TECHNO-SOCIAL INNOVATION IN THE COLLABORATIVE ECONOMY

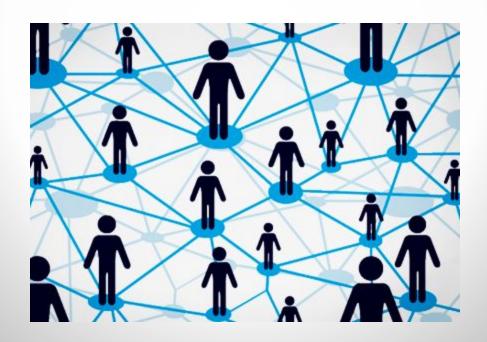
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RESEARCH OBJECT

The role of commons-based peer production in the creation of a collaborative economy.



THE COMMONS

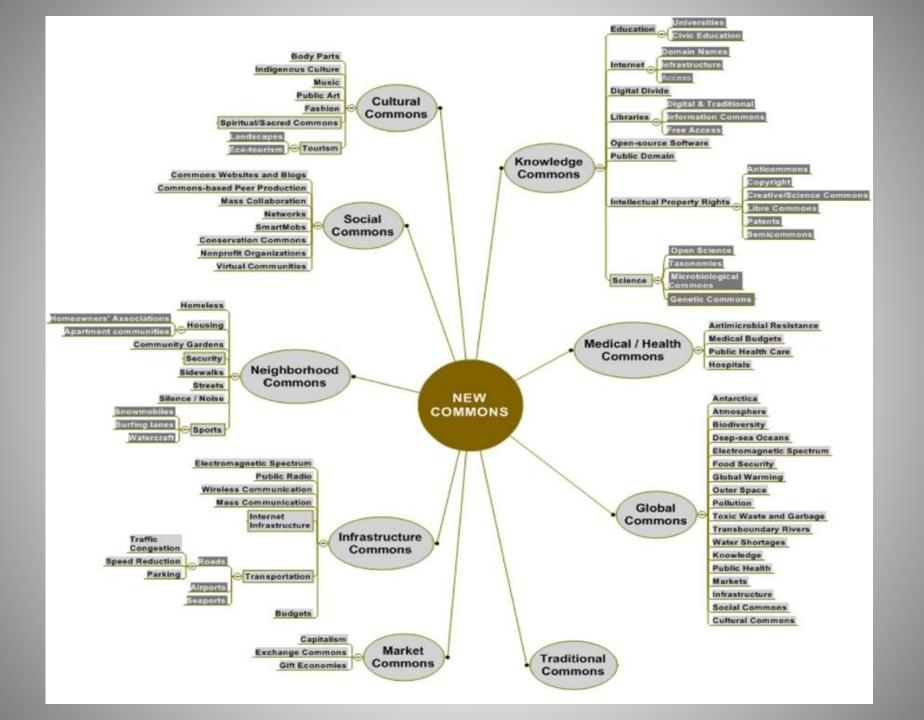
Definition: The commons consist of distributed or **common property** resources/infrastructures (natural resources, technology, knowledge, capital, culture), **self-managed** by user **communities** in accordance with collectively established rules or norms.

Elements:

- common property resource
- community
- self-management

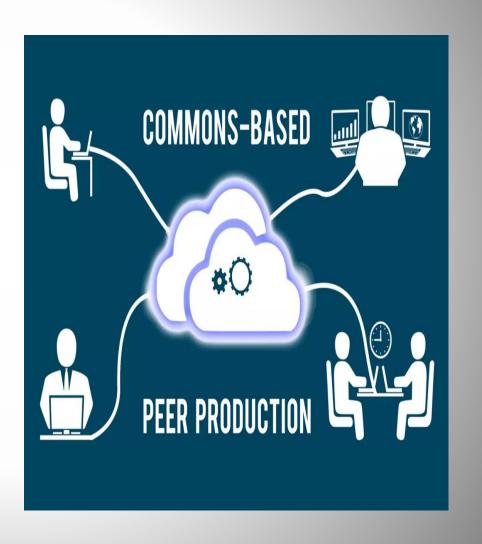
Types:

- local: pastures, forests, irrigation fields, a farm, a building, a park
- global: science, knowledge, information, language, the digital commons, airwayes
- cosmolocal: the digital commons (design, knowledge and software) connecting to local commons via open-source code and hardware

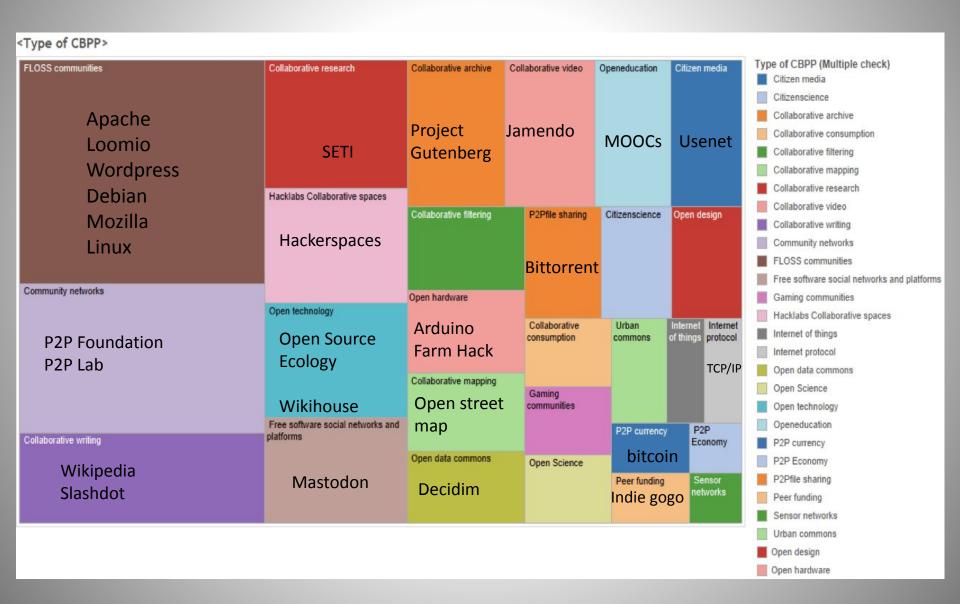


THE FEATURES OF COMMONS-BASED PEER PRODUCTION

- decentralization
- self-governance
- meritocratic participation (do-ocracy)
- equitable distribution of value
- non-monetary motivations monetary motivations
- sharing, openness and transparency
- stigmergy = asynchronous, indirect collaboration/production
- modularity, granularity (small modules)
- peer review



OPEN SOURCE SOFTWARE AND THE DIGITAL COMMONS



DESIGN GLOBAL-MANUFACTURE LOCAL MODEL

Commons-based peer production.

The conjunction of open-source software with desktop manufacturing technologies (such as three-dimensional printing and computer numerical machines).

What is not scarce becomes global (i.e. global commons of knowledge, design, software), and what is scarce (i.e. hardware) stays local.

Global (digital) commons connect to local commons, communities and fablabs/maker-spaces powered by renewable energy systems.

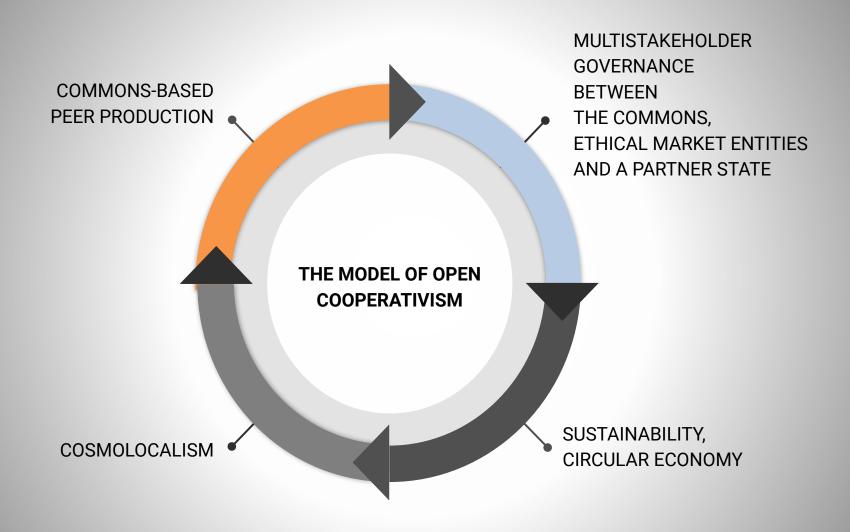
Sustainability and resilience, circular economy, waste management, eco-efficiency, clean energy.

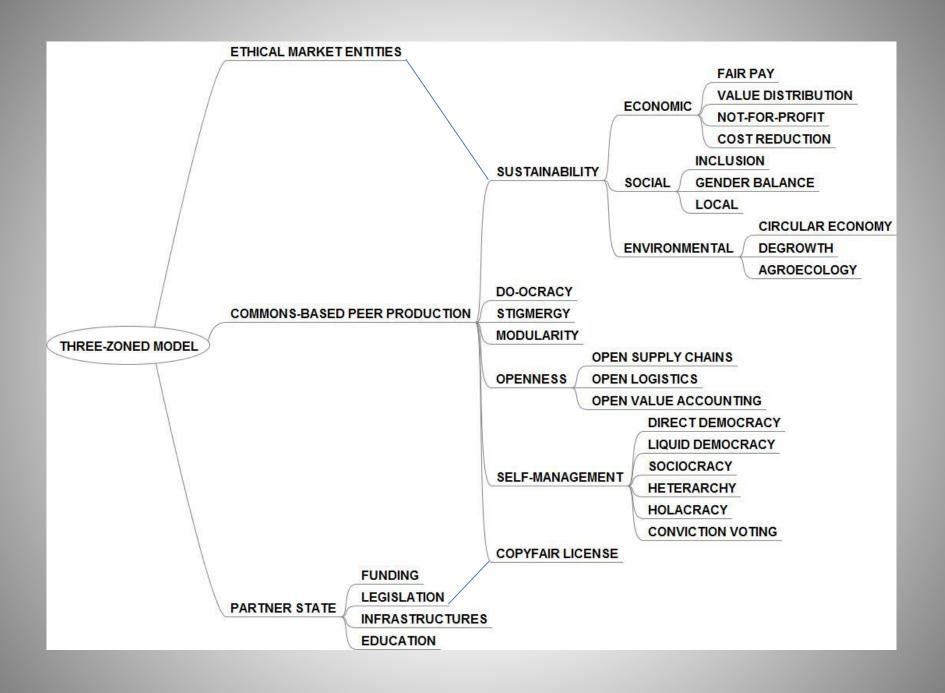
Cases: housing, robotics, biohacking, prosthetics, peer-to-peer farming, Covid-19 masks, etc.



ADVANTAGES OF COSMOLOCALISM VIS-À-VIS EXTRACTIVE CAPITALISM

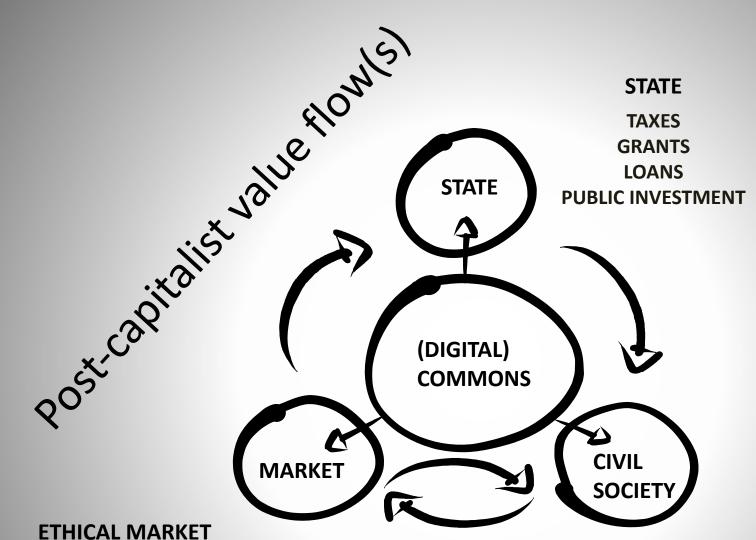
- democratization of the means of production
- equitable distribution of value
- innovation spill-overs from anti-rival network effects
- low-cost efficiency
- improved work quality
- sustainability





THE MODEL OF OPEN COOPERATIVISM IN OPEN-SOURCE SOFTWARE

Productive community	Linux	Mozilla	GNU	Wikipedia	Wordpress
Entrepreneurial coalition	e.g. Linux Professional Institute, Canonical	e.g. Mozilla corporation	e.g. Red Hat, Endless, SUSE	e.g. Wikia company	e.g. Automatic company
For-benefit association	Linux Foundation	Mozilla Foundation	Free Software Foundation	Wikimedia Foundation	Wordpress Foundation



ENTITIES

INVESTMENTS
EXCHANGE VALUE
INCOME

CIVIL SOCIETY

COMMONS USE VALUE
COOPERATIVES
DAOS
CROWDSOURCING

COMMONS-ORIENTED TRANSITION IN THE HEALTH SECTOR

NOW

- health as a private good
- oligopolies (corporations)
- outsourcing, networking, mergers, acquisitions
- monopsonies (states, insurance companies)
- intellectual property rights
- information asymmetries
- risks, market failure
- financialisation
- shareholder profit maximization
- lobbies
- expensive medicine

FUTURE

- health as a public good
- open multi-stakeholder cosmolocal cooperatives (researchers, patients, investors, state-funding)
- open circular supply chains (ex. raw materials, manufacturing of insulin pumps, maintenance, services, etc.)
- copyfair licenses for software and hardware
- open logistics
- open science and R&D, open access
- open data
- open sustainability standards
- low production and transaction costs
- affordable health

THANK YOU

https://collabecon.gr/

Vangelis Papadimitropoulos, *The Commons, Economic Alternatives in the Digital Age,* Westminster University Press, 2020

Vangelis Papadimitropoulos, *Blockchain and the Commons*, Routledge Editions, 2022