THE FUTURE OF SMART AND INCLUSIVE COMMUNITIES
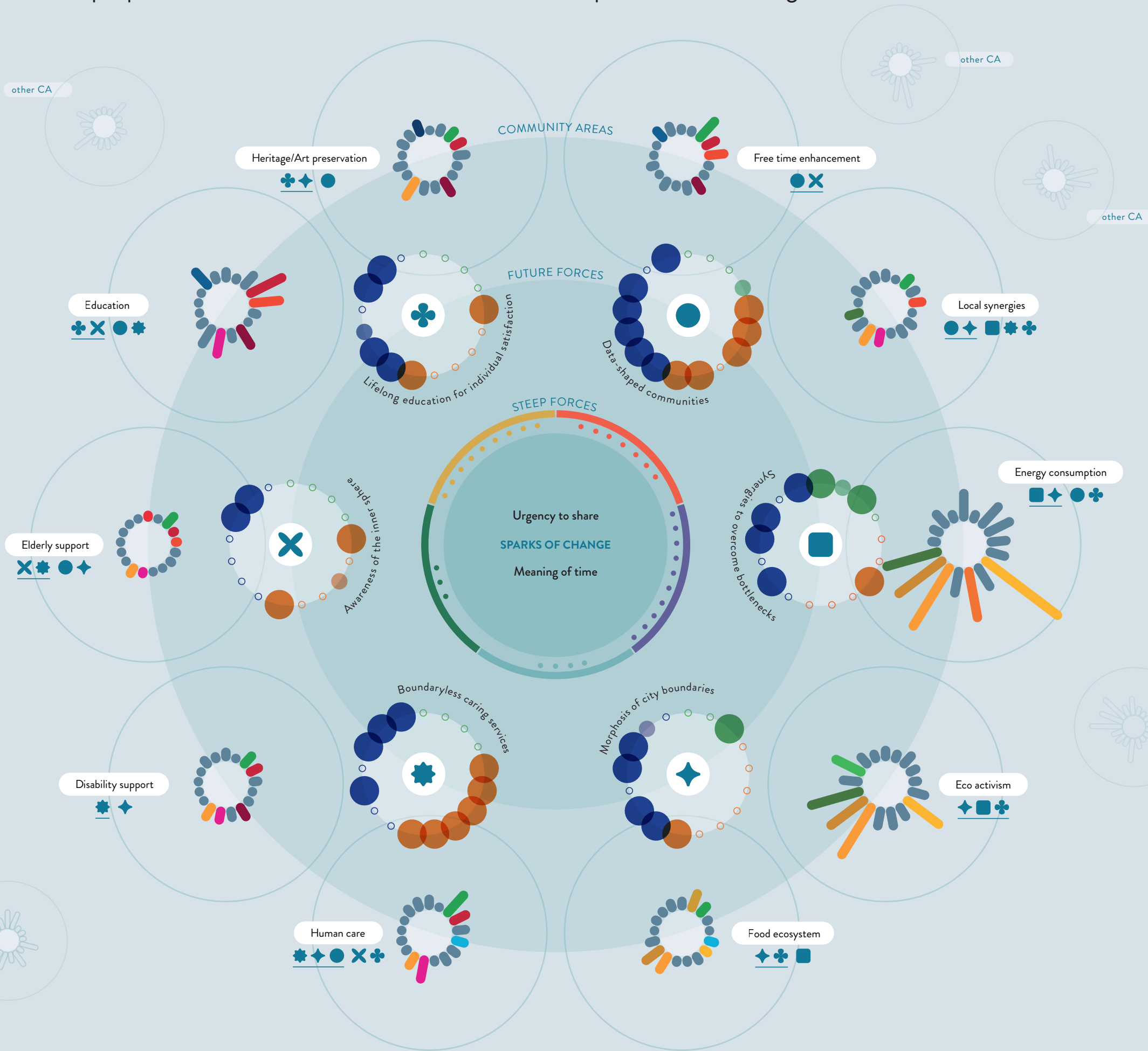
How will people live and interact in communities in 2035 to improve their well-being?

other CA
other CA
other CA
other CA

COMMUNITY AREAS

Heritage/Art preservation

Free time enhancement

Education

FUTURE FORCES

Local synergies

Lifelong education for individual satisfaction

Data-shaped communities

STEEP FORCES

Awareness of the inner sphere

Energy consumption

Elderly support

Urgency to share

SPARKS OF CHANGE

Meaning of time

Synergies to overcome bottlenecks

Boundaryless caring services

Morphosis of city boundaries

Disability support

Eco activism

Human care

Food ecosystem

SDG AREAS OF IMPACT

Essential needs for the person

1 NO POVERTY
2 ZERO HUNGER
3 GOOD HEALTH AND WELL-BEING

Socio-economic growth

8 DECENT WORK AND ECONOMIC GROWTH
9 INDUSTRY, INNOVATION AND INFRASTRUCTURE
11 SUSTAINABLE CITIES AND COMMUNITIES

Sustainable resources usage

6 CLEAN WATER AND SANITATION
7 AFFORDABLE AND CLEAN ENERGY
12 RESPONSIBLE CONSUMPTION AND PRODUCTION

Planet preservation

13 CLIMATE ACTION
14 LIFE BELOW WATER
15 LIFE ON LAND

Universal values protection

4 QUALITY EDUCATION
5 GENDER EQUALITY
10 REDUCED INEQUALITIES

Governance

16 PEACE, JUSTICE AND STRONG INSTITUTIONS
17 PARTNERSHIPS FOR THE GOALS

STEEP FORCES

The STEEP Forces (Social, Technological, Economical, Environmetal and Political) are displayed at the center of the visualization
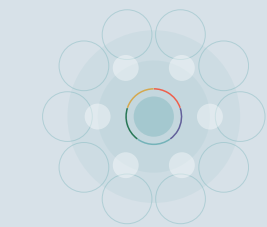
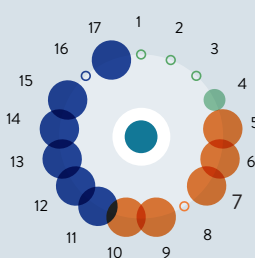● **Social**
- Community search
- Flexible working habits
- Independent learning
- Living lab experimentation
- Mental awareness
- Perception of loneliness
- Social street

● **Technological**
- Accessible interfaces
- Big data
- Decentralized medicine
- Digital identities
- Empowered AI
- Individual health monitoring
- Knowledge platform
- Micro credentials
- Rise of computing power
- Sensors everywhere

● **Economical**
- Eco-consciousness
- Local economy
- Value re-distribution

● **Environmental**
- Open-source idea generation
- Resource management
- Sharing economy
- Urban sprawl

● **Political**
- Decentralized governance
- Democratization of knowledge
- Digital rights
- 15-minutes neighborhood
- Local-based support services
- Mega cities
- Smart rurban
- Stakeholder engagement
- Urban re-configuration

FUTURE FORCES

A unique shape identifies each future force:

● Data-shaped communities
■ Synergies to overcome bottlenecks
✦ Morphosis of city boundaries
✤ Boundaryless caring services
✕ Awareness of the inner sphere
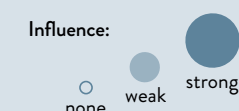✿ Lifelong education for individual satisfaction

The 17 key technologies are represented by a circle styled according to their category and influence on the future forces:

● **Green Deal**
1 3D-printing of food
2 Automated indoor farming
3 Energy harvesting
4 Plant communication

● **Health**
5 Brain machine interface
6 Human Enhancement
7 Humanoids
8 Smart drug delivery
9 Smart tattoos
10 Virtual coaching

● **Digital & Big Data**
11 Augmented reality
12 Blockchain
13 Emotion recognition
14 Crowdfunding and microfinancing
15 AI-powered systems
16 Holograms
17 Distributed smart assistant

Influence:
○ none   ● weak   ● strong

IMPACTED SDGs BY COMMUNITIES AREA

For every community area the top 5 impacted SDGs are highlighted

high interest

Community area

Future forces' influence on community area
● strong   ● weak

The 17 SDGs are clockwise ordered

POLITECNICO MILANO 1863

TECHNOLOGY FORESIGHT CENTER