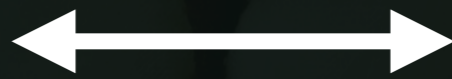Internet security Communities and
the open source production Model
Andreas schmidt, @shmt

Current activities

proprietary big-data-driven security services ⟷ cooperation in security communities

shmt@me.com

SECRECY
**VERSUS
OPENNESS**

Internet security
and the limits of
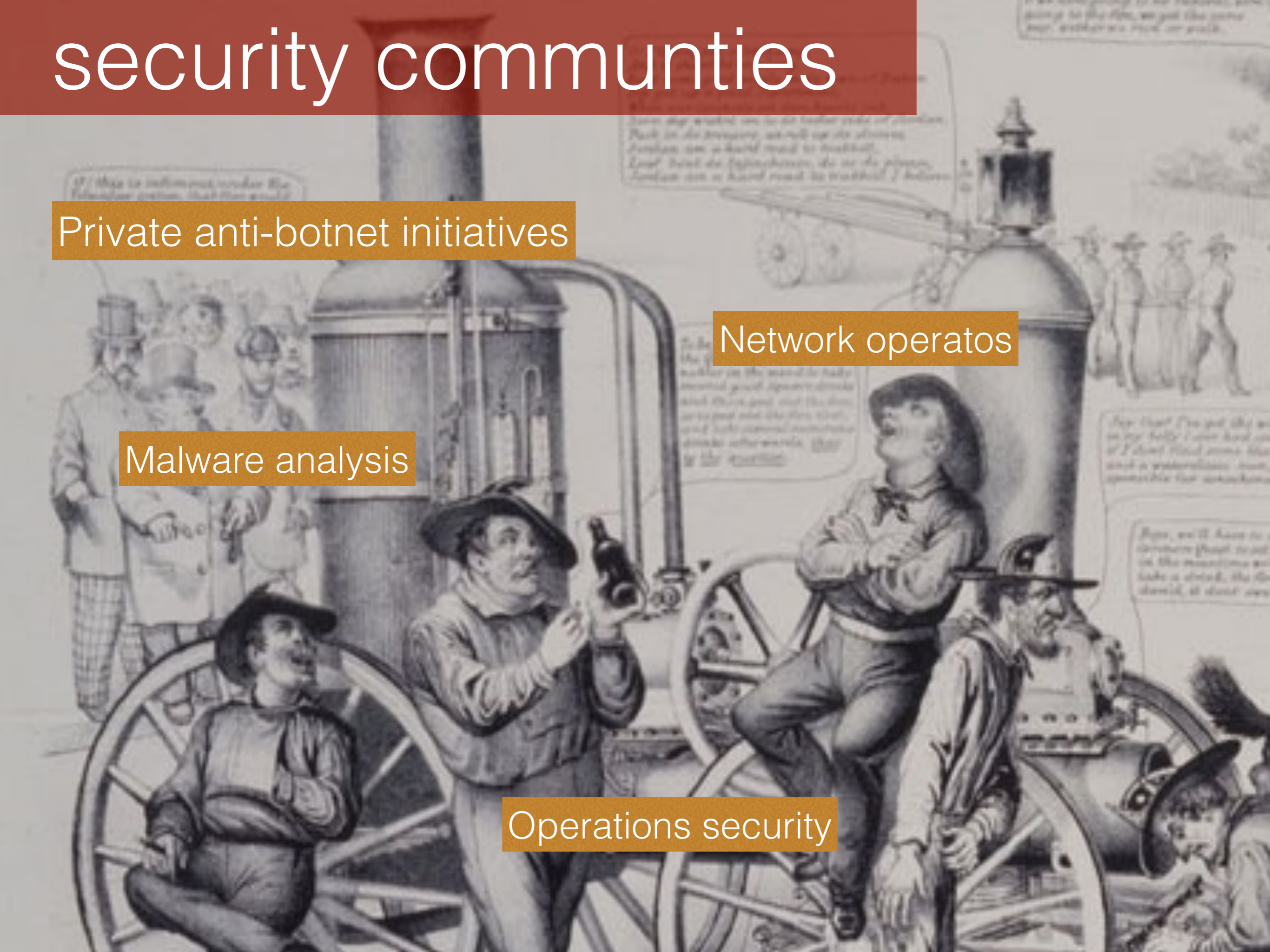open source and
peer production
Andreas schmidt

security communties

Private anti-botnet initiatives

Network operatos

Malware analysis

Operations security

The puzzle

"The digital is the realm of the open: open source, open resources, open doors. Anything that attempts to close this space should be recognized for what it is: the enemy."

Digital Humanities Manifesto

"Loose lips sink ships"

World War II poster claim, USA

VaRIETIES of social production

	Distributiveness	Openness	Socialness
Social production			★
Peer production	★		★
Commons-based peer production	★	★	★
Social crowdsourcing			★

characteristics of social production

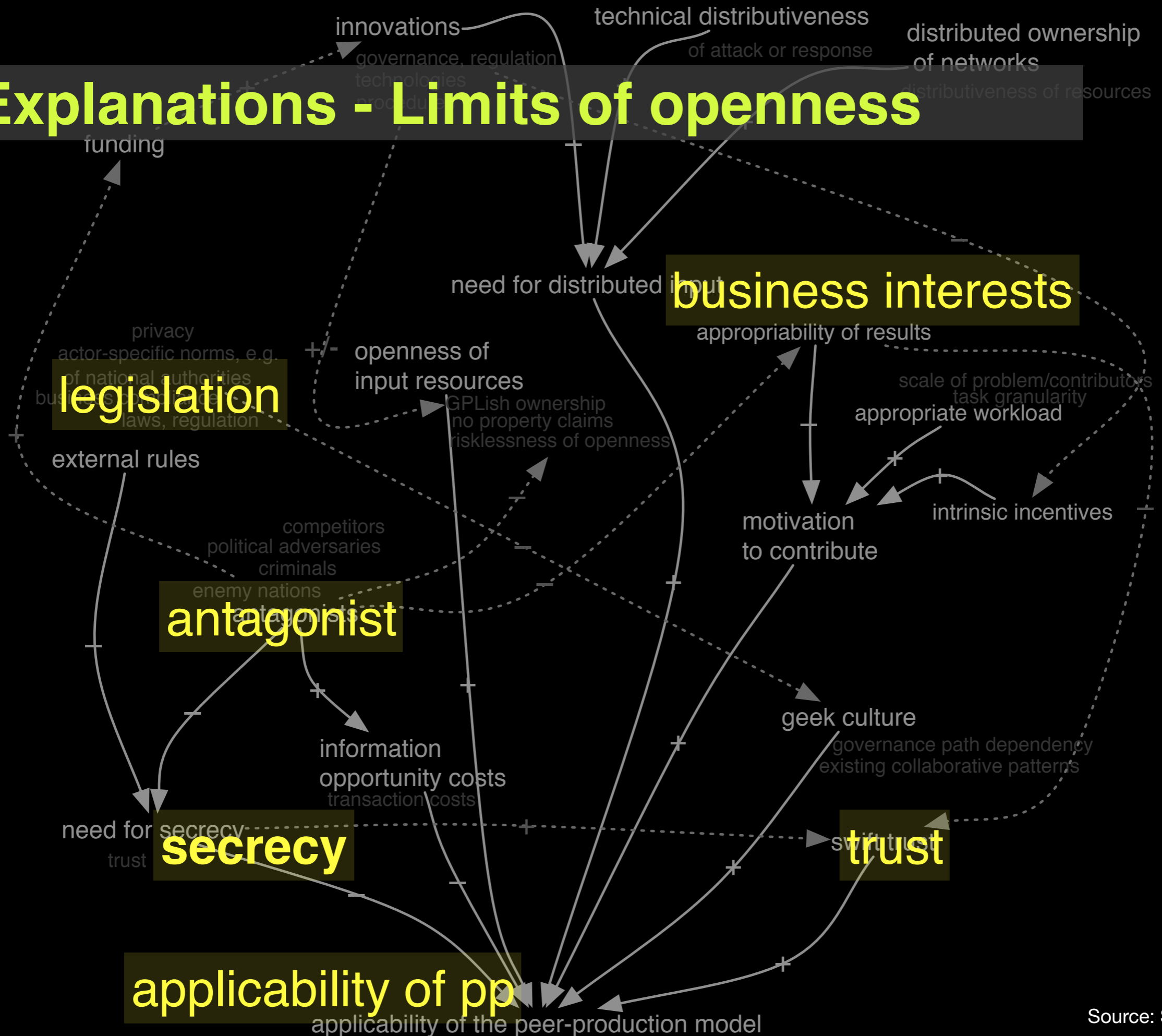|	
Distributiveness	Distributed network-topology of contributors; absence of central hub or decentralised hubs
	Peer governance; hierarchies only ad-hoc or meritocratic
Openness	No or low access restrictions on production platform
	Accessibility of intermediary goods
	Internal transparency about activities and contributions
	Produced goods non-proprietary, accessible, reusable, adaptable outside market/hierarchy-exchange frameworks; forkable
Socialness	Non-hierarchical
	Non-market-based
	Voluntary; intrinsic motivations

Observations - Gated Openness

Distributiveness	Hybrid of decentrality and distributiveness
Openness	Gated openness, in practice and idea; club characteristics
Socialness	Strong elements of socialness

Explanations – Limits of openness

innovations

technical distributiveness

distributed ownership
of networks

of attack or response

governance, regulation
technologies

distributiveness of resources

funding

need for distributed input

business interests

appropriability of results

privacy

actor-specific norms, e.g.
of national authorities

scale of problem/contributors
task granularity

legislation

openness of
input resources

business

appropriate workload

laws, regulation

GPLish ownership
no property claims
risklessness of openness

external rules

competitors
political adversaries
criminals

motivation
to contribute

intrinsic incentives

enemy nations

antagonist

geek culture

governance path dependency
existing collaborative patterns

information
opportunity costs

transaction costs

need for secrecy

swift trust

trust

secrecy

trust

applicability of pp

applicability of the peer-production model

America's Information Edge

Joseph S. Nye, Jr., and William A. Owens

"These capabilities [dominant situational knowledge] point to what might be called an **information umbrella**. Like extended nuclear deterrence, they could form the foundation for a mutually beneficial relationship. The United States would provide situational awareness, particularly regarding military matters of interest to other nations. Other nations, because they could share this information about an event or crisis, would be more inclined to work with the United States…. Just as nuclear dominance was the key to coalition leadership in the old era, information dominance will be the key in the information age." {Nye 1996@27}

on researching communities

A PAID FIRE DEPARTMENT. AS IT IS LIKELY TO BE UNDER THE CONTRACT SYSTEM.

http://www.librarycompany.org/mirrorofacity/section3.htm