







MASSIVESMALL.COM/PENDIUM SMARTURBANISM.ORG.UK

URBAN INNOVATION CENTRE





GEOVATION HUB





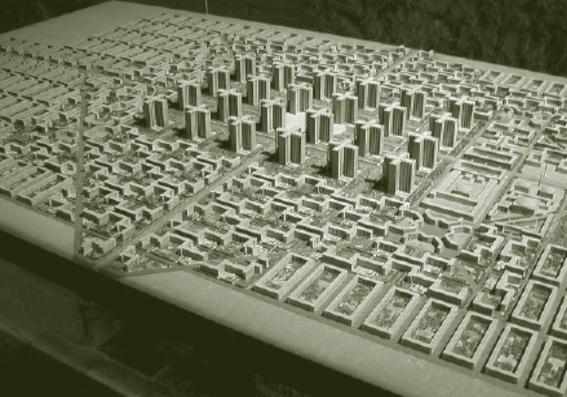
WE NEED TO THINK OF CITIES NOT JUST AS ARTIFACTS BUT AS SYSTEMS BUILT MORE LIKE ORGANISMS THAN MACHINES

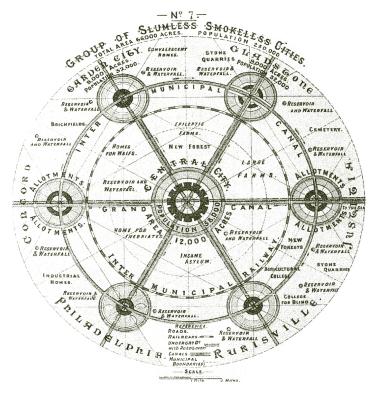
Michael Batty, The New Science of Cities

HOW DID WE EVER THINK WE COULD CONTROL SOMETHING AS COMPLEX AS A CITY?



COMPLEXITY









NEWS VIDEO PEOPLE VOICES SPORT TECH LIFE PROPERTY ARTS + ENTS TRAVEL

UK v / World v / Business v / People / Science / Environment v / Media v / Technology / Education v / Images /

News > UK > Home News

Housing crisis causes surge in sheds with beds



URBANISATION





GOVERNMENT EFFECTIVENESS

FIRAID HOEA

BREAKING NEWS
THE CVCTTA

THE SYSTEM



- = COMPACT URBANISM
- + SOCIAL CAPITAL*



MASSIVE SMALL DECLARATION

The urban antidote to bigness

These disciplants and groups the Massive Small Project. They entities the charleng, principles and behaviours needed to meet the future shallenges of arbitra society. They are unimally continuing such point should not be considered to indicate to the others. They will entite a case challenges arise.



A NEW COLLABORATION

Putting democracy back into urbanism

Communication server effectively tackly the increasingly complex problems of capid attenuation. We some mobiline propers known countriesy, harmoning the collective power of many small allow and actions to studie a big difference. To reduce this potential, we must and people to do the right thing. He adopting that emissionees to their needs, people from and pulling Holts of what nextly - our neighbourhoods, chemics and quarters. Using monoti that general single roles; putting in place countral conditions, and, providing making featuring processors can show the way. He need to rangestate the social person become processed and in citizen - Jestweet top-closes and feature-up systems, justing our amounts possess the will finter as open and collaborative relationship



RADICAL INCREMENTALISM

Managing in the present

is at emmas fatur, we must stay fixing as the rival fates of the cay and specific separal end state. Rather, we used a three times of our posit. We self achieve those by bearing on content and small beginnings, astronomy to a precisely improved very that well months great and charge. One approach to order garmentar should involve capid and methods declared deeps. The will indices, after and accelerate our next actions. This is involve and adaptive framing - one game himselvdge along the way that affects feture decisions.



FREEDOM WITHIN CONSTRAINTS

Limiting choice to create infinite possibilities

Extraordy careers or related to the first of The accumpantal grant and a condition within which ending potentials energy. So is the city choice enable the ground of highly response accessments and provide a plant i relabilitation with a full programming in the Own top down unfor placetory, dwages and definery systems made ratio to offer a common plantican with an expectable framework of choices - design options, processed many and entry levels to the system - for the and to had distributed and entry are in the system. habite. We adverse a reage of definite and catalysis for seless charge to help this process.



A WHOLE-WORLD VIEW

Towards urban viability and resilience

the indicated that the human habitat critics as a dependent sub-contrast of the constrainent. to count be included from the natural habitat. We must hadd the forestations for window when to contact we measure these the parties of the point where we are no longer distributions for the point where we are no longer distributions the new response to the standard has been as the point whose we are not angle personnel of a standard property of the a narrow, probability mp down view of the problem that rather we must see the additionable between order interrestions and the to be present the choice we make up the according returns across interesting and the global option. Enabling people to control their own habitat is an exercised part of brighting the power opense. Annually proper to control time own natural as an extension part or committee that will be rended as we exter a period where global insuce are increasingly field locally.



COLLECTIVE WISBOM We believe that data and technology abould automate horses for replica is. We make trust involve wholes, would



OPEN TO CHALLENGE

Operating in the sweet spot of creativity

We must sever allow our thinking to freeze into a static electrine. No group or individual cut resease the complete view needed for working with complexity. Our thinking is structured to arold the danger of group-think and the morth of the single hans. One theory is computable with and frozen diversity, complexity and charge, makes use of coeffict and pseudox constructively. and makesh will-analysis and currection at its very even, by always being open to challenge. It finily trush the fire line between chass and order - the place where innovation thousishes and we leverage the pamer of complex systems. Our theory embraces feedback from different sources, integrating new prospectives, enhancing medf over time. It never parts from the reality of the city and people's experience of it. The form is always penale; where theory meets practice.



EVOLUTION NOT REVOLUTION

Small changes make a big difference

Weamsterdocreter at and processed what evaluation, have using the collective power of people and unleading the potential of billions of bottom-up actions. We do not need to start again – we but and to begin haloscing the rules and expressibilities of all people, building on their strengths. In some instances this means a fir greater involvement by governments. In others cases, it means some simplification and extraordining to allow people to take greater responsibility in the system. Abore all the murroeser justify anticalled lauseer-fairs approaches and unprincipled derogalation.



ENABLING LEADERSHIP

From command-and-control to facilitation We must challenge and reform the signif command- and-control systems that inhibit people's ability to adapt their place to their needs. This depends on new forms of leadership that can need in the interface between top-down and bottom-up systems. A new generation of civic leaders and professionals must see their responsibility as agents of urban change, holding need capital and promoting self-organization at every opportunity. In the public sphere, responsibility and accountability must be desolved to the lowest levels fundamentally changing the scope and purpose of practice from reaction to strategic enabling.



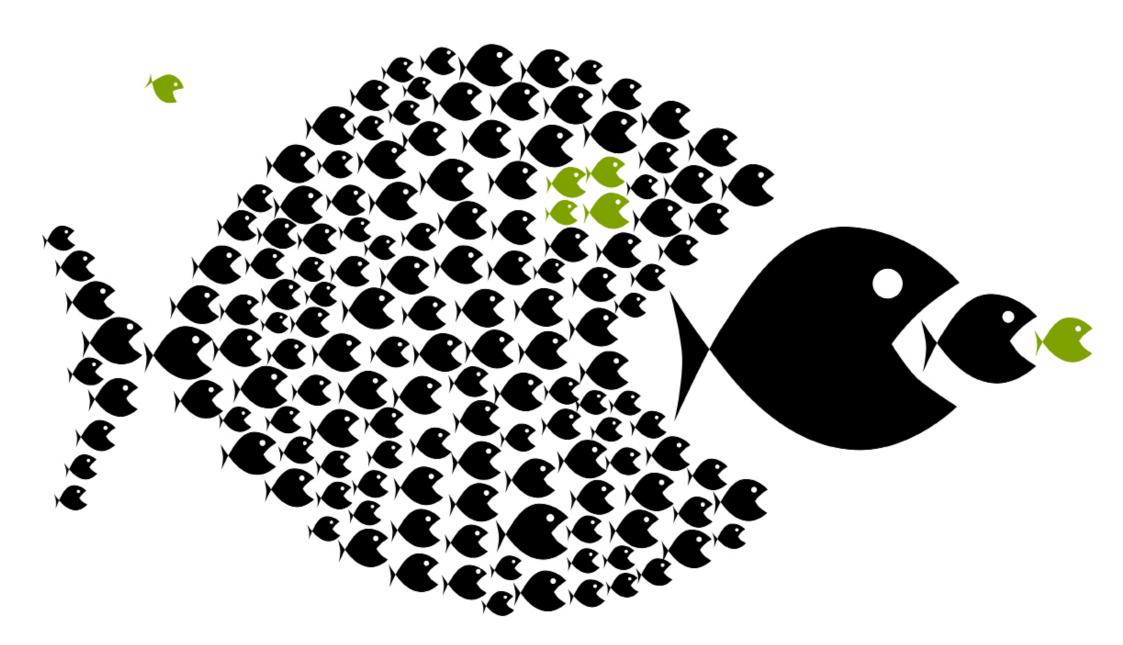
A CODE OF ETHICS

True professionalism and ciric leadership must be built on trust and commitment to do the true processment soo tire, severing more or more no room on common state of the light thing. Like any calling that fundamentally affects the lives of others, any member of the ages roughous my variety can recommency seems on over or moon, my recommendation are positively, any elected official and amount in a positive of authority in the city, must he found by commonly accepted behaviours. In time this should be defined by the collective creation of code of ethics equivalent to the medical profession's Hippocratic Oseh or its creation of case of entire approximate to the monear professional rapporative. Craim or an Declaration of Genera, In signing upon these principles, they accept their duty and responsibility to the pottent and future well-being of the substitute of the city they have charge over.





WHENEVER THEIR IS A PROBLEM **SOMETHING IS** TOO BIG



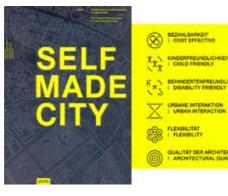






























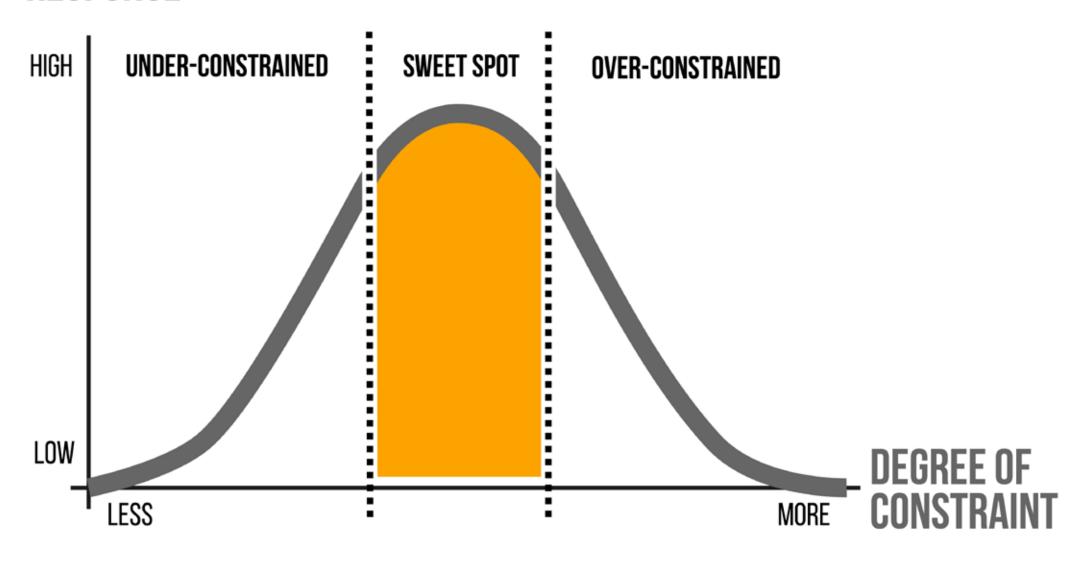
MUMBAI SÃO PAULO ISTANBUL MEXICO CITY CAPE TOWN

From Community Initiatives to Participatory Models





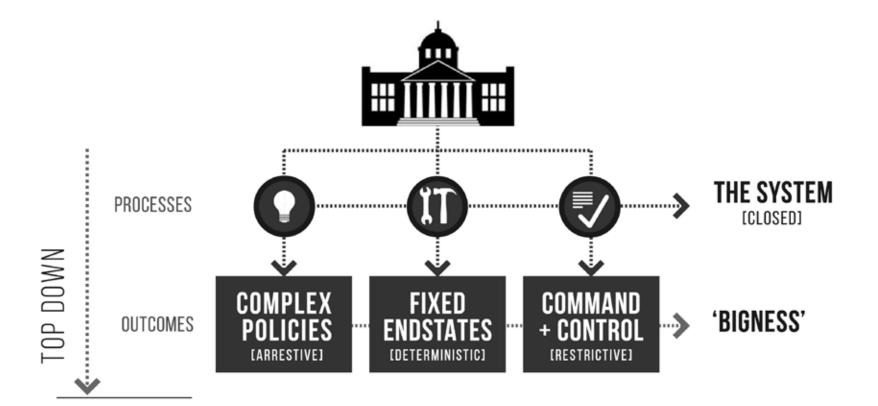
POTENTIAL FOR INNOVATION/RESPONSE



NTALIST IN 12 EASY LESSONS 1 INCREMENTED TENTE

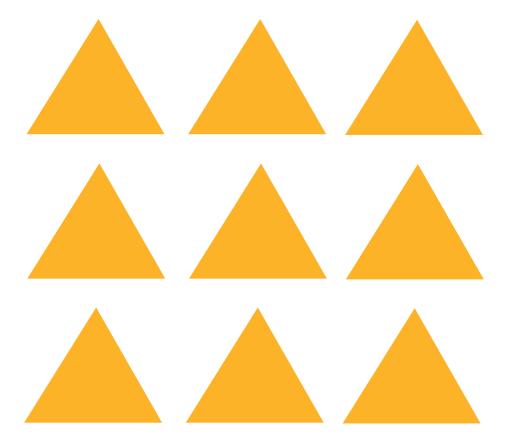


KELVIN CAMPBELL AND ROB COWAN





PROBLEM MOUNTAIN



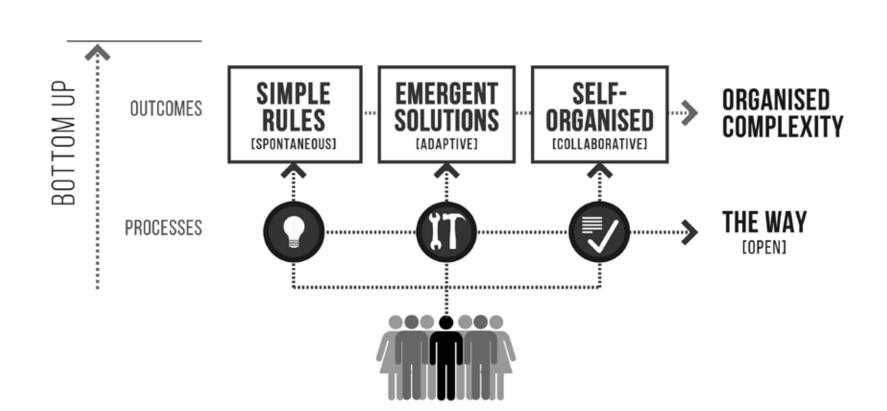
PROBLEM MOLEHILLS

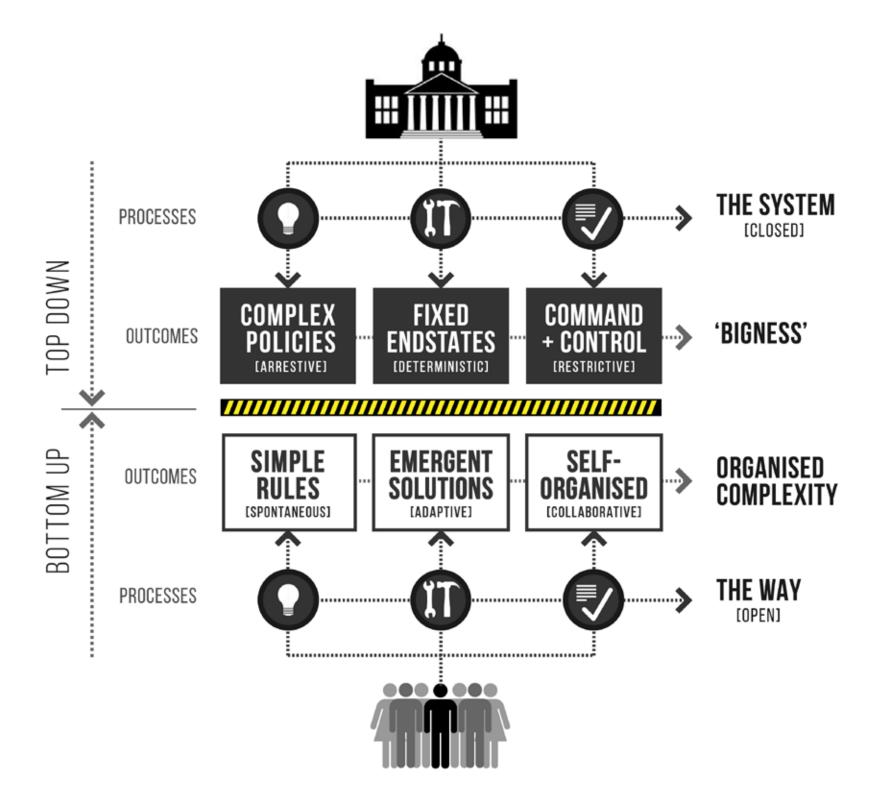
Jane Jacobs

ORGANISED

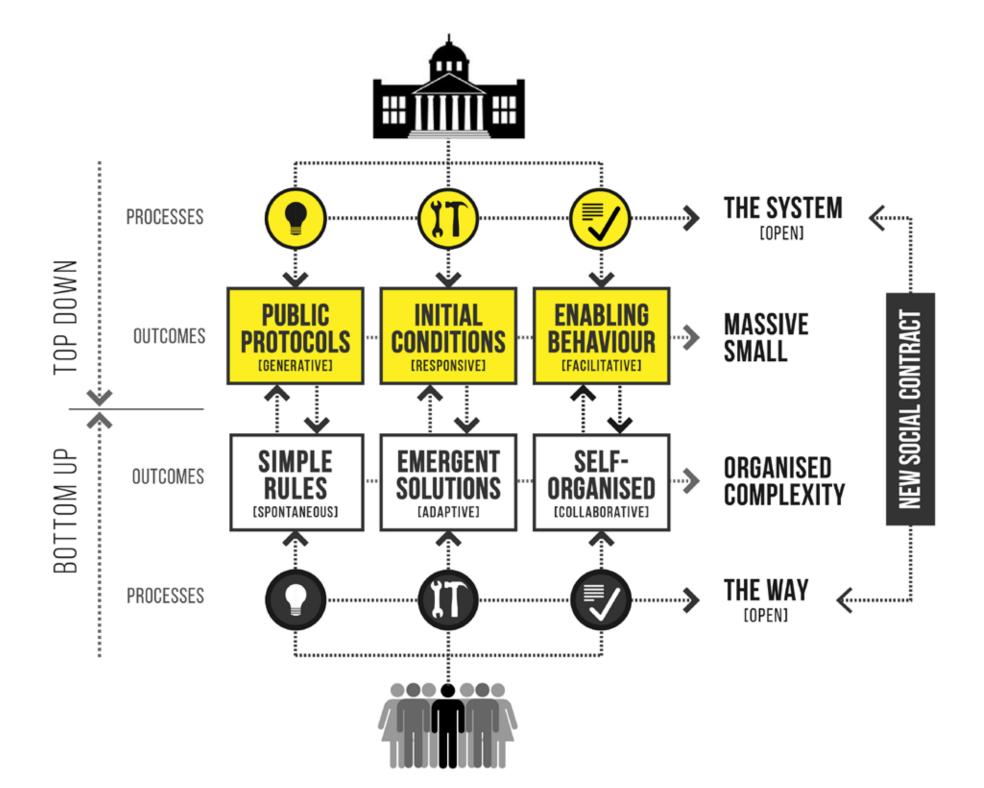
COMPLEXITY







SIMPLE, CLEAR PURPOSE PRINCIPLES GIVE TO COMPL IGENT BEHAVIOUR. EX RULES AND TIONS GIVE RISE SIMPLE AND STUPID





COMPLEX POLICIES



SIMPLE PROTOCOLS

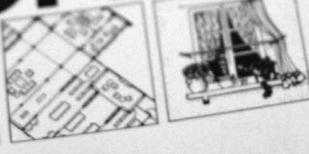
DENTI EV ALCOCK MUFFRAN MEGLYNN SKI

RESPONSIVE ITS





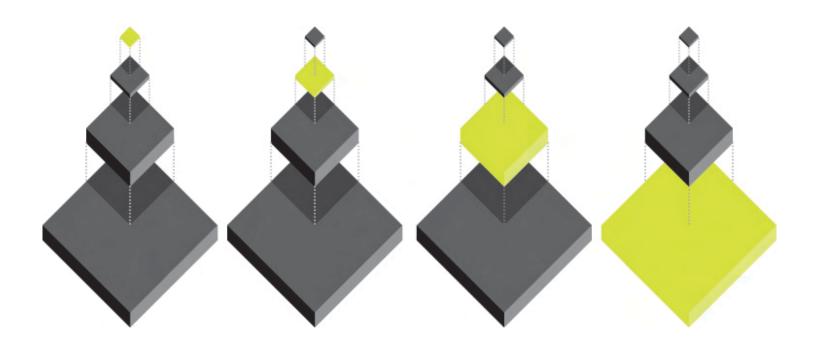




A MANUAL FOR DESIGNERS

erciless, en night is the m collaborate together, "tear wrics and

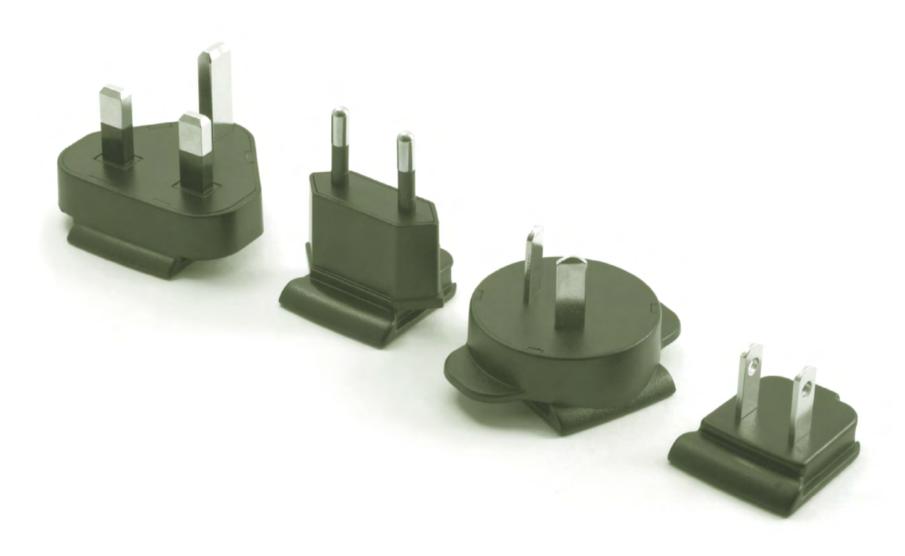
DRIVERS OF CHANGE



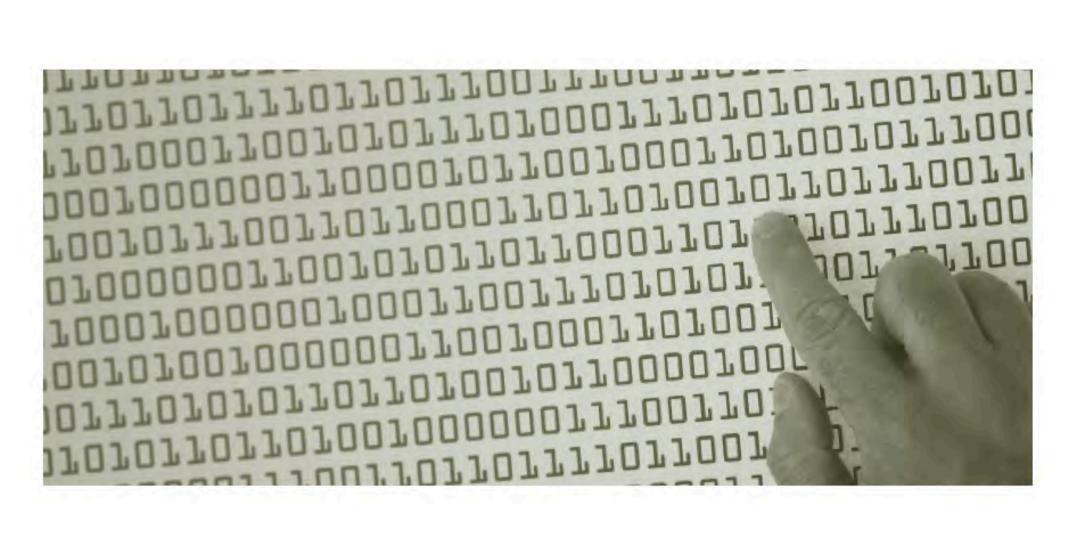
SCALABILITY



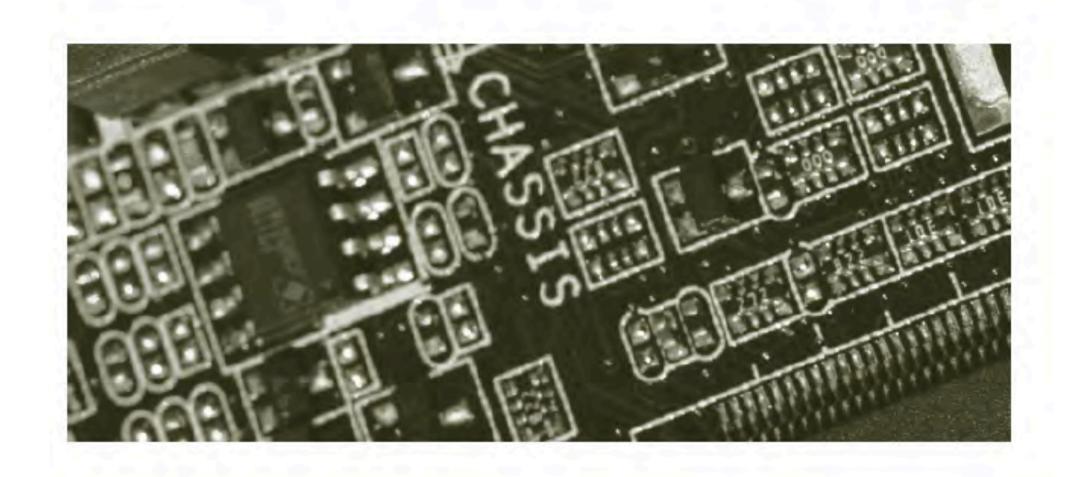
REPLICABILITY



INTERCHANGEABILITY



.....THROUGH TYPOLOGY



....OR THE INVISIBLE CHASSIS

AUDIO

PH³ BUILD



FIXED ENDSTATES



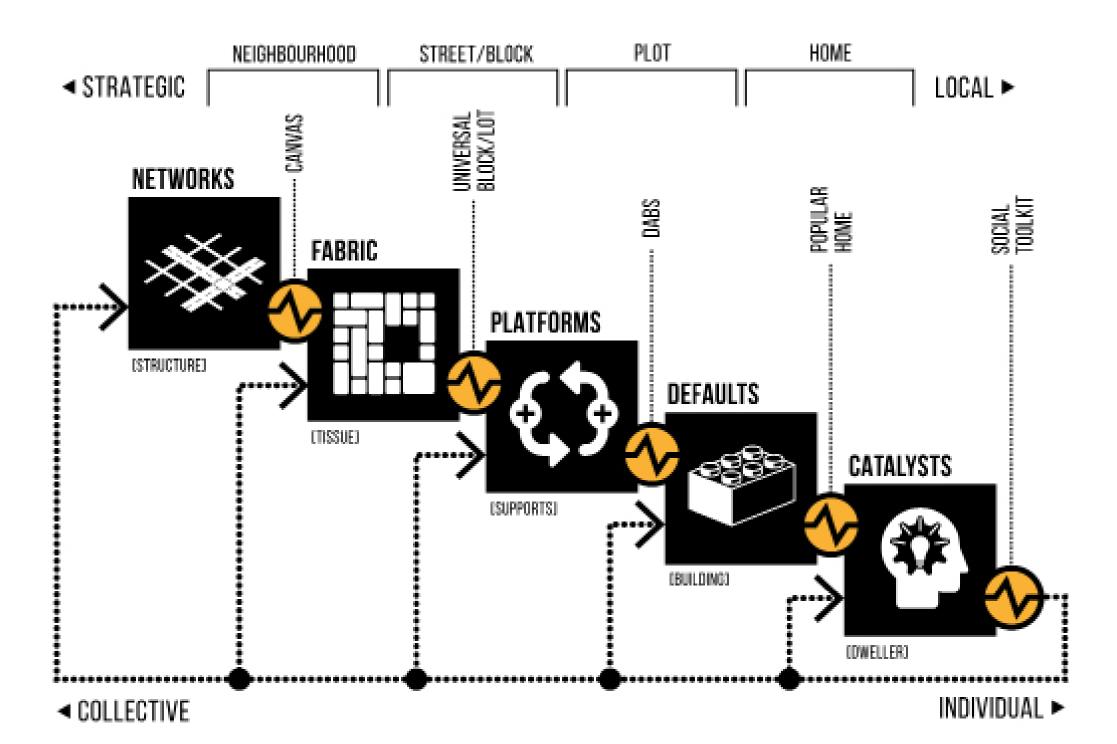
INITIAL CONDITIONS

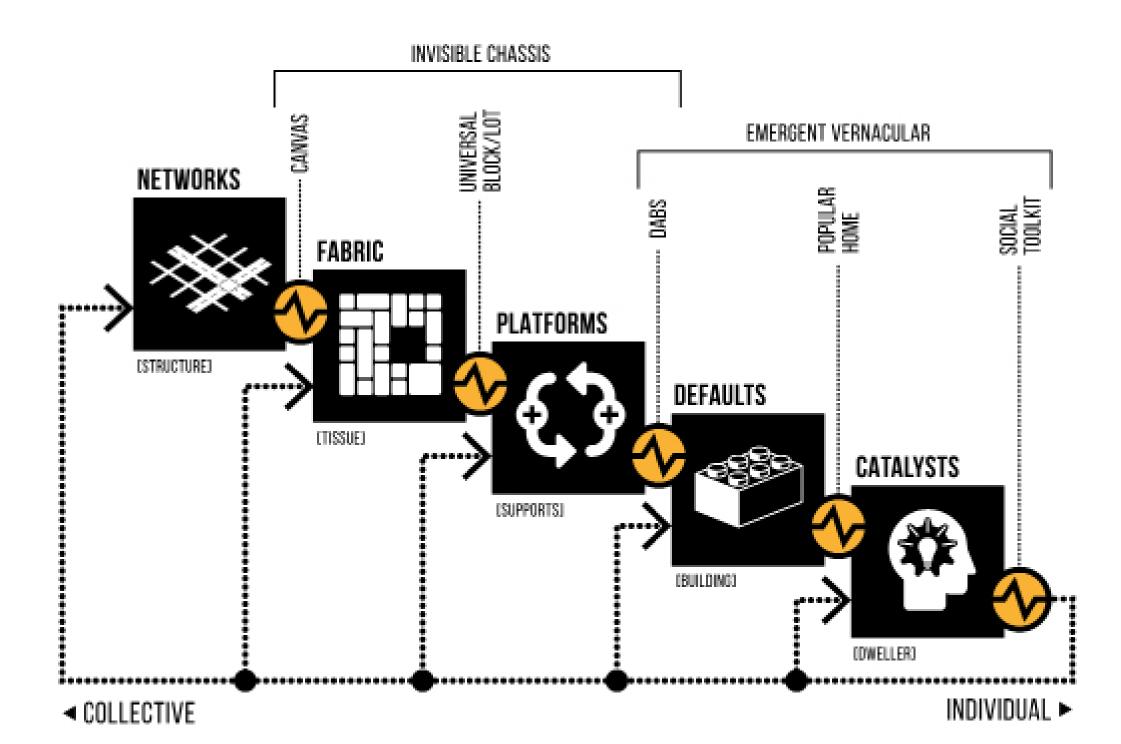
EARLY INTERVENTION> < RESPONSIVE ACTION











COMPLEXITY THAT WORKS IS BUILT UP OUT OF MODULES THAT WORK PERFECTLY, LAYERED ONE OVER THE OTHER.

Kevin Kelly

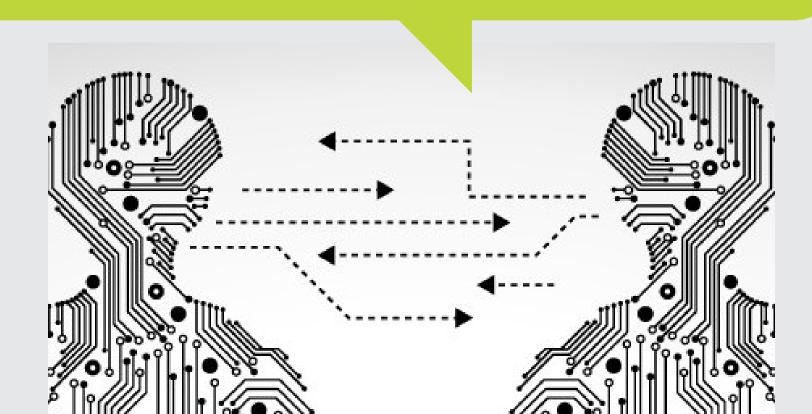


COMMAND + CONTROL



ENABLING BEHAVIOURS

SMART CITIES SOUND ALRIGHT, WHAT ABOUT SMART CITIZENS?

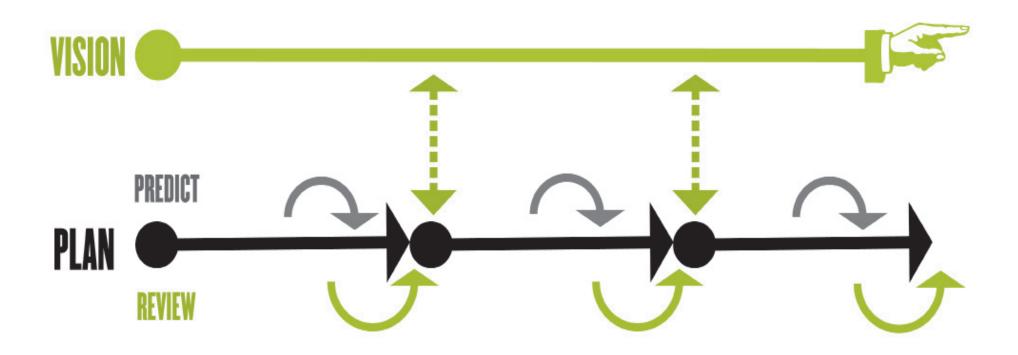


THE CHAORDIC PATH

CREATIVITY ORDER CHAMOS CONTROL RIGIOITY DISPAIR Sweet spot of generative energence

PREDICT AND PLAN



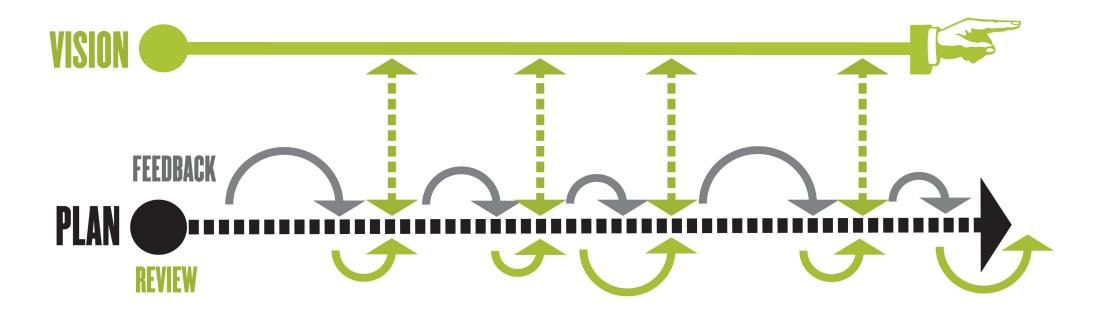


MANAGE THE PRESENT: THE PAST IS SPENT AND DONE THE FUTURE UNCERTAIN

Marcus Aurelius

CONTINUOUS FEEDBACK/REVIEW







MANY SMALL CHANGES



It is not the strongest species that survive, nor the most intelligent, but the ones most responsive to change.

- Charles Darwin

