### Valencia de Alcántara / Team 3 HARVEST 4.0



Europan 13-14 Inter-Sessions Forum – Workshop

### ARCHITECTURE TO THE RHYTHMS OF CITY AND NATURE

To arouse interactivity at the European level, Europan and the Junta de Extremadura invited the E13 winning teams (winners and runner-up) for 4 days to consider and design scenarios on the E13 session topic –"The Adaptable City" – applied to urban contexts in the Region of Extremadura. Three urban situations were proposed for the Workshop, all three located in 2 nearby towns – Olivenza (with 2 sites) and Valencia de Alcántara.

In a region like Extremadura, with almost 75% villages of less than 2,000 inhabitants, the city-nature relation is everywhere. Nothing can be done without considering the presence of the rural environment, which has generated enough activity for the urban poles to develop. Still, along the years, the influence of the countryside has gradually (if not drastically) vanished, impacting on the urban spaces which therefore were deserted. So how to regenerate the urban structure through the revitalisation of urban fragments? How to consider today the limit between city and countryside? And how to take back the urban space through new rhythms and uses?

Europan Junta de Extremadura E13 Winning Teams







### VALENCIA DE ALCÁNTARA // USES & RHYTHMS How Can Urban Rhythms Be a Motor for Urban Reappropriation?

"How Can Urban Rhythms Be A Motor For Reappropriation" was the question for Valencia de Alcántara, a rural town of roughly 6,000 inhabitants, 80 km West of Cáceres and North of Badajoz. The spatial opportunities were very clear, as the Junta de Extremadura asked for inspiring concepts for the city as a whole and especially for a number of vacant or largely underused buildings in the centre – a former slaughter house, a cultural centre, a foundation buildings almost in ruins, and the fortress that overlooks the town.

The rhythms were to be found in the imbrications of scales, from the architectural to the urban and regional, against the backdrop of elsewhere also well-known problems, such as a declining economy, the rural exodus, the demographic change and the question of the future of agriculture. The teams tried to engage dynamic interactions between the conceptual

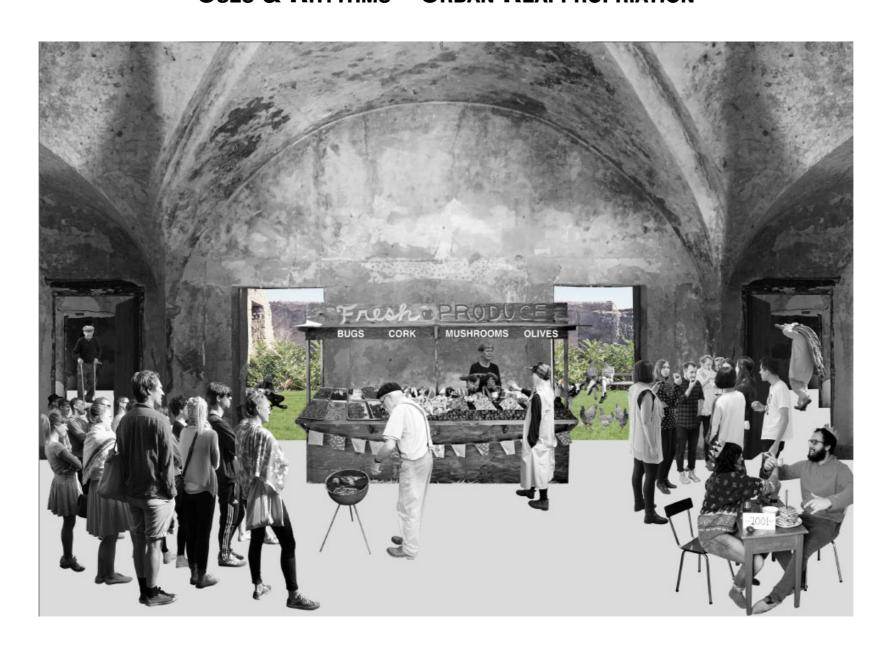
approach, the local situation and the different actors & stakeholders, and to transpose them in a storyboard, from macro to micro scale, and vice versa.







### HARVEST 4.0 Uses & Rhythms – Urban Reappropriation



"Harvest 4.0" takes Valencia de Alcántara as a case study for a shrinking town in a rural environment. A new economic system, based on an alternative food production, takes the existing space resources to develop a toolkit for activation. The authors imagine new forms of production as a superimposition of additional layers on the existing, resulting in a sort of hybrid agricultural landscape, linking the topic of food with other economic or cultural activities. There is also an attempt to investigate in a specific local potential, mixing cutting edge technology and a rural environment: drones could for example help to harvest the cork to be used to develop innovative materials.

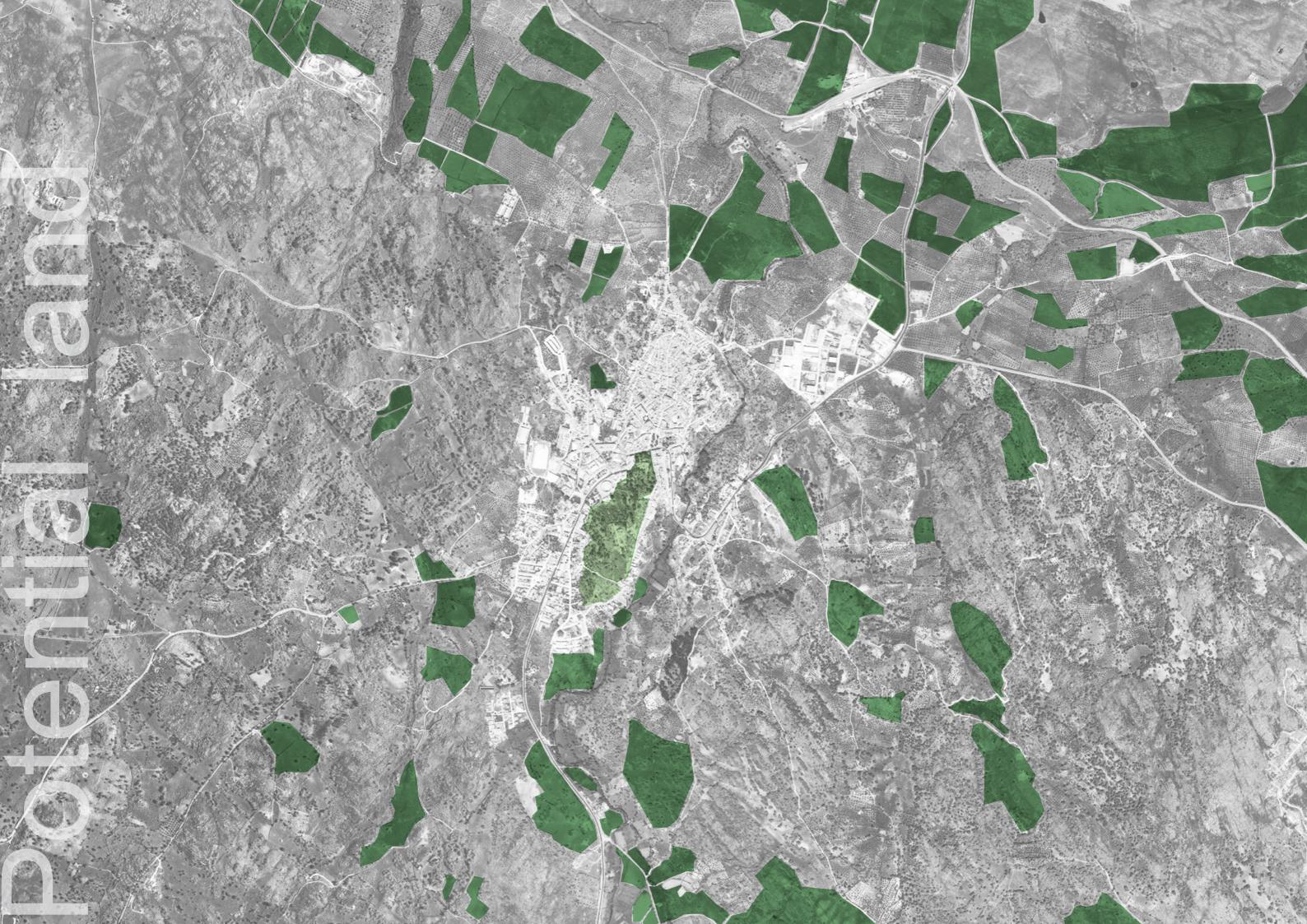
### **PARTICIPANTS**

Tomas Assved Hjort (NO), Kari Tønseth (NO), Winner in Bergen (NO) with "Our City, Our Collective" Jonathan Cacchia (FR), Runner-up in Marne-la-Vallée (FR) with "La Déprise" Gloria Castellini (IT), Winner in Trondheim (NO) with "The False Mirror" Carlos Zarco (ES), Zuhal Kol (TR), Winner in Zagreb (HR) with "Swap on the River" Runner-up in Streefkerk (NL) with "Protodike" Joana Tril (ES), Runner-up in Irún (ES) with "Ura Eta Natura" Francesca Oggiano (IT)

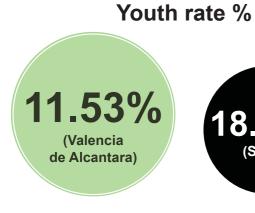
Winner in St-Pölten (AT) with "Ju(mp) in the Water Kiss That Frog" Runner-up in Azenha do Mar (PT) with "Second Lines"

Coach: Jens Metz (DE)

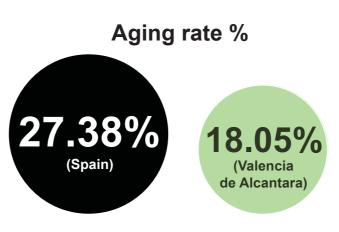


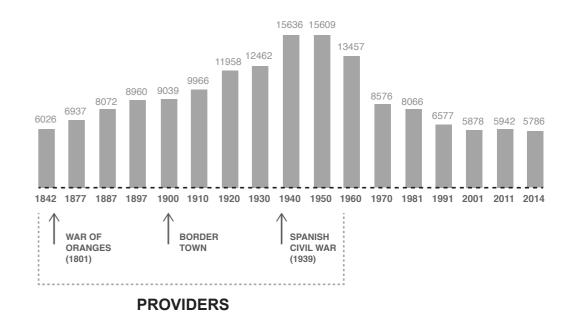




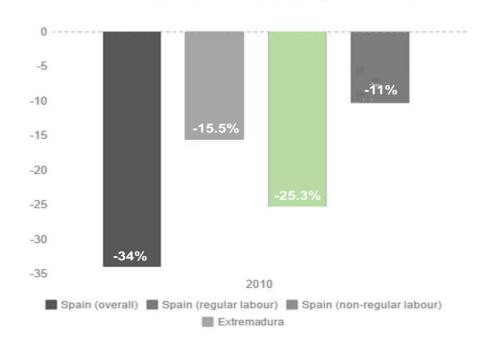






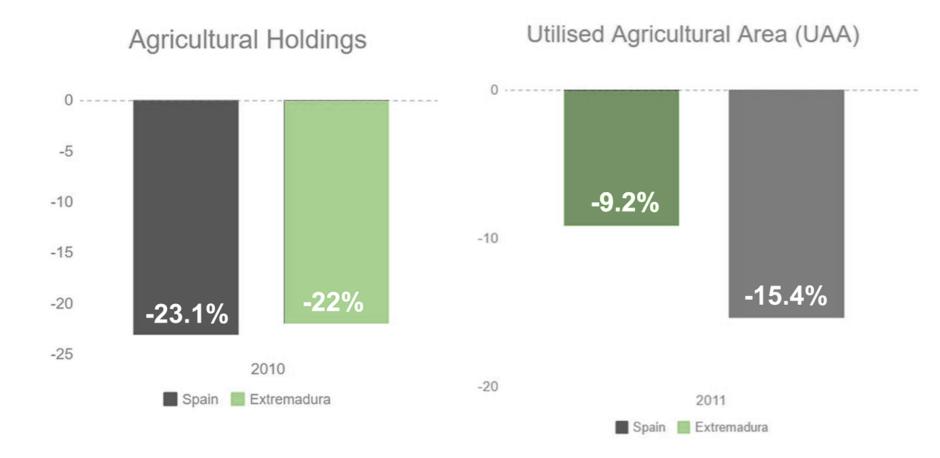




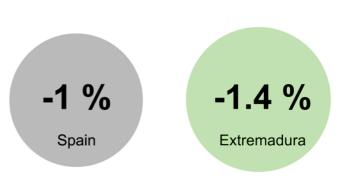




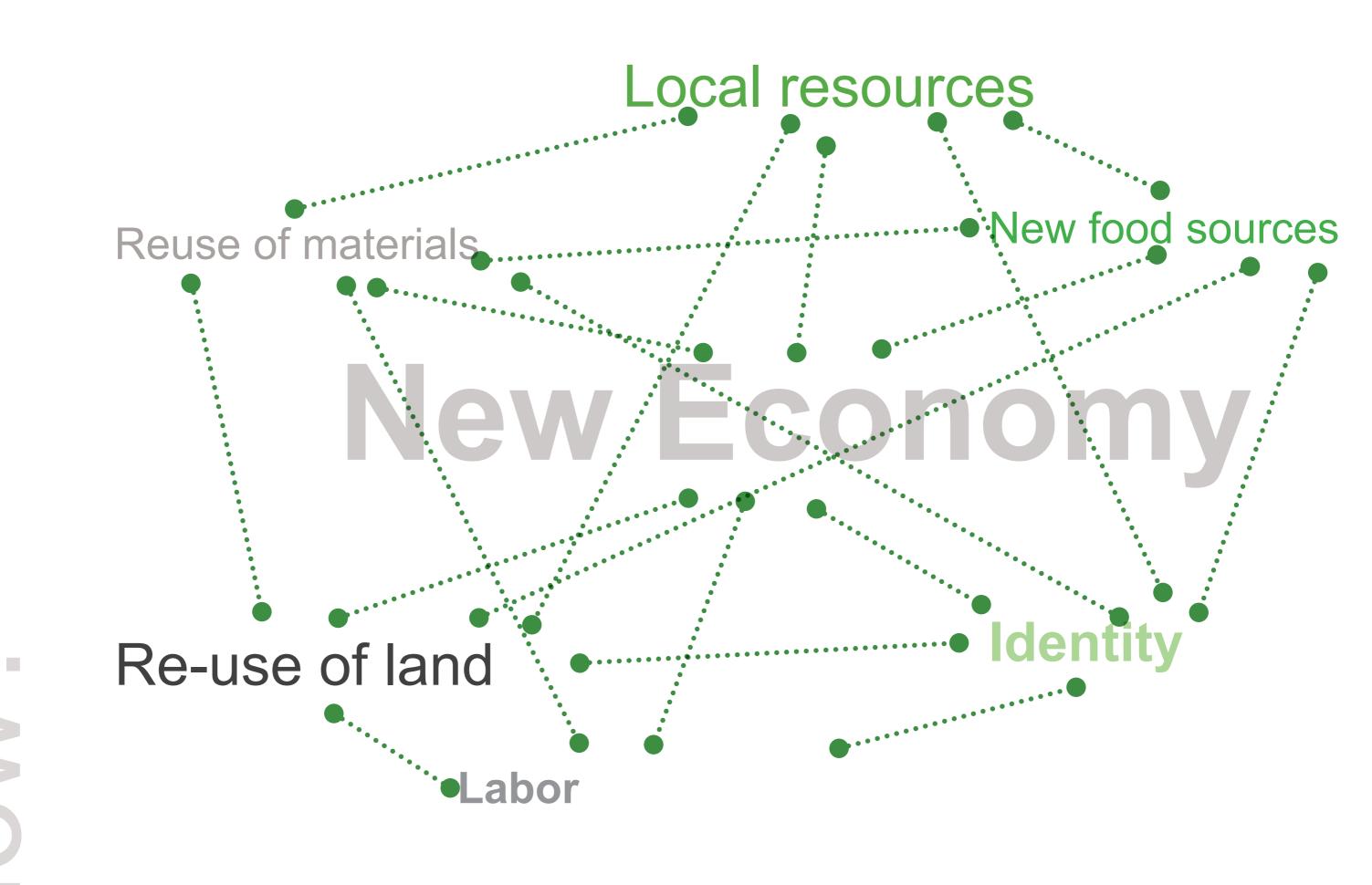
The number of persons working on farms has nearly halved in 'La Rioja' between 2000 and 2010 (-45.8 %); another four northern Spanish regions display decreases of between 30 % and 40 %. This decrease concerned both the regular labour force (-15.5%) and the direct labour force employed on a non-regular basis (-25.3 %).

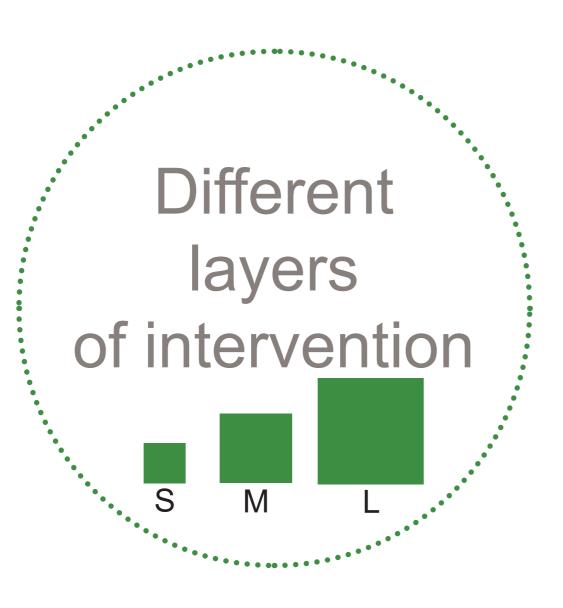


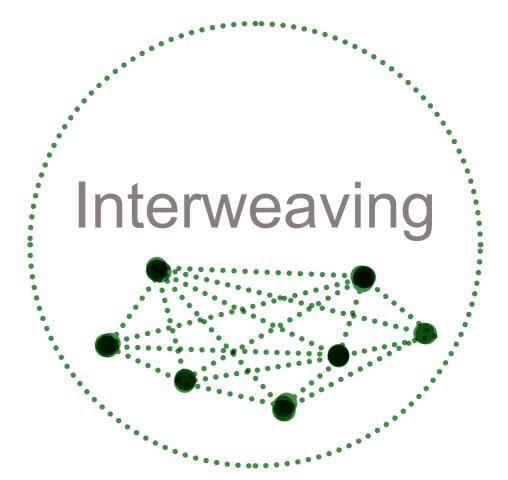


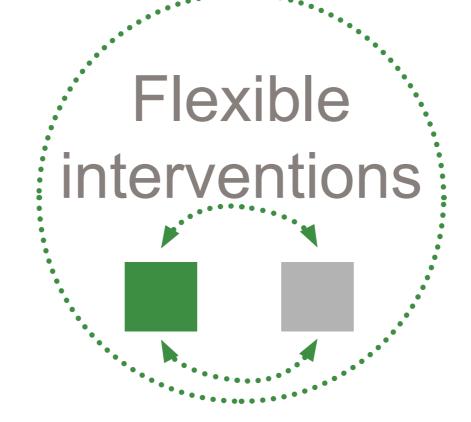


Although the Utilised Agricultural Area (UAA) in Spain experienced a decrease of 9.2 %, the overall Spanish livestock did only marginally change and amounted to 14.8 million LSU in 2010, a 1 % decrease when compared to 2000.







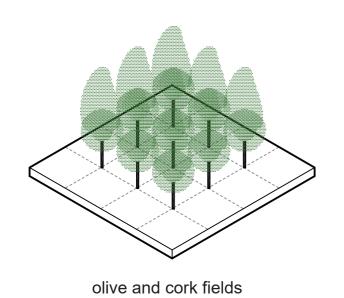


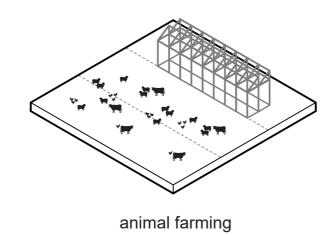
### **Productive** Landscape

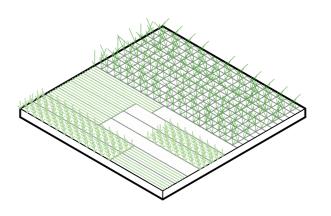


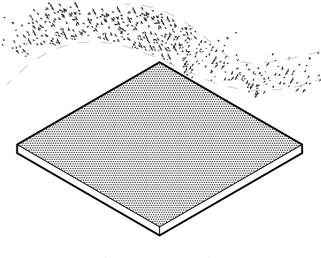
Landscape

**Existing** 



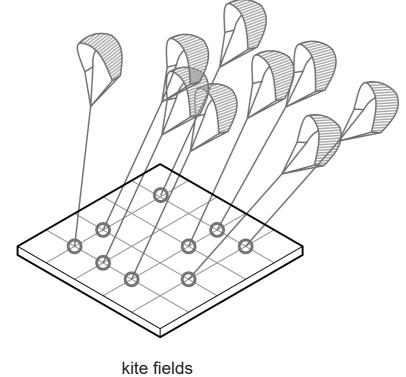




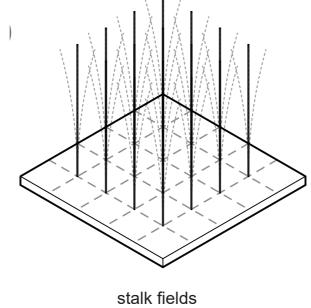


rice and maize fields

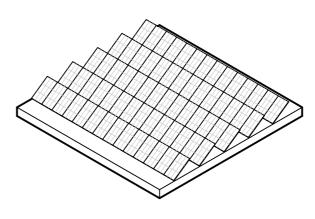
local/regional bird flocks



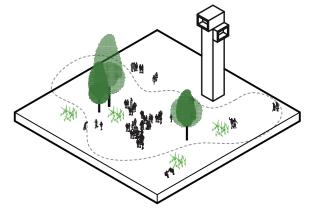
(wind power)



(wind power)



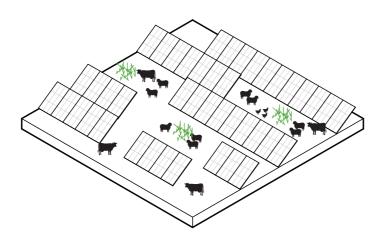
(sun power)



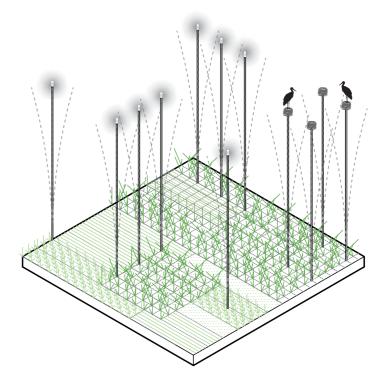
solar fields leisure activities

## **Hybrid** Landscape

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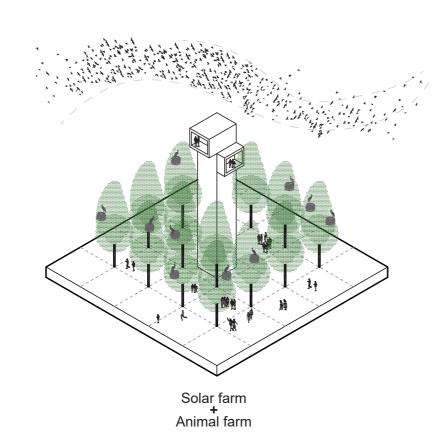


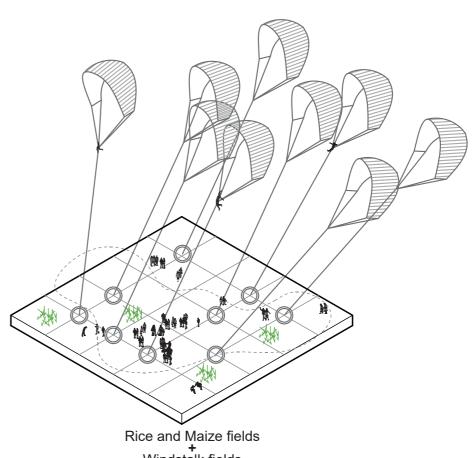
Solar farm + Animal farm



Rice and Maize fields

+
Windstalk fields
+
Bird nesting habitat





Rice and Maize fields

Windstalk fields

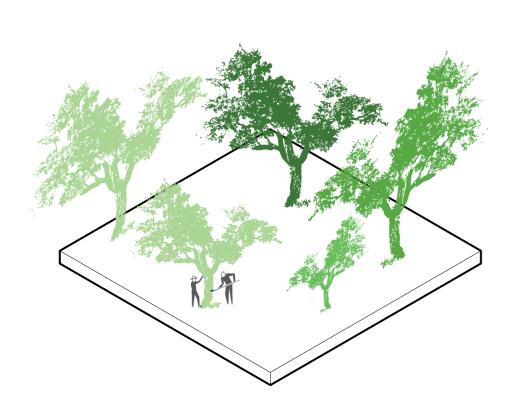
Bird nesting habitat

### Pilot Land 2 Existing features: Flexible flat area Location on an air channel Good sun exposure **Potential Implementations:** Wind & Sun energy production Stork nesting: Animal farming Rice & Maize fields Pilot Land 3 Existing features: Entrance to the city Proximity to the industrial area Location on an air channel **Potential Implementations:** Wind energy production Public park Kite fields Pilot Land 1 Existing features: Higher altitude Nutritious sedimentation Existing tree environment. **Potential Implementations:** 40 Bird observation park Cork & Olive production Bird nesting

### In-between Rural land

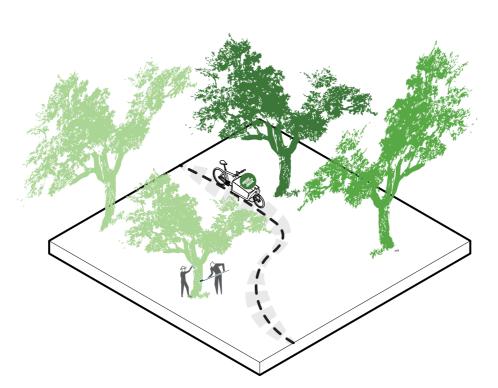
Cork production is regarded as an environmental friendly production of wood material with cork just being extracted from the tree without cutting the trees down, the extracting has a low carbon footprint being highly based on manual labour and the forests play an important role on the Iberian peninsula, preventing desertification and being home to several endangered species.

Today cork is mainly produced for the wine bottle market (60 %) maybe new innovative ways of using the cork can spark a new industry in Valencia de Alcántara?



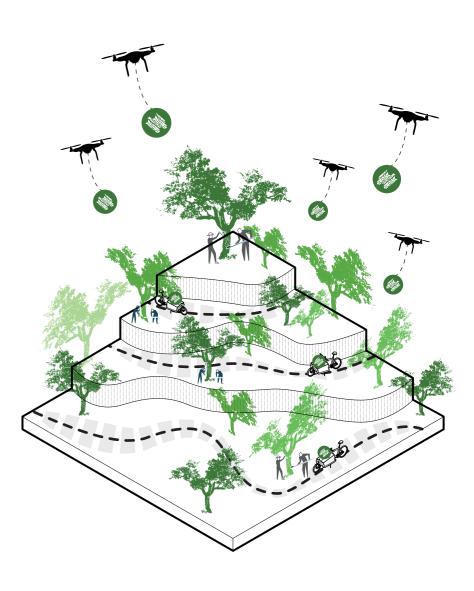
### **Cork harvesting:**

Cork is manually harvested by skilled "extractors". A tree is harvested every nine years and can yield cork wood for up to 300 years. The extracting is labour intensive since the cork woods are not accessible to large technical vehicles and it requires a certain touch and skill to extract the cork without damaging the tree.



### Introducing new helpers:

Maybe the cork extracting business could be available to a wider range of people with a little help from some automated friends. Like electric cargo bikes and drones could ease the transport of the cork material out of the woods and make it easier for the workers to travel into the woods.



### A new spring in the woods:

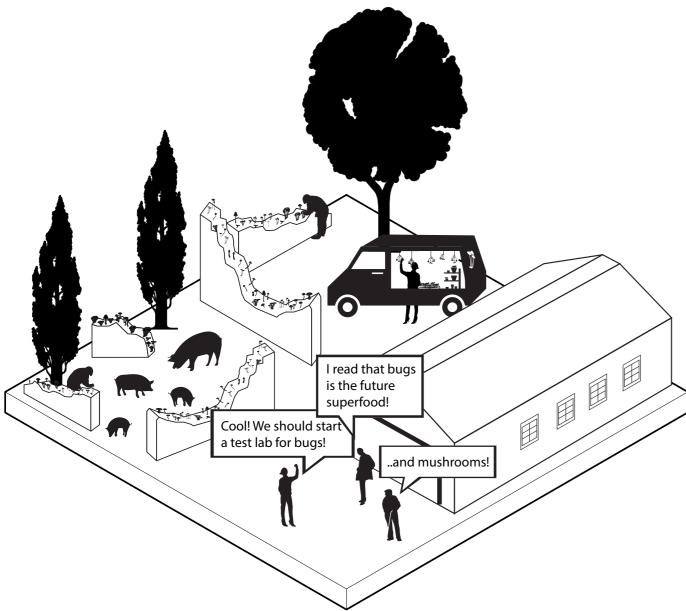
The new way of transport in and out of the cork woods could make cork production possible in more difficult terrain. Or even make it possible to culitvate the terrain in new topographic ways to generate more land surface for trees to grow. The new terrain could be adapted to make good habitats for species living in the cork woods as well.

### Rural and urban In-between Putting the VdA cork on the map: Cork has been carefully researched the last years as a material with extreme abilities like it's ability to repel water and to not deform when exposed to high temperatures. This has led to the making of composite materials containing cork to be used in components in space crafts. Maybe VdA could facilitate a factory/research centre exploring the high tech potential of the local cork and attracting a workforce with high competence. **Cork factory:** On the larger vacant lots within Valencia de Alcántara, there is a potential to establish small factories focusing on processing and refining **new** materials from the cork wood. Both materials wich can be used directly in VdA or high tech-materials which can be exported to the rest fo the world. Clean, Sound proof Lightweigh, environmental friendly easy-to-handle wall cladding building bricks insulation

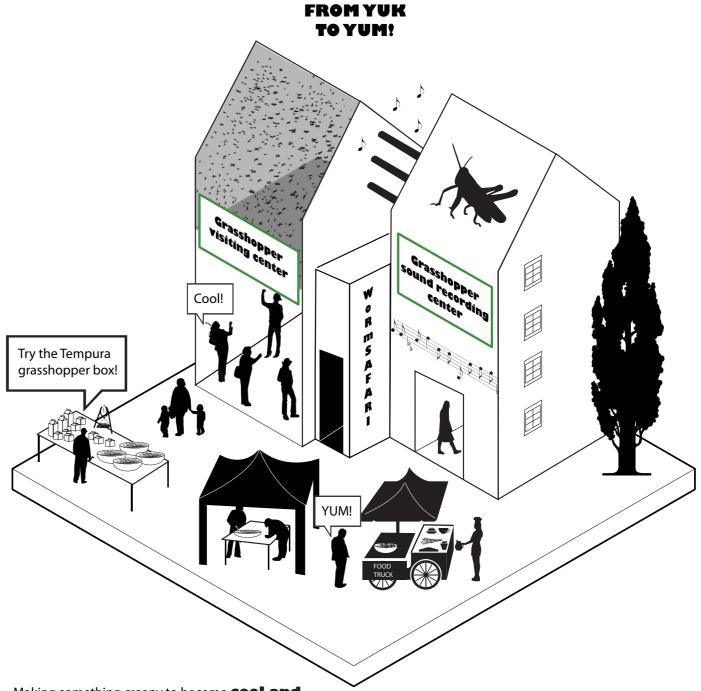
### Pilot Land 5 Existing features: Potential in-between land to establish production of the local resources in close relation to the city center Pilot Land 4 Potential Implementations: Research facilities Resource centers Small scale production facilities **Existing features:** Entrance to the city Proximity to the new industrial area ocaed near city perimeters **Potential Implementations:** Cork Forests Bike / Electric bike pathways Animal habitat

### In-between Urban and rural

### A NEED FOR NEW PROTEIN SOURCES!

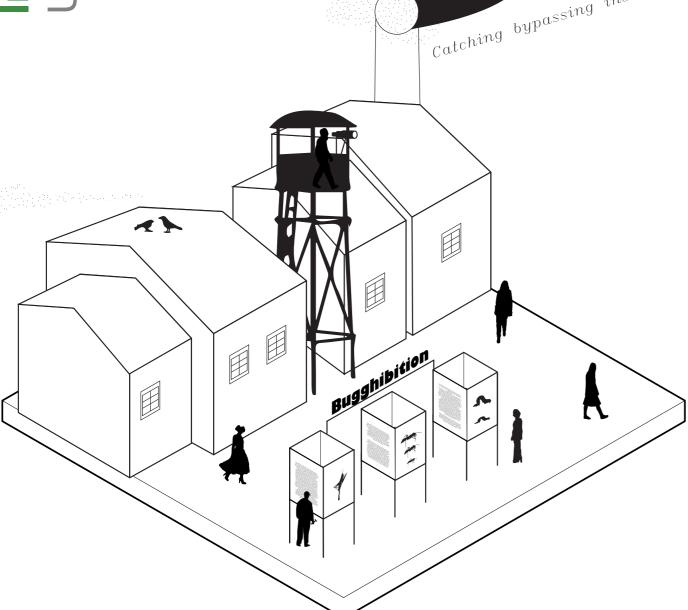


The **soil is dry and warm** in Valencia de Alcantara. The live stock industry is exhausting the land and the resources, **we need a new protein source!** 



Making something creepy to become **cool and trendy!** Pop-up restaurants, visiting centers and labour makes the insect industry super popular in all of Spain.

### catching bypassing insects New **IDENTITY** economy



LOCAL

Valencia de Alcantara is good at facilitating for look out towers, hosting events, exhibitions and working with the **local identity** throughout the seasons.



The new economy makes all the **local resources** come together, brings new ways to live and work to the table, and makes Valencia de Alcantara THE place to live!

### Urban in betweens

### Existing features: Vacant urban land

Vacant urban land
Proximity to the new industrial area
Locaed in the city

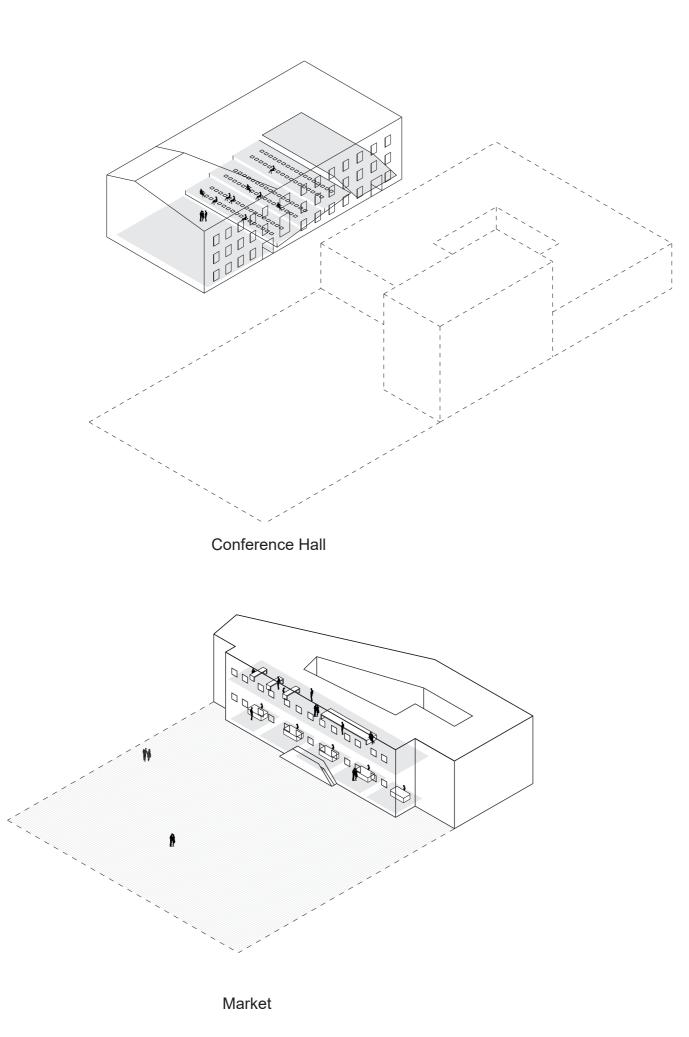
### **Potential Implementations:**

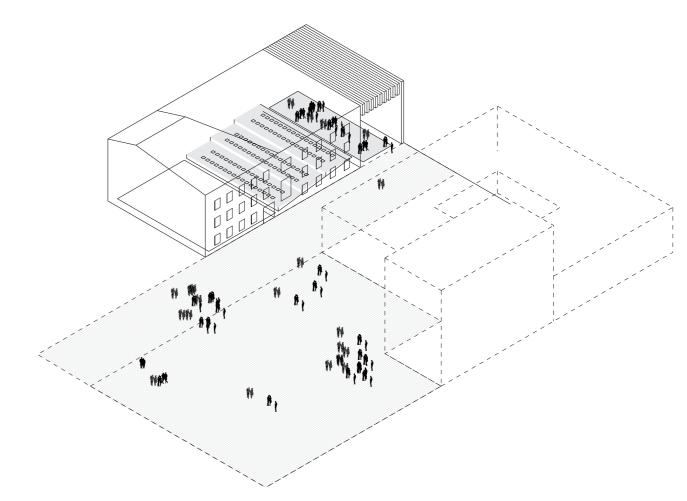
Insect industry
Mushroom industry
Social meeting spaces
Visiting centers



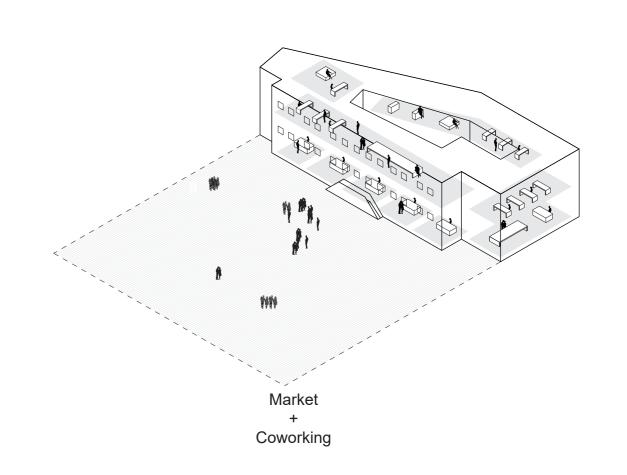
### **Existing Buildings** Strategical reuse

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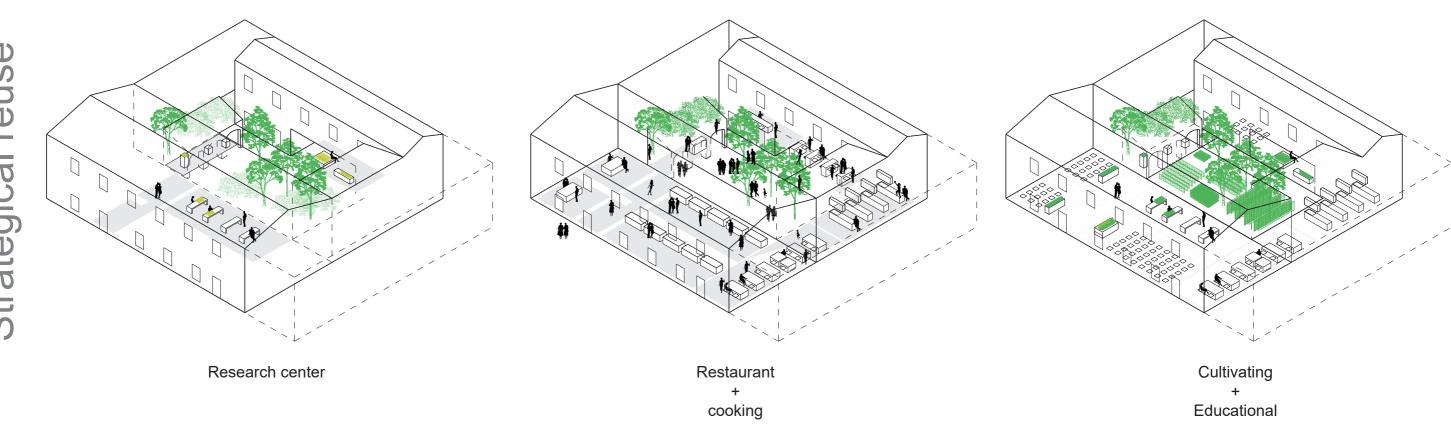




Publick in-between plaza



# **Existing Buildings**Strategical reuse



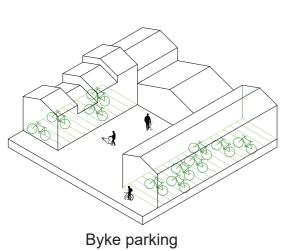
### Philantrópist's House Existing features: Spatial quality Central location Urban memory " pr. ff i may b. Potential Implementations: Flexible programmin Collective space Cultivation labs Experimental workshops Casa Cultural Existing features: **Urban Market** Centrality Capacity Already-familiar public venue **Existing features:** Public venue **Potential Implementations:** Adjacency to the plaza Info-sharing Exhibitions Urban vestibule Potential Implementations: **Financial Support Organization** Co-working

# Vacant houses

## Collective spaces

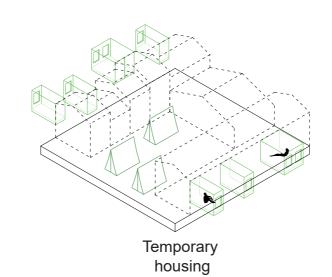
Natural resurces

Vacant houses

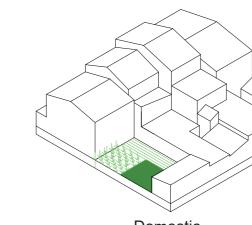


Solar collective

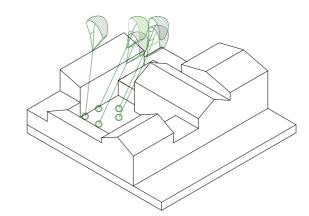
panels



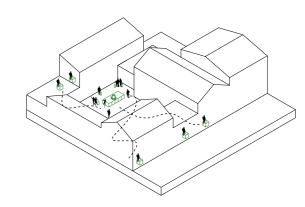
Water collection



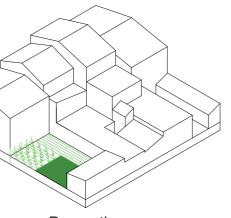




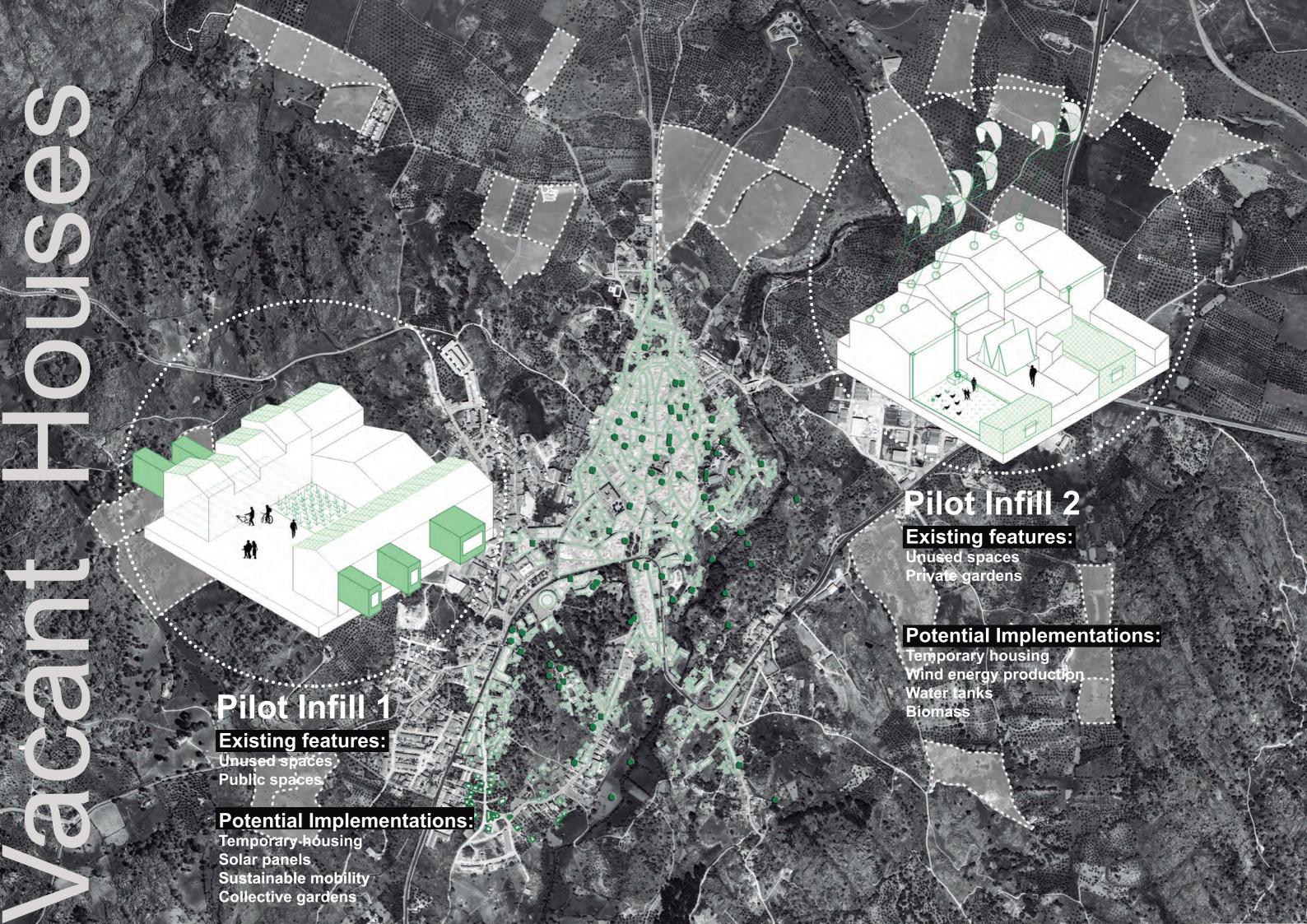
Wind energy



Collective fertilizer system



Domestic livestock



### **NETWORK OF INTERVENTIONS**

