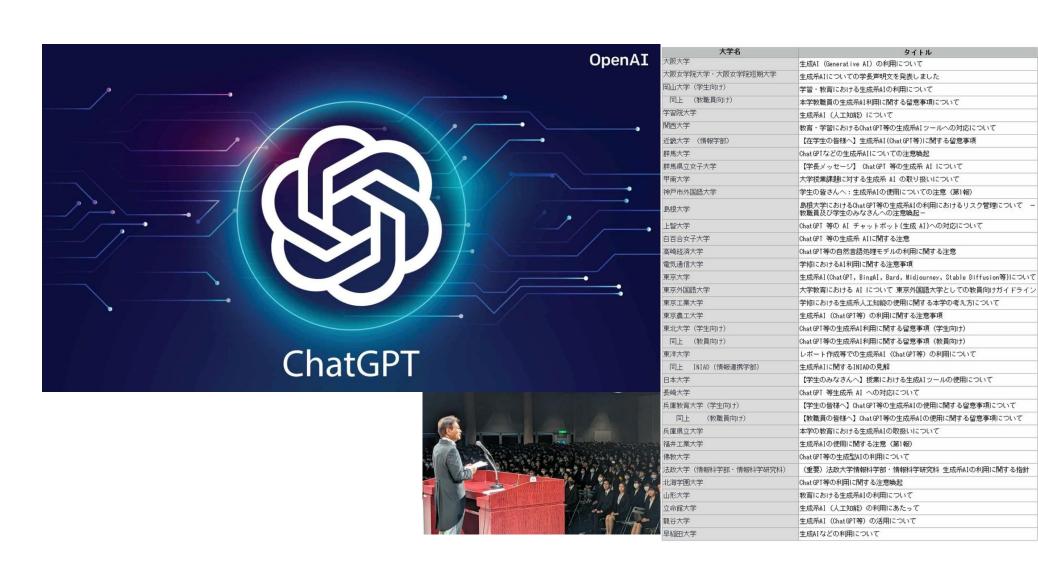
Building Inclusive Smart Cities

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Distinguished Professor
Kyoto University

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University under Fire at Generative Al



Social Benchmarking

• The question is whether generative AI (G-AI) can be a co-author of an academic paper. If the problem is properly posed, the standard model is readily available. How much time and energy do many researchers and practitioners around the world spend trying to reconstruct the standard model? But G-AI can provide it instantly and for free. This is a wonderful revolution and also means that the value of the standard model has been reduced to zero. Research and business will now depend on how much deviation from the standard model provided by G-Al can be created as a baseline. G-Al cannot be a co-author of creativity. G-Al cannot be a co-author of creativity, but it does provide a benchmark against which creativity can be evaluated. The traditional classroom teaching of lectures and exercises will have to be radically reformed. The value of face-to-face lectures with excellent instructors to nurture creativity in tandem seems to be increasing in value more than ever before.

Medieval University: Principal-Agent Model

Alma mater studiorum (motherhood for flourished learning professionals)



Universitas societas magistrorum discipulorumque

(partnering institutes of teachers and students: principal-agent model)

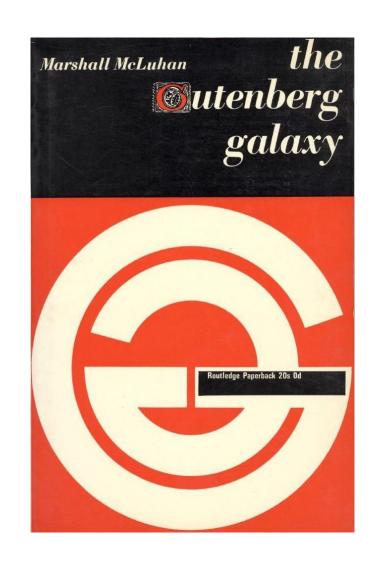




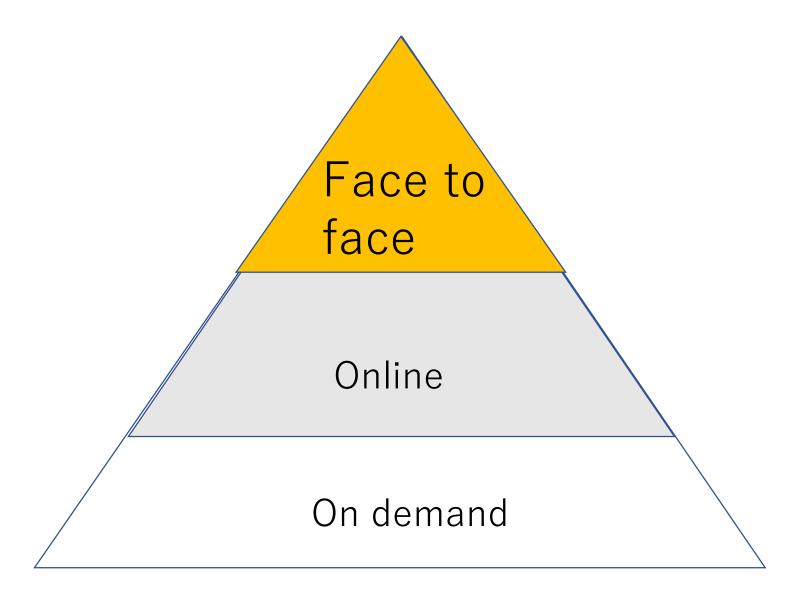
University Evolution (19century)

- Books and papers: Gutenberg's galaxy
- Emergence of ivory towers

 (Academic Universities: Berlin,
 John Hopkins, Harvard)
- From Principal-agent model to Teacher/Student Model (Possibility of self-study)

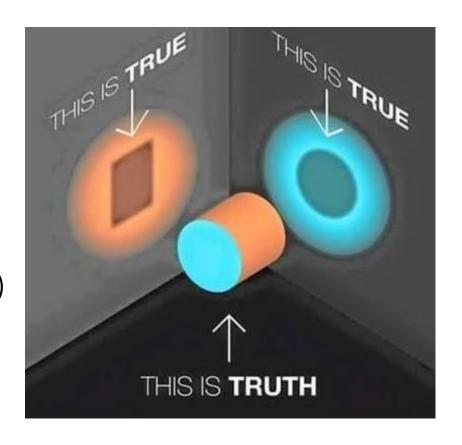


The Pyramid of Communication Modes



New University model

- Standardization of knowledge and information by AI
- Valuation of creativity and originality
- Diversity of perspectives (locality)
- Importance of Social Capital
- Revival of Professional Education



The Logic of Urban Capitalism

Excessive diversity and instability on the African continent. Different tribes have different living techniques. The ecology of the African continent is changing rapidly. Tribes that rely on specific life skills are forced to move through space in response to ecological changes. There is a fundamental cause for the establishment of spatial mobility and exclusive tribalism.

Tribal societies with mandated spatial mobility have no incentive to invest fixed capital in space. Africa's unique ecology, inseparable spatial mobility of Africans, and exclusive tribalism have hindered investment in infrastructure and accumulation of urban capital over a long history.

The Paradox of Affluence

Simultaneous consumption in the home (any leisure activity consumes time)



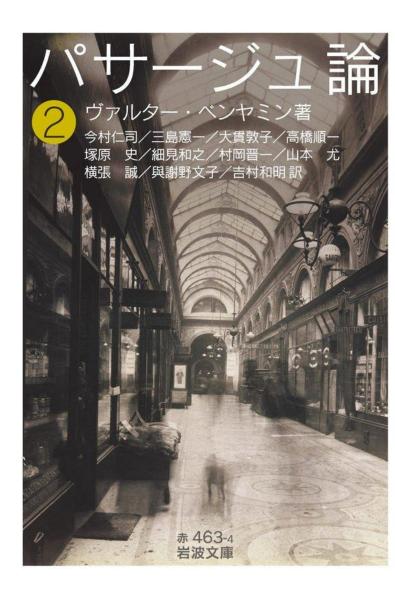


Consumption is not a momentary activity unrelated to time. A round of golf or a game of tennis or even a cup of coffee takes time to consume. People try to overcome time constraints by consuming simultaneously. We bring more consumer durables into the home: personal computers, CD players, TVsPCs, CD players, TVs, furniture • • • • . In addition, many goods are consumed at the same time. Cognac, cigars, food... How busy is affluence! But what a busy life!

Public vs. Private Space

- Private space protected by ownership and use rights
- Private use is excluded except for private space Emergence of public spaces (passages) for unspecified use

The factor is the low simultaneous possibilities when out of the home compared to the simultaneous possibilities when in the home. Simultaneous consumption in the home is thoroughly customized according to family preferences. Simultaneous consumption when going out is magnified by the accumulation of public goods such as landscapes, urban activities, etc. It is magnified by the accumulation of public goods. However, how poorly public spaces compare to the fulfillment in the home.

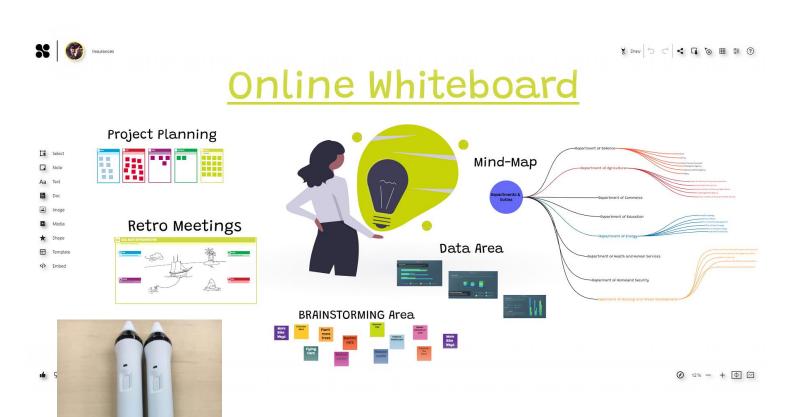


Simultaneous Consumption in Public Space





Online Whiteboard Education





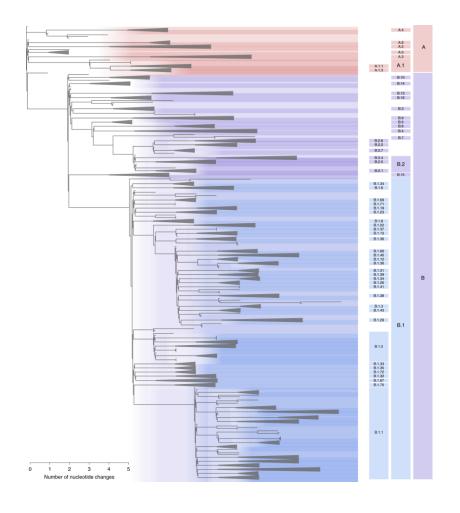
Hybrid Society: Anyone Can Be a Banksy

Virtual space as a template, accessible to all. To a metaverse with various graffiti on the city's digital twin, Invite your friends. Customize your urban space. Kyoto A, Kyoto B, .. The logic of urban capital is founded on the ownership of space. Virtual space is free from ownership. Customization of urban space



Toward Democratic Platform

- Virtual space management platform
- Virtual space variant management
- Original certification
- Virtual space pattern recognition



Hybrid City

• A smart society in which virtual and real spaces are hybridized; a theory that explains the interaction between the two spaces is lacking. This problem ultimately comes down to the basic issue of the relationship between oneself in the virtual world and oneself in the real world.



CA (Hybrid Mind-Body Issues)

Humans now have multiple bodies in virtual space. CA's body can do more than its own physical ability.

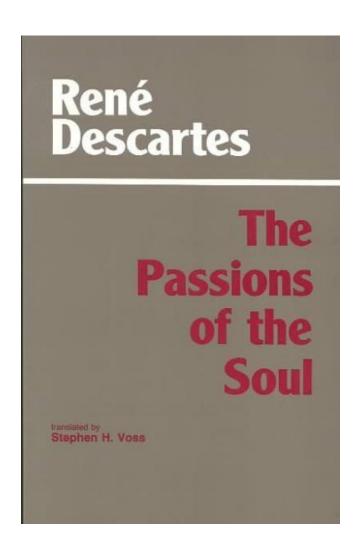
Level 1: A body that draws out your abilities and potential

Level 2: A body that can parallelize itself and perform different actions

Level 3: A body that can take in the skills of others and surpass one's own abilities

Hybrid mind-body problem

"In what kind of mechanism is the self reconfigured?"
"Rights and Responsibilities for Actions Inflicted by CA"
"Can we share each other's experiences and skills while guaranteeing the independence of people?"



Hybrid Mind-body Problem

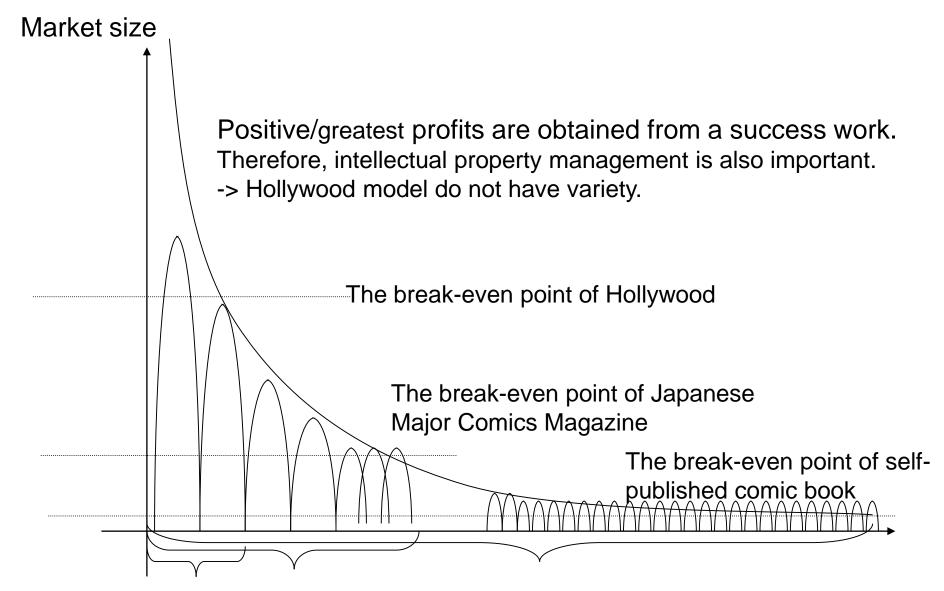
 Human behavior in real space is constrained by physical conditions. Ultimately, it is the individual in the real space who collects and controls the information on CA's behavior in the virtual space. Individuals in real space are bound by time constraints. What supports the flexibility of action in real space is the capital and various infrastructures in real urban space. Of course, the capital accumulated in the real city space can become the infrastructure of the Metaverse space as a template for the virtual space. However, due to the existence of physical constraints in real space, the degree of freedom of human behavior in the hybrid world is secured by capital formation in real space.

Traditional platform

- two-side matching (network externality)
- strong path dependency
- standardized commodities (time and place)
- lack of platform of platforms (Line)



Advanced long tail contents markets



Example: Cook-one's-own-food market

• Producer=consumer complex

- Comiket (self-published comic book fair)
- Comiket 76, 2009, 560,000 attendees
 The sales of a self-published comic book are over 10 billion yen(100 millions euros).

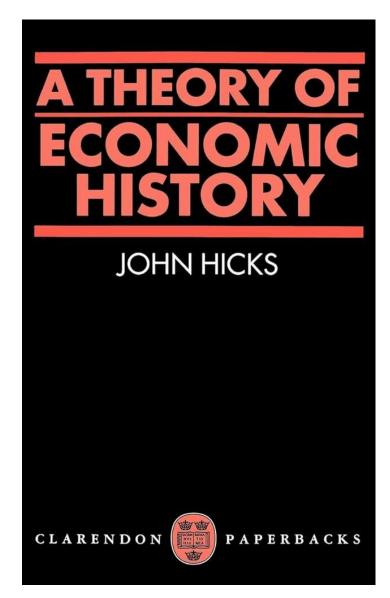


Smart city

- A milieu of creative ideas (Science, arts, entertainment)
- Uncertainty and instability (synergy between talents)
- Smart technologies (AI, GX, DX, and transport technologies
- Tolerance (Emergence of creative stars, Copies of contents, Creative insurance)

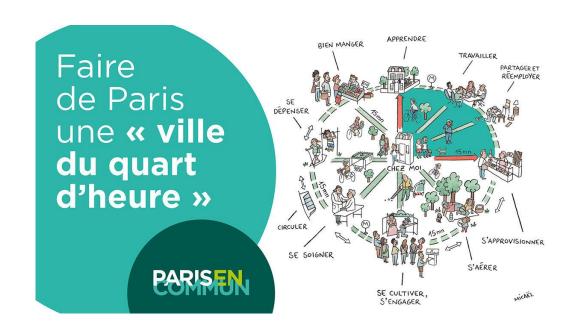
A Theory of Economic History by John Hicks

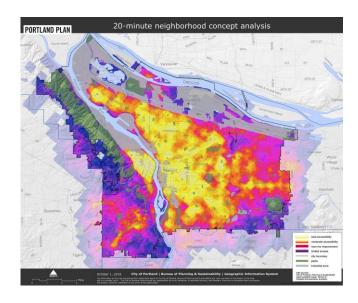
 The great mercantile expansion in the Mediterranean were associated with a system of cities and their political fragmentation. The success of capitalism depends not so much upon a particular set of institutions as on its ability to maintain an environment that encourage open experimentation, by preserving the freedom to form new institutions and letting existing institutions be constantly replaced by those that are more successful.



X-minutes cities vs sorting cities

The era of population onus





Capability

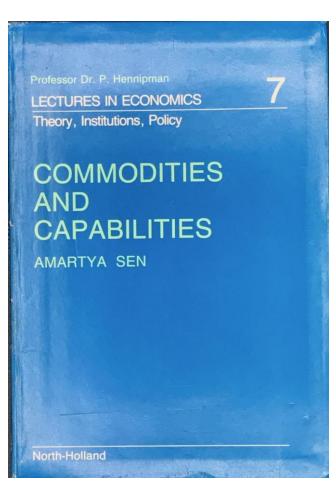
well-being is a matter of what people

can do and be.

What can one do in a city? For example, a single father with a handicapped child and an able-bodied young man. Even if they have the same automobile, there is an overwhelming difference in the kind of life they can lead with it. A major paradigm shift to rethink urban infrastructure on a life-size scale.

We want to be an urban space where people can carry out various ways of life with the support of advanced technology. This is the philosophy of inclusive smart city.

Matching people's needs with urban services. We need to create an urban organizational platform that will make this happen.



Democratic pluralism (territorial space vs. membership space)

Collective right to respect for community of origin (the right to root

 Individual right to opportunities to utilize fully one's own abilities

(the right to options)

Toward Inclusive Smart Cities (cook-one's-own-food economy)

- Creation & Reputation (C&R)
 - The new concept replaced with R&D
- In the new creative society, the whole quality is enhanced by very various participants creating contents and criticizing(Reputation) with each other.

Learning through interaction