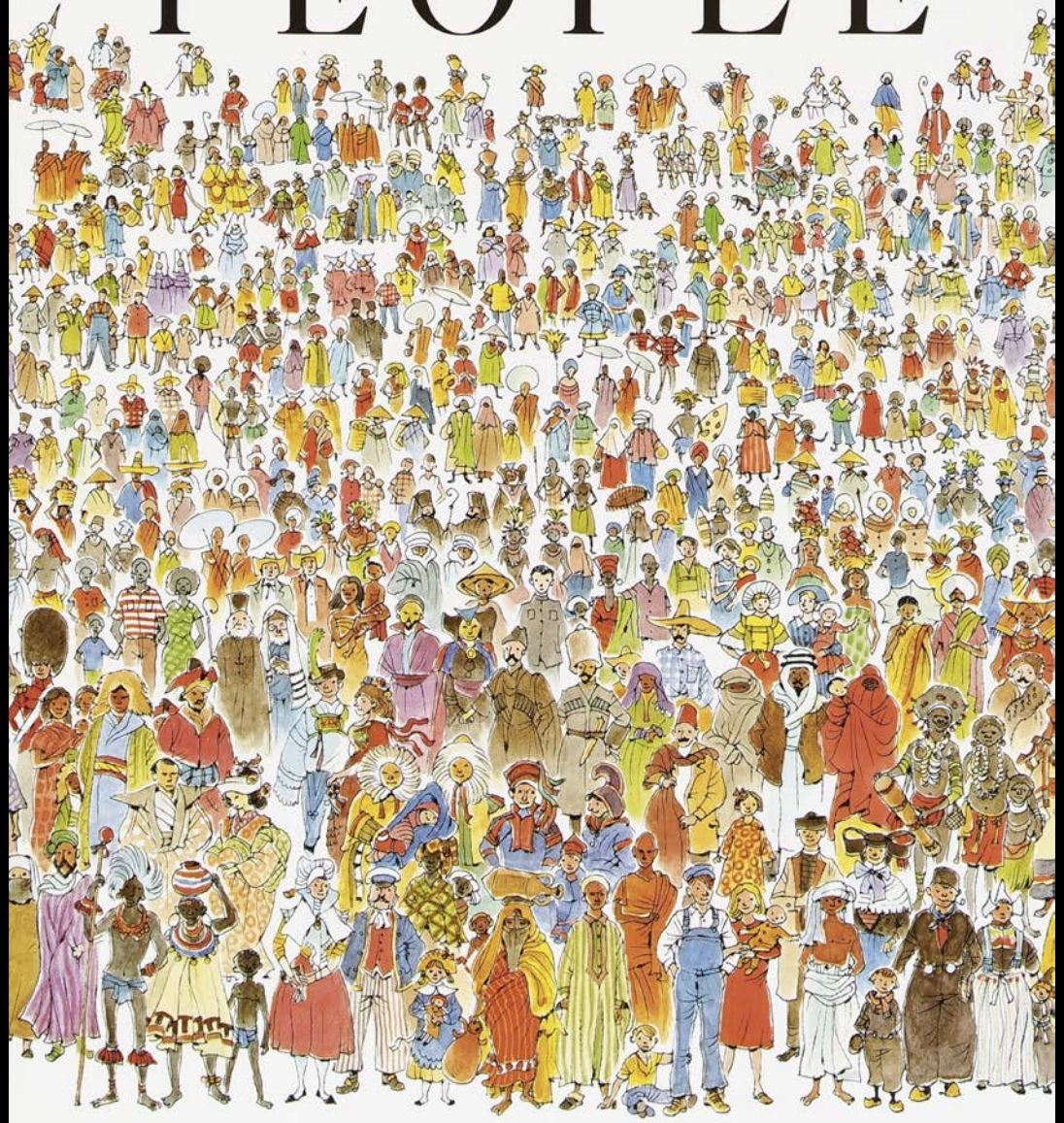
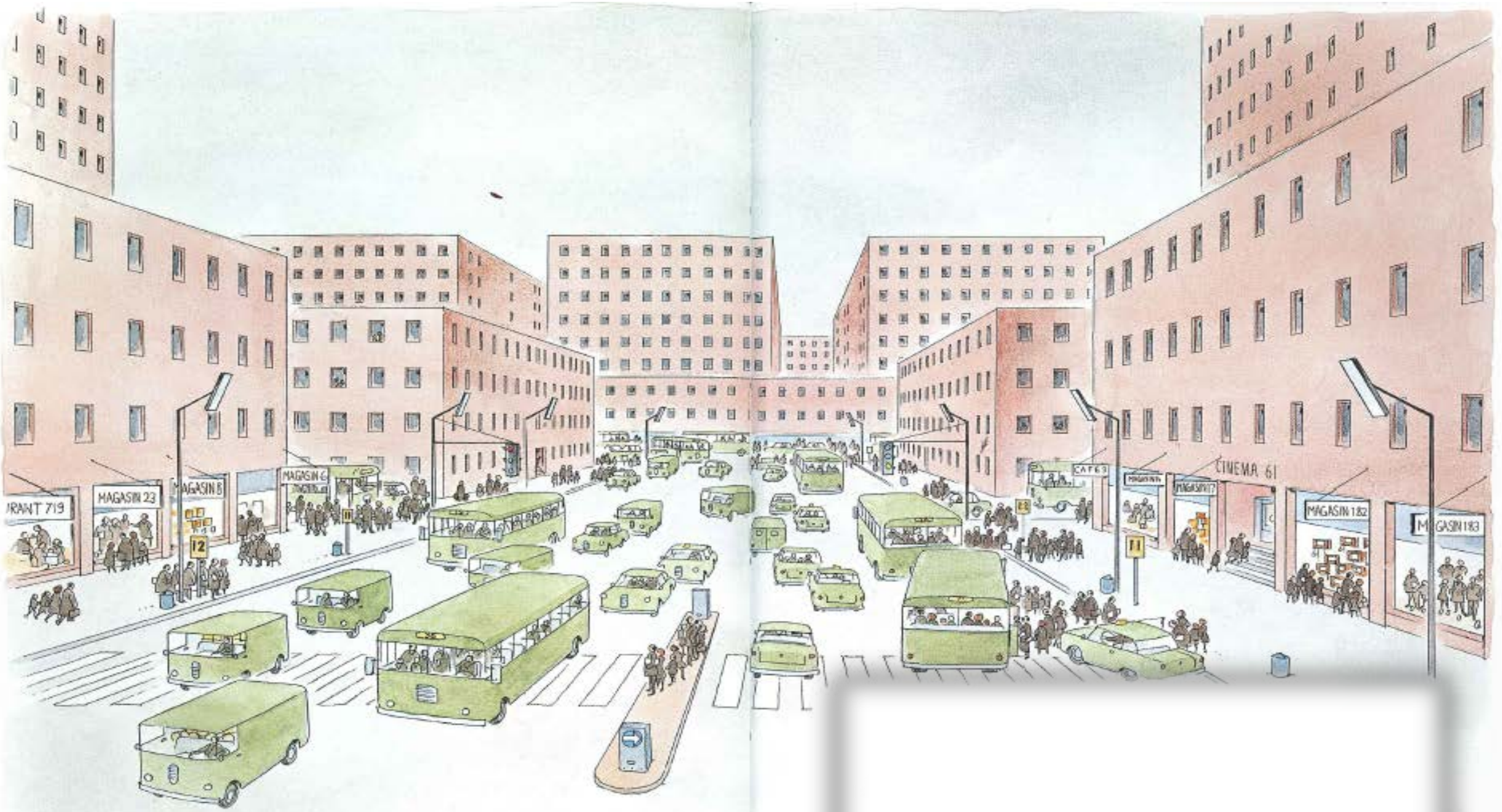
Institut des Futurs souhaitables

EMBRACING CITIES COMPLEXITY

PEOPLE



Written and illustrated by Peter Spier


MAGASIN 23
MAGASIN 8
MAGASIN 6
CAFÉ 3
CINEMA 61
MAGASIN 182
MAGASIN 183
12
11


SALON DE BEAUTE
ANTIQUES
CINEMA RIALTO
EMPORIUM
ODEON
BOOKS
RESTAURANT
NEWS
ART GALLERY


CITIES ARE
COMPLEX

AGENT BASED

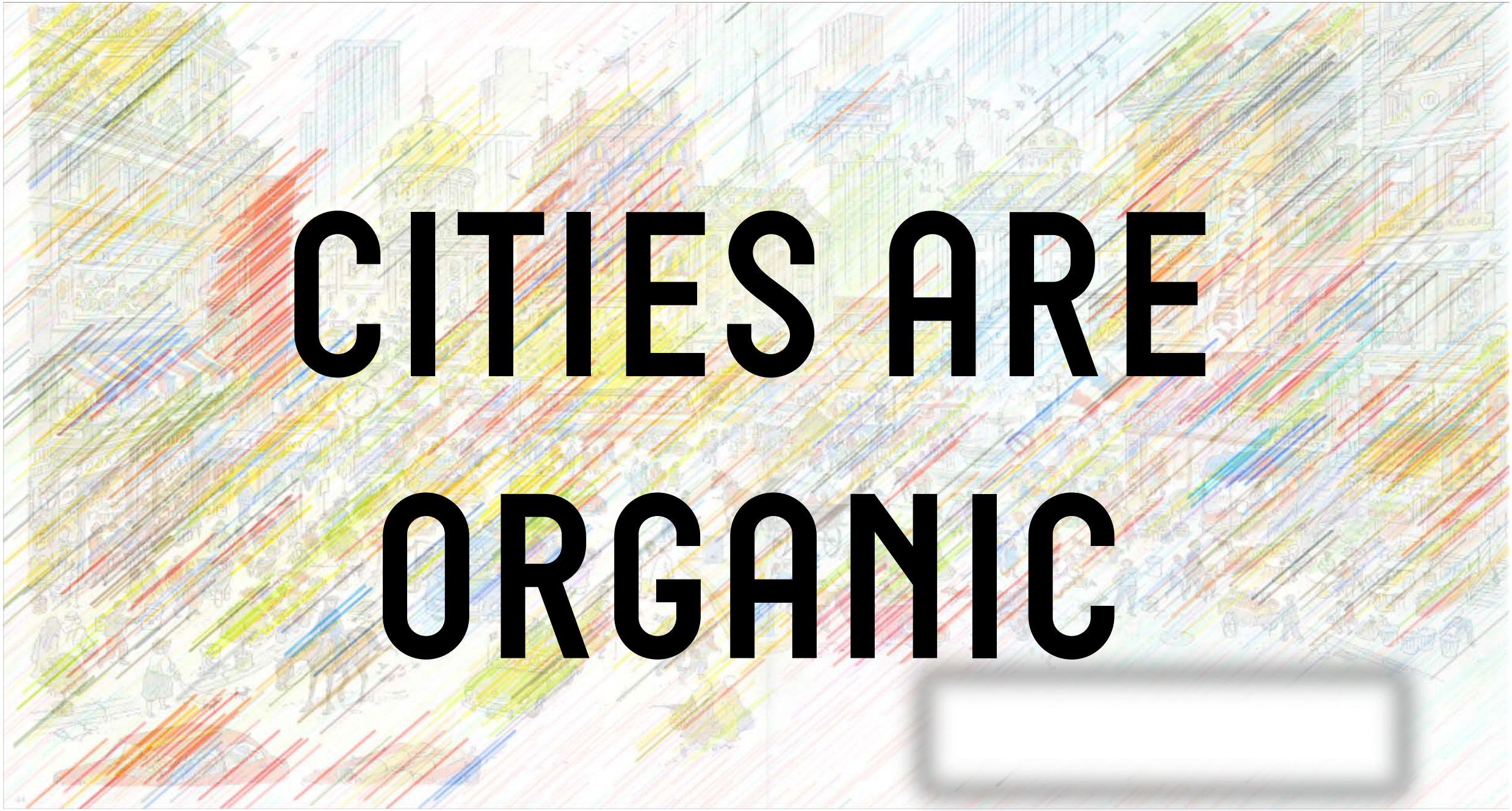
HETEROGENEOUS

DYNAMIC

FEEDBACK

ORGANIZATION

EMERGENCE


CITIES ARE
ORGANIC

Living systems are open self-organizing life forms that interact with their environment.

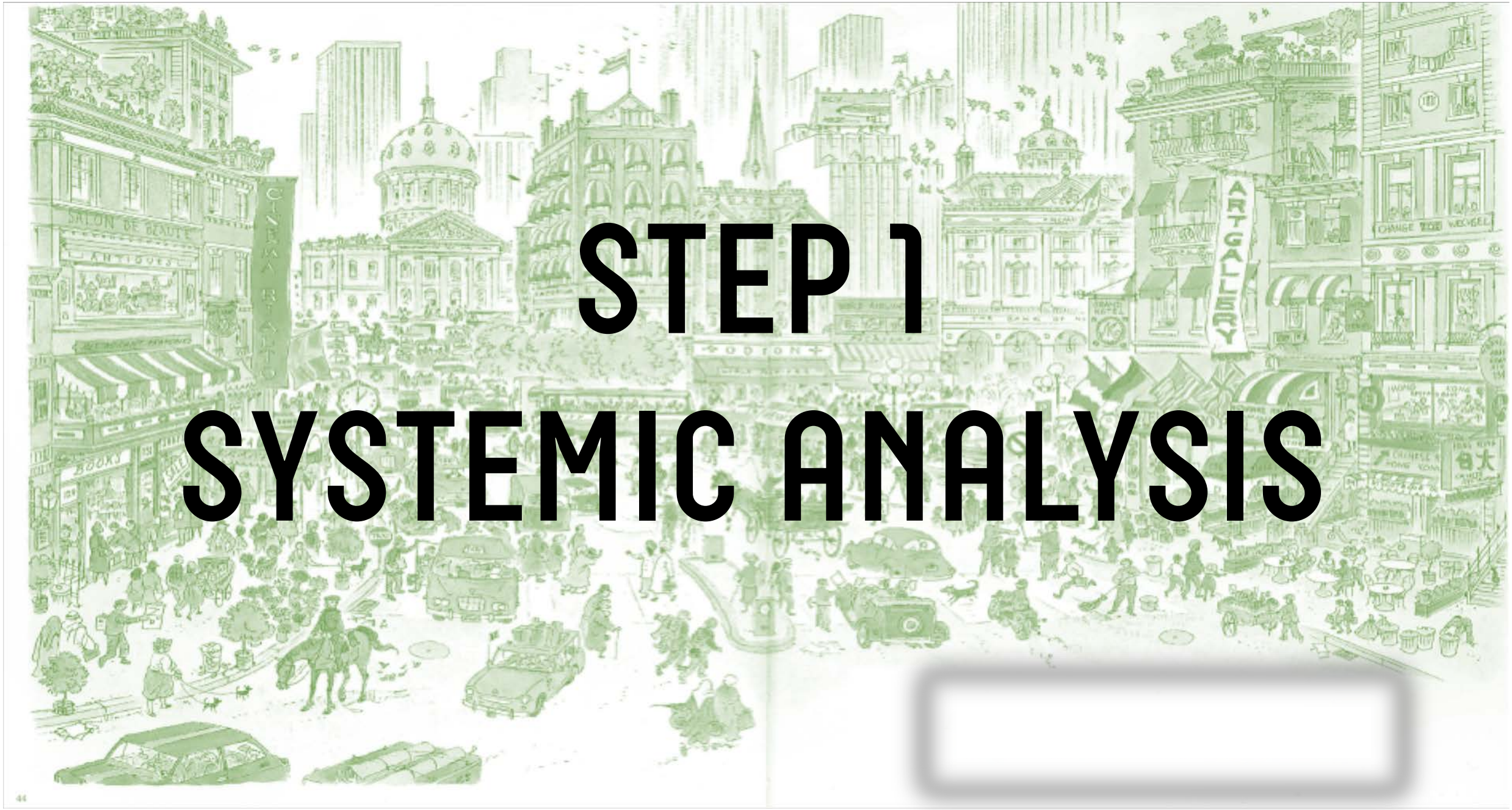
These systems are maintained by flows of information, energy and matter.

EDGAR MORIN

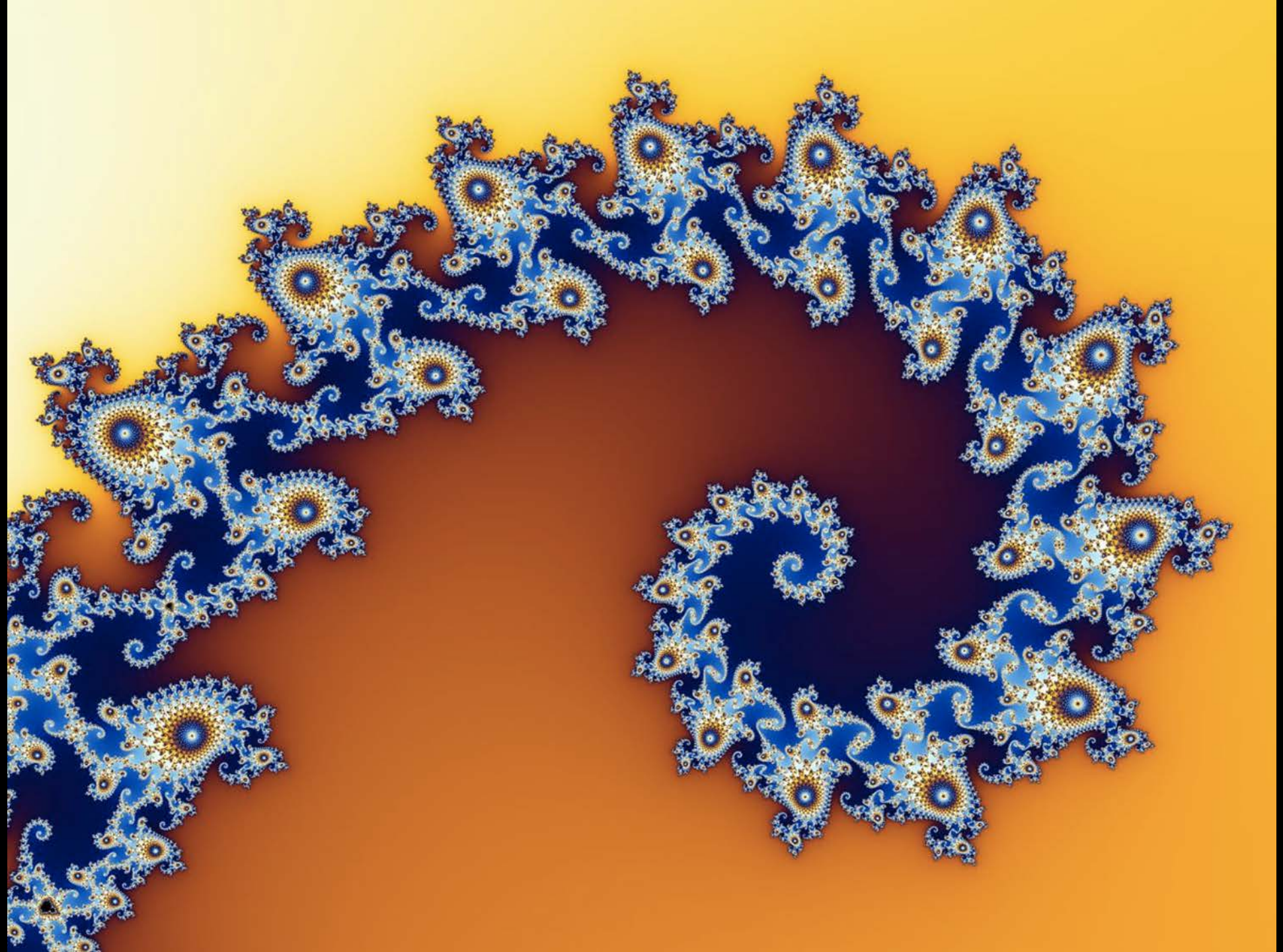
MARGARET MEAD

FRANCISCO VARELA

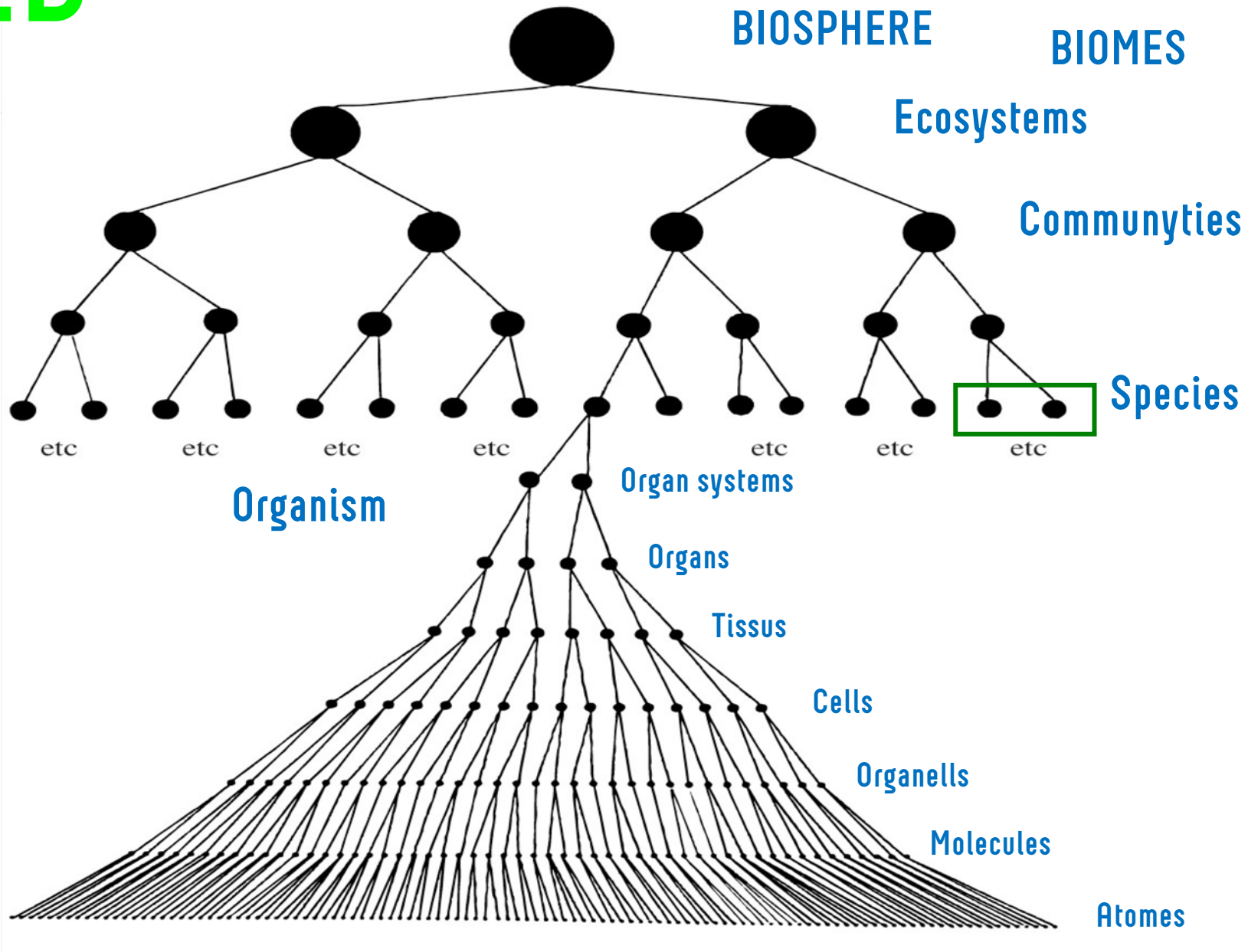
5 STEPS FOR A CITY ANALYSIS

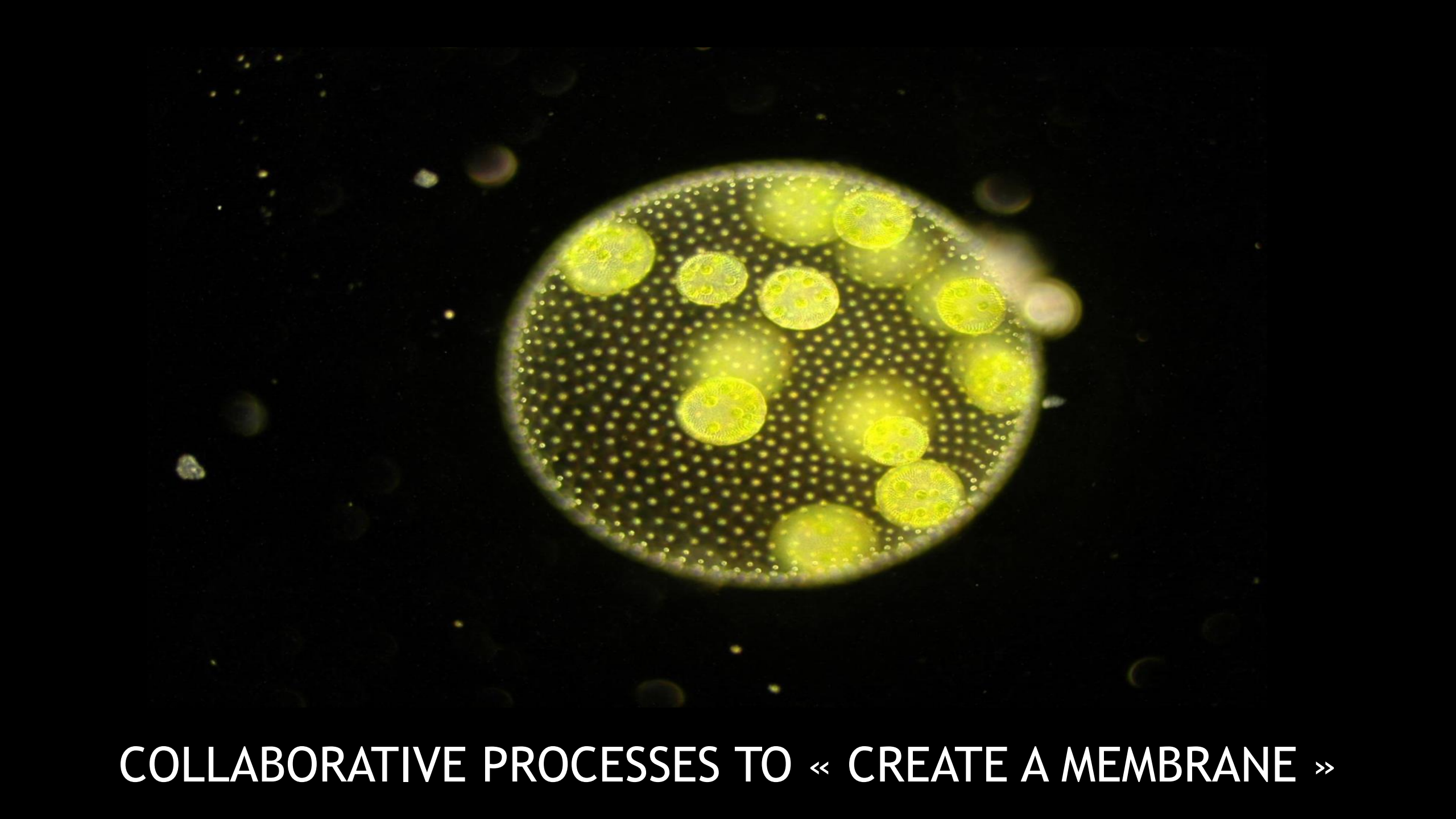


STEP 1
SYSTEMIC ANALYSIS

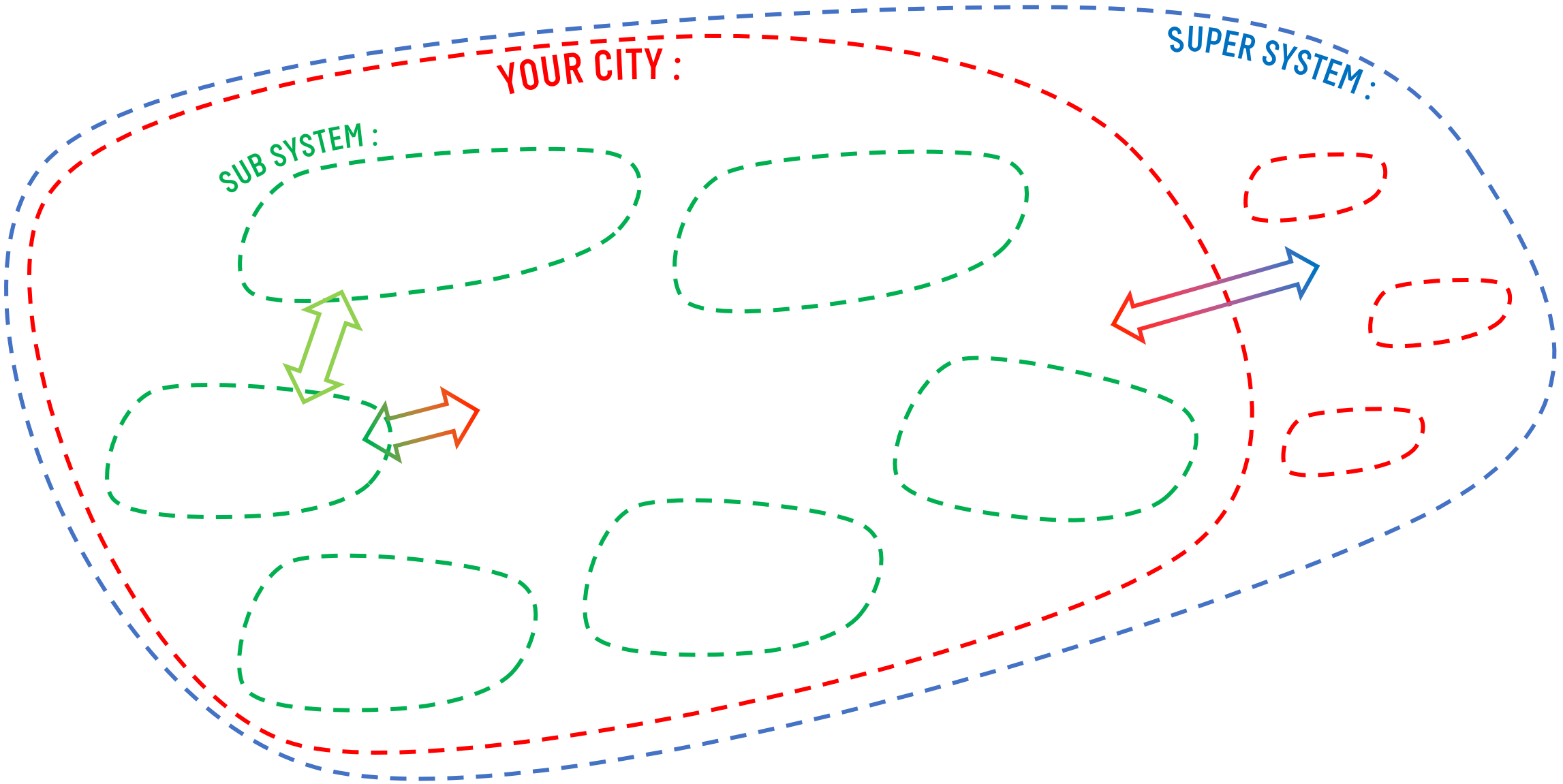


NESTED


BIOSPHERE
BIOMES
Ecosystems
Communyties
Species
etc
etc
etc
etc
etc
etc
etc
Organism
Organ systems
Organs
Tissus
Cells
Organells
Molecules
Atomes



COLLABORATIVE PROCESSES TO « CREATE A MEMBRANE »

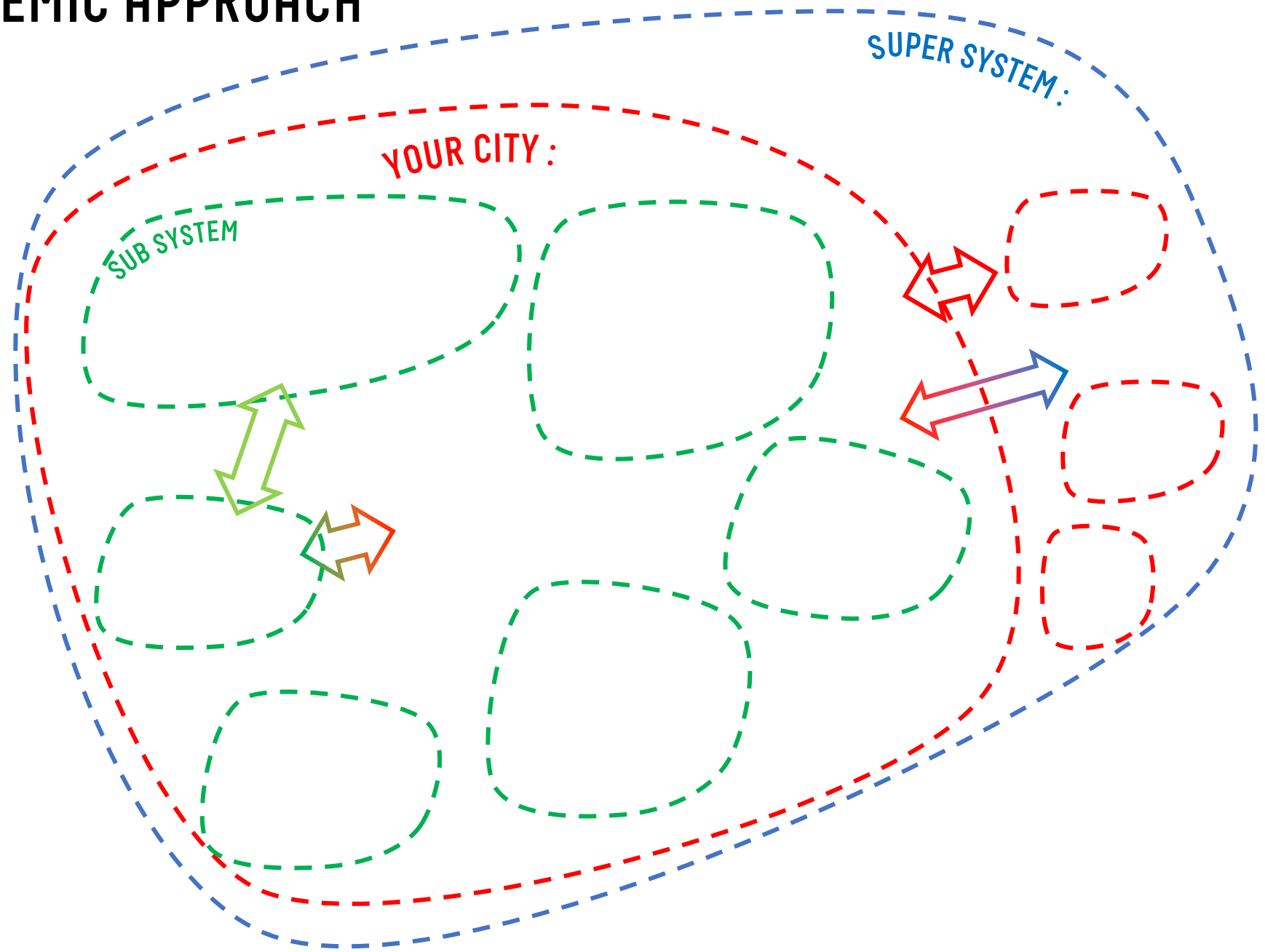


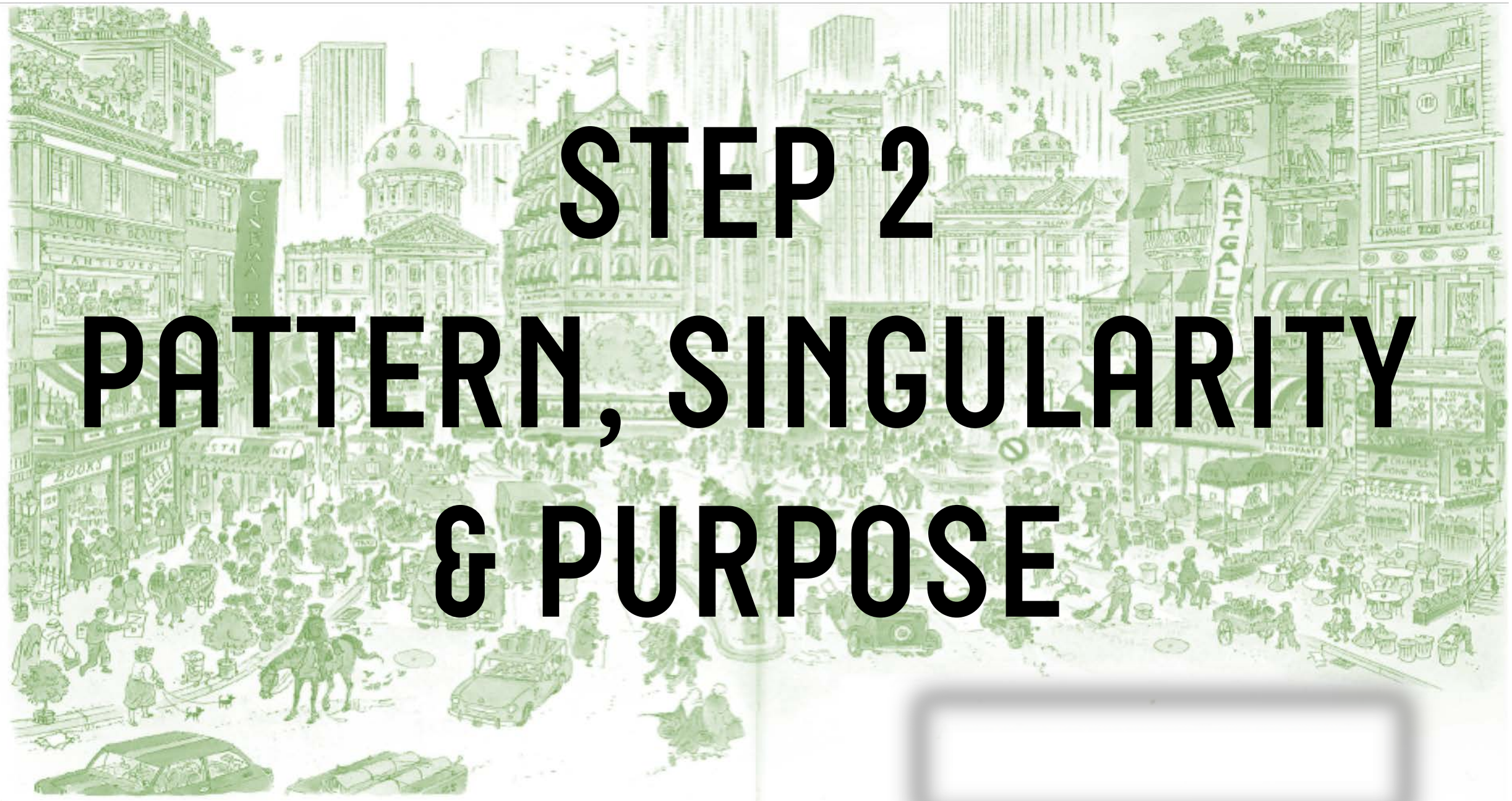

MUMBAI

SHANGHAI

STEP 1 - SYSTEMIC APPROACH

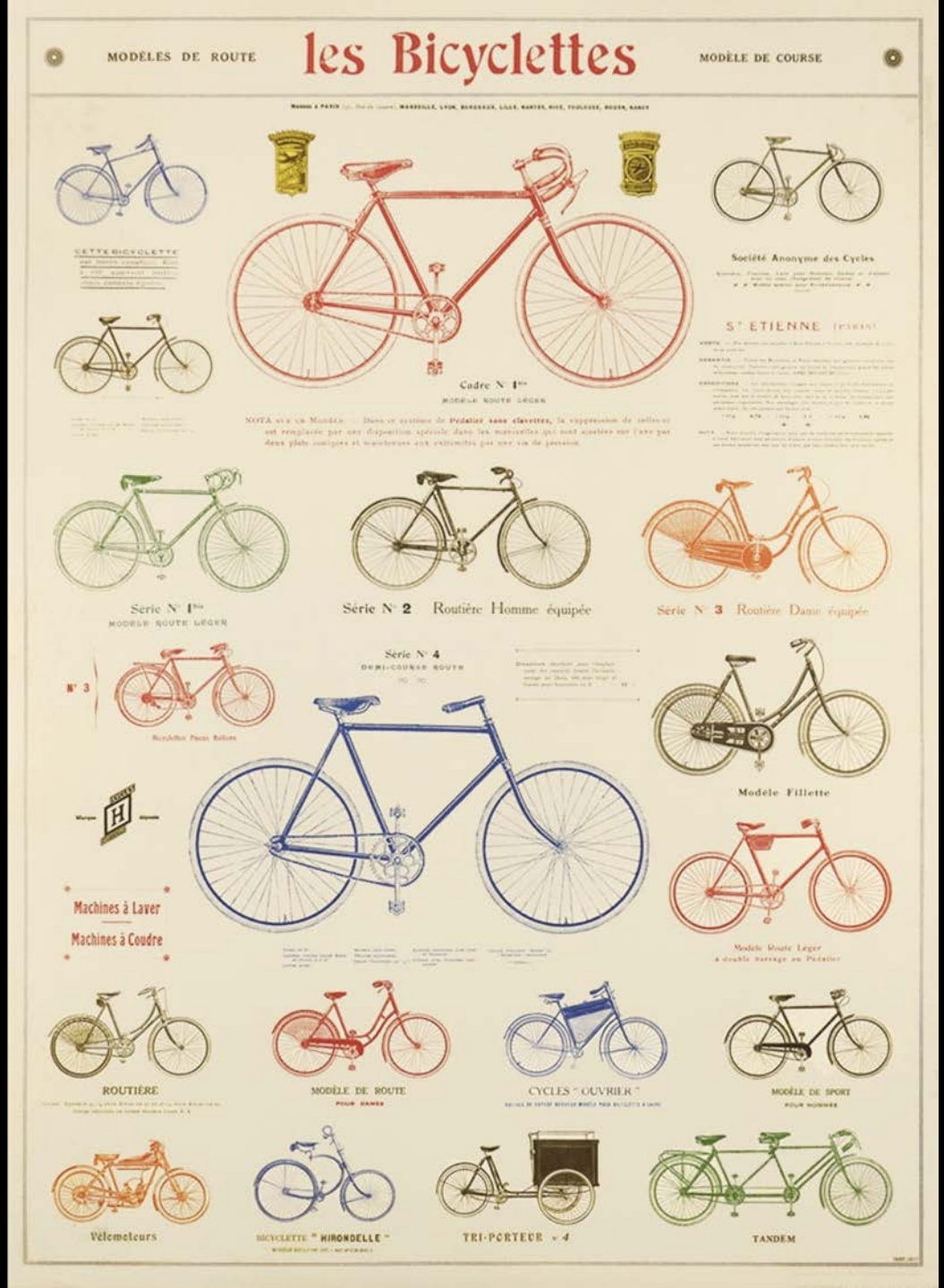
YOUR CITY :





STEP 2
PATTERN, SINGULARITY & PURPOSE

PATTERNS


MODÈLES DE ROUTE
les Bicyclettes
MODÈLE DE COURSE
Société Anonyme des Cycles
S^t ETIENNE
Cadre N° 1^bis
MODÈLE ROUTE LÉGER
Série N° 1^bis
MODÈLE ROUTE LÉGER
Série N° 2 Routière Homme équipée
Série N° 3 Routière Dame équipée
Série N° 4
DEMI-COURSE ROUTE
N° 3
Modèle Fillette
Machines à Laver
Machines à Coudre
ROUTIÈRE
MODÈLE DE ROUTE
CYCLES " OUVRIER "
MODÈLE DE SPORT
Vélomoteurs
BICYCLETTE " HIRONDELLE "
TRI-PORTEUR N° 4
TANDEM

SINGULARITY

SINGULARITY

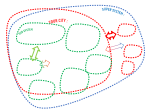
PURPOSE :

REVEAL WHAT IS ALIVE !


DAR ES SALAAM

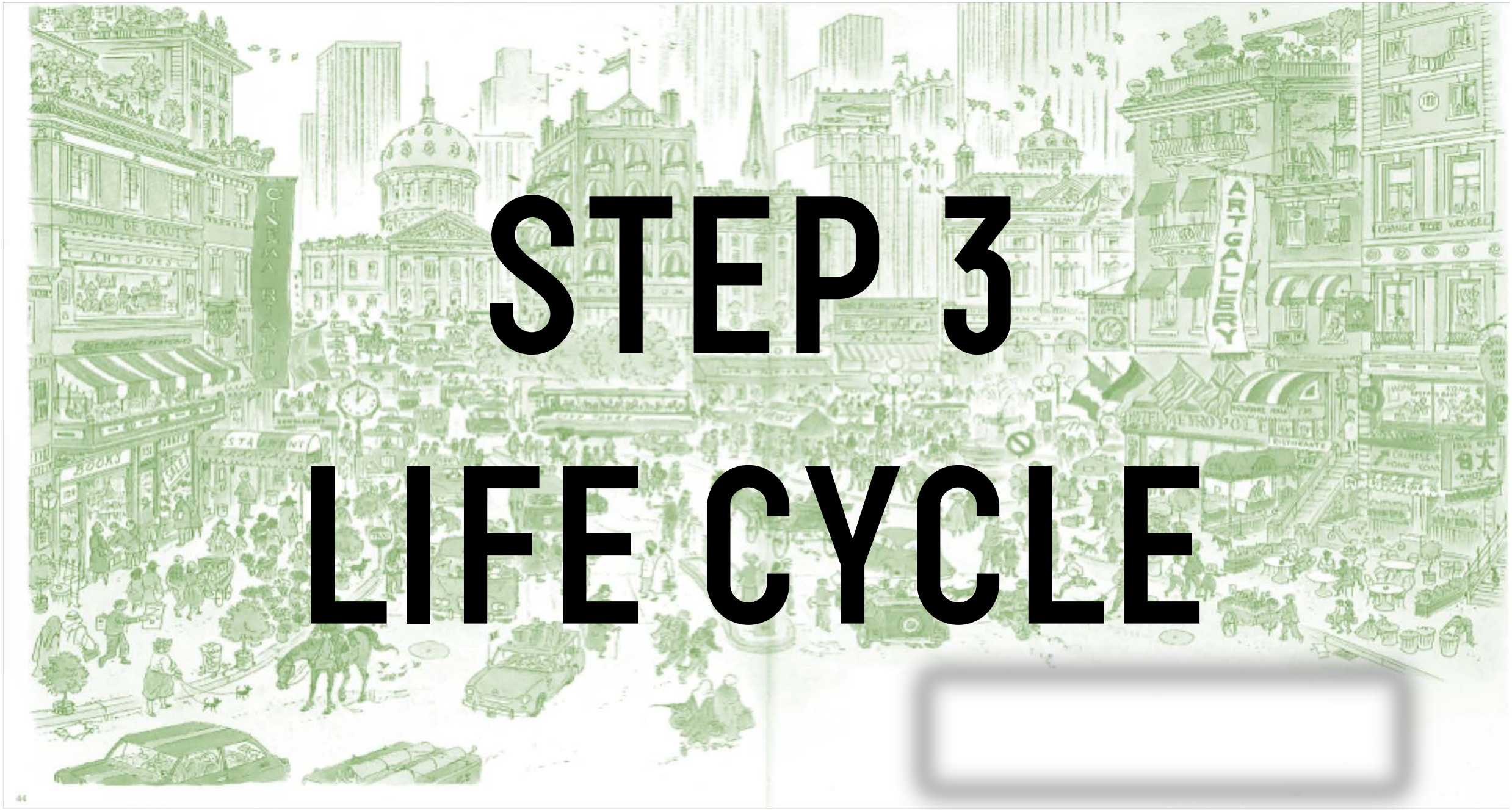
STEP 2 - PATTERN, SINGULARITY & PURPOSE

YOUR CITY :

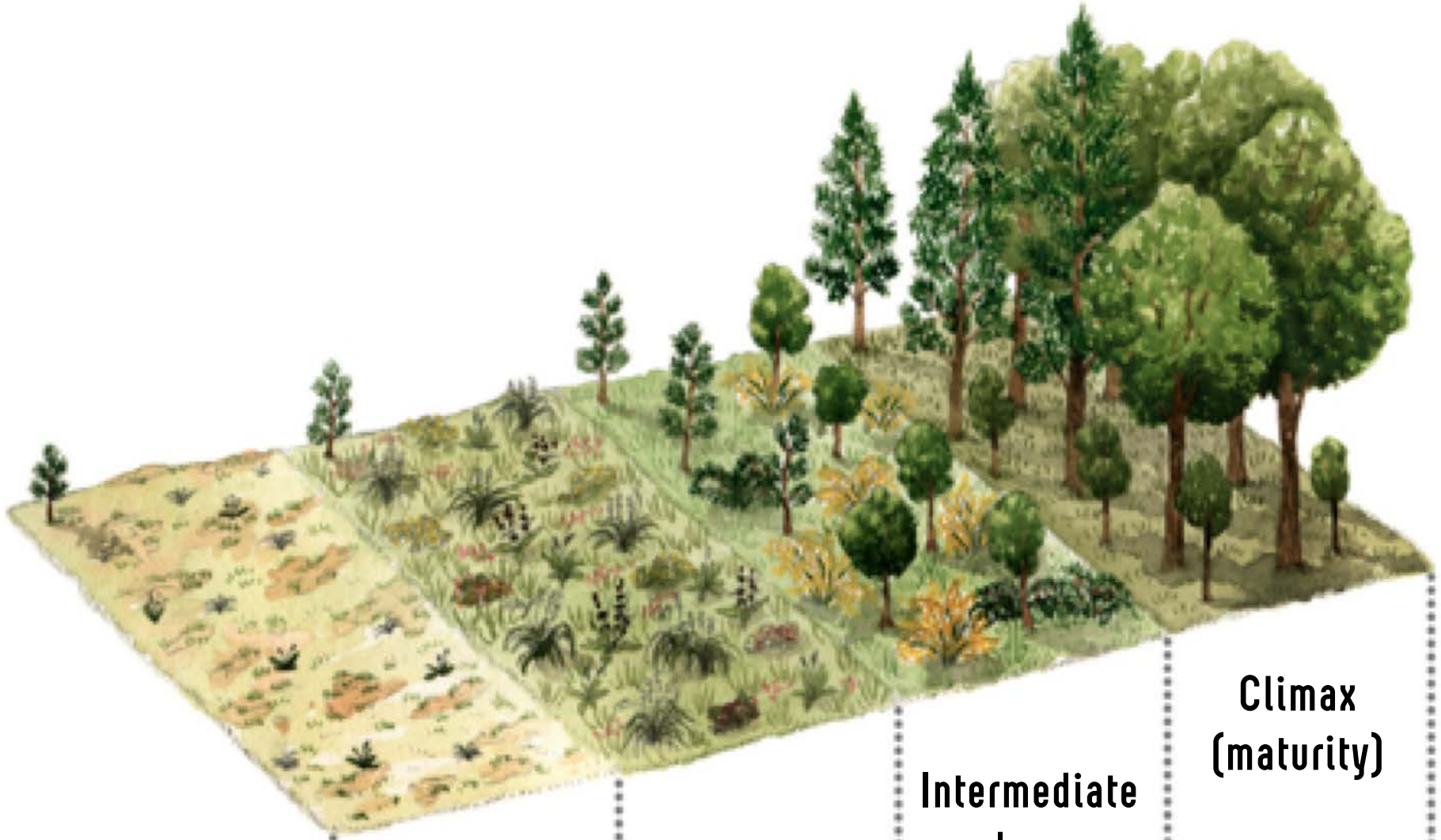


ELEMENTS	PATTERN	SINGULARITY	PURPOSE

EMBRACING CITIES COMPLEXITY



STEP 3
LIFE CYCLE



Pioneer Phase (initiation)

Intermediate phase

Intermediate phase

Climax (maturity)

Crisis

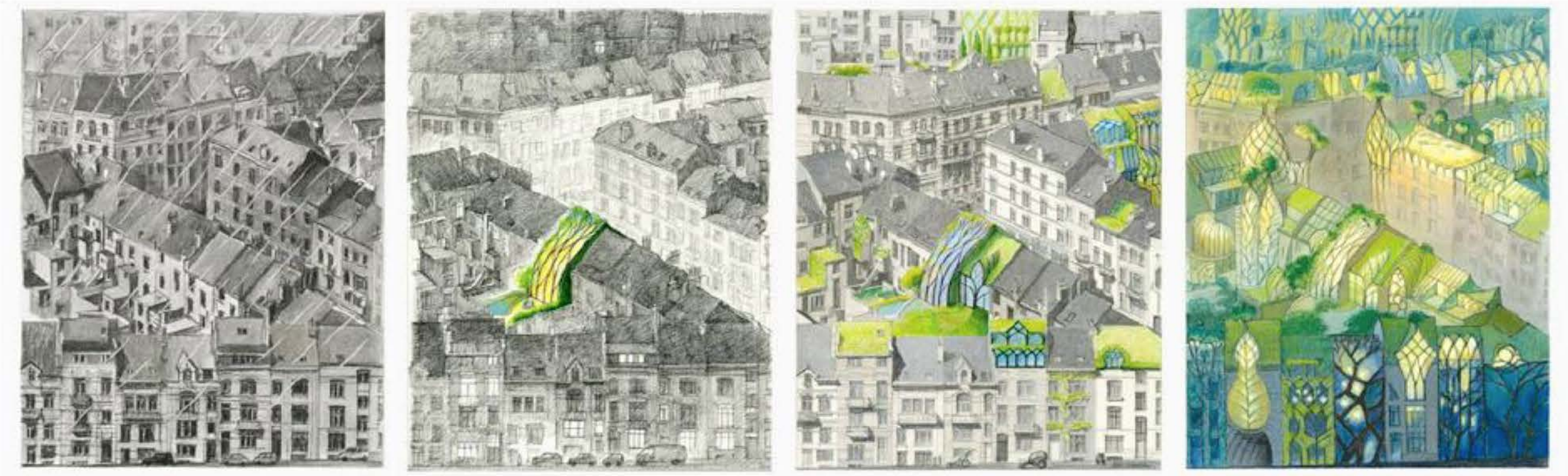
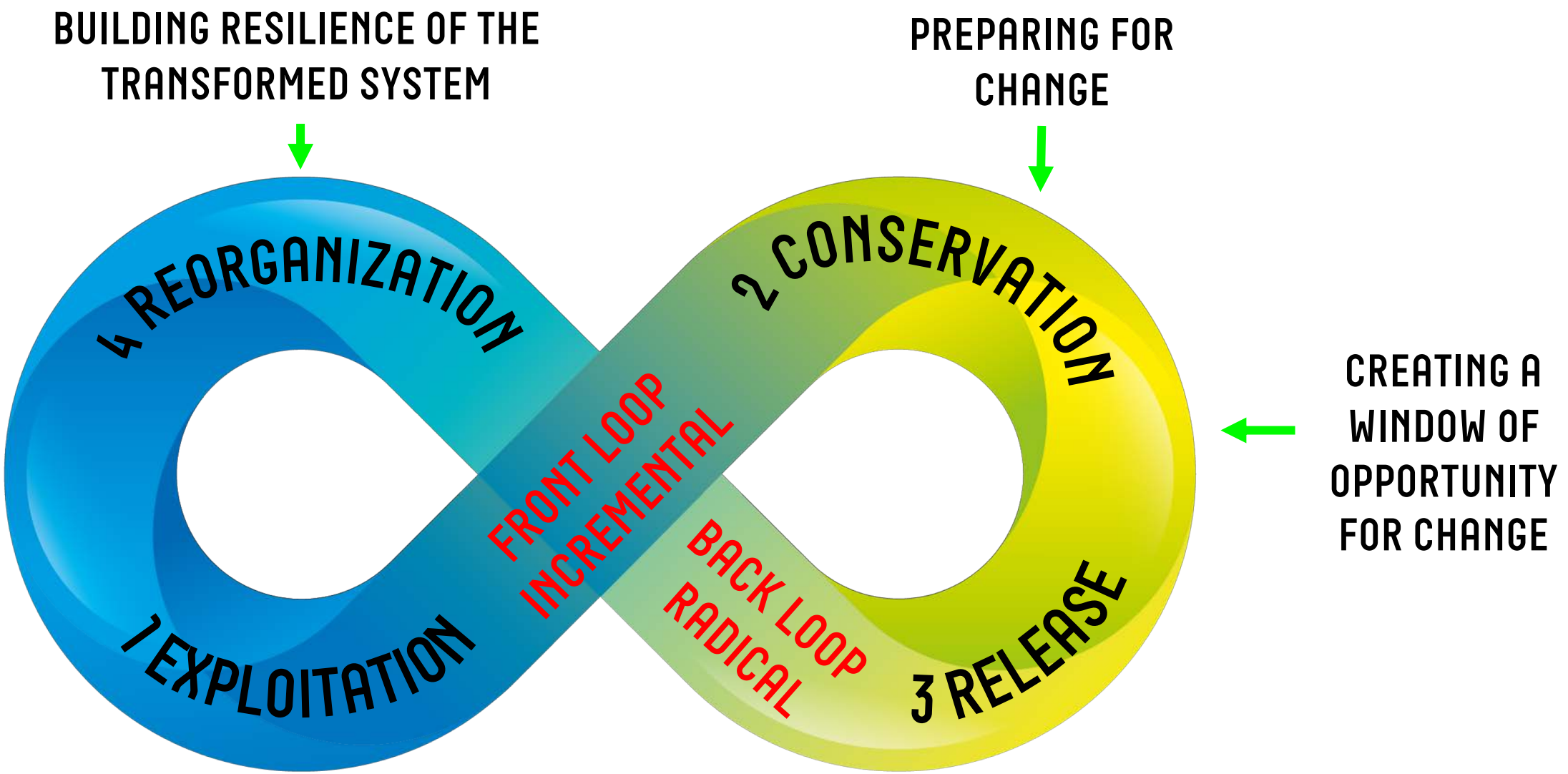


Figure 11: Renaturalisation de la ville à travers le temps. SOURCE : vegetal city, Luc Schuiten



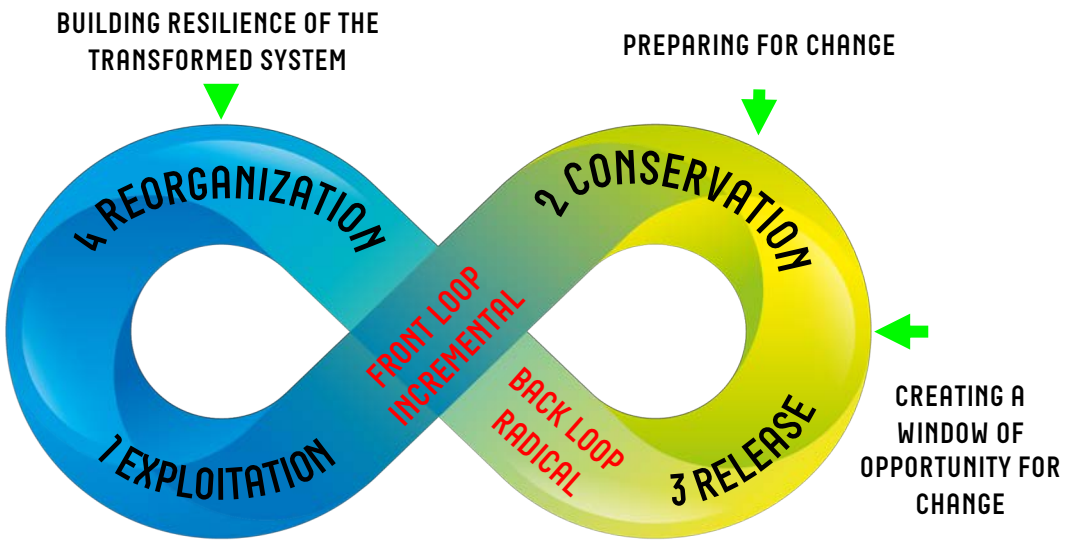
HOLLING ET AL 2004


DETROIT


REBIRTH
OF
DETROIT
313

STEP 3 - LIFE CYCLE PHASE

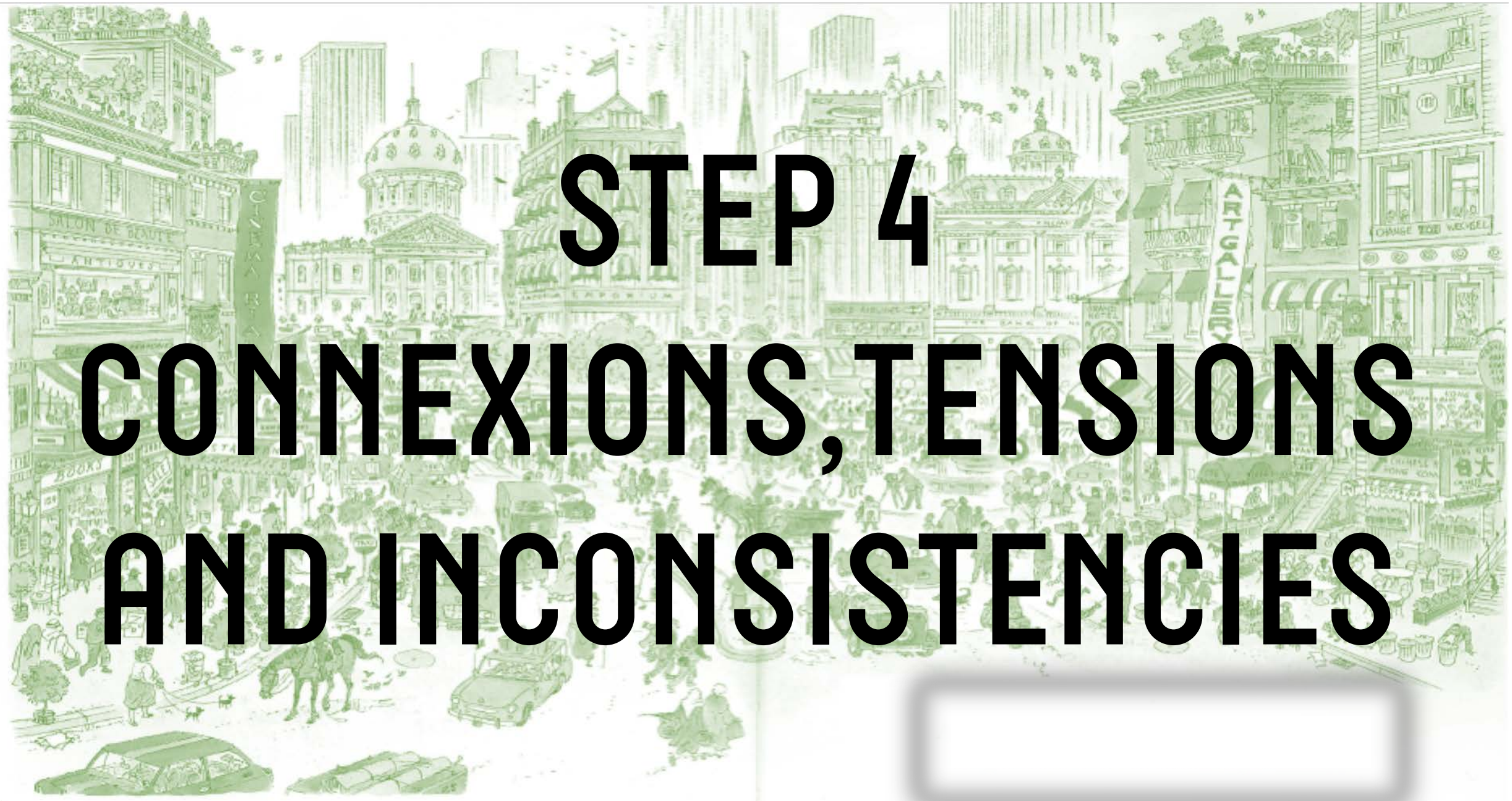
YOUR CITY :



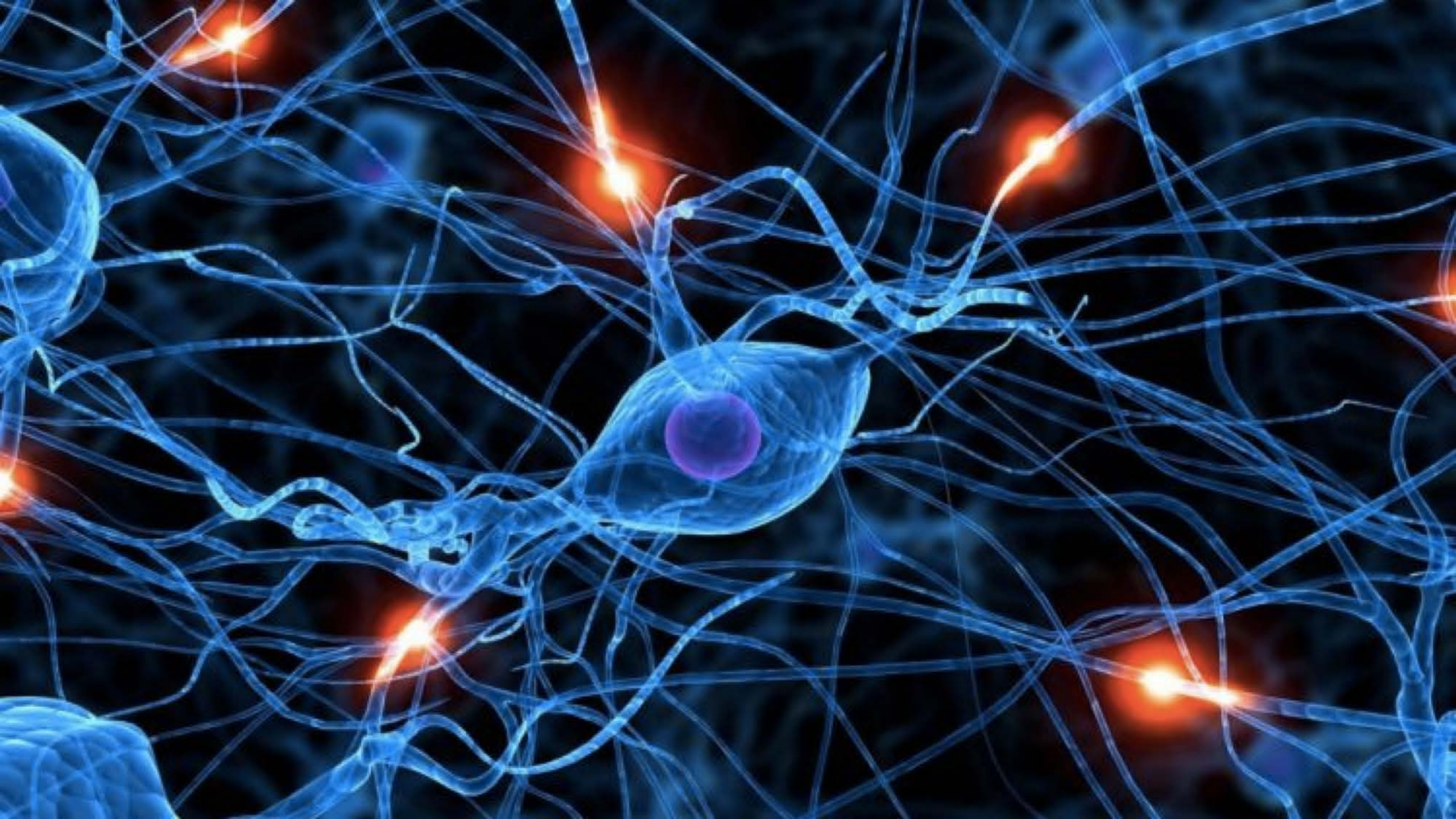
ELEMENTS	PHASE

EMBRACING CITIES COMPLEXITY

SB PARIS APRIL 23-25 2019



STEP 4
CONNEXIONS, TENSIONS AND INCONSISTENCIES

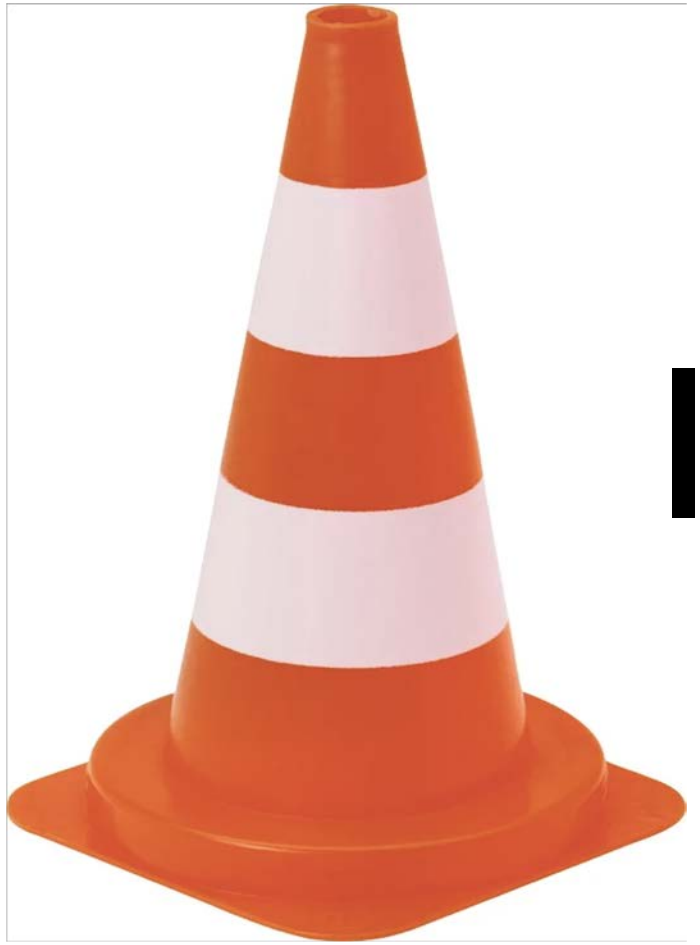


The fundamental characteristic of a complex system is that it exhibits emergent properties :

Local Interaction rules between simple agents give rise to global behaviors


FRANKFURT


keine
Parkplätze
vorhanden



INCONSISTENCIES


MONTREAL

STEP 4 - CONNEXIONS, TENSIONS AND INCONSISTENCIES

YOUR CITY :

EMBRACING CITIES COMPLEXITY

SB PARIS APRIL 23-25 2019

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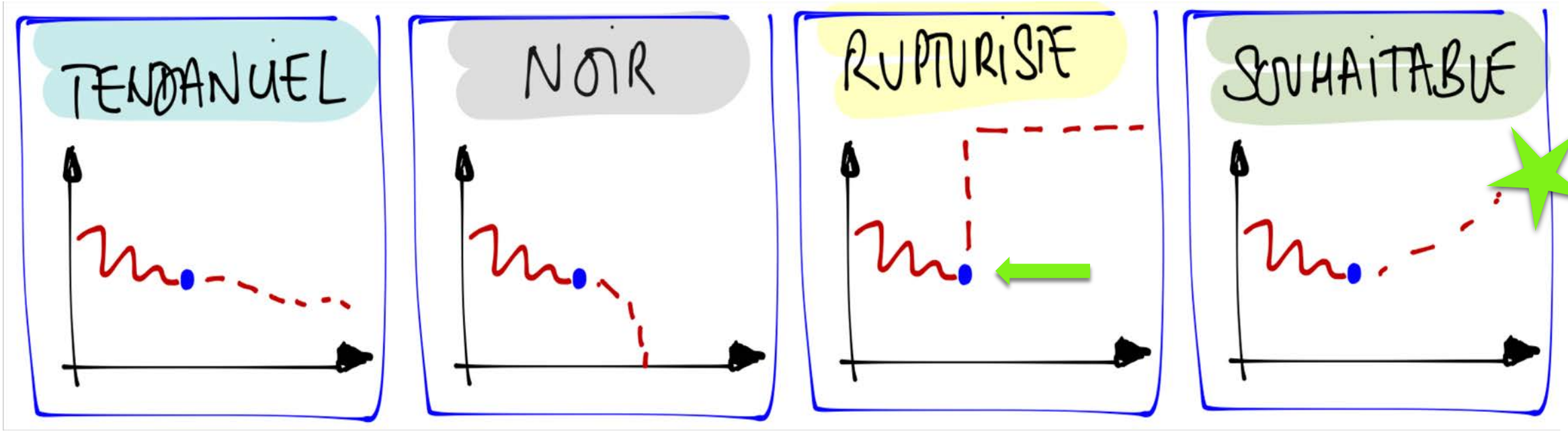
STEP 5
DESIRABLE FUTURE

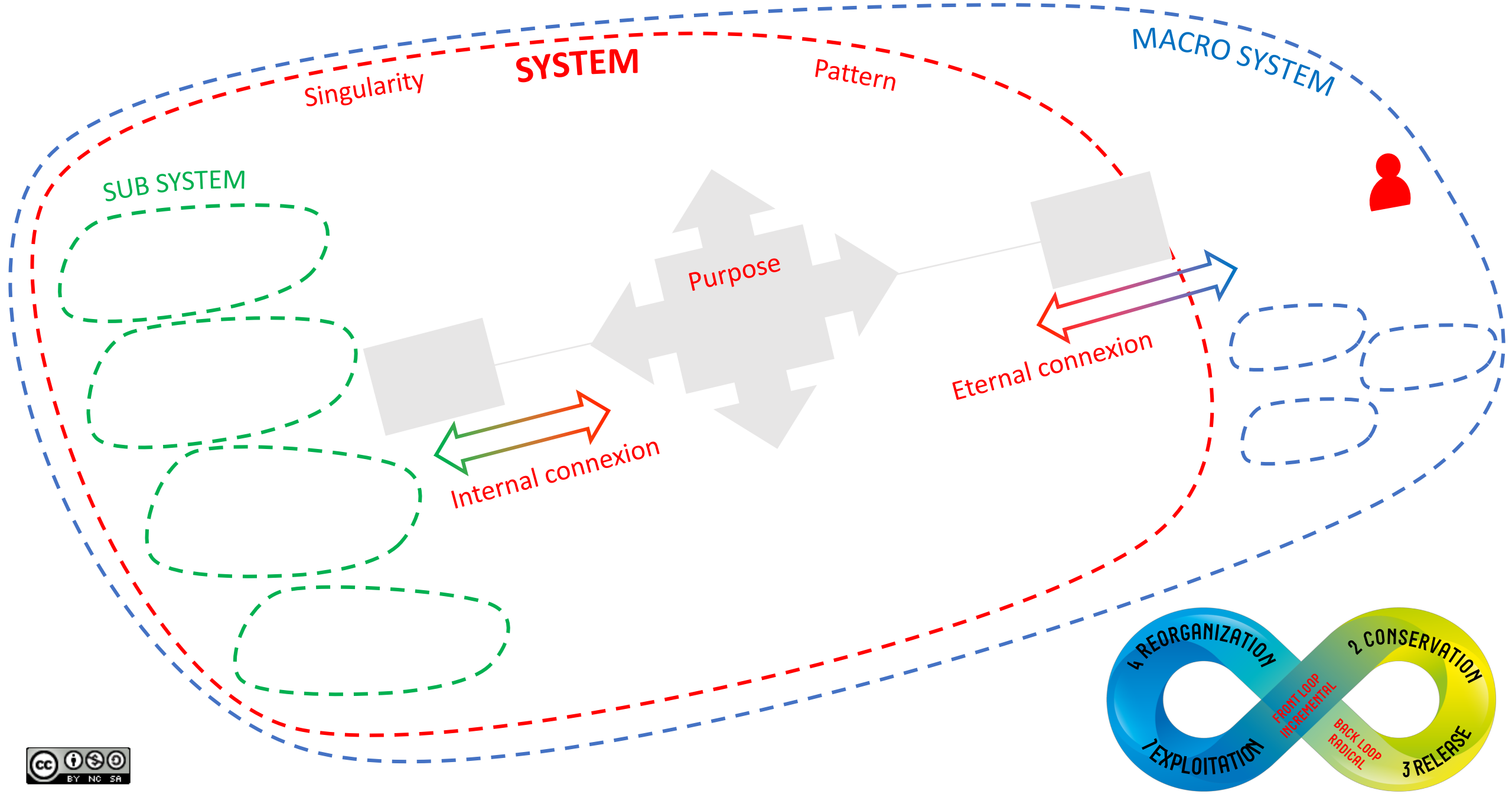


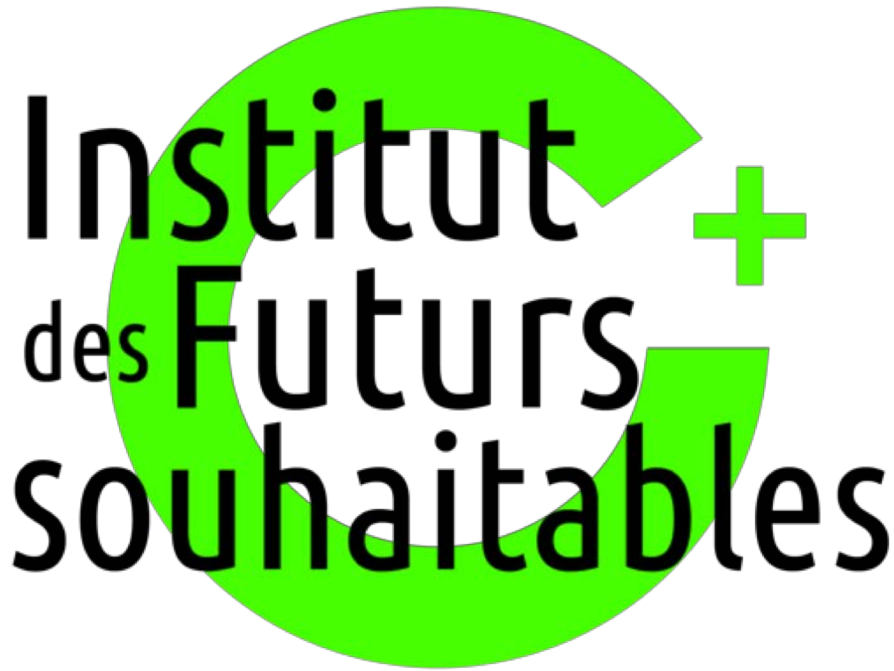
TREND COLLAPSE DISRUPTION DESIRABLE

TURN YOUR DREAMS INTO A STRATEGY


PARIS

CONCLUSION


SYSTEM
Singularity
Pattern
MACRO SYSTEM
SUB SYSTEM
Purpose
Internal connexion
Eternal connexion
4 REORGANIZATION
2 CONSERVATION
1 EXPLOITATION
3 RELEASE
FRONT LOOP INCREMENTAL
BACK LOOP RADICAL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