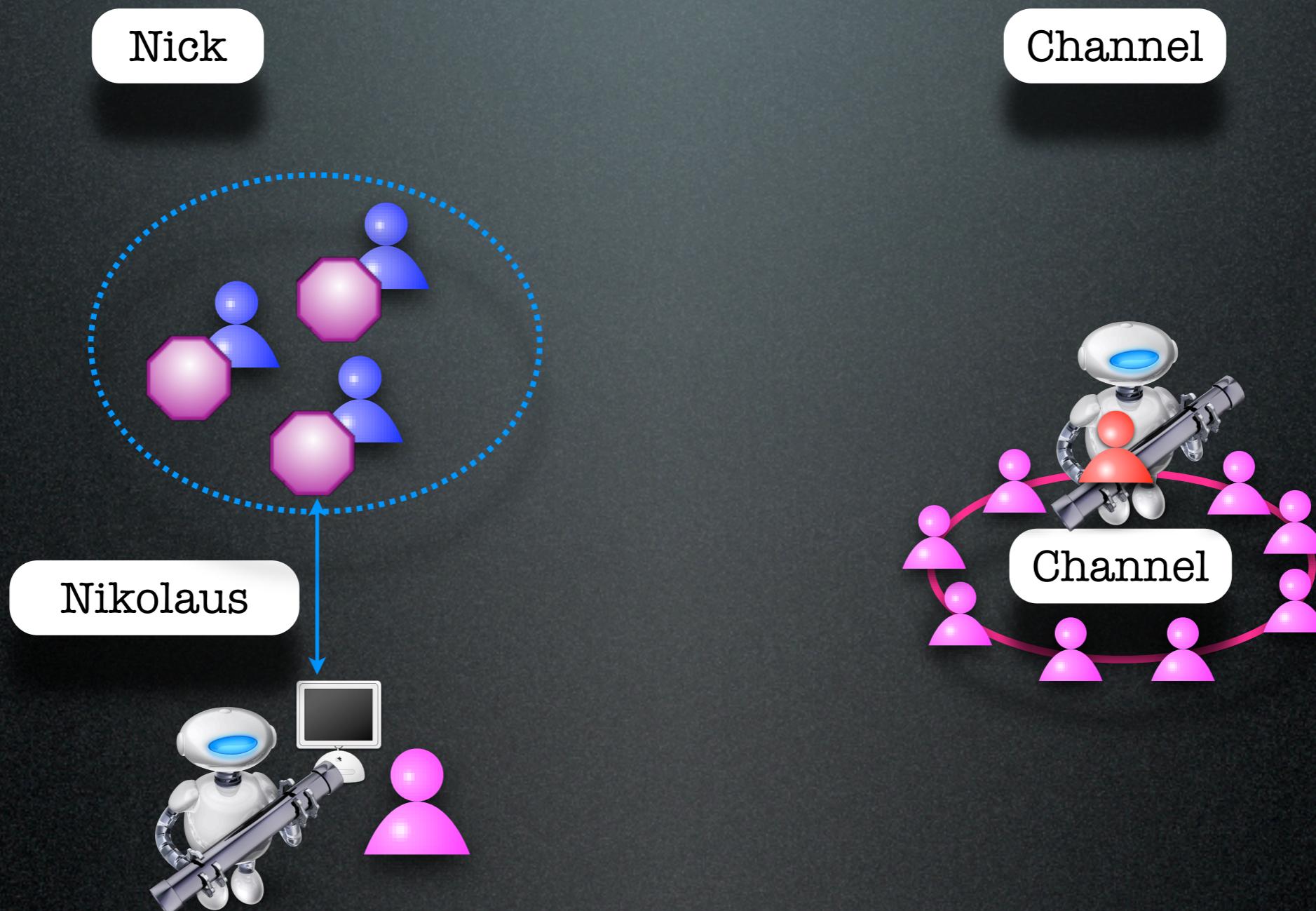
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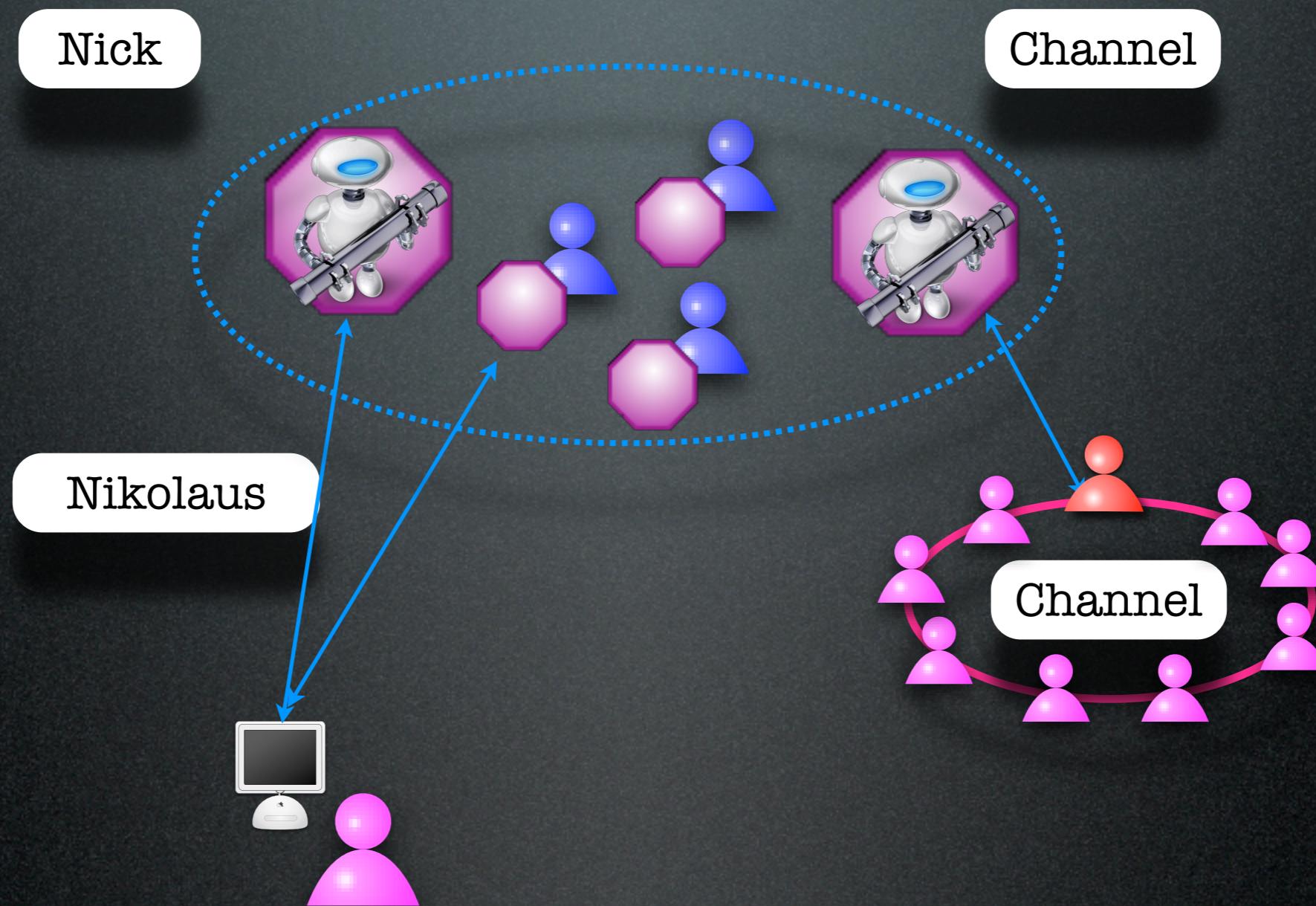
Institutionelle Dynamik

User bots



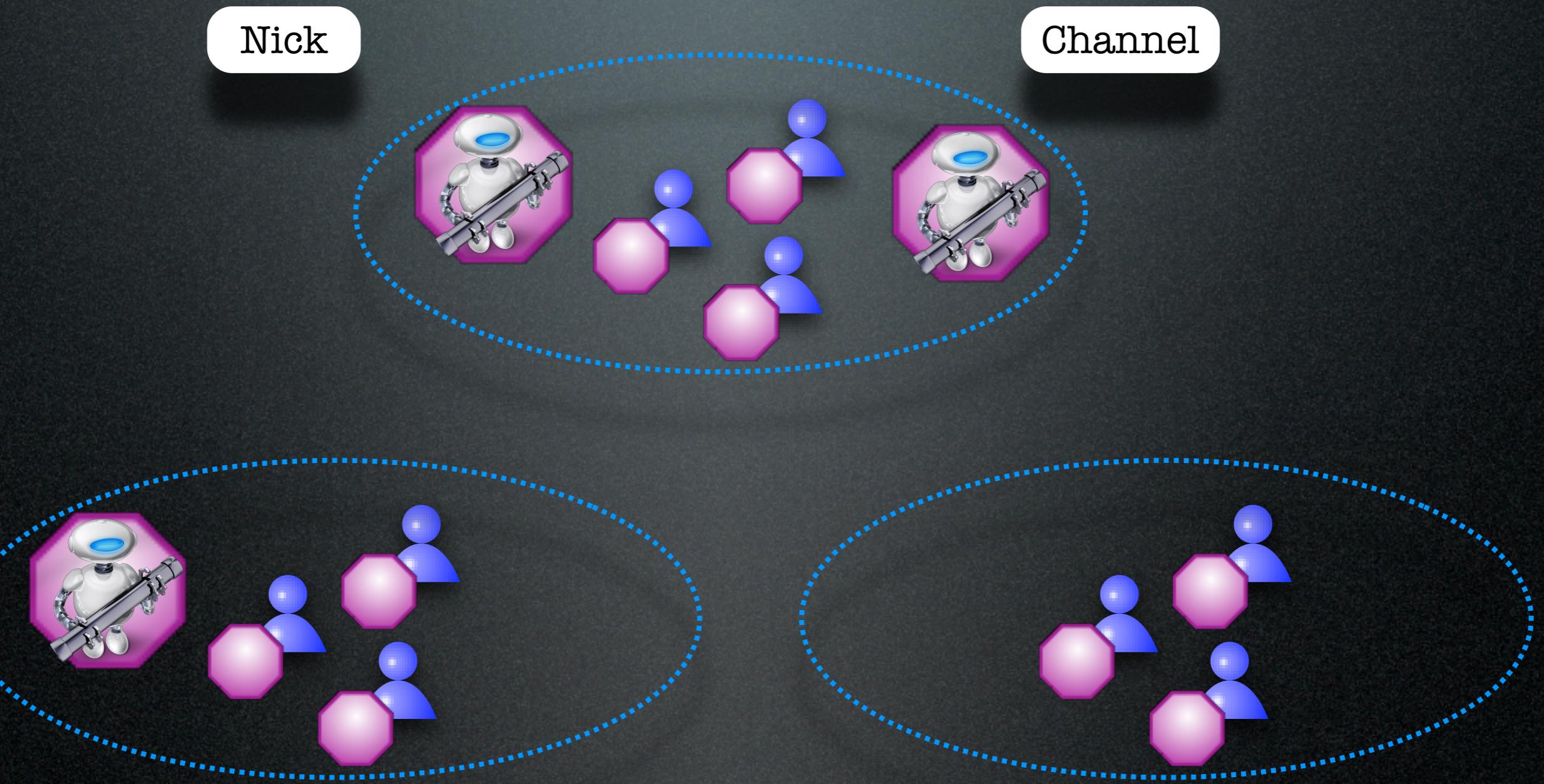
Institutionelle Dynamik

Server bots



Institutionelle Dynamik

"Jurisdiktionen"



- Komplexes Regulierungsgeschehen auf der **technischen Ebene**
- Institutioneller Rahmen:
Open Source «Code» = 'Machtfrage'
- Institutionelle Dynamik:
Mehr 'Emergenz' denn Planung

Literatur

- Berners-Lee, Tim; Hall, Wendy; Hendler, James; Shadbolt, Nigel; Weitzner, Daniel J. (2006): Creating a Science of the Web. *Science* 313(5788), S. 769-771.
- Dijkstra, Edsger (1989): On the Curelty of Really Teaching Computing Science. In: CACM Vol. 32 No. 12 (December 1989), pp. 1398-1414.
- Ishii, Kei (2005): Code Governance – «Code» as Regulation in a Self-governed Internet Application from a Computer Science Perspective, Dissertation, Technische Universität Berlin. Online: <http://opus.kobv.de/tuberlin/volltexte/2005/1104/>