



**EUSALP** EU STRATEGY FOR THE ALPINE REGION

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# Smart Village - The Village of the Future positive vision and workshop concept for Alpine villages

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**Interreg**  
Alpine Space  
**SMART**Villages



80 million people, 7 countries, 48 regions,  
mountains and plains addressing together  
common challenges and opportunities



**Interreg**  
Alpine Space  
AlpGov



This project is co-financed by the European Union via Interreg Alpine Space

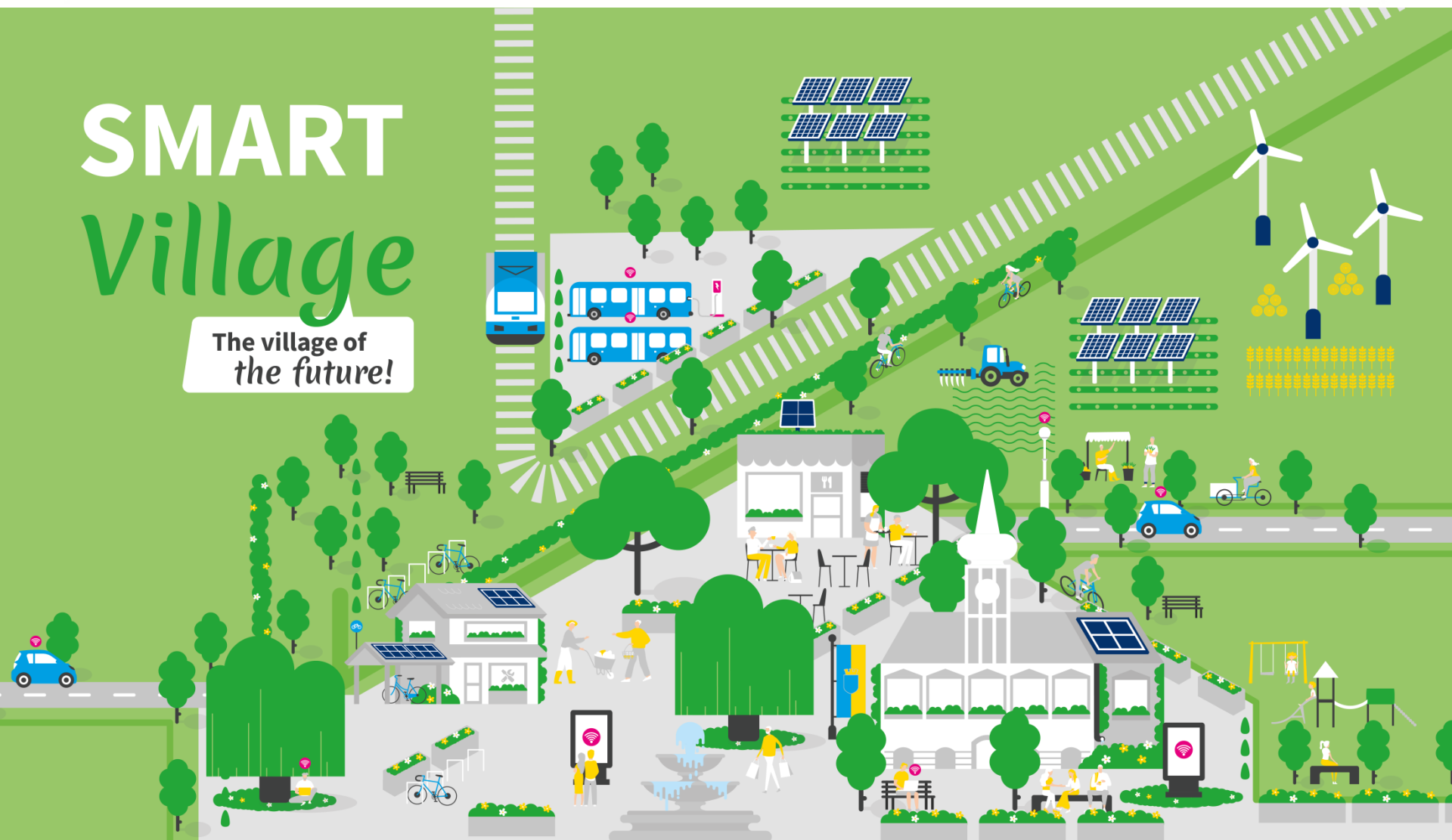


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# SMART Village

The village of  
the future!



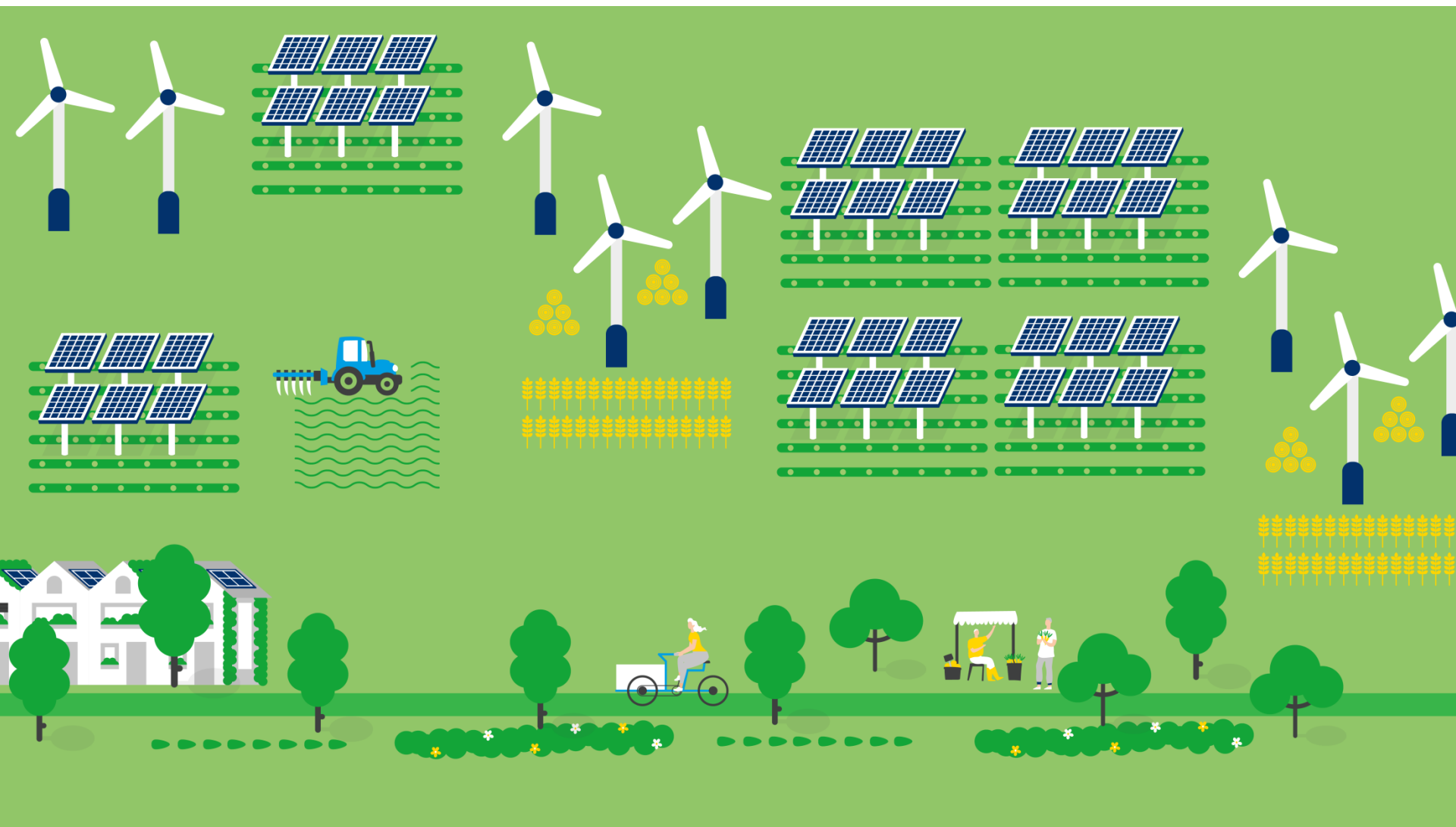
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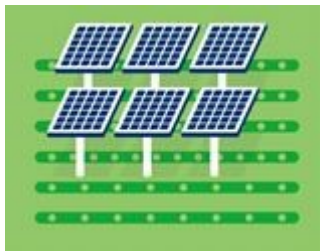
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# Energy



This project is co-financed by the European Union via Interreg Alpine Space

# Self-sufficient villages



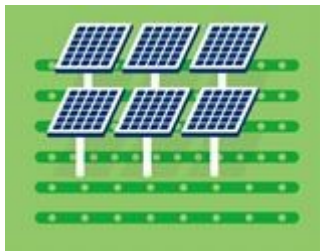
**100 % renewable forms of energy:** Electricity from sun, wind, water and biomass will fully provide us with energy in the future. Surpluses on days with lots of wind and sun are used for mobility, heat and storage.



**Virtual power plant:** decentralised power generation plants such as photovoltaic, wind, biogas, hydropower or combined heat and power plants are interconnected to form a network.



# Self-sufficient villages

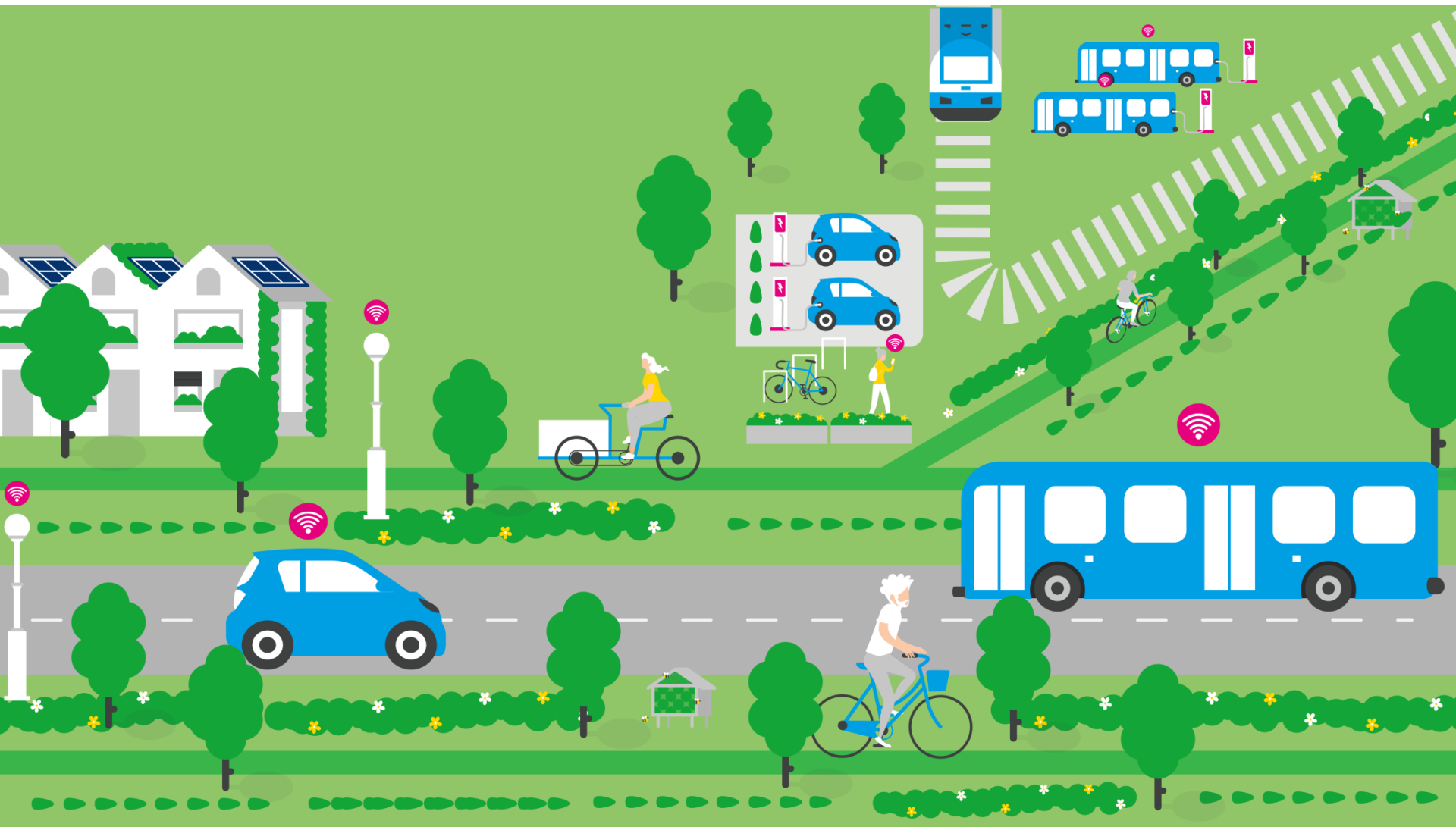


**Smart grids** know where how much energy is currently being generated and can provide this energy and, for example, charge an e-car, heat up hot water storage tanks or switch on a pumping station in the Alps.

Large local solar systems (**Agro PV**) protect the farmers' fields from increasing global warming and the increasing downpour of hail, thereby increasing crop yields.



# Mobility



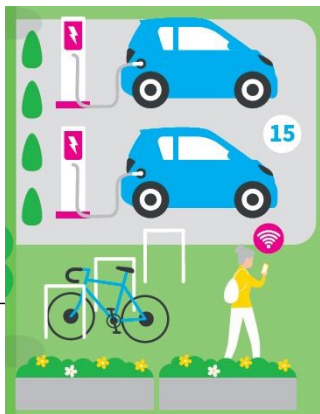
# Mobility



Roads with green areas are great for **cycling** and walking. Short distances for running errands can be covered conveniently with (e-)bikes or (e-)carrier bikes.



**Public transport** is convenient, saves space and is energy-efficient. Long distances are covered by fully electrified railway systems and electric or hydrogen buses; for shorter distances



**Micro-public transport** : In the village of the future, there is a wide array of options: call and collect taxi services, e-transport services, e-car, public transport system.

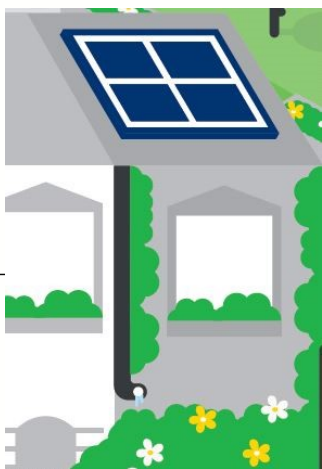
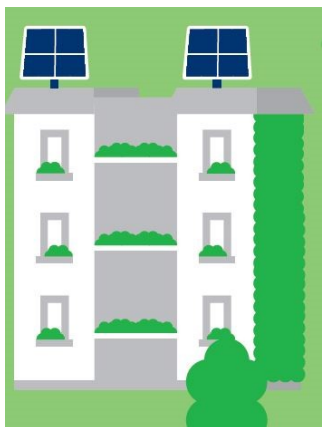
**E-cars** drive quietly, exhaust-free and can also be shared. The future of mobility is electric ,locally generated renewable electricity is used.

# Housing & building





# Housing & building



A **Plus Energy building** uses solar energy optimally. In summer, the heat is kept out by excellent thermal insulation, outside shading and green areas.

**Solar cells** The variety of possible applications such as on roofs or facades, makes solar systems a form of energy for all buildings.

Buildings of the future rely on **renewable energy** such as solar energy, heating pumps, cord firewood or pellets with the advantage that the added value stays in the region.

The thermal **activation of components** uses ceilings or walls for heating and cooling. Combined with a heating pump, surplus energy from sun and wind can be stored in the components.

**Green areas on roofs and facades (12)** are natural air conditioning systems for buildings, streets and squares. Plant shading protects components from heating up too much.

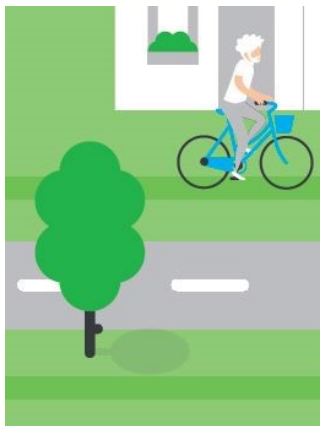
# Areas to live



## Areas to live



**Trees** are the air conditioners of the streets and squares. A full-grown tree can evaporate up to 500 litres of water and thus pleasantly cool down and shade the environment.

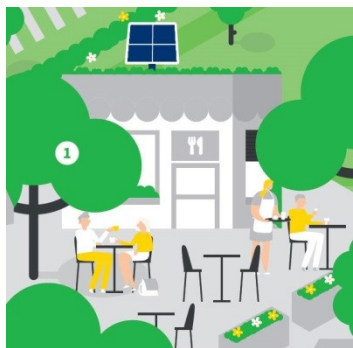


**Flowering meadows** create a vivid sea of colours with beautiful shapes of flowers and provide a habitat and food for useful insects such as bees and the like.

**Perennial flower beds** During heavy rainfall, perennial flower beds can absorb a lot of water thanks to permeable soil.



# Working & everyday life



**Regional food** creates local jobs and builds trust between consumers and farmers. Due to short transportation routes, regional food is fresh and sustainable.



**Shopping locally:** The village of the future is characterised by short distances. Therefore, everyday products can be purchased or repaired locally in the town centre.

**Smart working:** Long distances to work are reduced in the village of the future. Teleconference rooms, shared offices and flexible working provide for a pleasant working atmosphere and significantly reduce daily commuting and business travel. Many tasks, such as dealing with public authorities, can be carried out digitally.





## Next steps:

Development interactive "Village of the Future" map





## Interactive "Village of the Future" map

- The “Village of the Future” map opens a portal to an interactive world and enables the village of the future to be experienced today
- The website can be integrated into presentations and workshops in municipalities



## Workshop “Plan your village of the future”

- The workshop starts with a interactive lecture
- The participants design in groups their ideas of the village of the future
- These ideas are then presented and discussed.



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