(Chapter 4: frontispiece)



CITIES-LANDSCAPE

Basic mapping formats for city systems: with dynamics of change & alternative scenarios

POLITICAL CITY:

dependency, deficit, austerity, privatization

CULTURAL CITY:

Fragmentation, intolerance, loneliness, alienation

ECONOMIC CITY:

Insecurity, financialization, global forces versus local livelihoods

a) CITIES-NEXUS

SOCIAL CITY: Exclusion, addiction, inequality, stress, precarity

TECHNOLOGY CITY:

Smart surveillance, algorithm economy, digital disruption

ECOLOGICAL CITY:

Vulnerability, displacement, extinction, climate chaos

PHYSICAL CITY:

Urban political

intelligence:

'know-who'

Fragmentation, urban & periurban sprawl & enclaves

b) 'DEEPER CITY MIND'

Urban social intelligence: 'know-why'

Urban economic intelligence: 'know-how'

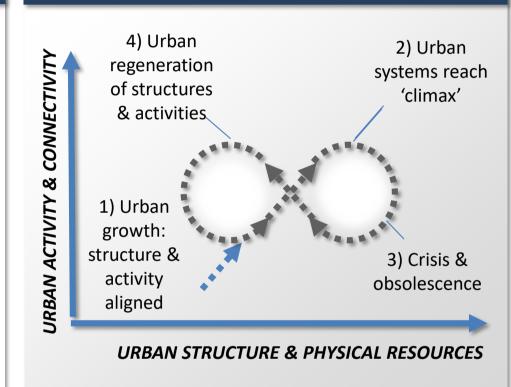
Urban spatial intelligence:

structures which can adapt & enable human learning

Urban technical intelligence:

autonomous feedback & response

c) DYNAMIC CYCLE of URBAN CHANGE



d) CITIES-SCENARIOS

GLOBAL COMMUNITY:

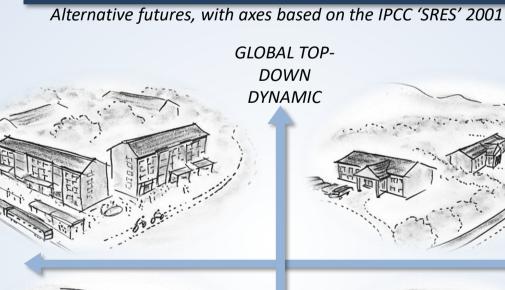
compact cities, advanced infrastructure, universal housing

We have a plan for everything

> PUBLIC / **ECOLOGICAL VALUES**

LOCAL COMMUNITY:

autonomous towns & villages, reduced mobility



Stunning & exclusive luxury apartments!!

> PRIVATE / **ECONOMIC VALUES**

LOCAL **ENTERPRISE:**

GLOBAL ENTERPRISE:

Wealthy private

enclaves, auto-

dependency

Free-market sprawl, vulnerable to hazards

Let's make our town great again!!



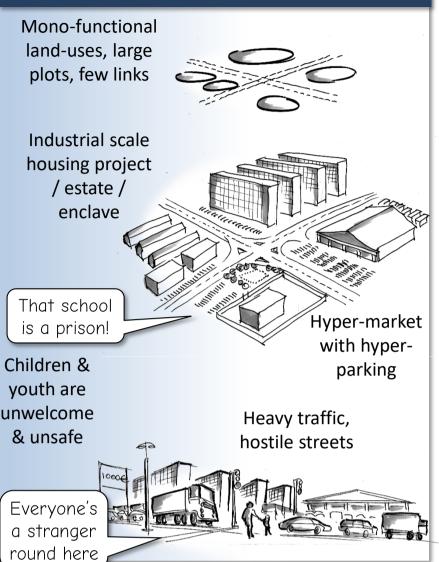
thing we need

LOCAL / REGIONAL **BOTTOM UP DYNAMIC**

NEIGHBOURHOOD-III

Local pathways in urban & rural, with spatial patterns & social patterns

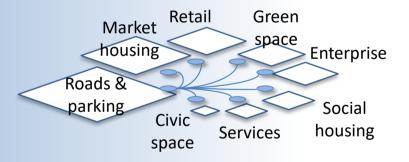




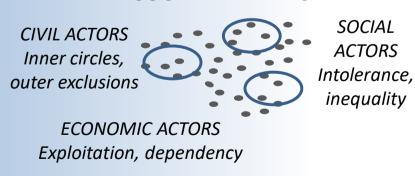
c) SPACES of EXCLUSION-I&II

Spatial-social syndromes: mono-function, extractive

SPATIAL PATTERNS



SOCIAL PATTERNS



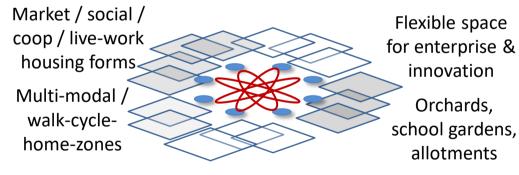
b) LOCAL SYNERGIES-III



d) PLACES of INCLUSION-III

Spatial-social synergies: multi-function, responsive

SPATIAL PATTERNS



SOCIAL PATTERNS

play streets, care exchange, car shares

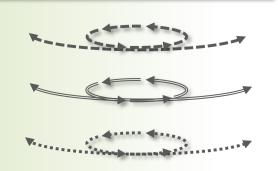
SOCIAL
ACTORS:
connecting
young / old,
rich /poor,
local / global

ECONOMIC ACTORS: social enterprise, skills mentoring, asset stewardship

PATHWAYS

Socio-economic gaps: myopic profiteering, insecurity, exclusion **Socio-cultural gaps:** polarization, distrust, trauma, alienation

Eco-political gaps: privatized land, auto-dependency, industrial food



Local livelihood pathway: inclusive social enterprise & public crowd finance

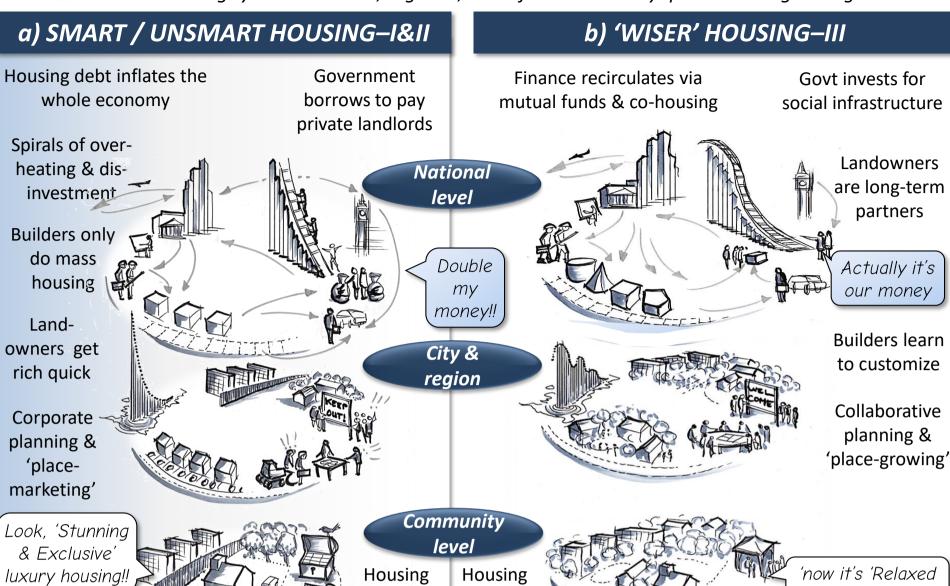
Local network pathway: cultural exchange, mutual aid

Local stewardship pathway: multifunction spaces for education, food, health Yes we are

Stunned & Excluded!!

HOUSING-III

Housing systems national, regional, local: from market myopia to housing intelligence



as comm-

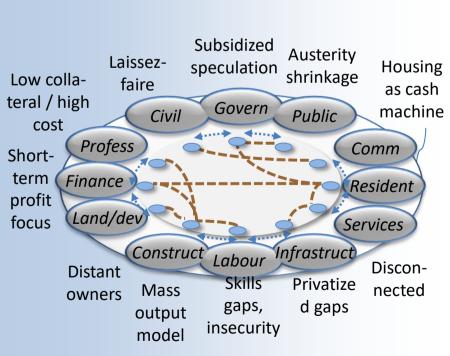
unity

as cash-

cow

c) COMMODITY HOUSING-I&II

Typical gaps, conflicts, power relations between actors



d) LIVELIHOOD HOUSING-III

& Inclusive'

housing

& every good street

includes parties

Potential synergies & value chains around the table

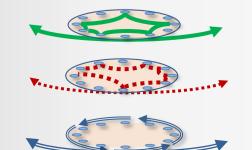
د PUBLIC VALUE CHAIN کے Social value **Pro-active Balanced** & area policy funding approach Shared Social CC DEMAND CHAIN >> ZCRESOURCE CHAIN Govern equity assets Civil Public **Profess** Comm **Finance** Resident Land/dev Services Construct Infrastruct) Long term Labour collateral Socio-Integrated Co-produbusiness planning ction

e) PATHWAYS

Equity gaps (private housing): speculation, moral hazard

Tenure gaps (public housing) split incentives, tenant exclusion

Supply-demand gaps: inertia, fragmentation, distrust



Housing institutional pathway: mutual finance, landlord / builders / community

< SUPPLY VALUE CHAIN >>

Housing democracy pathway: cooperative co-housing, flexible tenures

Housing value chain pathway: responsive markets, standards, procurement

Figure 4-4

RETROFIT-III

Energy efficiency renewal & adaptation: mutual learning between buildings & people

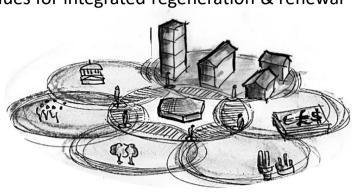




b) 'RECIRCULATORY CITY'-III

Physical buildings are linked with social, ecological, public values for integrated regeneration & renewal

Digital
platforms
(blockchain
trading,
predictive Al
etc) provide
'know-what'





Human
platforms
(entrepreneurs,
intermediaries,
mentors) 'know who' &
'know why'
connectivity

We need a wiser way of life

Integrated waste, energy, ventilation, heat storage, re-use / recycling

c) LINEAR RETROFIT-I&II

CHANGE MAPPING

d) DEEPER-WIDER RETROFIT-III

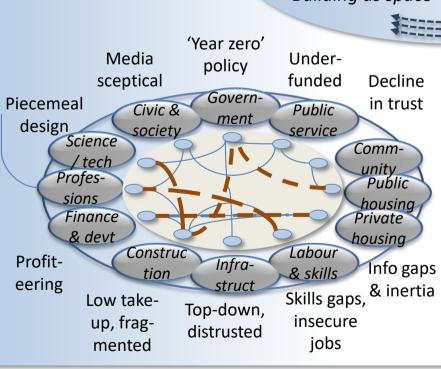
Typical gaps & conflicts
between retrofit stakeholders

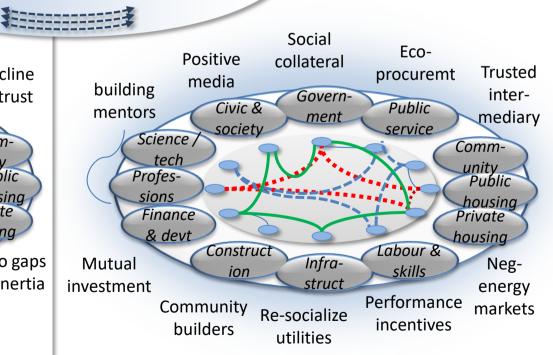
Functional buildings >> >> Multi-functionality

Fixed tenures >> >> Flexible tenures

Building as space >> >> Building as services

Potential synergies & multivalue-chains in retrofit



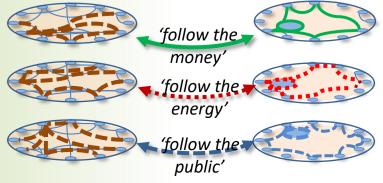


e) PATHWAYS

myopic profit, moral hazard

Socio-technical gaps: Inertia, uncertainty, distrust

Urban-political gaps: Split incentives, silos, barriers



Retrofit eco-tech pathway: owners, agents, utilities, builders, lenders

Retrofit behavioural pathway: skills, mentoring, standards, circles

Retrofit metropolitan pathway: new tenures & stewardship

CITY-REGION-III

Co-evolution of spatial structures: from industrial to synergistic city-region

Low value housing sinks

Peri-urban car

dependency

Retail parks,

aero-parks

a) INDUSTRIAL CITY-REGION-I

Industrial pollution Historic centre

Population growth, suburban housing

Rapid expansion into rural land: local farming on fringe

We need a new factory so this river has to go

b) POST-INDUSTRIAL CITY-REGION-II

High-end enclaves

Logistics hubs

CBD expansion

Waterfront gentrification

Waterfoot & waste

We need a new CBD so these slums have to go

c) 'SYNERGISTIC' CITY-REGION-III

Social synergies: recirculation of growth & decline

Economic synergies: networked livelihood

We need a sustainable city-region & synergistic thinking to

make it go

Ecological synergies: ecobelts, interfaces, corridors,

Spatial synergy, rebalancing & defragmentation

Peri-urban & perirural networked communities

Global hubs / local linkages

Multi-modal balance of human / transit /car

d) CITY-REGION-I

Logic of functional growth: Geography of local **proximity**

SPATIAL PATTERNS:

Local
economic
engine

Housing

Civic

Services

Pransport

Built area

Peri-urban

'Functional Urban Area'

'Rural-Urban-Region'

'TEXT-BOOK' TYPOLOGY

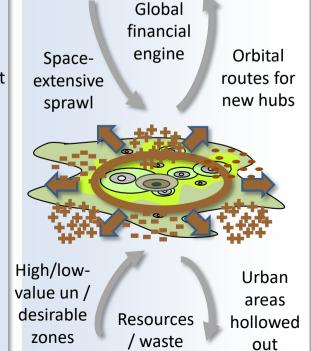
SPATIAL DYNAMICS:

Population & economy grows>>
Rapid spatial expansion>>
Local pollution & waste

e) SMART CITY-REGION

Logic of evolutionary competition: Geography of global connectivity

SPATIAL PATTERNS:



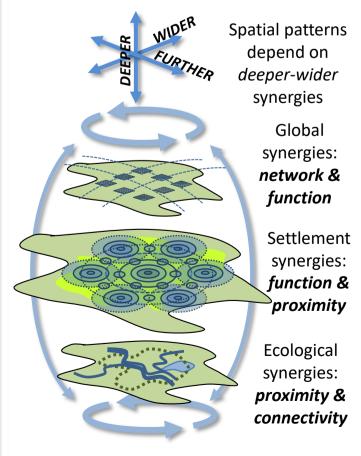
SPATIAL DYNAMICS:

Extractive power grows >> Spatial structure turns insideout>> Global pollution & waste

f) 'WISER' CITY-REGION-III

.....

Logic of co-evolutionary collaboration: Geography of local-global recirculation



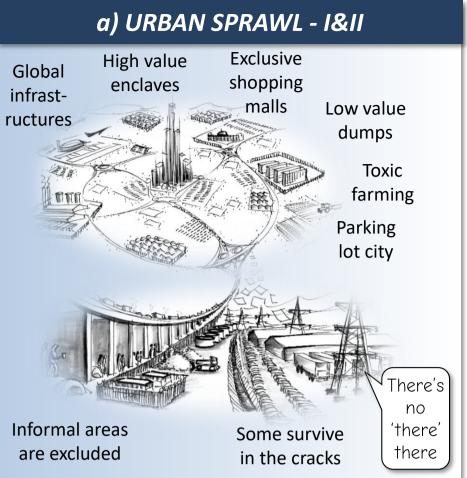
SPATIAL DYNAMICS:

Recirculation value grows>>
Spatial diversity & complexity>>
Local-global cycles>>

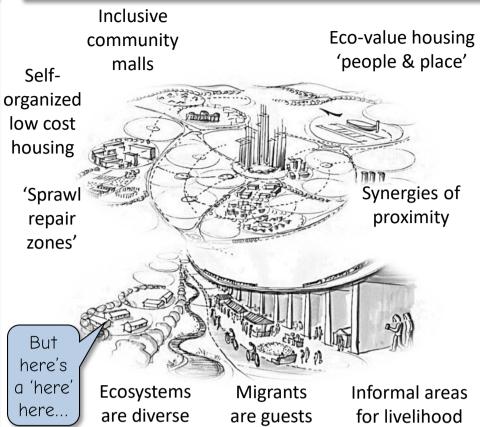
Figure 4-6

ANTI-CITY-REGION-III

Peri-urbanization & 'cities but not as we know them', from sprawl to synergies

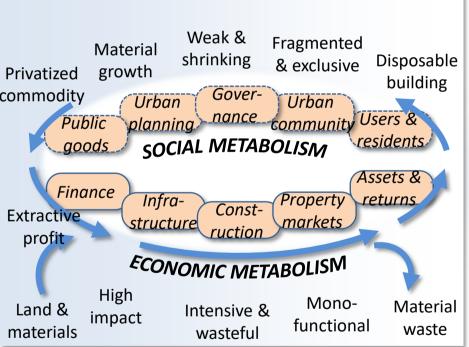


b) URBAN SYNERGIES - III



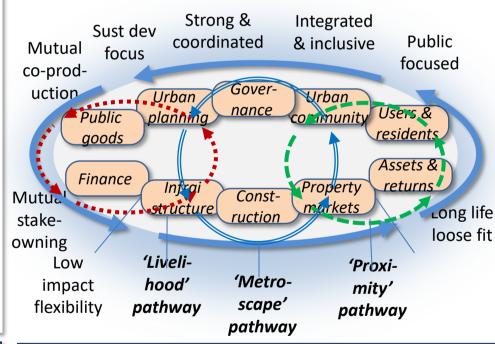
c) LINEAR METABOLISM—I&II

'Real estate' market logic leaves gaps in social metabolism



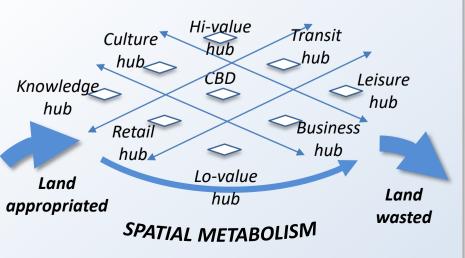
d) RECIRCULAR METABOLISM-III

'Reality estate' is integrated with eco-social value



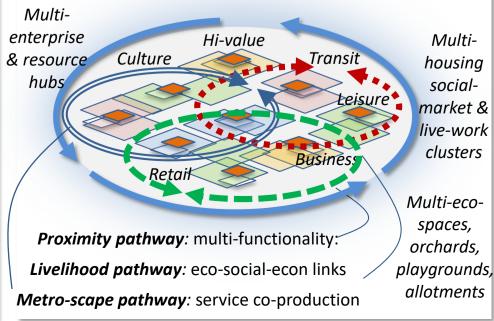
e) ENCLAVE SPACES-I&II

Urban sprawl with disconnected mono-functional plots



f) CONNECTED PLACES-III

Synergistic development with connectivity & diversity



CIVIC-DESIGN-III

Urban planning & design, from mono-functional real estate, to co-evolutionary 'reality estate'

for Real

a) SMART /UNSMART PLANNING-I&II

Development is organized for external profit

Viable communities are destroyed for commercial development

Decision-making is a one-way Financial Return On Investment

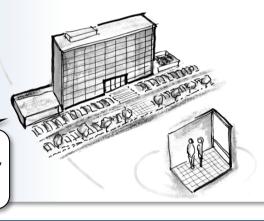
Design is monofunctional, brittle, unresponsive

> This design is a 'machine for living' (robots like it)





Dissent is excluded. residents out of loop



b) 'WISER' PLANNING-III

Recirculation of financial, social, ecological values Housing, commercial, ecodevelopment, in

Diversity is included, residents are in the loop, **Planning**

Decisiondialogue for Social Return On Investment

combination for

added value

Design is multifunctional, responsive, human scale

Design for

long term

value

This design is by humans with humans & for humans

c) CIVIC DESIGN SYNDROMES-I&II

Real estate sector leaves gaps in eco-social fabric

Monofunctional evaluation

Design objectives: function & profit

Designers parachute in

Workers are exploited

Design for surface gloss

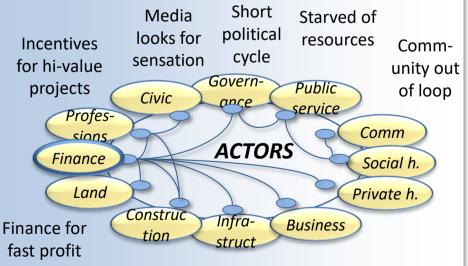
Elitist & exclusive process

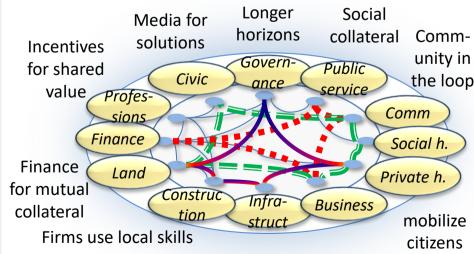
d) CIVIC DESIGN SYNERGIES-III

'Reality estate' is integrated with eco-social value

Designers part of Multi-function Construction community evaluation with local skills Design **PROCESS** objectives: social value

Open & inclusive process



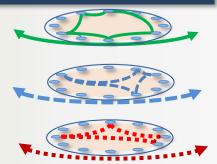


Social-economic gaps: myopic profit, asymmetric info, trust hurdles

> Socio-technical gaps: Inertia & uncertainty, low innovation

Political economy gaps: Split incentives, silos, trust barriers

e) PATHWAYS



Civic livelihood pathway: value chain of finance, landlords, agents, residents

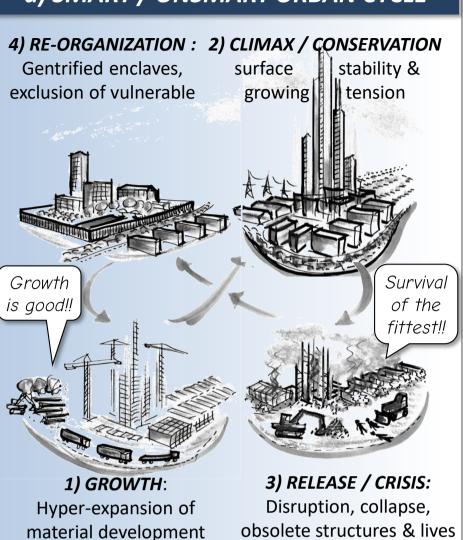
Civic cognitive pathway: integrated skills, standards, innovations

Civic institutional pathway: new tenures & stewardship

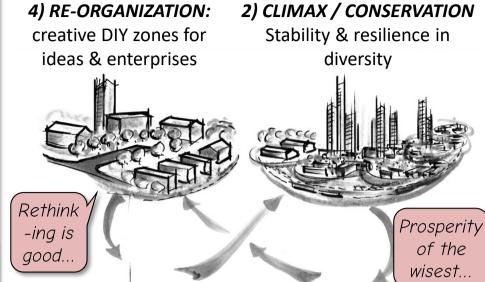
CITIES-III

Putting it together: the dynamic cycle, urban connexus & synergistic pathways





b) 'WISER' URBAN CYCLE



1) GROWTH: 3) RELEASE / CRISIS: Diverse, inclusive, Managed adaptation,



Pathways on the interconnections between domains

Techno-political:

Smart-wise systems for public service & infrastructure

Political-cultural:

Urban governance for local cohesion & citizenship

Eco-cultural:

Urban greening for health, education, food, deep ecology

TECHNO SOCIETIES LOGIÈS

POLITICALS

CULTURE

CITIES

ECONOMIC

regenerative development

ECOLOGY

Socio-technical pathways:

Smart-wise communities for local renewal & empowerment

Socio-economic:

demounting, recirculation

Urban spaces & resources for livelihood & innovation

Eco-economic:

Urban markets & investments for local & global commons

d) CITIES—III PATHWAYS

Civic design:

elitist, closed & fixed process

Neighbourhood: Passive, alienated,

fragmented

Housing:

marketized, unresponsive

Spatial pattern:

mono-use, autodependent

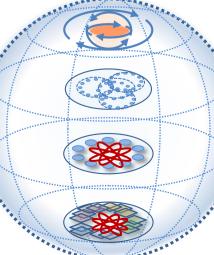
PARALLEL PATHWAYS

ORGANIZATION-III E/VALUATION-III

LOCAL-ONOMICS-III FOOD-III

FINANCE-III: **PUBLIC-SERVICE-III**

MULTI-LEVEL-III ECO-URBAN-III



Civic design: co-creation & participation

Neighbourhood:

multi-functional, self-organized

Housing: socialized,

responsive

Spatial pattern multi-function, human scale