Addressed to politicians, A Smart Land is a land administrators, stakeholders, area where outreach from **Smart City** —> to **Smart Land** professional societies, and shared policies improve both the as well as organizations, a city actively (how to build) associations, and competitiveness and citizens, this manifesto the attractiveness of working toward the a sustainable, smart the territory, with a aims to promote a specific view to social new approach toward improvement of the and inclusive land cohesion, dissemination development, grounded on quality of life not only of knowledge, growth quality of life of its within city boundaries. of creativity. Smart but also around open Land also implies an Féderico Della Puppa dwellers lands outlook on accessibility, and Roberto Masiero freedom of transfer, user-friendliness of the environment (from its historical and architectural features, to its urban and broadbased ones). Finally, Smart Land accounts for both the quality of landscape and the life of residents Citizenship Energy Economy Mobility Skills Development Landscape Identity

Who is it intended for

Citizenship

Within a Smart Land citizenship becomes active, as forms of grassroots involvement and sharing of development plans match a new interaction and integration modality between administrators and social forces, be them stakeholders, groups, associations, or private citizens

This entails the complete enforcement of the deed of subsidiarity, envisaged by the Italian Constitution, which demands that with regard to the public assets, decistions made by institutions and administrators are to be shared on a social base. Today this can be easily achieved thanks to digital technologies. Said decisions are to be assessed in reason of their inclusiveness: indeed, on no account residents are to be envisaged as valets.

• residents are to partake in the dissemination of knowledge and information, against a framework of long-life learning achieved through new technologies and the implementation of widespread information networks, as well as actions aimed to promote a solid IT

• cultural, social, as well as ethnic integration is to be prømoted, both within and between generations. This is to be achieved through cultural interchange and promotion of actions toward active citizenship, Involving resident associations, social groups, and private

• conditions are to be devised that aim at the promotion of social cohesion and physical hindrances that prevent residents from a complete accessibility.

**Development** 

Across a smart land, development is achieved through the implementation of a network of broad networks, in which stakeholders and communities are allowed to play an active role, draft projects, as well as programs and processes whose node lies in a disseminated and shared knowhow that businesses can embrace in order to increase their competitiveness and ability to create job positions at a local level. This also leads to the promotion of the land as a common asset to safeguard and value in terms of cultural and tourist returns, ensuring accessibility and optimizing flows

The strategic framework of the guidelines for development is not to be conceived merely on economic criteria. On the contrary, it must account for a longterm vision of the common welfare, along with the safeguard of residents'

 deliver a strategic development plan, that highlights and defines all actions aimed at the implementation of the Smart Land at a local level. Vision, objectives and specific action plans, along with funding possibilities, are to be defined through a

rights. Involvement of all subjects is

crucial toward encouraging change and

partaken and shared pathway active promotion of sustainable development, backing European and national policies at local level and integrating such policies with specific measures and actions to subsidize

• implementation of strategic partnerships with universities, formal and informal training agencies, and other skilled actors, with a view to encourage a growth of the "economy of knowledge" at local level

 value the cultural heritage scientific and professional) along with its own traditions, and place them back into the network as a "shared asset" for its own residents and visitors

• shape environments supportive of the establishment of new businesses and innovative start-ups related to new vocations in the fields of creativity and

**Energy** 

**Energy Production and** Management in a smart land must be diffused and well-structured. All most innovative systems are to be adopted, linked to Smart Grids and diffused networks; also, actions of cogeneration and allocated generation are to be encouraged, in order to facilitate investments into renewable energies as well as promote a reasonable use of energy, aiming at energy save at all level, from public to private

buildings

**Skills** 

Key principle is an implementation of all forms of alternative and renewable energies, ensuring that all economic and social spin-offs are to stand within production areas. This may be possible through actions of promotion of land and energy plans implemented by public and private subjects on the base of land agreements. Accordingly, start-up processes and new entrepreneurship may be triggered in this sector.

• mobilize economic and social forces in favor of virtuous social and economic actions, encouraging teamwork with interested actors,/so as to implement the adoption of energy efficient options at a local level through long-term commitment planning, i.e. the "Patto dei Sindaci" (Land mayors' agreement), which manages to allocate resources to accomplish such

 trim down power consumption, starting from street lightning, and promoting energy efficiency in construction industry in order to cut costs and negative impact of heating and air-conditioning

• reduce greenhouse emissions through a limitation of private cars, and support a decrease/optimization of industrial s through the implementatio of state-of-the-art energy and waste management systems (i.e., APEA, Ecofriendly Industrial Production Areas)

 cut down waste output, through an increase of separate waste collection, and an economic assessment of the recycling

**Mobility** 

What does Smart Land

mean

Smart Lands feature a mobility that is easy and effortless. Public transport grows in terms of service quality, making eco-friendly vehicles available to the community. Likewise, alternative transport routes are implemented for private mobility, and traffic calming devices are put in service across urban old towns, boroughs, as well as residential areas. Within Smart Lands, new infrastructures are paired with "infostructures" able to promote for residents an improved accessibility to neighboring areas, as well as networks of

Draft an urban plan for mobility, improving the available road network, and favoring commuting routes through a restriction of access to old towns, so as to enhance suitability for living, with the implementation of pedestrian areas and traffic calming devices able to check on speed of crossing within residential areas. Actions:

transport, through a support of the adoption of eco-friendly vehicles, mainly bicycles. To this end, bike sharing posts, paired with off-center parking lots are to adopt advanced solutions of mobility management that allow to channel local

• safeguard an appropriate availability

of innovative and sustainable public

flows out into greater connection routes, without pushing on private vehicles, while encouraging car sharing and car pooling options, through apposite educational campaigns targeted to the sharing of private means of transport

 Implement advanced communication and information systems that allow a dialogue on mobility both between administrators and residents, and among dwellers

Landscape

mobility

greater extra-urban

**Economy** 

Within a smart land. the economy develops mainly through patterns of interaction between residents and businesses. This generate an ongoing "learning tool", characterized by strong bonds between training models and entrepreneurship, with a specific focus on the implementation of creativity, on the support of start-up training, and facilitating the set up of think-tanks

Dissemination of business incubators is a crucial step, along with development of processes, in respect to the guidelines from the digital Agency. Creativity and shared knowledge are to be subsidized. The world of traditions is to be integrated with new technologies, as these latter may deliver forms of development. All subjects, and in particular the banking system, are to be involved in these processes. Today, what is local goes global, and what is global affects the local.

• current production network is to be improved through actions of fine-tuning of services in support of businesses and, where viable, eco-friendly production areas (APEA) are to be implemented, in respect to the guidelines from the EU

• businesses operating in the conversion of manufacture toward environmentallyfriendly products and production systems are to be supported through European guidelines associated to ETAP and ECOAP, with respect to guidelines from the Ministry of the Environment

• everyone is to have accessibility with regard to IT and technological networks, through actions of governance upon agreements with service providers, so as a milieu can be achieved, that is open to competitiveness, creativity, and inclusiveness within social networks, and with the involvement of stakeholders and local communities

• improvement and renovation are to be encouraged, along with active maintenance of the available assets, in terms of quality enhancement, energy saving, and enrichment of welfare and quality of life

Acting as an identitymaking place, a smart land includes the diverse identities of land, environment, craftsmanship, culture, economy, landscape, production. These can be best articulated when traditions. This is to be returned back to adequately treasured within patterns of offer adopting advanced tools to promote pathways, mappings, contents that value them with regard to their specificity and that increase their actual and recognized

Identity

asset

Identity cannot be defined as "how we used to be". It must be "how we can and are willing to be in the future" ("I will be what I will be"). Accordingly, action plans are to be focused on the construction of a local identity grounded on the common tangible and intangible heritage, which is to be treasured with respect to both said

• cultural heritage is to be valued, along with knowledge, places and one's own the network as "common asset", available to all residents and visitors

Actions:

• treasure one's own identity, favoring the reutilization and the valorization of what is available, in a renewal based on the safeguard and maintenance of available assets. This will lead to accessibility of environmental, landscape, cultural contents, as well as architectural, historical, urban, productive, and economic ones. Finally, any given element that stands as a land "fingerprint" of the community is to be accessible, and this will implement the subjects of the smart community in compliance with the guidelines from the EU

• uphold one's own identity through a smart presence on the web and on the new media, making use of advanced techniques in order to devise pathways and thematic mappings of one's own land and making them easily available

• promote a harmonized and smart proposal of one's own tourist offer on the web, through a strategic and methodical use of the new media, with specific regard to the social networks

Skills, knowledge and culture play a relevant role within Smar<sup>-</sup> Lands, with specific regard to development policies, through the

implementation of

extended and integrated networks of knowledge, thus facilitating the construction of thinktanks and ensuring a synergy among all cultural, productive and non-productive components of craftsmanship, as well as high-profile training available in the area

Activate processes of continuous training anywhere, updating skills, crossbreeding between academic and non-academic know-how, local and non-local, traditional and non-traditional one. This is to be achieved through involvement of all subjects, formal and informal, institutional and non-institutional, that may contribute to common development.

Azioni: active promotion toward the growth of an economy of knowledge and tolerance as basic factors to produce know-how and increase skills in the land, either at social and inclusive level, and at economic and productive scope

• encourage life-long learning and customized training modules

• offer an environment that fosters creativity, through stimulation of innovations and experimentations in the fields of art, culture, and performing arts • improve and ensure accessibility to IT

 sustain inclusiveness within social contexts, through the involvement of stakeholders and their communities, so as to give voice to the comprehensive knowledge heritage. Through co-sharing

• make room, provide opportunities, tools and platforms of interaction in order to encourage free knowledge, favoring peerto-peer approaches, where knowledge is open and disseminated

and new technologies, such heritage can

offspring cultural, social and economic

Within Smart Lands, landscape care does not mean only safeguard of available assets, but also improvement of processes that value the landscape, from waste management to reduction of greenhouse emissions, from restriction of private vehicle circulation to urban and land regeneration, upon patterns oriented to the quality of life and milieus, supportive of soil-save, through reclamations and reuse of brownfields, to the purpose of enhancing land offer and fruition

In accordance with the European Landscape Agreement, the landscape "... indicates a specific part of the land, as it is perceived by the population, whose features stem from the action of natural and/or artificial factors and from their interdependence". Such agreement expects to deem all landscapes independently from preordained criteria of appeal or uniqueness; and actually, it expressively includes "...land landscapes, internal waterways, and seas. It is comprehensive of either landscapes that may be regarded as an exceptional asset, and daily-related landscapes, along with spoiled ones." The European Landscape Agreement opens up to what may be considered the new ethic for the third millennium, inasmuch as it provides for the principle of equal dignity and of the due respect of all cultures, along with maintaining that such cultures are intimately associated to their own land, their own environment, their own landscape.

Actions: • limit soil consumption and encourage valorization of landscape as the milestone of land identity. This is to be achieved through specific rules applied to regulations of management of municipal lands. Innovative forms of safeguard and preservation are to be implemented as well

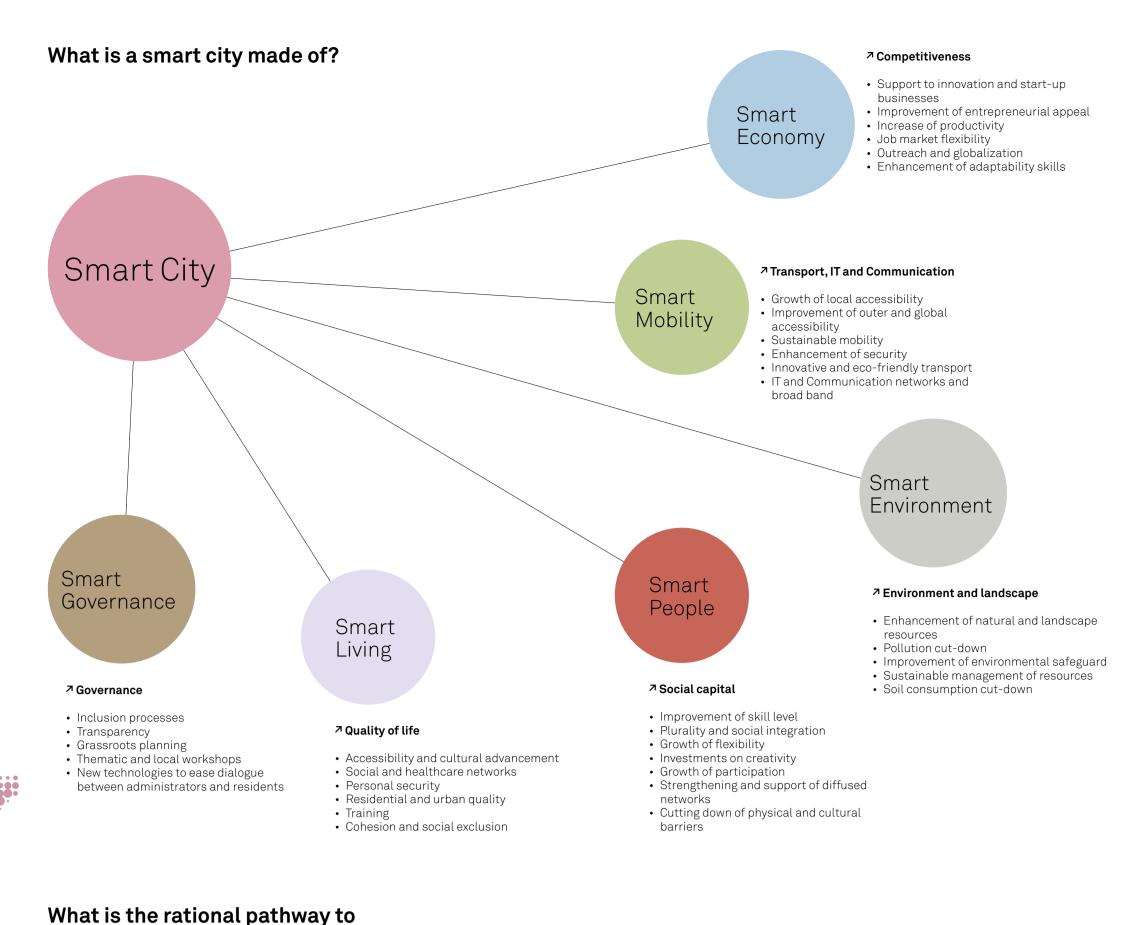
 promote, protect, enhance and manage urban green areas • reclaim and recover brownfields, in compliance with European models of urban, environmental and social regeneration, as it is encouraged by the acquis urban and by new models of

intervention of the future planning 2014-

## **Smart City** Smart cities are the The use of private vehicles is cut down cities of the future, where more services are made available to residents and as subsidizing the businesses with lower resources, through the adoption services. Social exclusion is of state-of-the-art technologies and smart management systems focused on different able to cut wastes and negative impacts, be they affecting the environment, the economy, the society. A smart city features

through the stimulation of car-sharing, as well implementation of carpooling and bike-sharing tackled through active policies of involvement, forms of need. Unequal access to services and the very use of the city are reduced, as well as architectural, physical and cultural barriers. waste production. Waste Smart Cities adopt is eventually recycled in smart technologies to build a more sustainable urban environment, with the scope of comes from renewable implementing a context of inclusiveness, which appeals to residents, welcomes, cares, and befriends them toward their own fulfillment.

Smart Cities are an organic city, a network of network, able, at urban space level, to take up the challenge of globalization in terms of an increase of competitiveness appeal, inclusiveness. As they target six axes -economy, mobility, environment, people, quality of life and governance, smart cities grow more high-tech, more interconnected, cleaner, more appealing, safer, homelier, more efficient, more open and cooperative, more creative and more sustainable



What is needed to implement a smart city

lower pollution, lower

order to downscale the

use of raw materials.

Energy is saved as it

resources. Traffic is

controlled through an

increase of public and

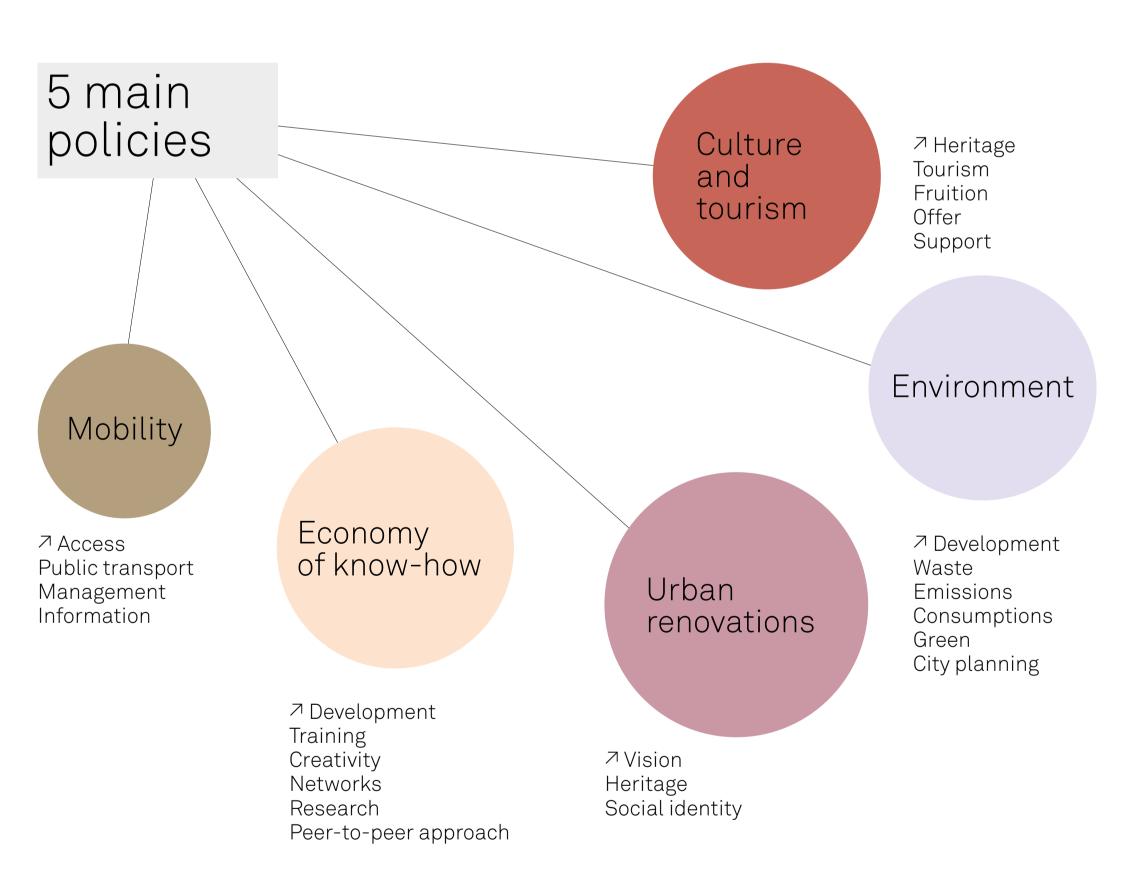
alternative transport.

Smart Cities are not a project, as they are a pathway that is to be established with the support of state-of-theart technologies. As it is a process, **governance** plays a main role, i.e., the implementation of management systems able to optimize the network of services that a smart city either must offer (lowest offer level), and can offer (potential level of offer)



## Natural Manmade Needs resources resources → Quality of life ⊿ Air → Knoeledge → Water → Employment and wellbeing → Financing → Natural resources, shared → Food → Environment → Transport assets → Personal security → Air and Water Quality → Political Governance → Participation → Information, integration Output Systems → Buildings, roads, bridges → Employment → Energy, utilities ¬ Security and health ¬ Social integration → Trade and services ∠ Cultural events → Quality of life → Healthcare, security <sup>¬</sup> School, education → Environment → Waste → IT and Communication, logistics, networks

→ Pollution



## 4 main fields of action Transport Buildings Electricity New low energy Adoption of impact only • eco-friendly public Implementation transport systems constructions of smart grids, in Renewal and • Growth of zero-impact regeneration support of renewable individual mobility of available energies Implementation Realization of buildings and of traffic and accommodations advanced systems urban transport so as to cut down that monitor and management systems, including energy consumption manage energy Implementation consumption (EMS, software for ticketing, of social housing energy management etc. policies able systems) Implementation to attract new of innovative

technologies leading

to consumption

residents through

patterns of urban

and neighborhood

level

Smart strategy 3:

"Everything out"

Municipality

management

are expected

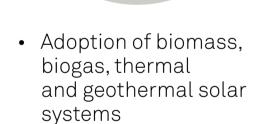
is liable for all

investment costs,

and revenues from

regeneration at area

build a smart city



Heating vs.

cooling

- Adoption of cogeneration and/or tri-generation plants Promotion of diffused
- production districts through microgeneration Value of district heating
- Development of information networks with real-time feeds for users

Colophon

# 3 action plans

Municipality

management is liable

for all investment

costs and likely

management

revenues

Municipality

facilities

departments plan

services

and accomplish

Referee-reviewed

structure services

in keeping with

that state level,

provision, and

"service records"

services define and

Smart strategy 1:

The municipality

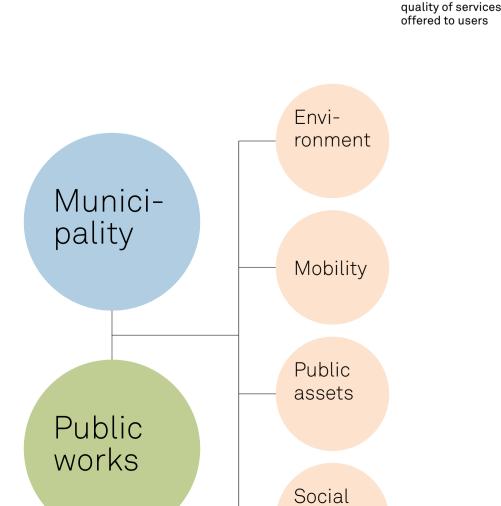
"Everything within"

entrusts its services

with the study and

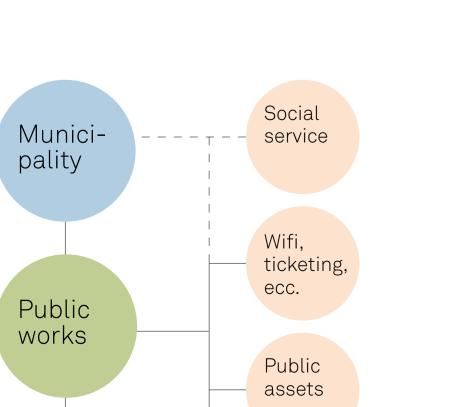
actions to achieve

provision of feasible





Tenders



Public

lightning

### **Fondazione** The municipality Through tenders The investment the best results. This paper has been realized within the Political Lab of Francesco Fabbri Francesco Fabbri commends its (project financing, costs and the The Municipality (No Profit Organisation) letters of intent, revenues are in can also define a services and, upon Foundation, coordinated by specific requests, etc.) that may charge of executors. reduction of the Roberto Masiero and Luca Taddio, and has been exhibited for the grant, depending the study and locate executors/ On the basis of Headquarters first time within the "Comodamente" Villa Brandolini, provision of feasible the feasibility on the achievement authorities. actions to achieve, depending on the studies' outputs, of the public services Festival in 2013. Piazza Libertà 7, 31053, Pieve di Soligo, TV the Municipality subcontracting typology of work activated. expert advisors for can define a grant © 2016 Francesco Fabbri Foundation, All rights reserved. No part of this Operating headquarters feasibility studies in order to achieve publication may be reproduced in any Casa Fabbri, manner without permission Via Francesco Fabbri 16, 30153, Pieve di Soligo, TV **Authors:** m 334 9677948 f 0438 694711 Federico Della Puppa Social Roberto Masiero info@ fondazionefrancescofabbri.it service www.fondazionefrancescofabbri.it Graphic design by: http://twitter.com/FFFabbri (Paolo Palma) www.facebook.com/ Munici-Printed by: FondazioneFrancescoFabbri con il contributo di Theorema Instagram: Fondazione\_Francesco\_Fabbri pality Wifi, ticketing, ecc. Public assets Tenders Fondazione Public Francesco Fabbri lightning **THEOR3MA**