

Narratives of Change

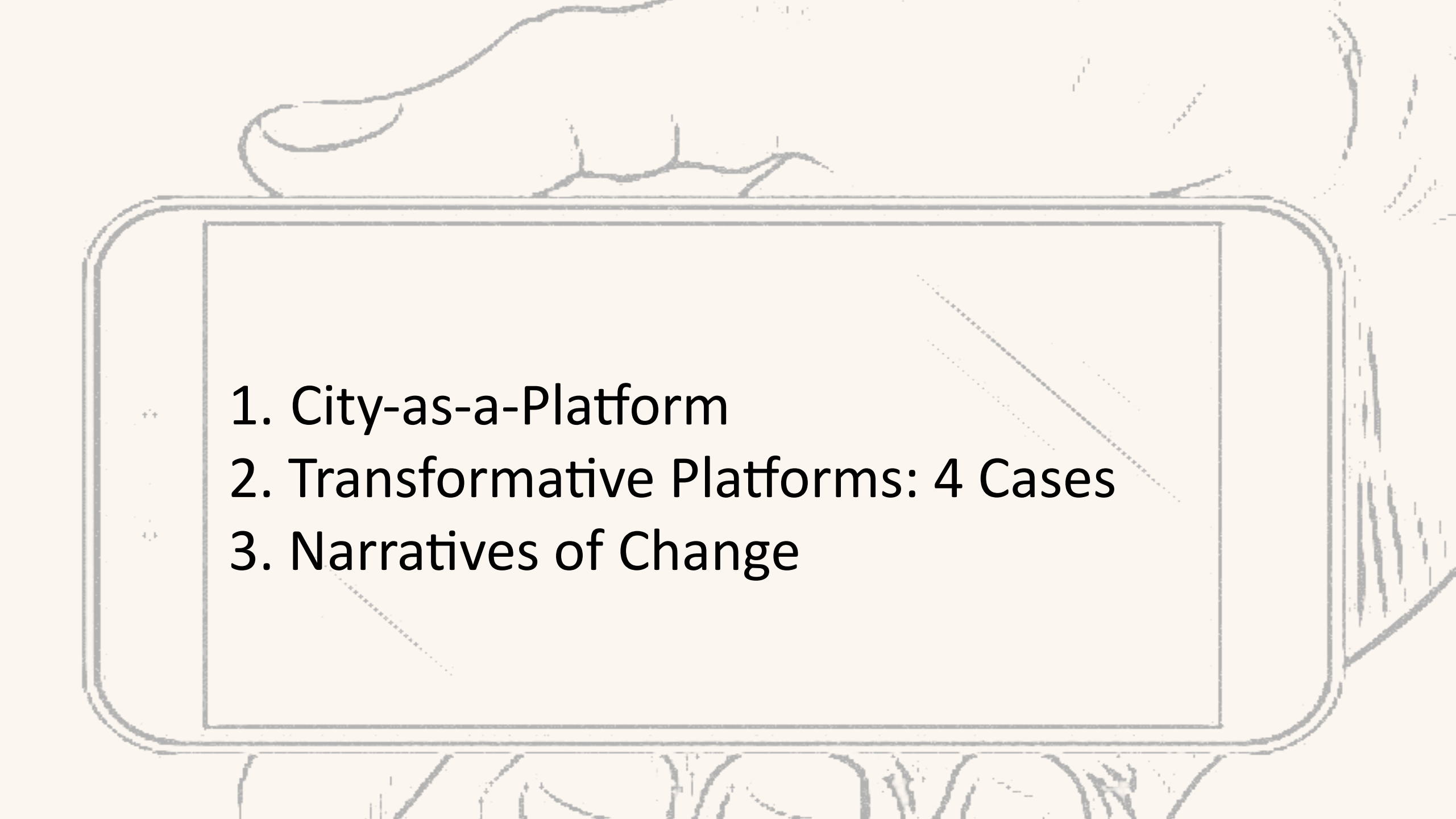
Ian Banerjee



**Transformative power of social
and digital networks**

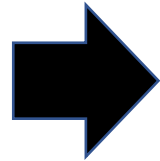


Leaving no one behind
EZA Tagung, Rathaus
21. Oktober 2022

- 
- A hand is shown holding a smartphone. The screen of the phone displays a list of three items. The background of the slide is a light blue color with a faint, sketchy pattern of lines and dots.
1. City-as-a-Platform
 2. Transformative Platforms: 4 Cases
 3. Narratives of Change

Key question

How to deploy
digital platforms
for inclusive
development?

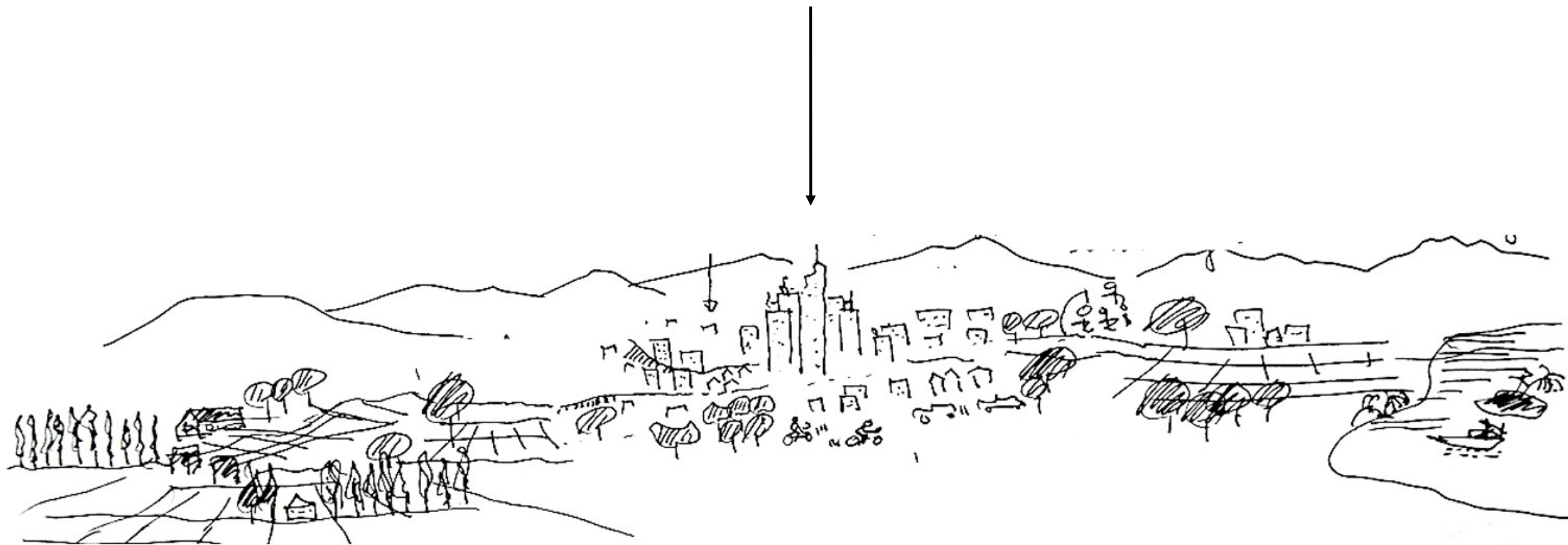


...how digital technology is blurring
differences between North & South.

1

The Platform Revolution

The City



Çatal Hüyük: 7500 BCE
2500 Inhabitants

9 000 years

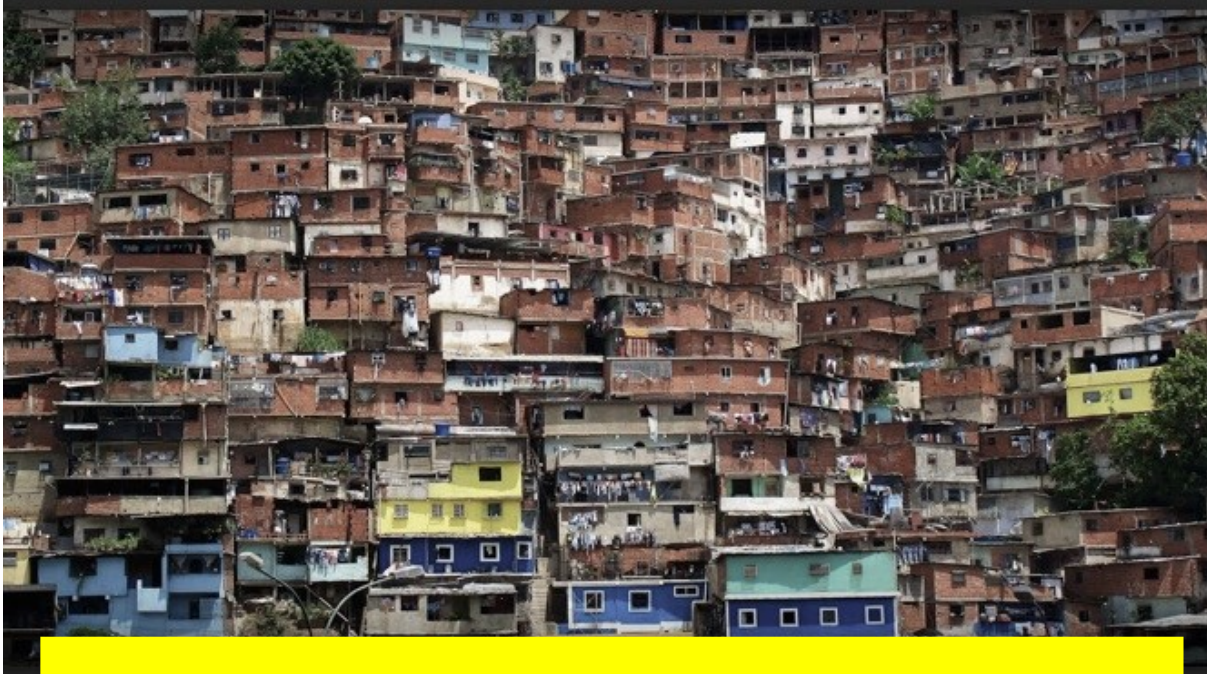
Tokyo: 2022 AD
37 million inhabitants





Spectacular forms ...





...growth has been uneven ...



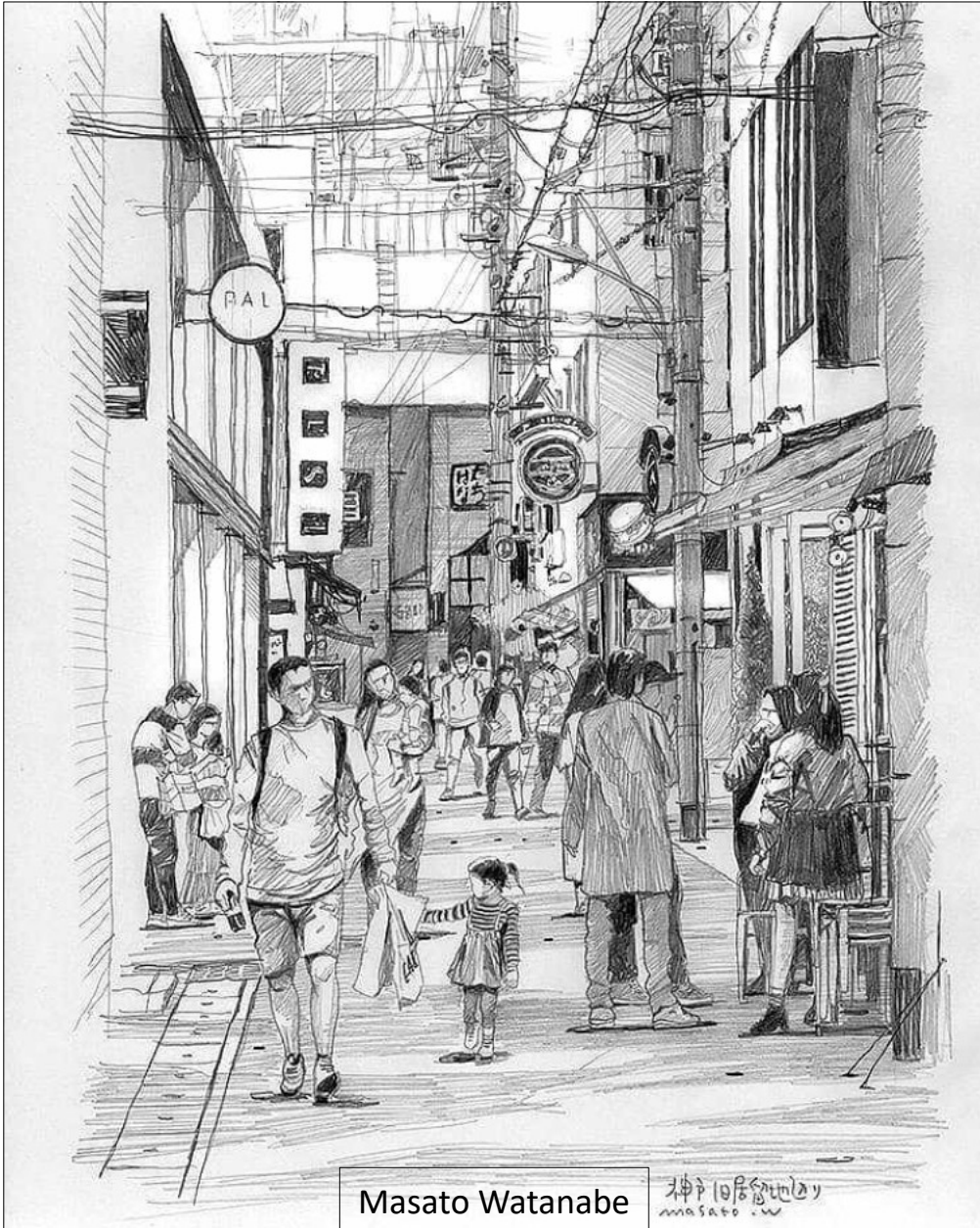
Informal City

80 %

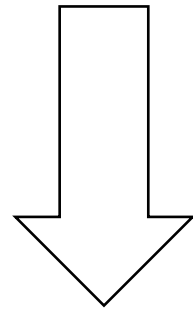
Formal City

20 %

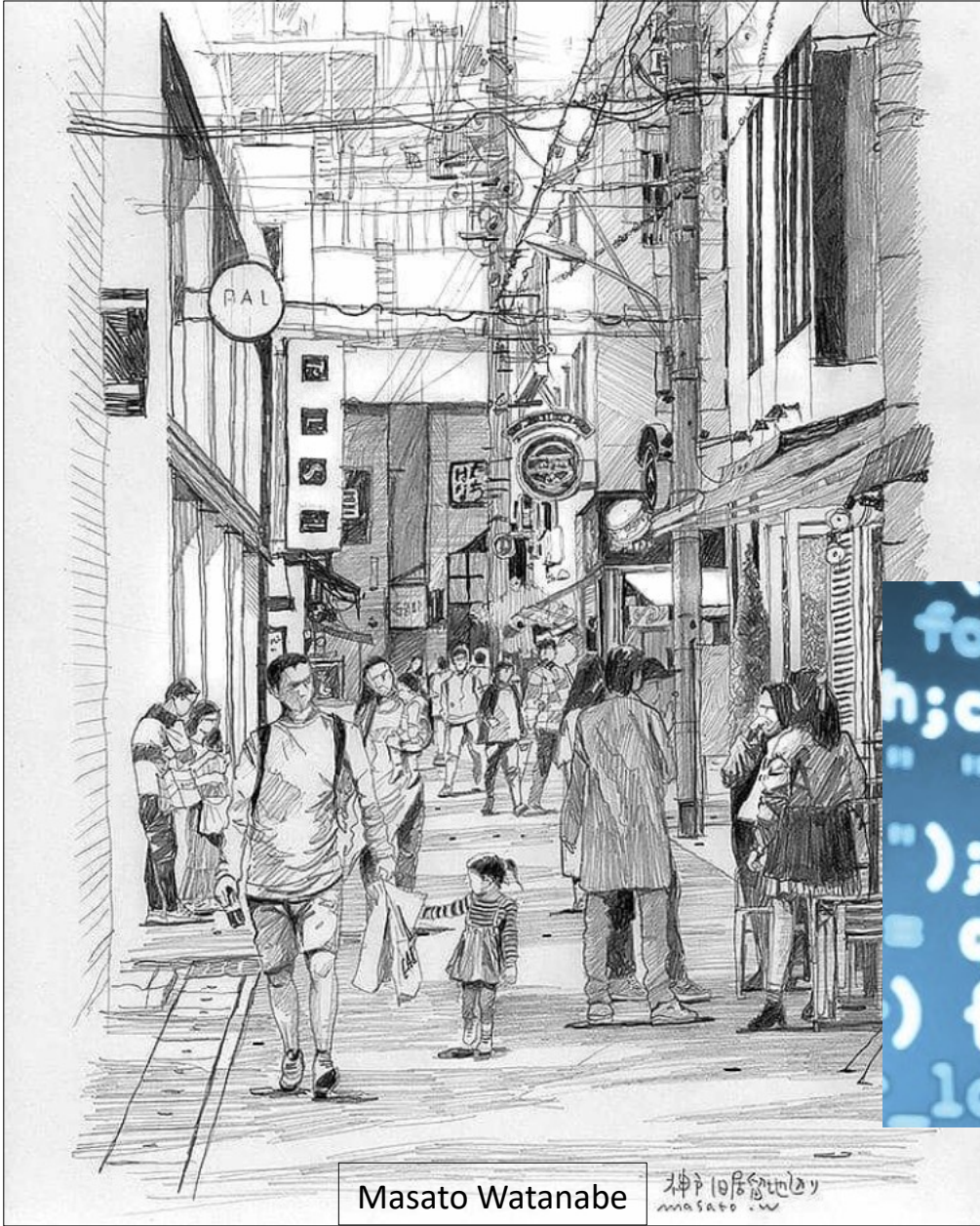
Source: *Radical Cities: Across Latin America in Search of a New Architecture* (Justin McGuirk, 2014)



...but...throughout history
cities had two things in common:



- Humans: sole actors
- Humans: decision makers



Masato Watanabe 神谷 隆之 masato.w

First time in history –
*Non-humans entities
are making decisions*



Algorithms & AI

New Epoch

Everything is changing....

Digitalisation

Algorithms

IoT

CODE_SPACES

Cloud Computing

3D Printing

Artificial Intelligence

E-Health

Transhumanism

E-Government

Big Data

Autonomous Vehicles

Inorganic Life

Industry 4.0

Maschine Learning

NBIC Covergence

Robots

Deep Learning

Digital Platforms

Connectivity

Automation

Blockchains



AVENUE 21 Automated and Connected Mobility and the City

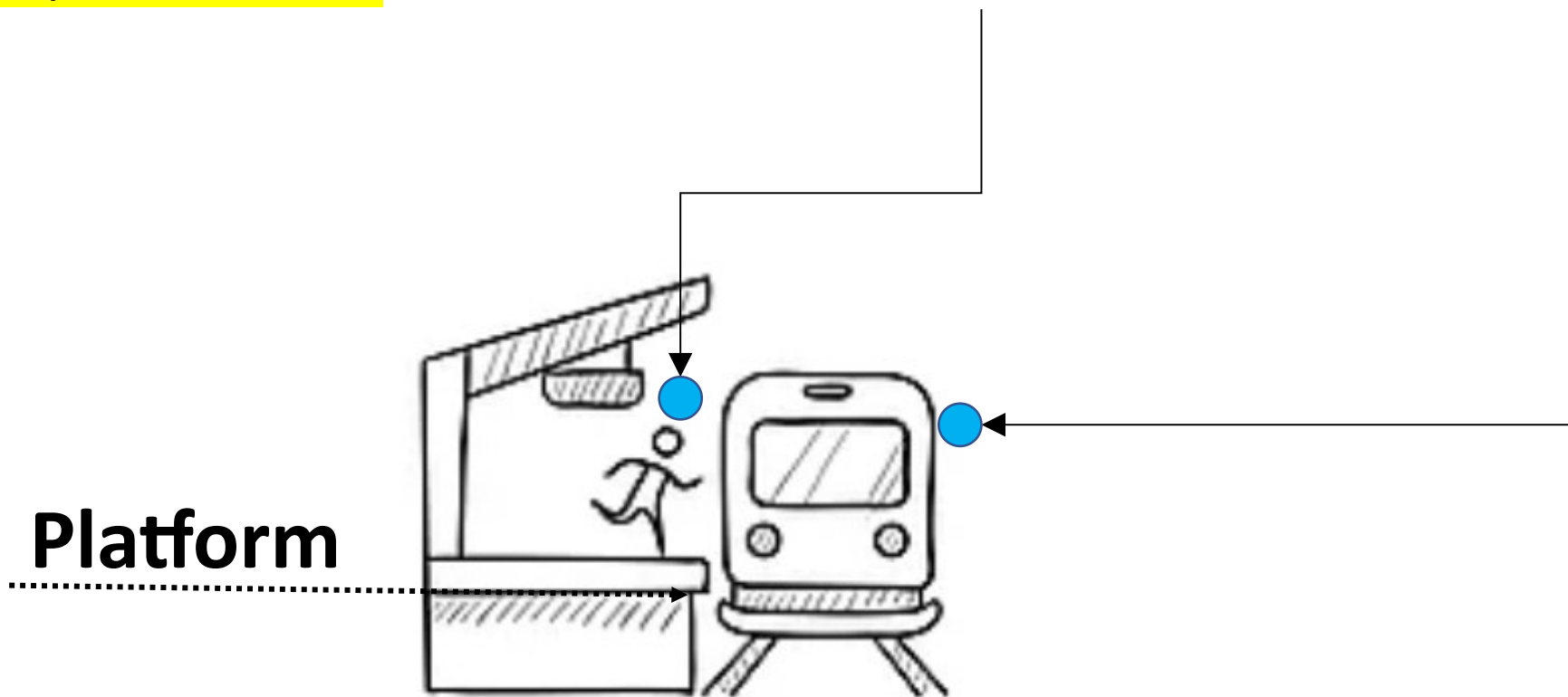
Project at TU Wien (Daimler Benz Stiftung)

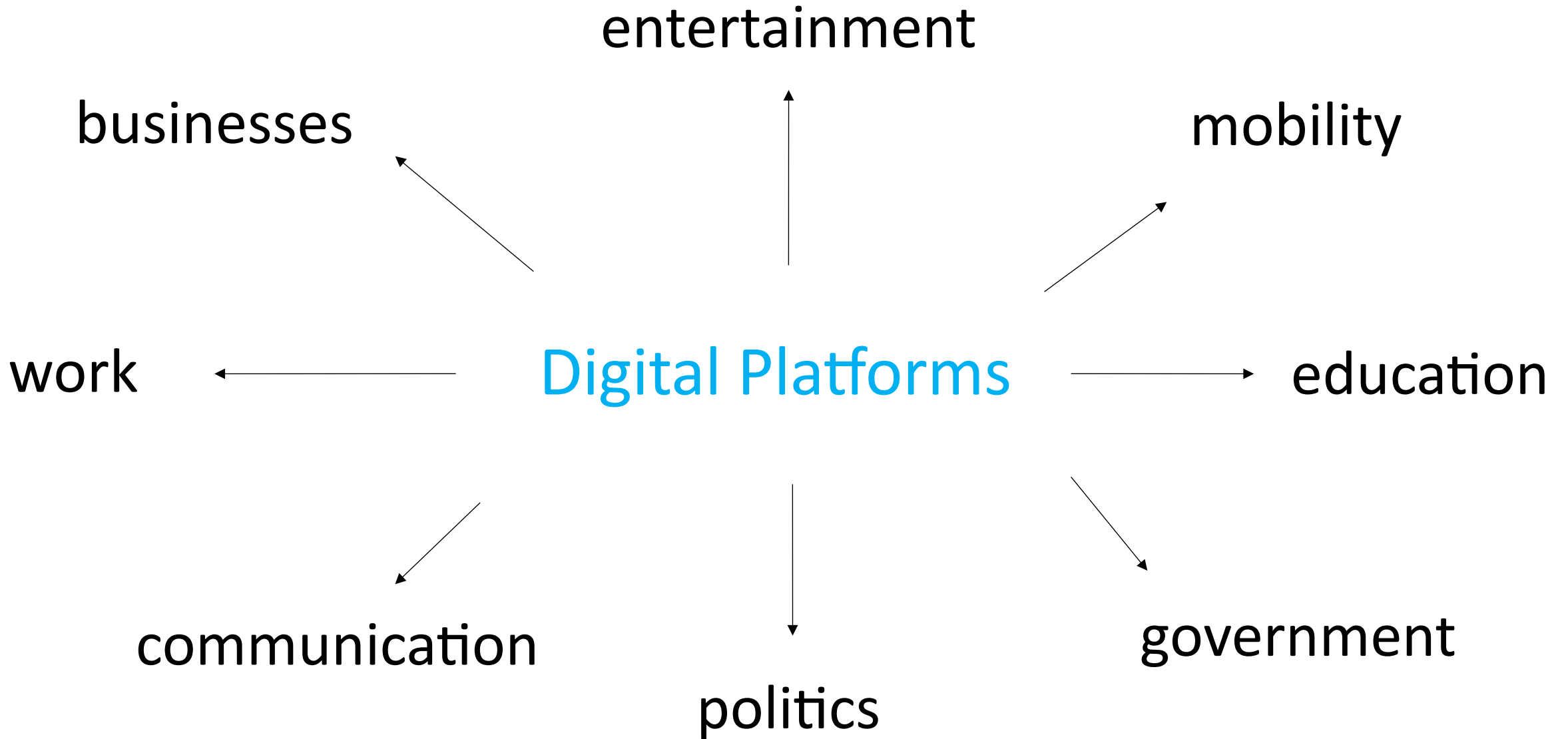


Main driver: **Digital Platforms**

What is a platform?

Connecting people and resources





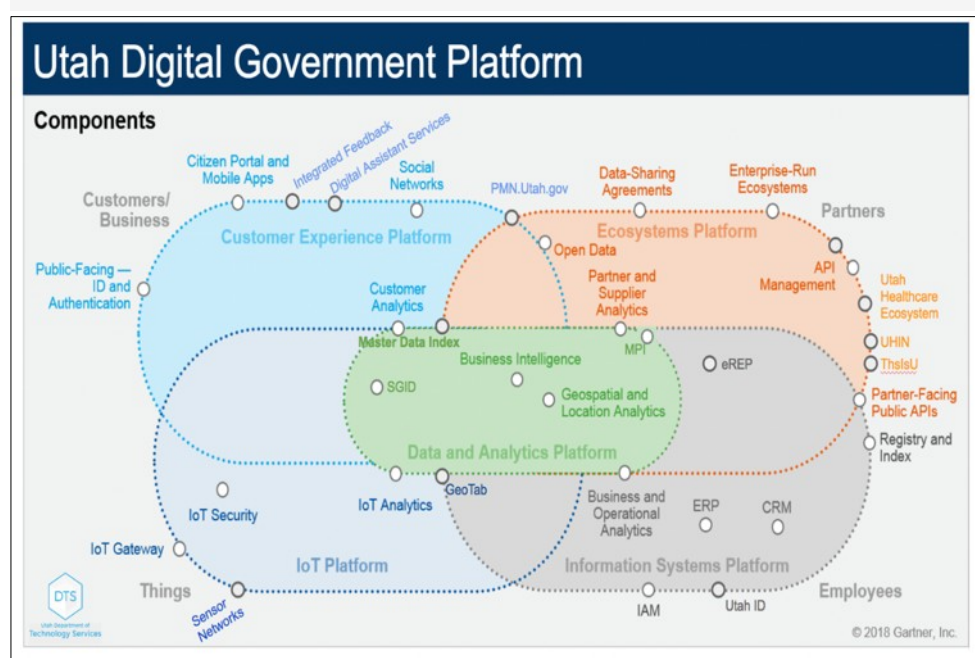
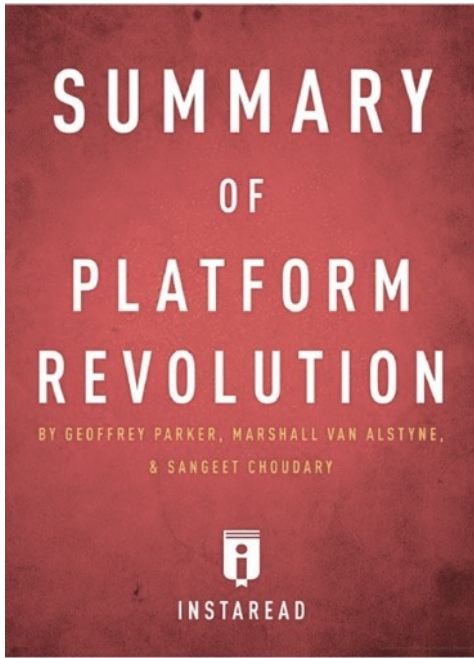
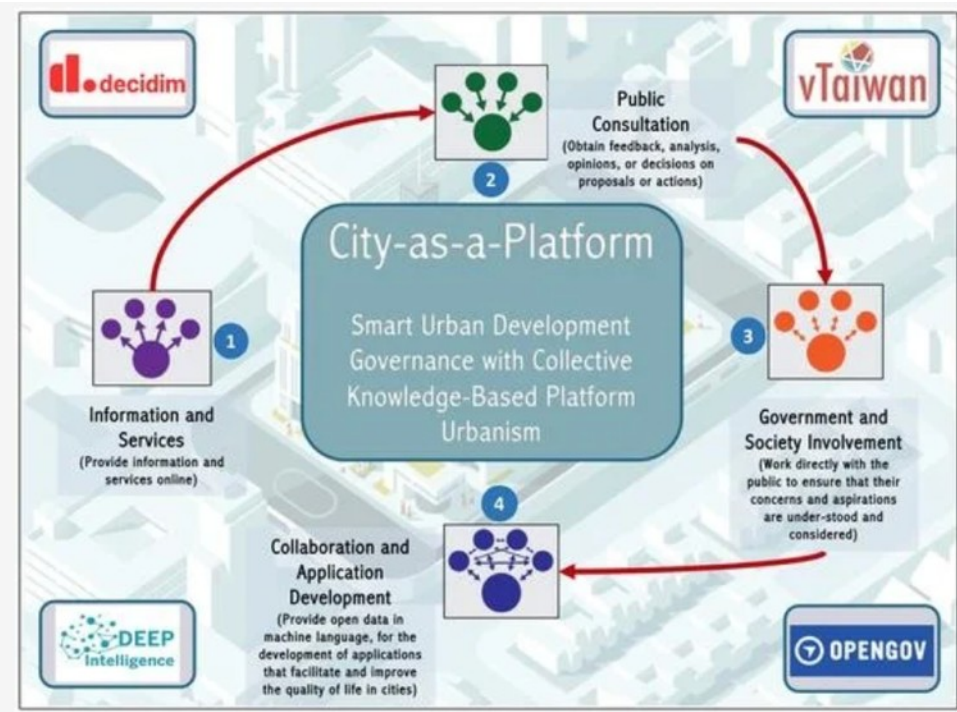
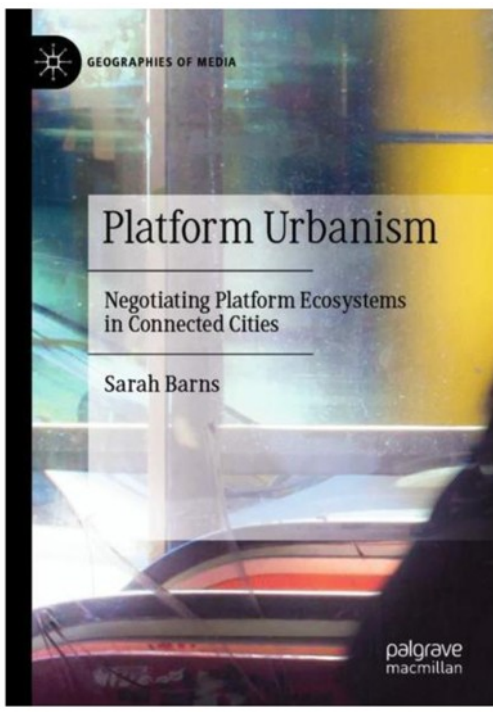
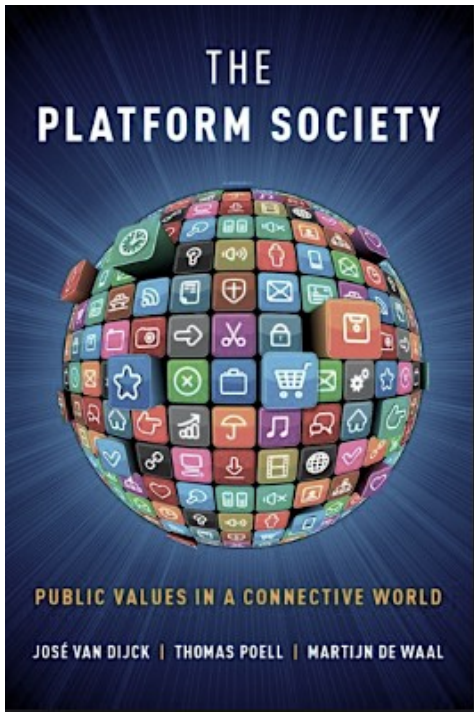


8.93 million apps

(Forbes 2020)

204 billion downloads

(Clement 2020)



“City-as-a-Platform”



Explaining “City-as-a-Platform”



“Data Pump”

(AVENEUE 21, Banerjee 2021)

Ecosystem of Digital Platforms

Connecting people, machines and resources

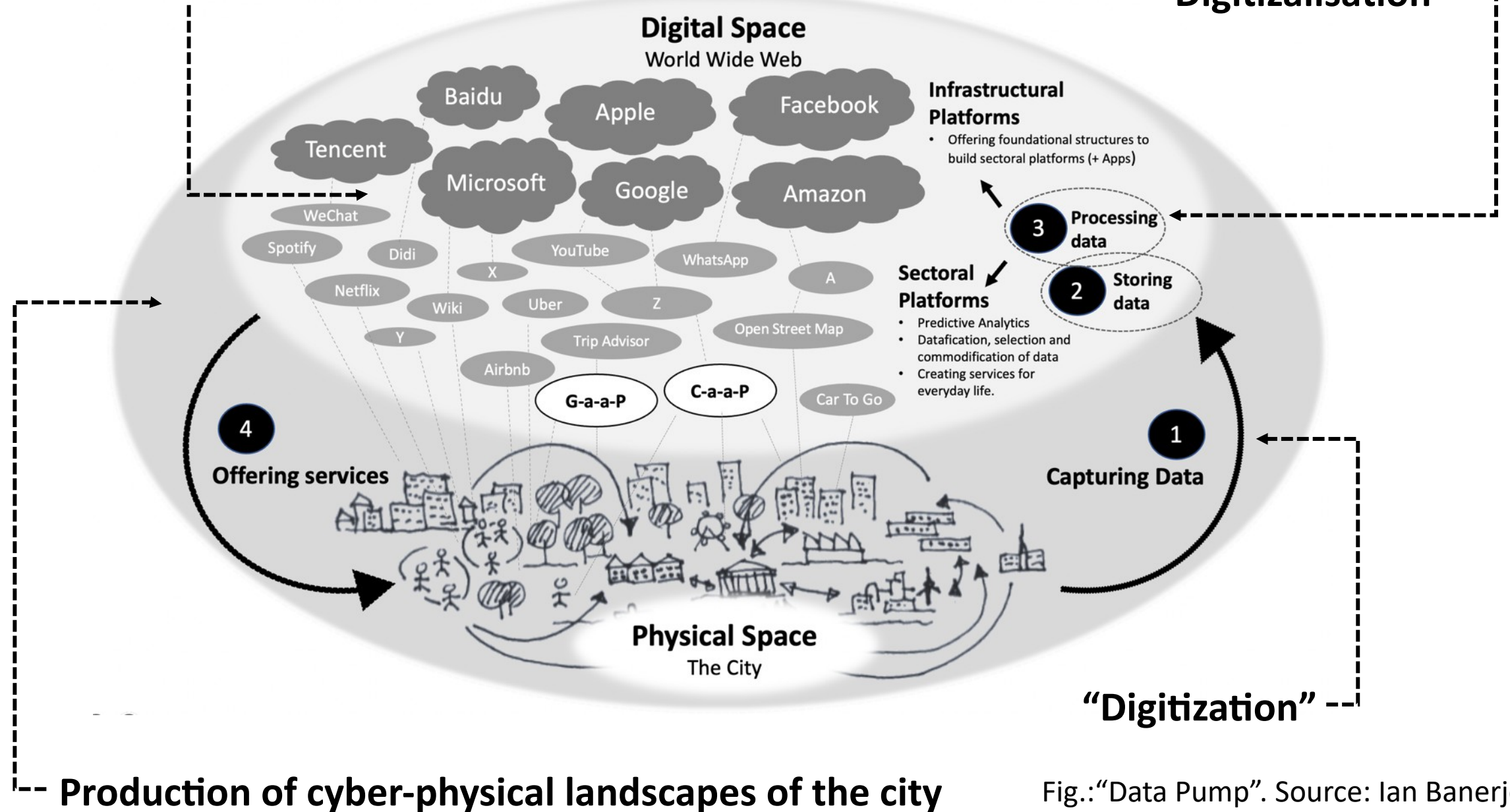


Fig.:“Data Pump”. Source: Ian Banerjee

Digital platforms are the
new infrastructural foundations of cities.

The Problem

It's a commercial project !

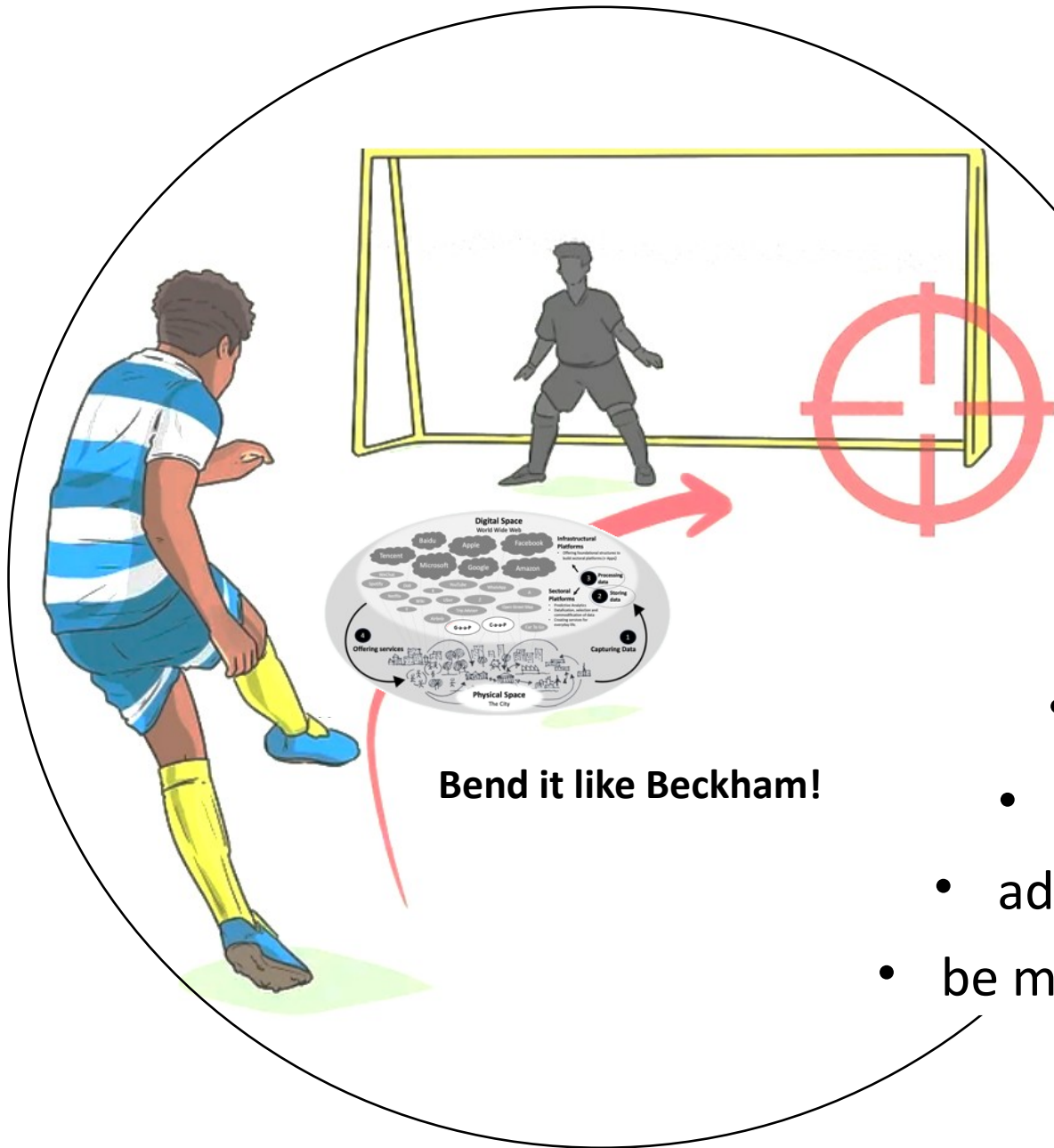


“The Big Five”

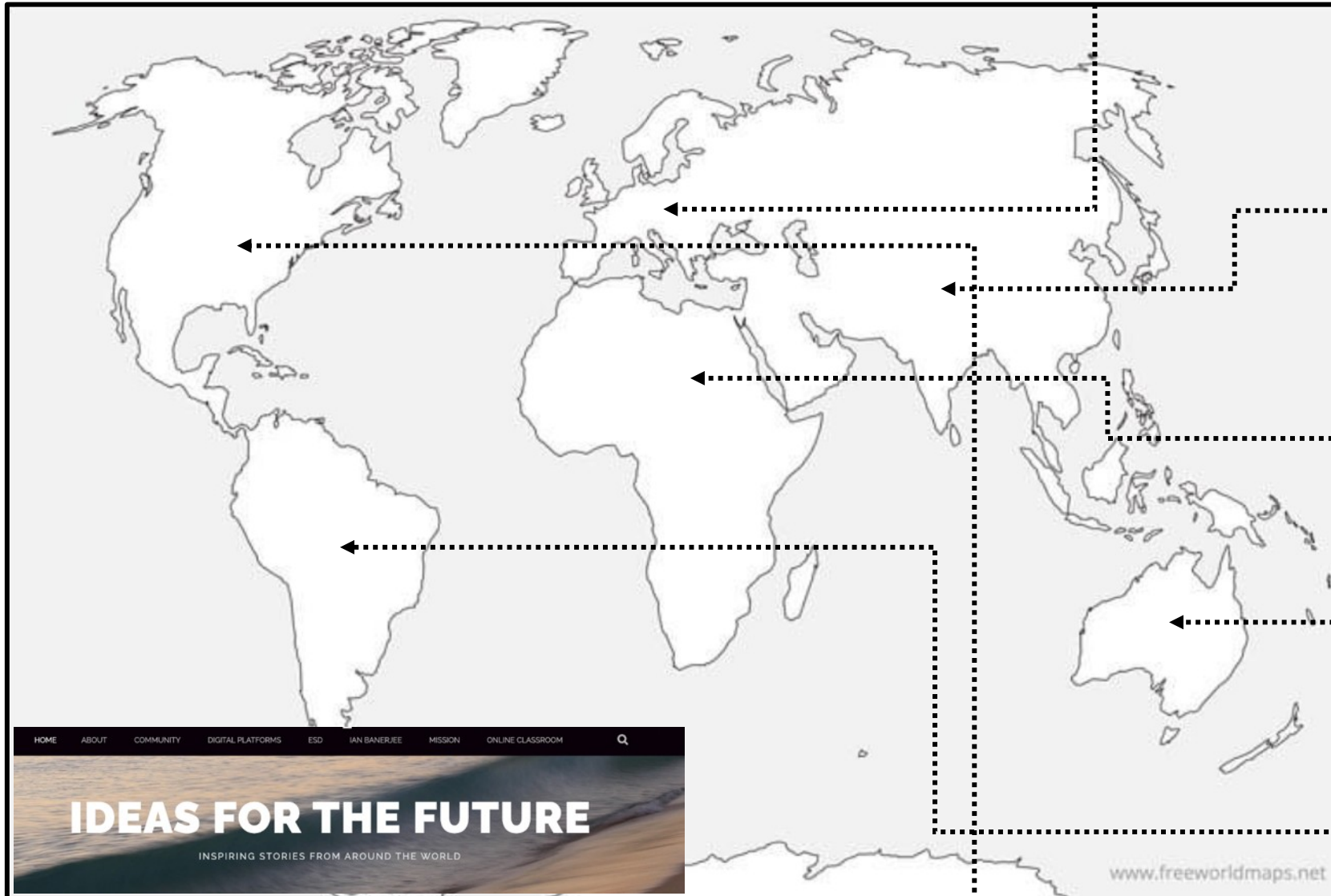
Is there a way out?

“Transformative Platforms”

- address real problems ?
- more equitable and locally specific ?
- address environmental issues ?
- be more participatory ?



My new online classroom ...



Europe

Finland: City-as-a-Platform
Participatory Innovation platforms
e-Estonia
Digital Government
Digital LITuania
Hub for Innovation

Asia

Malaysia
Think City, Georgetown
Greece
Open Education Resources

Africa

Ghana:
Ghana Education Project
Ruanda
Centre for Fourth Industrial Revolution
Kenya
iHub, Nairobi
Ethiopia
Digital Ethiopia 2025

South America

Mexico
Visor Urbano
Brazil

2

Transformative Platforms: 4 Cases

1

Guadalajara, Mexico



Visor Urbano

Tackling corruption with an open sourced digital platform

Guadalajara, Mexico

GovTech

Challenge

- construction sector is one of the main sites of corruption.

Aim

- to enable corruption-free development



Jalisco Urban Viewer

Here you will be able to know the applicable requirements to open your business and process your license completely online.

[Know the requirements](#)

Bloomberg Philanthropies

Jalisco

What can you check on the Visor Urbano platform?

Beneficios para la ciudad

- Una ciudad organizada, con trámites del desarrollo urbano eficientes y efectivos.
- Trámites transparentes y sin corrupción.
- Ser una ciudad reconocida con prácticas de Gobierno Abierto.
- Evitar el pago de licenciamientos, con el uso de tecnologías
- Incrementa los ingresos al tener una recaudación eficiente.
- Visor Urbano tendrá su código abierto para su implementación en otras ciudades.

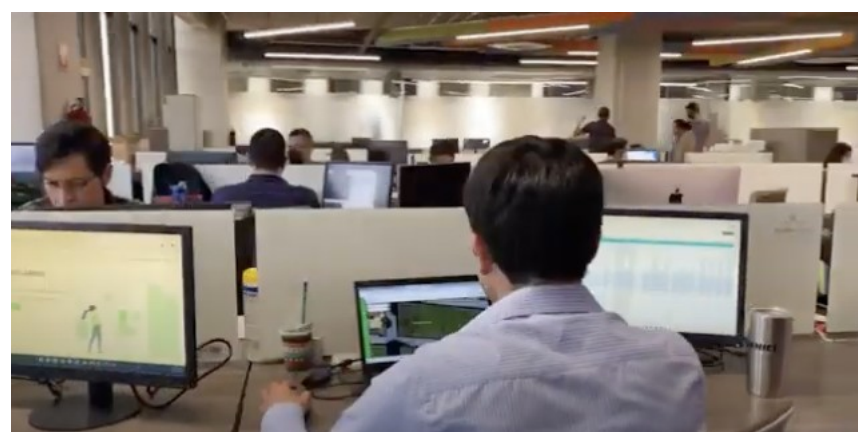
Idea
Give a license only give if certain facts are made transparent

- a) fostering transparency
- b) providing public information
- b) reducing the digital gap
- c) building confidence of citizens in their governments
- d) promoting “open data” and digital processes.

Success

- corruption reduced by about 70% in one year
- after one year- replication in 25 cities
- scaling up to 125 municipalities in Jalisco

Interesting factor

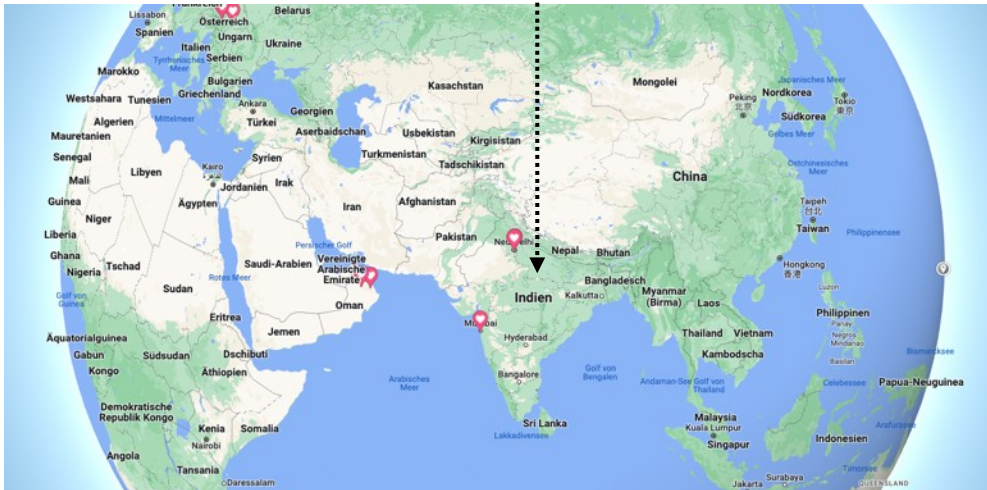


The Team

- Young
- Professional
- Optimistic

2

India



UPI

Unified Payments Interface

Platform for real-time financial transactions
(launched 2016)

FinTech

Challenge

- 2009: 145 mill. families had no access to any form of banking.
- 2014: **52 %** of adult population had a bank account

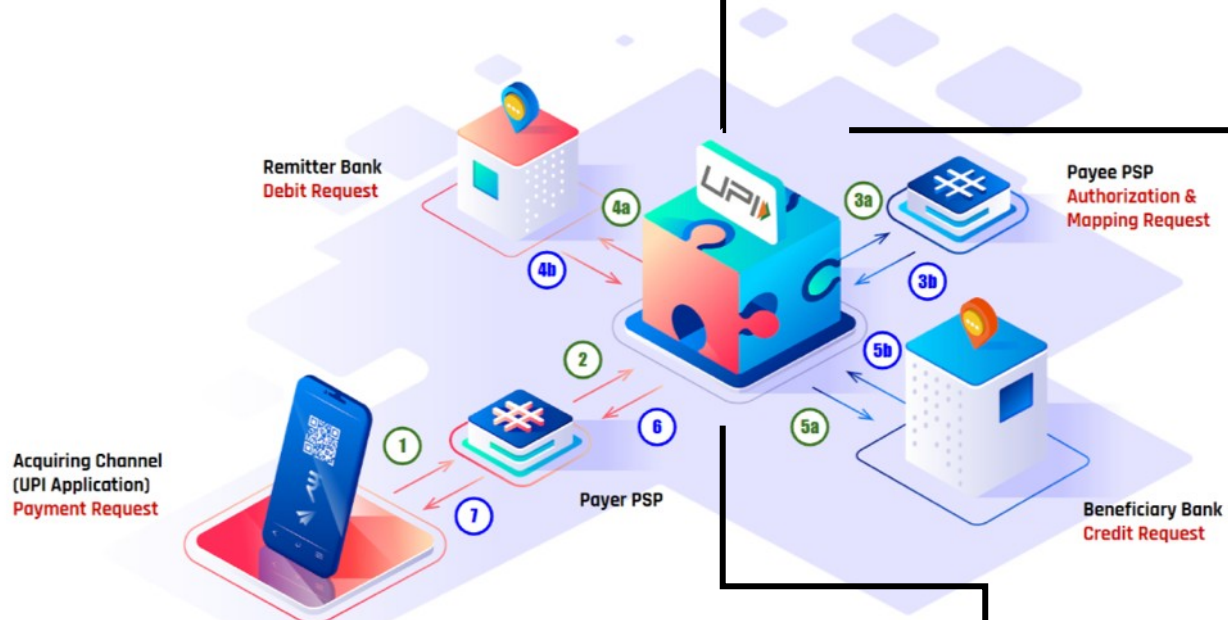
Aim

- Financial inclusion
- Everyone should have a bank account
- Formalization of economy

Idea

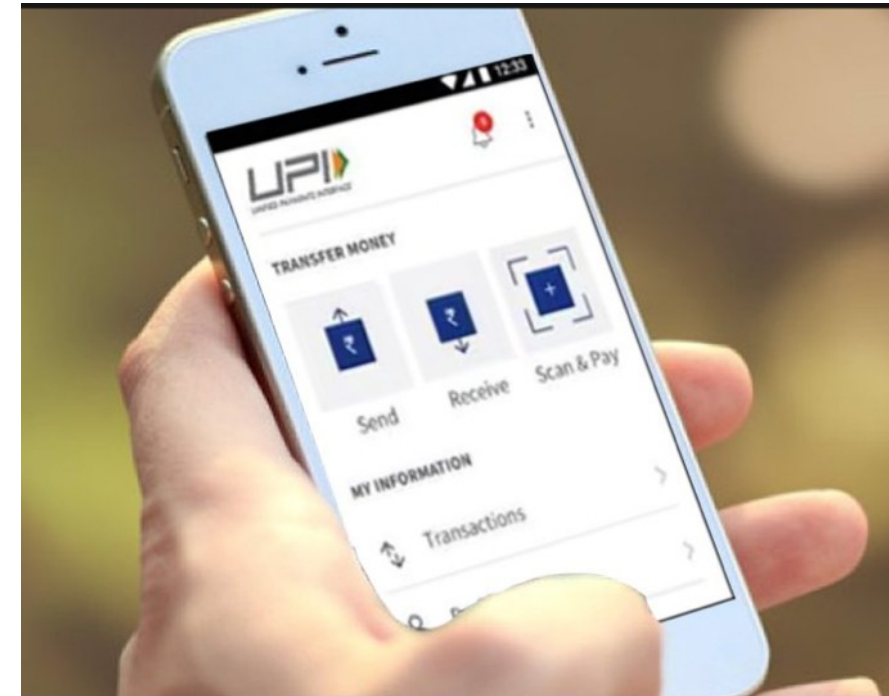
Enable real-time payment for ALL (P2P, P2M)

UPI Transaction Flow



UPI Platform

Mobile Payment Service Platform



- **Connecting 358 banks**
- **6.7 billion transactions/m**
- **US\$140 billion/m**

Open Innovation Platform:
Companies are invited to build on it!

Feb 2022

Data source: World Bank

Success

**Largest real-time transaction platform
of the world** (\$1 trillion /FY 2021–22)

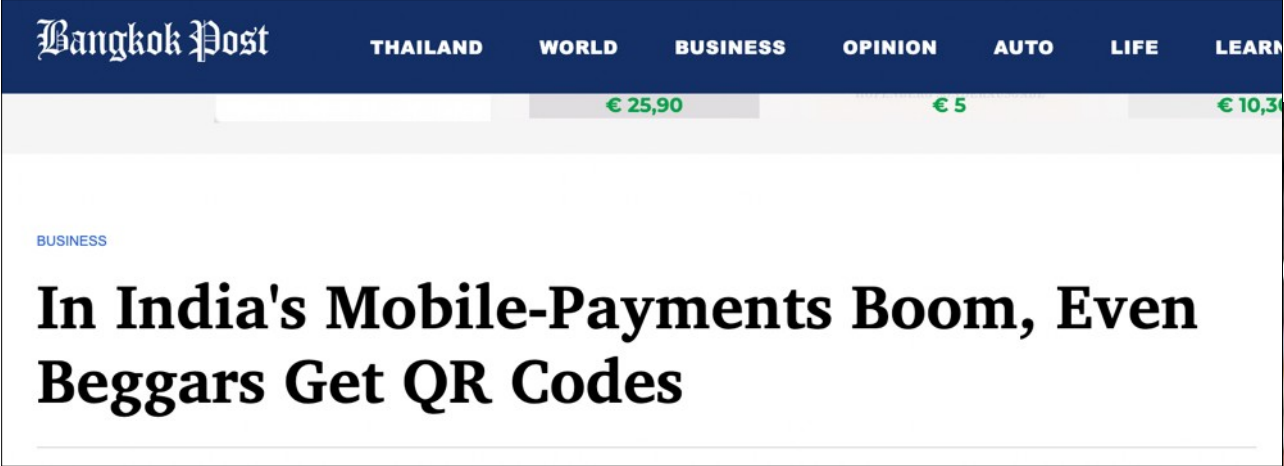
Success

Aim: To reach 750 million people

- 2017: 79.8% of adults had an account.
- 2020: over 330 million people brought into the formal financial sector.
- 2021: 48.6 billion digital payments (double of China)
- Future: could connect 400 million users in distant rural areas.

Data source: World Bank

Bangkok Post, 30 May, 2022



QR Code

“...even beggars get QR codes...”



Interesting factor

Responsible organisation: A non-profit organisation
NPIC- National Payments Corporation of India



- digital-payment systems is seen as a public good.
- mandate is to "facilitate affordable payment".
- System running at loss (!)



Slums of New Delhi

TU Wien-
Excursion
to India (2014)

Sarah Habersack



Jens S. Dangschat

3

Ghana

Greece



Education

Open Educational Resources (OER)

EduTech

Challenge

- Education for All (EFA)
- Quality education

Aim

- citizen empowerment
- high quality information
- dissemination of knowledge

- Leave no one behind: Ghana is going virtual
 - STEAM Girls Schools through open educational resources
- We are now building a virtual highschool
 - Local online modules called "I-Box"
 - Virtual Labs for Chemistry
 - innovate ourselves out of poverty

- We need free flow of knowledge
- free access to high quality open educational resources
 - Opening up education in Greece
 - Education is a world-wide public good...
 - Connect public universities with society

SDG Academy Conference
22nd september 2022

Ghana: Minister of Education



Greece: Minister of Education



Blurring of North and South

...without public engagement privatization will take over

THE POST-PANDEMIC UNIVERSITY | HOME ABOUT US ▾ CALLS FOR CONTRIBUTION CONFERENCES ▾ REFLECTIONS ▾ MULTIMEDIA ▾ RESOURCES NETWORKS CONTACT

POSTED ON SEPTEMBER 9, 2020

THE PLATFORM UNIVERSITY

4

Taiwan



Open Gov
Tech-based democratic culture
The largest civic-tech ecosystem of the world

CivicTech



Sunflower Movement: 2014

TAIWAN

- Early 1990s: multi-party democracy
- 2014: Sunflower Movement
- parliament occupied for twenty-four days
- 50 civil society groups develop collective purpose
- Aim: reform of institutions



Staggering success

Principles & Platforms

Political principles

1. Radical Transparency
2. Civic Participation
3. Rough Consensus

Social and economic aims

1. Increasing capacity for (social) innovation
2. Problem solving capacity
3. Crowdsourcing intelligence

Methods and Tools

1. Orchestrating civic platforms
2. Creating an "collaborative environment"

Core Platforms.

g0v



vTaiwan



POL.IS



JOIN



Share



Opinion Group: 1 2 Majority Opinion

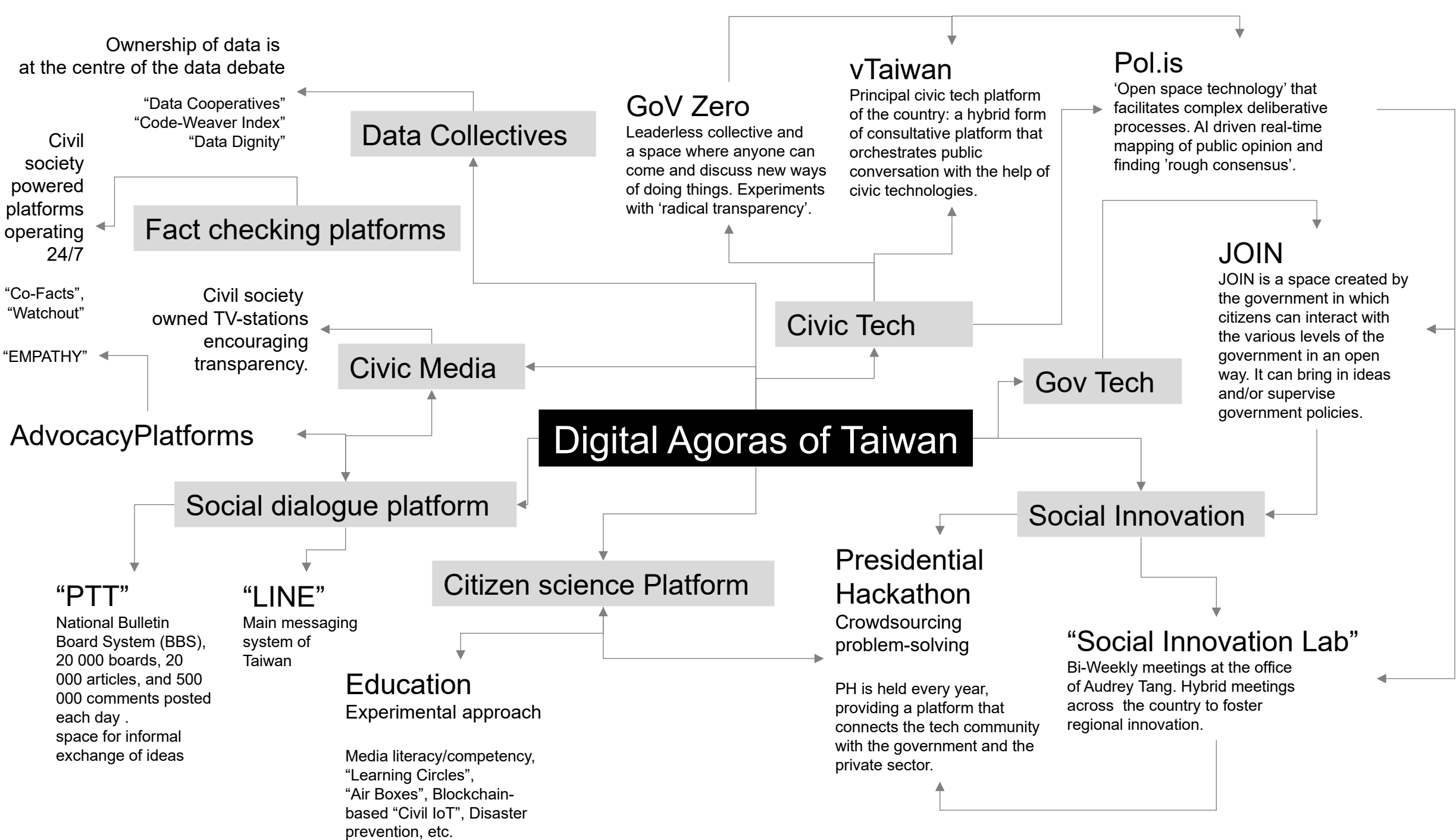


Anonymous

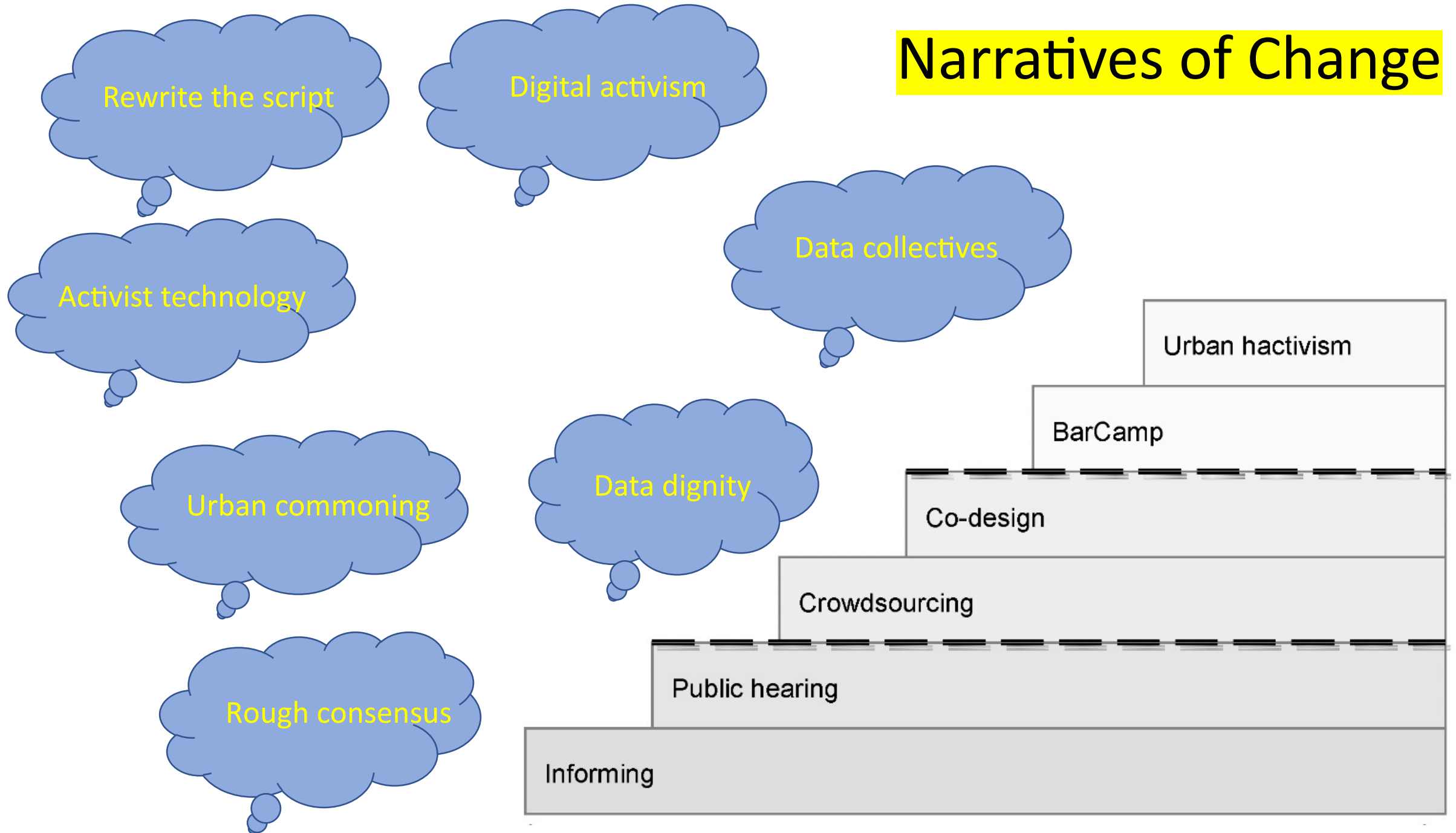
我覺得應該審核人員、乘客保障、駕駛權益都要兼顧，最重要還是安全第一

92% Agreed

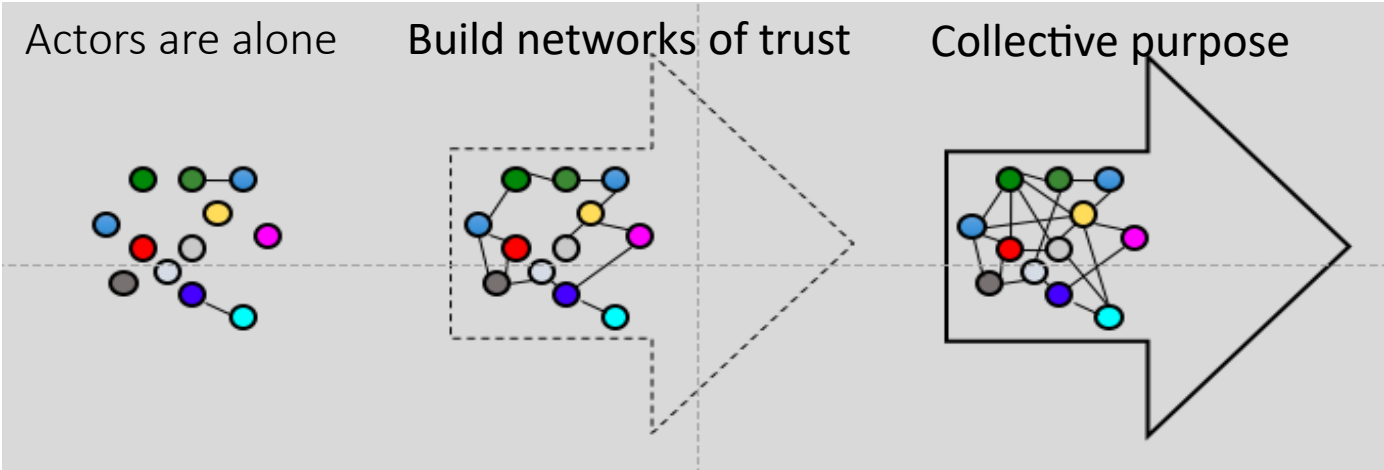
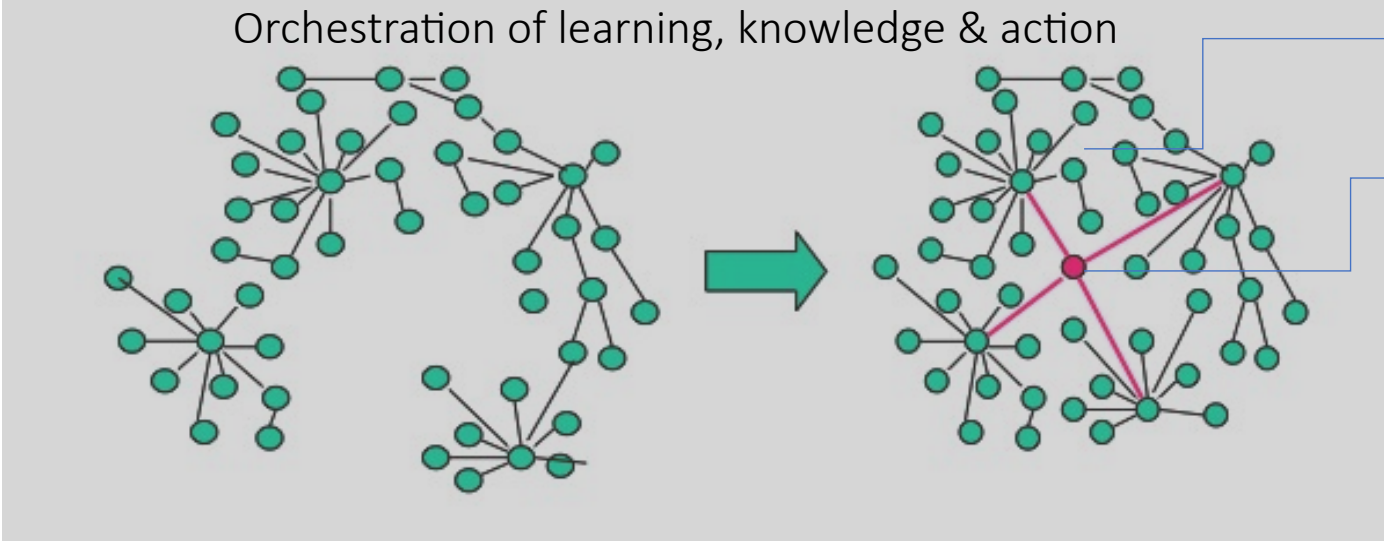
vTaiwan: Screenshot from the Pol.is mass deliberation on ridesharing



Narratives of Change

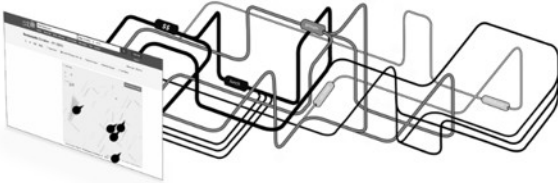


Conclusion 1



Conclusion 2

Digital Networks

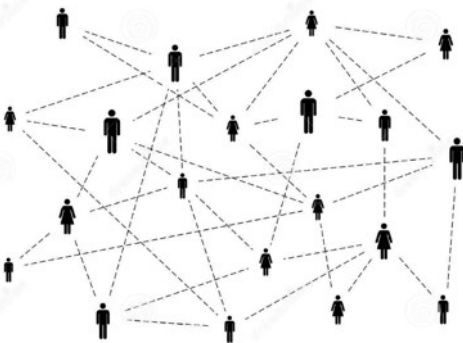


“Participatory innovation platforms”

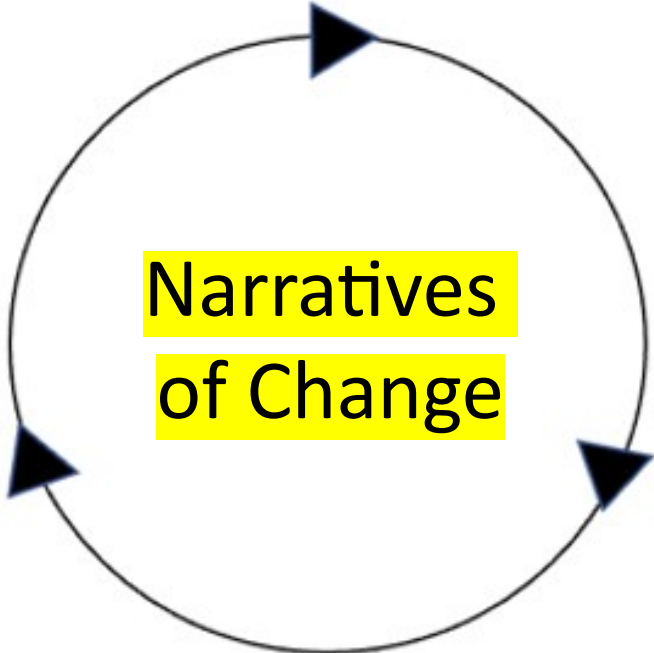
- to communicate
- share ideas
- co-create solutions
- Participation in public governance
- Democratization of innovation

PLATFORMS

Social Networks



PEOPLE



PLACE

Local Regime





Transformative Platforms & Narratives of Change

Ian Banerjee

ian.banerjee71@gmail.com