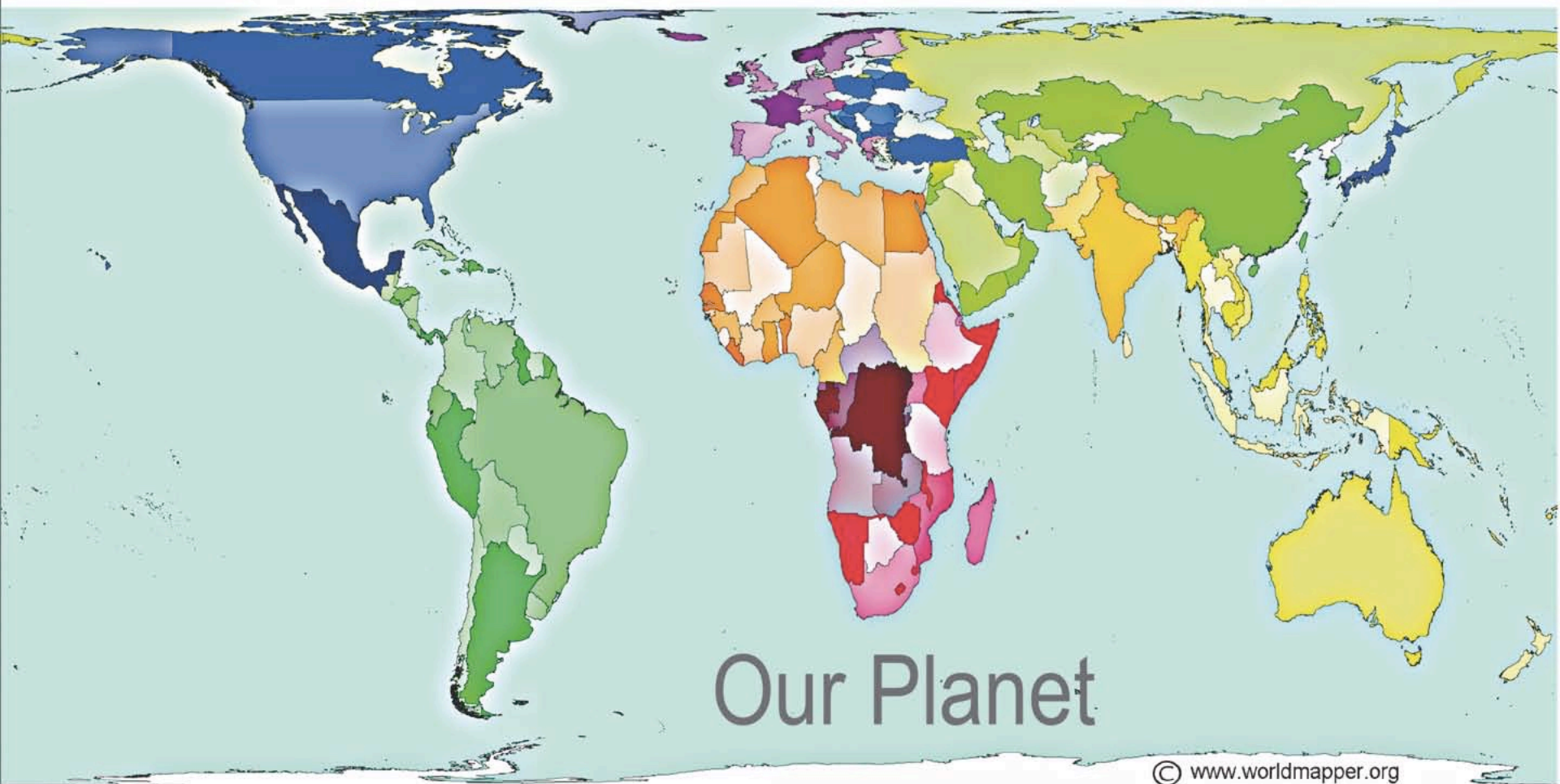


SYSTEMIC DESIGN

the amount of relations
generates
a new economic-productive model

research group on Systemic Design, Politecnico di Torino

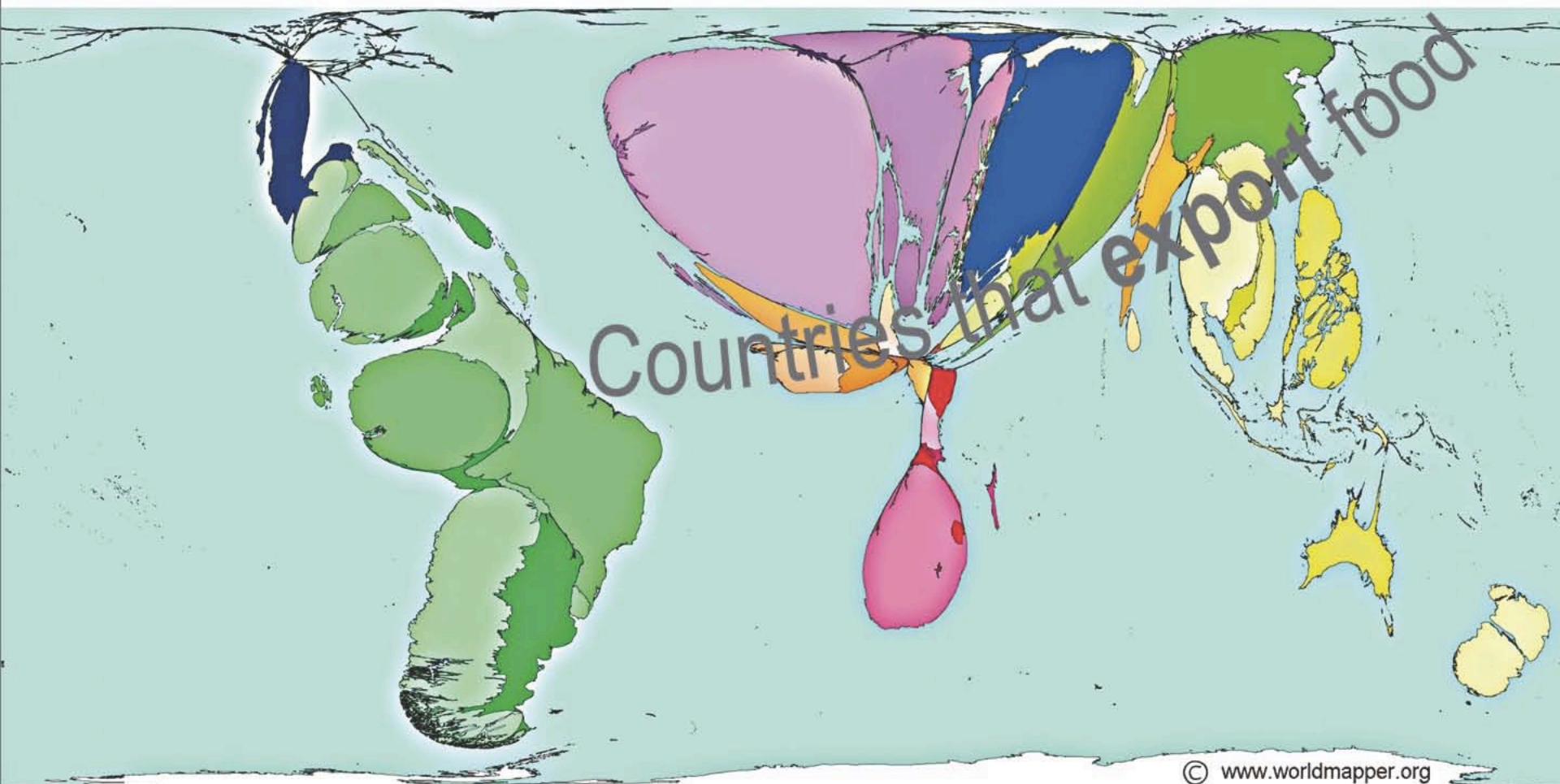
Luigi Bistagnino



© www.worldmapper.org



© www.worldmapper.org



© www.worldmapper.org

SYSTEMIC APPROACH

NEW WAY
to ACT

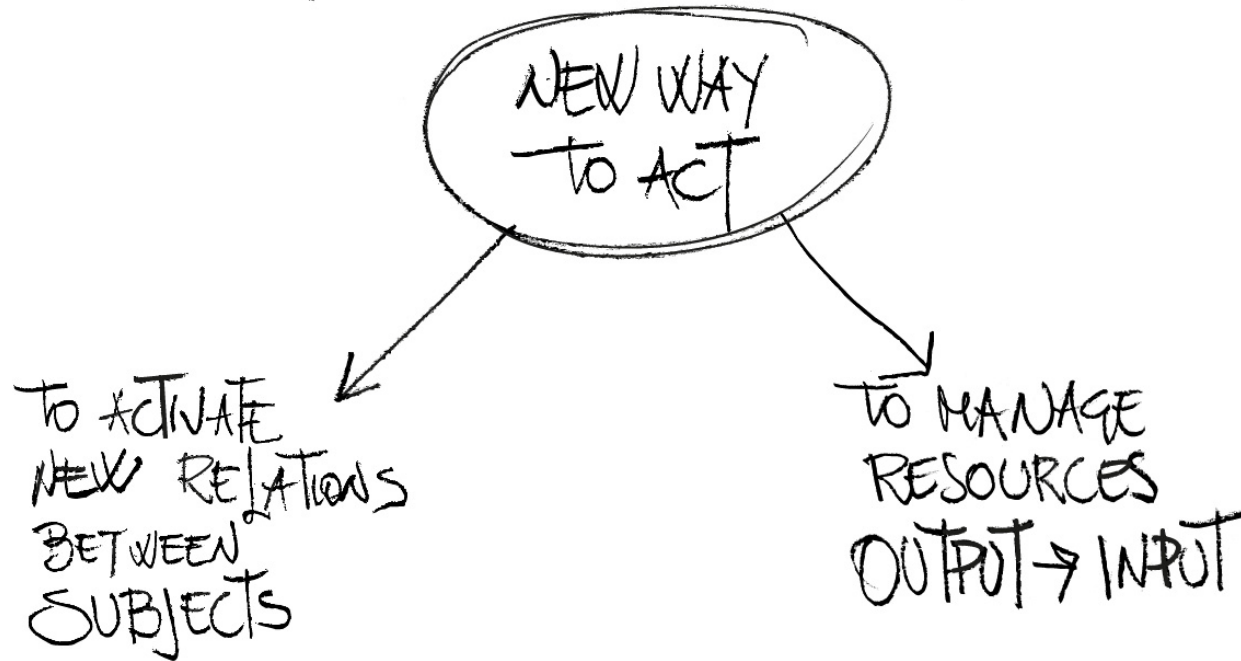
SYSTEMIC APPROACH



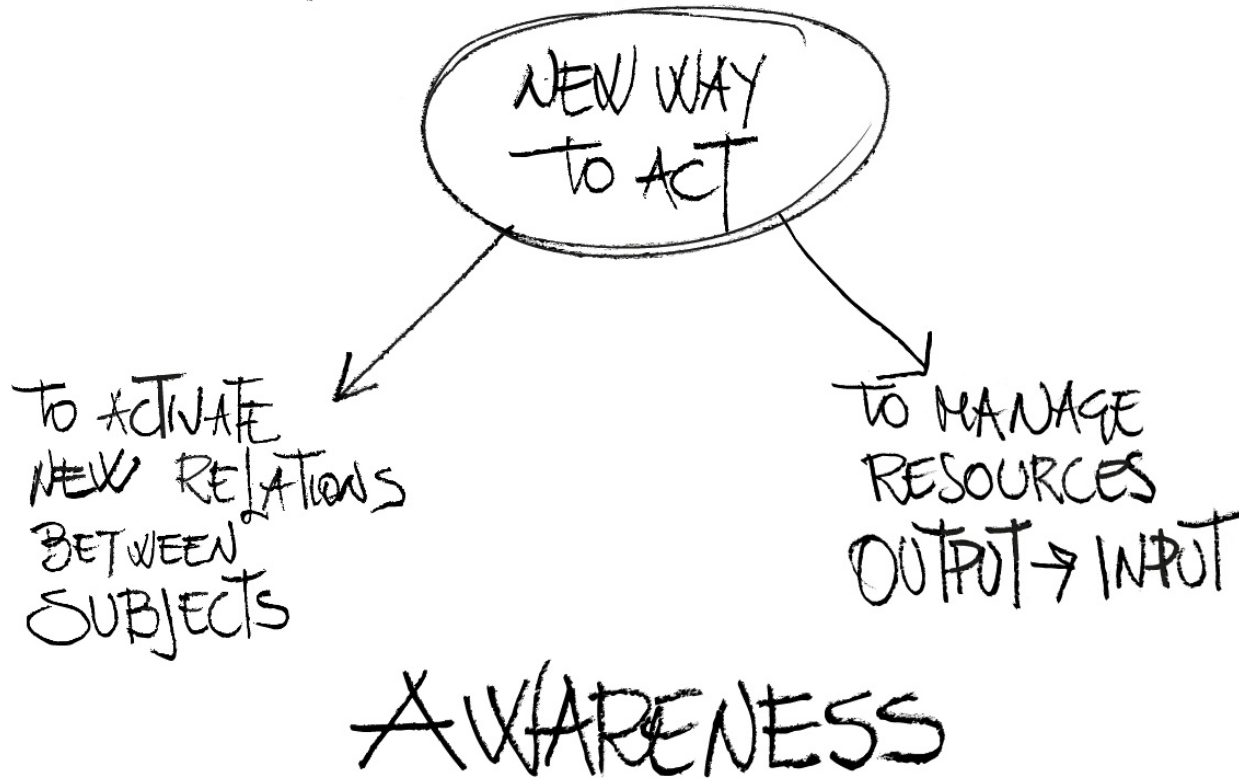
SYSTEMIC APPROACH



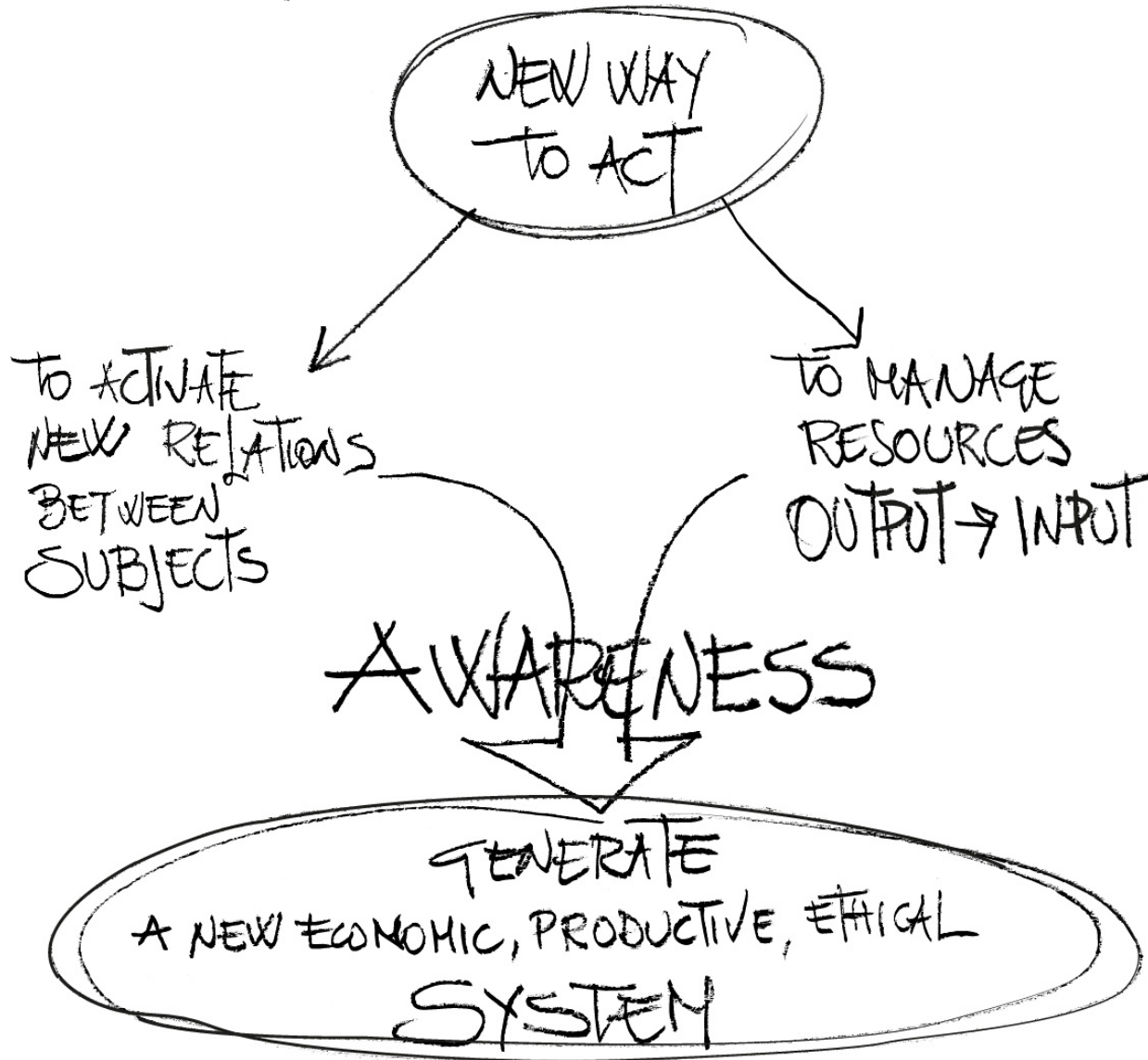
SYSTEMIC APPROACH



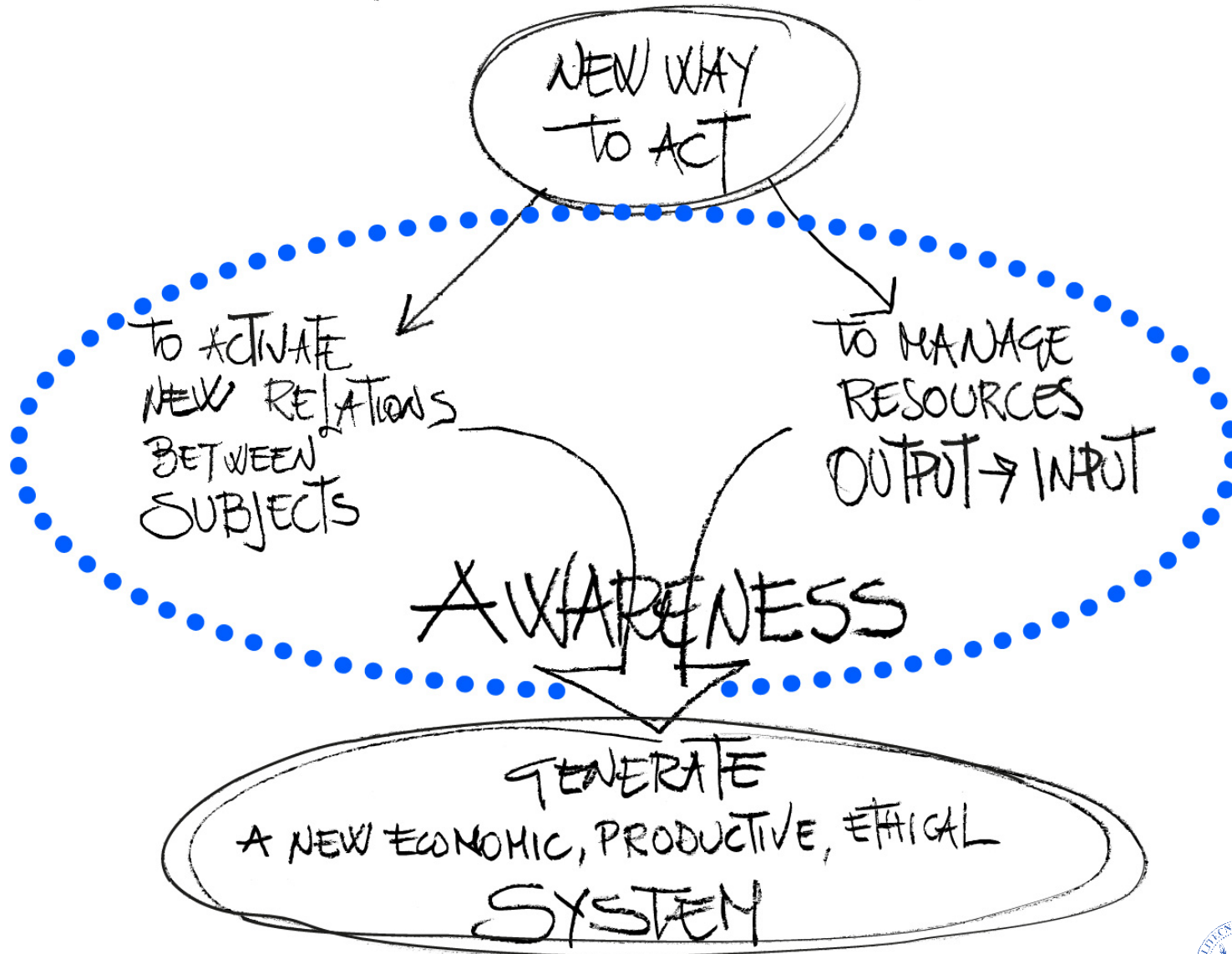
SYSTEMIC APPROACH



SYSTEMIC APPROACH



SYSTEMIC APPROACH



territorial potentialities

www.systemicfoundation.org

CONTESTO - VAL CHISONE

CHISONE VALLEY - RESEARCH FIELD

SUPERFICIE
surface

103.100 ha



2.035 m s.l.m.

248 m s.l.m.

ALTITUDINE
altitude



14

COMUNI
municipalities



54.474

ABITANTI
citizens



RELAZIONI RELATIONS

16 primarie
attività analizzate
analyzed activities

secondarie

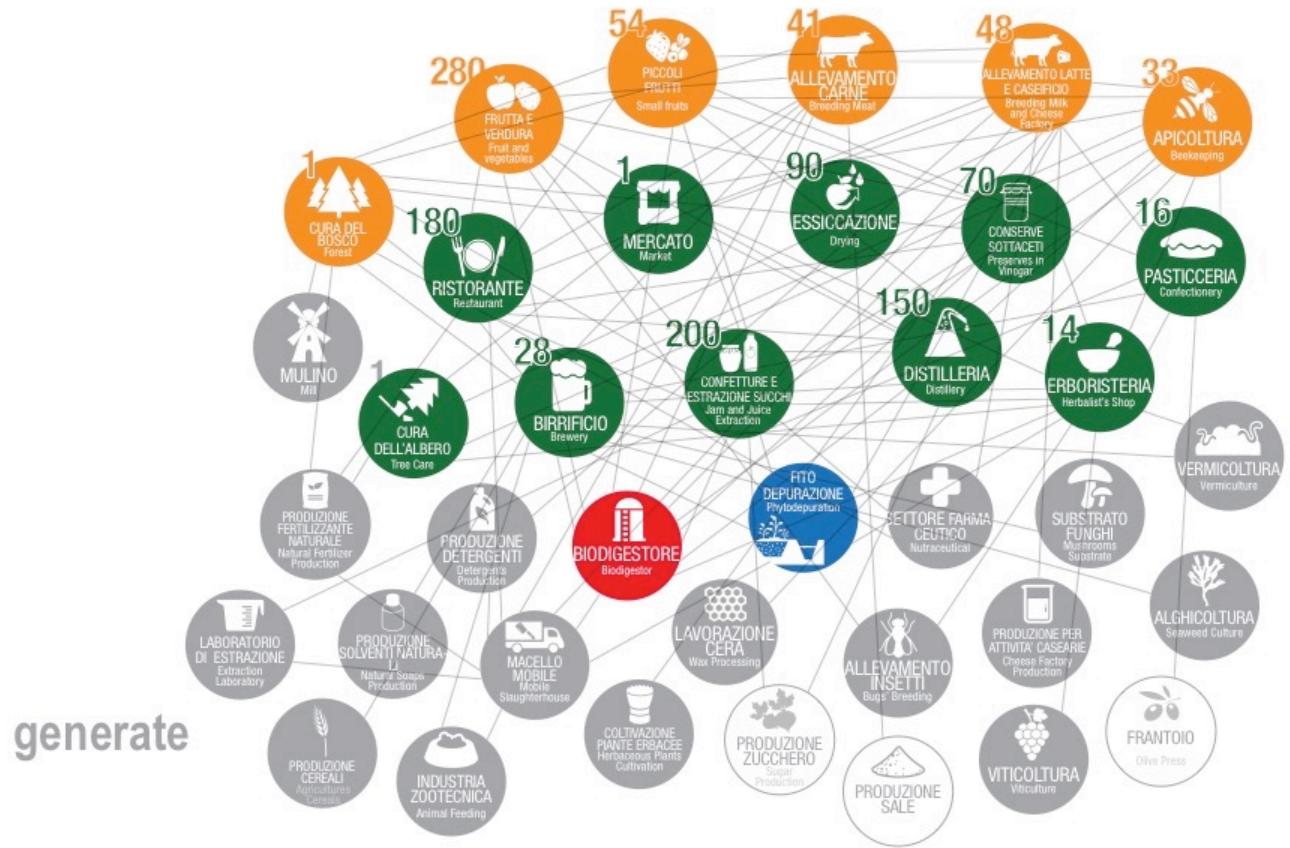


AZIENDE ENTERPRISES

sistema complessivo con le attività generate
the whole system with generated activities

16
attività analizzate
analyzed activities

+
18
nuove attività
new activities



CONFRONTO DATI

DATA COMPARISON

activities

attività

645

attuale

current

total employees

addetti

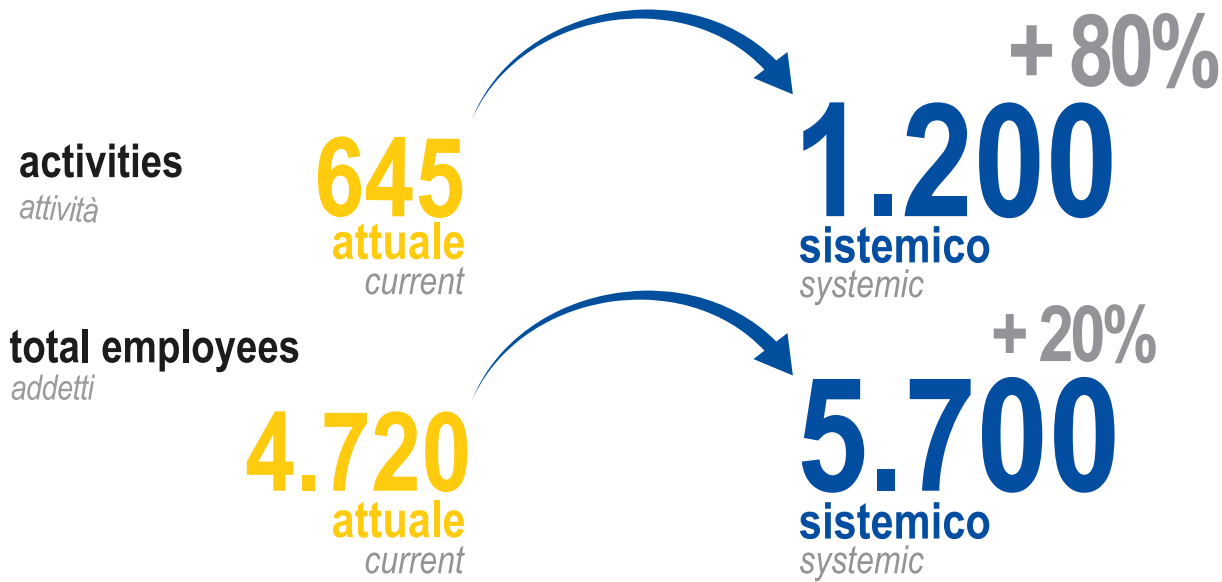
4.720

attuale

current

CONFRONTO DATI

DATA COMPARISON



EARNING BEFORE TAXES

EBT

ricavo prima della tassazione
EBT

attività analizzate
analyzed activities

26 MI €
attuale
current

~55 MI €
sistemico
systemic

+

~8 MI €
15% di 55 MI

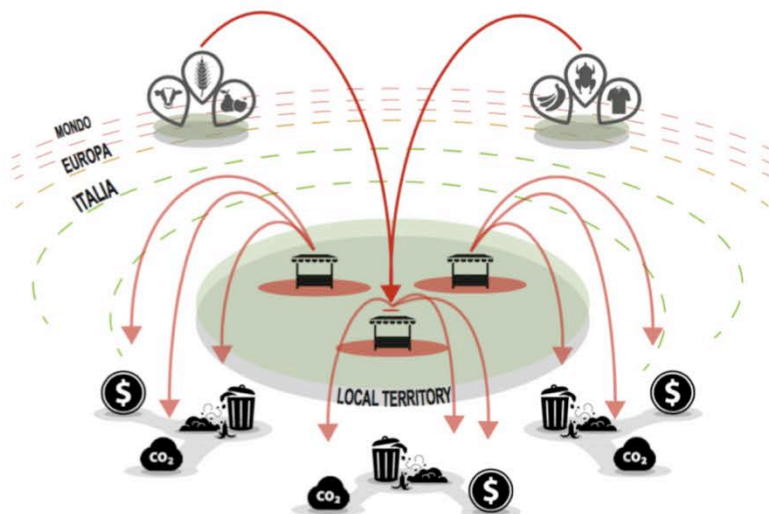
nuove attività
new activities

~63 MI €
+ 140%

RICADUTE SUL TERRITORIO

EFFECTS ON THE TERRITORY

ACTUAL MARKET VAL CHISONE



81%

VENDO CIÒ CHE COMPRO

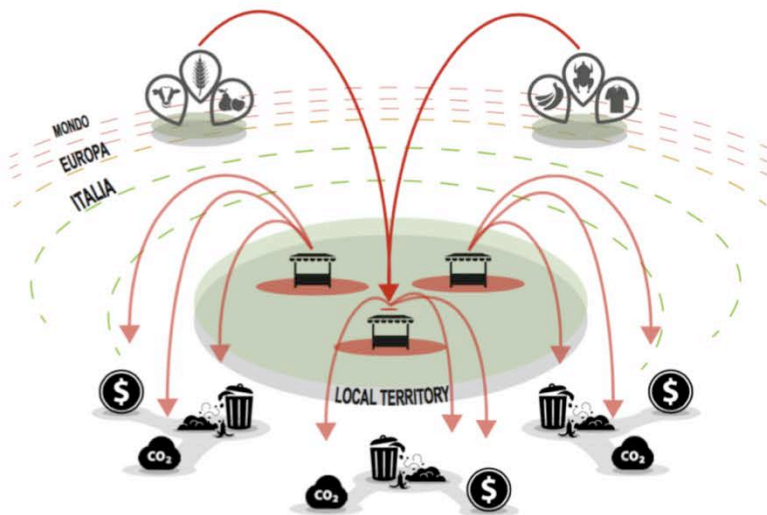
19%

VENDO CIÒ CHE PRODUCO

RICADUTE SUL TERRITORIO

EFFECTS ON THE TERRITORY

ACTUAL MARKET VAL CHISONE



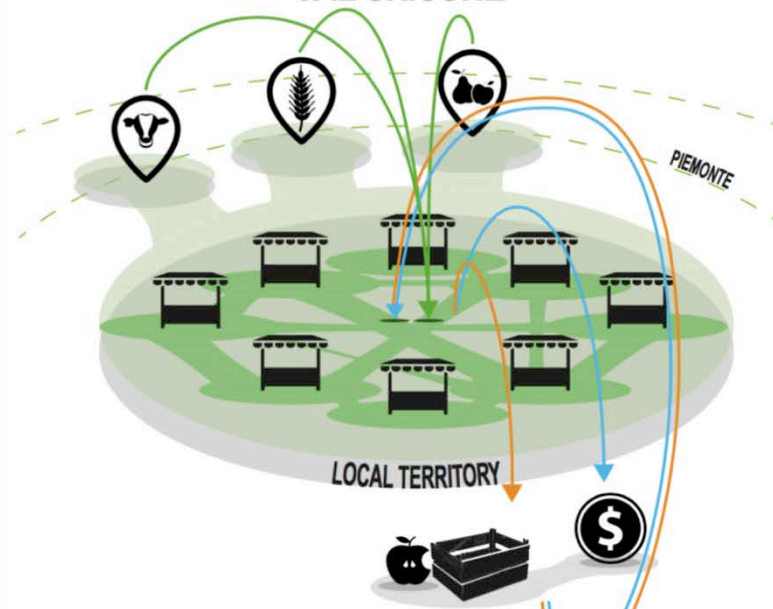
81%

VENDO CIÒ CHE COMPRO

19%

VENDO CIÒ CHE PRODUCO

SYSTEMIC MARKET VAL CHISONE



85/90%

VENDO CIÒ CHE PRODUCO

10/15%

VENDO CIÒ CHE COMPRO

CONTESTO - VALLE ANZASCA

ANZASCA VALLEY - RESEARCH FIELD

Domodossola

SUPERFICIE

Surface

152.782 ha

Zermatt
(Svizzera)

Macugnaga

Ceppo Morelli

Vanzone-San Carlo

Bannio Anzino

Calasca Castiglione

Pallanzeno

Piedimulera

Pieve Vergonte

Vogogna

Premosello-Chiovenda

Anzola di Ossola

Ornavasso

Mergozzo

Lago
Maggiore

Alta Valle

High valley

Bassa Valle

Low valley

Zona lago

Lake zone



ALTITUDINE

Altitude

1.327 m s.l.m.

248 m s.l.m.



13

COMUNI

Municipalities



17.894

ABITANTI

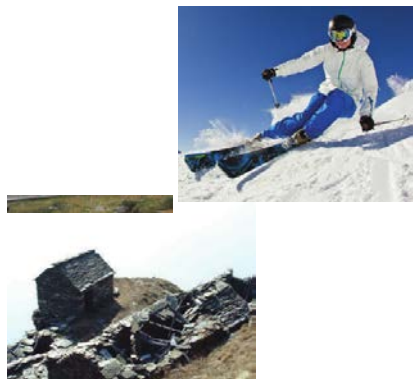
Citizens





PERCEZIONE DELLA VALLE

PERCEPTION OF THE VALLEY



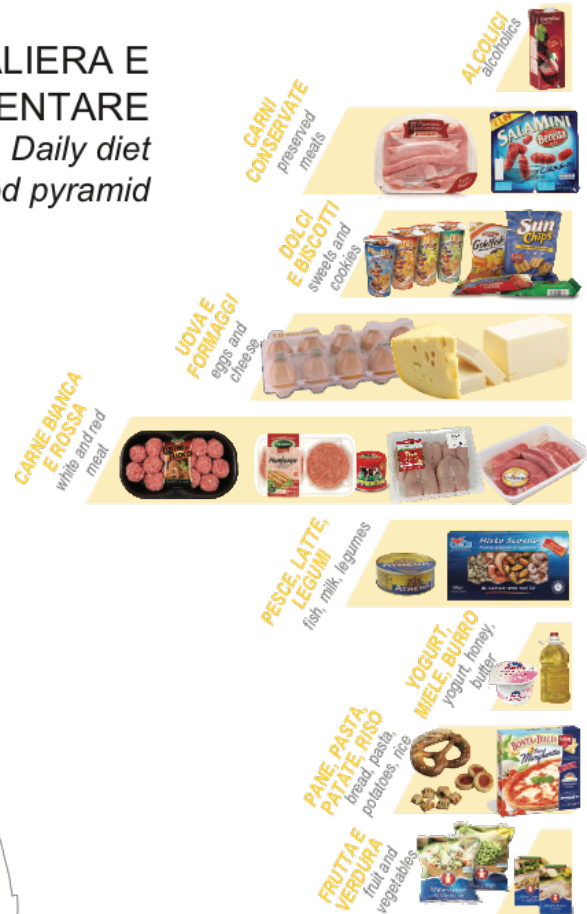
PIRAMIDE ALIMENTARE

FOOD PYRAMID

ATTUALE
Current

17.894
Abitanti

DIETA GIORNALIERA E
PIRAMIDE ALIMENTARE
*Daily diet
and food pyramid*



SODDISFAZIONE FABBISOGNO ALIMENTARE

FOOD DEMAND SATISFACTION

ATTUALE %100
Current



PIRAMIDE ALIMENTARE

FOOD PYRAMID

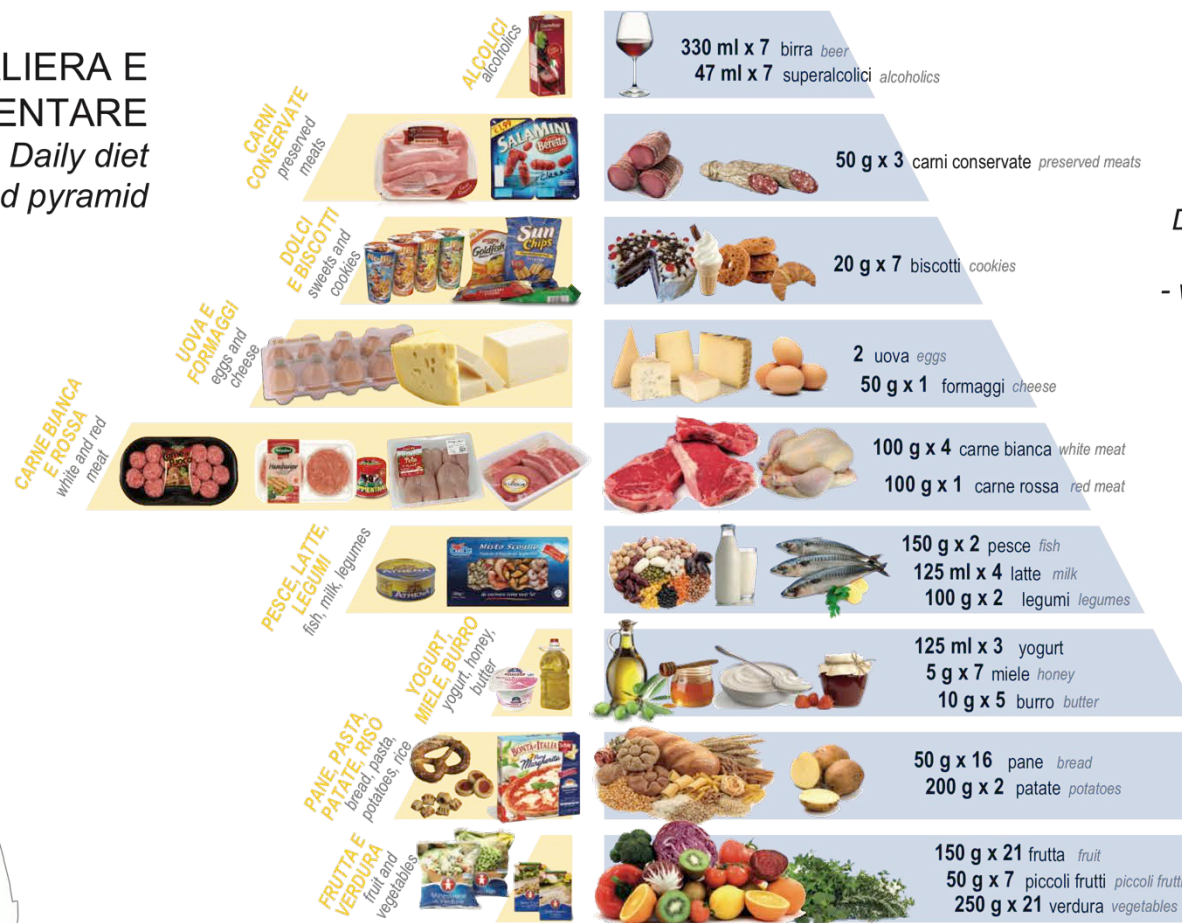
ATTUALE
Current

DIETA GIORNALIERA E
PIRAMIDE ALIMENTARE
*Daily diet
and food pyramid*

17.894
Abitanti

SISTEMICO
Systemic

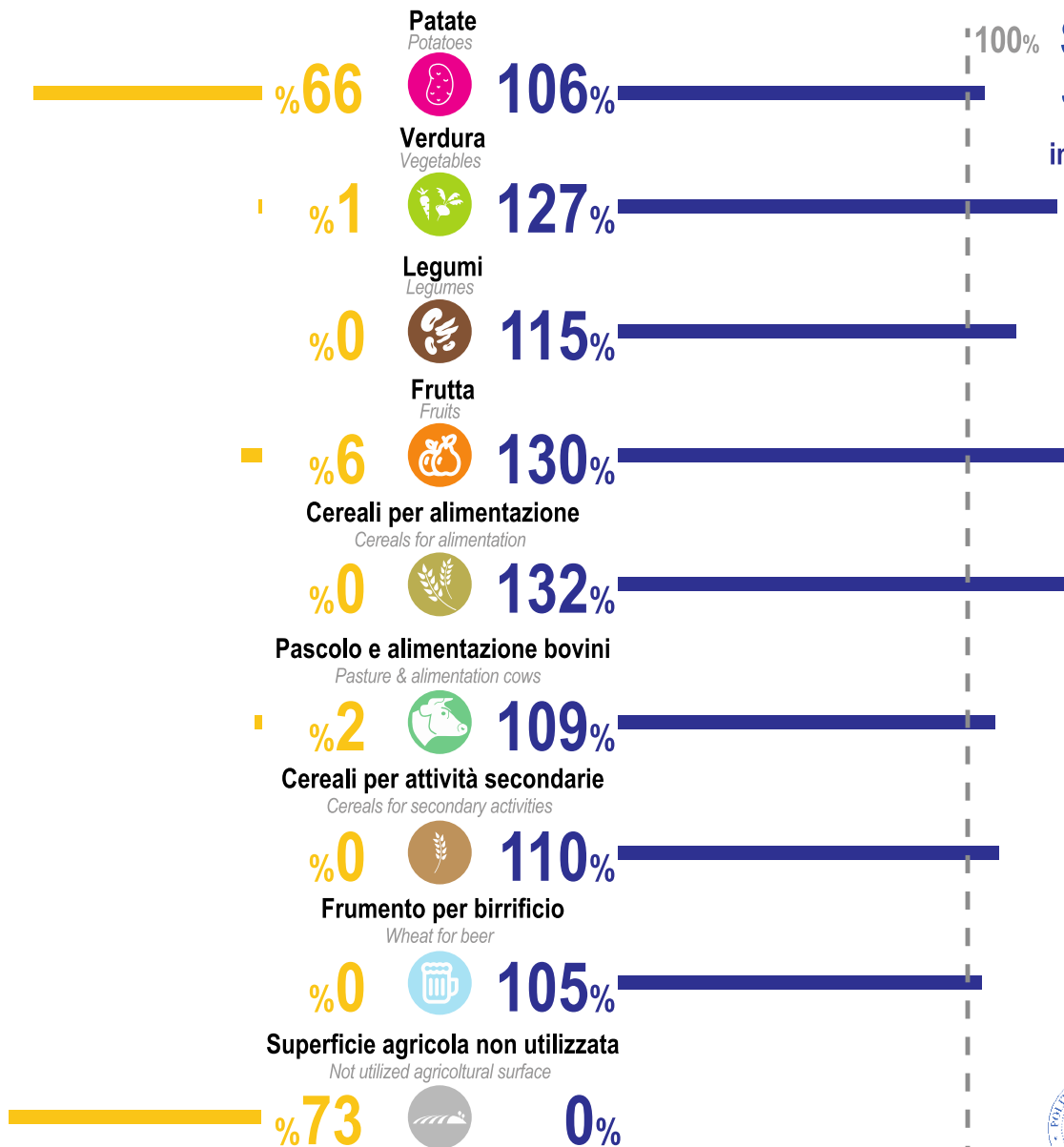
QUANTITA'
GIORNALIERA
- CONSUMO
SETTIMANALE
*Daily quantity (g) per
serving
- weekly consumption*



SODDISFAZIONE FABBISOGNO ALIMENTARE

FOOD DEMAND SATISFACTION

ATTUALE %100
Current



SISTEMICO
Systemic
possibile
incremento popolazione
23%

COMPARAZIONE DEI DATI

DATA COMPARISON

activities
attività



total employees
addetti



EARNING BEFORE TAXES

EBT

attività analizzate

analyzed activities

4 MI €
attuale
current

~15 MI €
sistemico
systemic

+

~1 MI €
7% di 15 MI

nuove attività

new activities

~16 MI € + 275%



CARATTERISTICHE PRINCIPALI

main characteristics

Superficie area Alta Val Sangone 140 km²
Surface area of Alta Val Sangone 140 km²



Temperatura media annuale 10/12°C
Average annual temperature 10/12°C

Altitudine 403-506 m s.l.m.
Altitude 403-506 m a.l.s.



Precipitazioni medie annuali 1.000 mmm
Average annual rainfall 1.000 mm

Popolazione 21.000 abitanti
Population 21.000 inhabitants



Media annuale ore di sole 1.690 h
Average annual hours of sunshine in 1.690 h

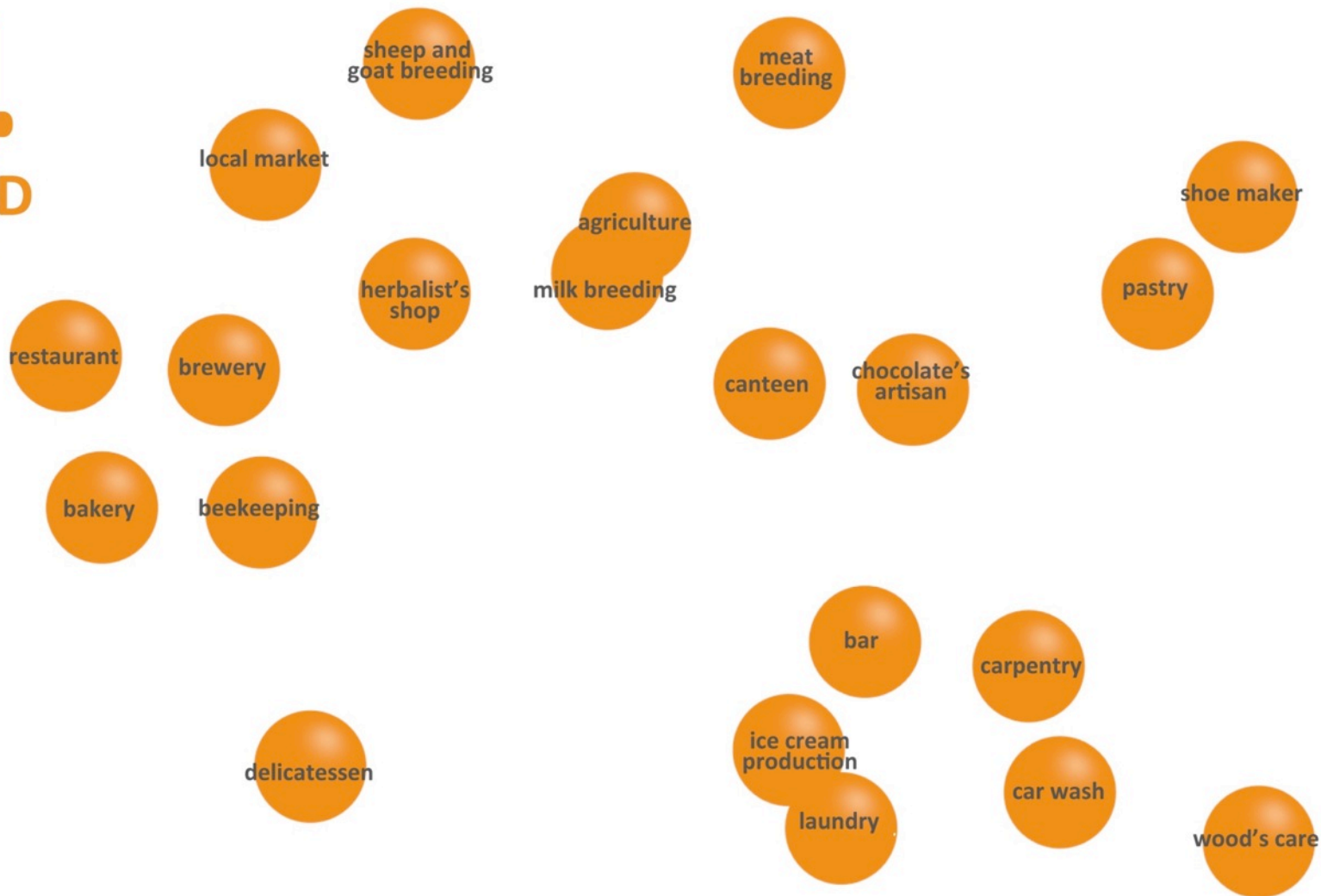
Potenza del Torrente Sangone 4,6 m /s
Torrent Sangone flow 4,6 m /s



Media annuale velocità del vento 4 km/h
Average annual wind 4 km/h



24 ANALYZED activities



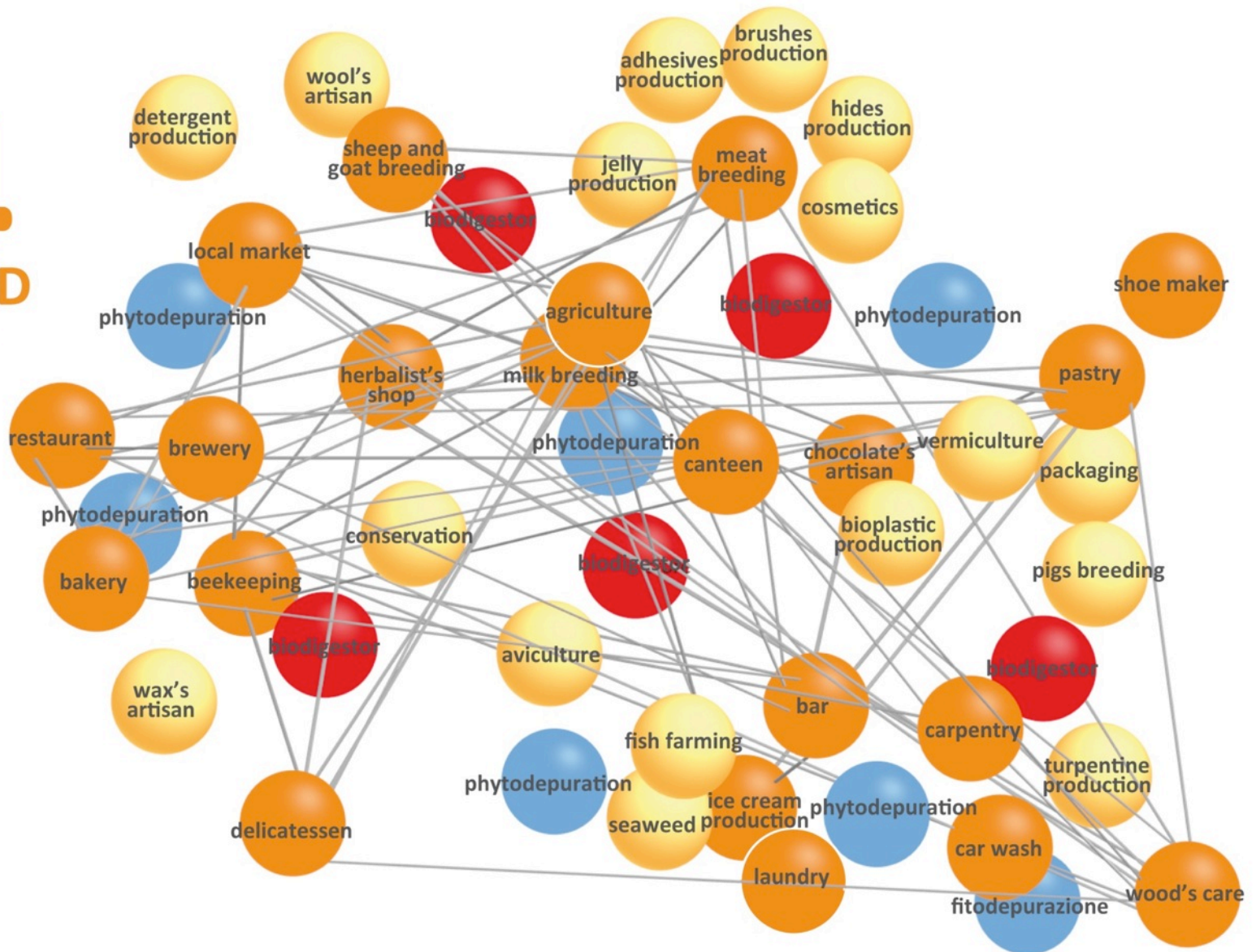
24
ANALYZED
activities



24
ANALYZED
activities



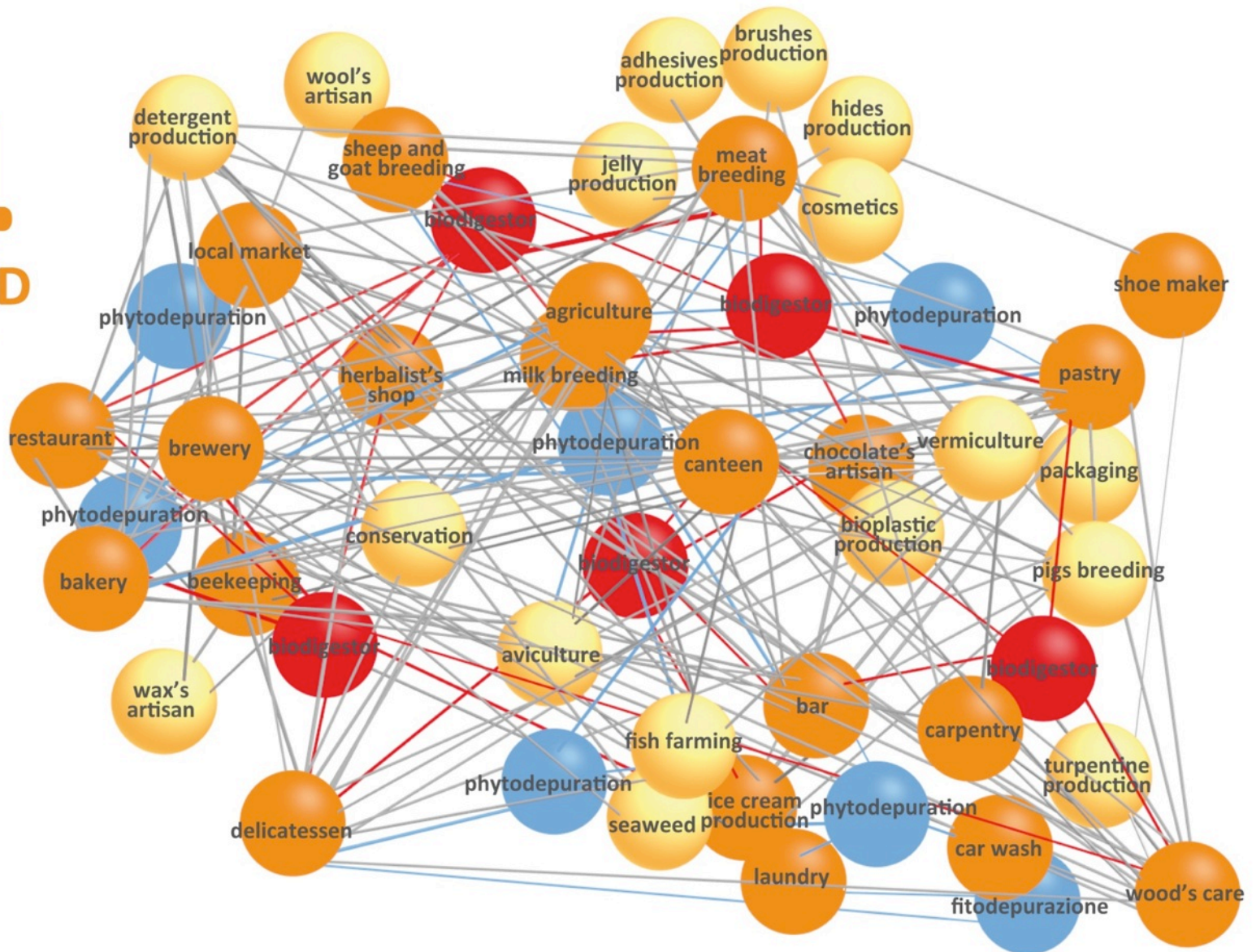
NEW
activities
26



24
ANALYZED
activities



NEW
activities
26



actualCOMPARISONsystemic

n°TOTAL
ACTIVITIES

470

n°TOTAL
EMPLOYEES

1.500

EBT
TOTAL

4,9 MI €

actualCOMPARISONsystemic

n°TOTAL
ACTIVITIES

470 → 610 + 30%

n°TOTAL
EMPLOYEES

1.500 → 2.000 + 35%

EBT
TOTAL

4,9 MI € → 36 MI € ANALYZED
ACTIVITIES

+

5 MI € NEW
ACTIVITIES
15% to 36 MI

41.000.000 € + 720%



quality comes from being part of the system

la qualità è l'appartenenza al sistema



strong identity

forte identità

exploitation of local resources

valorizzazione risorse locali

tourism and agritourism

turismo e agriturismo



aware

consapevole

happy

felice

health and well-being

salute e benessere



local know-how

saper fare locale



local distribution

distribuzione locale

short distances

piccoli spostamenti



robust

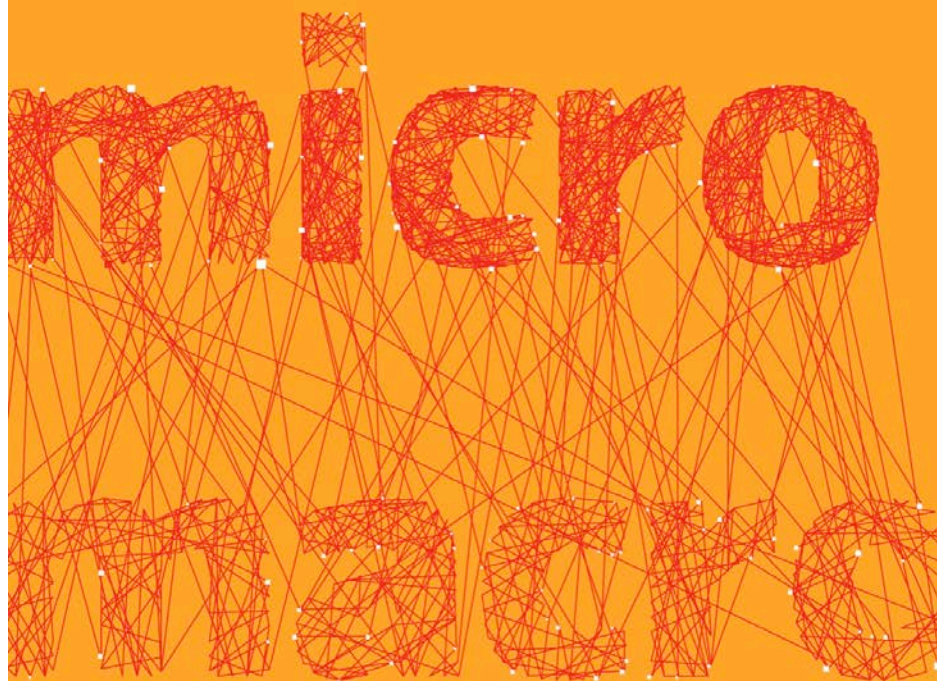
solida

local micro-economy

microeconomia locale

new jobs

nuovi posti di lavoro



**micro relazioni come rete vitale
del sistema economico e produttivo**

a cura di
Luigi Bistagnino



Edizioni
Ambiente