



INDUSTRIAL RE-EVOLUTION

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Categories: [Energy and sustainability](#), [Essay](#), [High Density](#), [pepelacruzarch](#), [Urban Paradigms](#)

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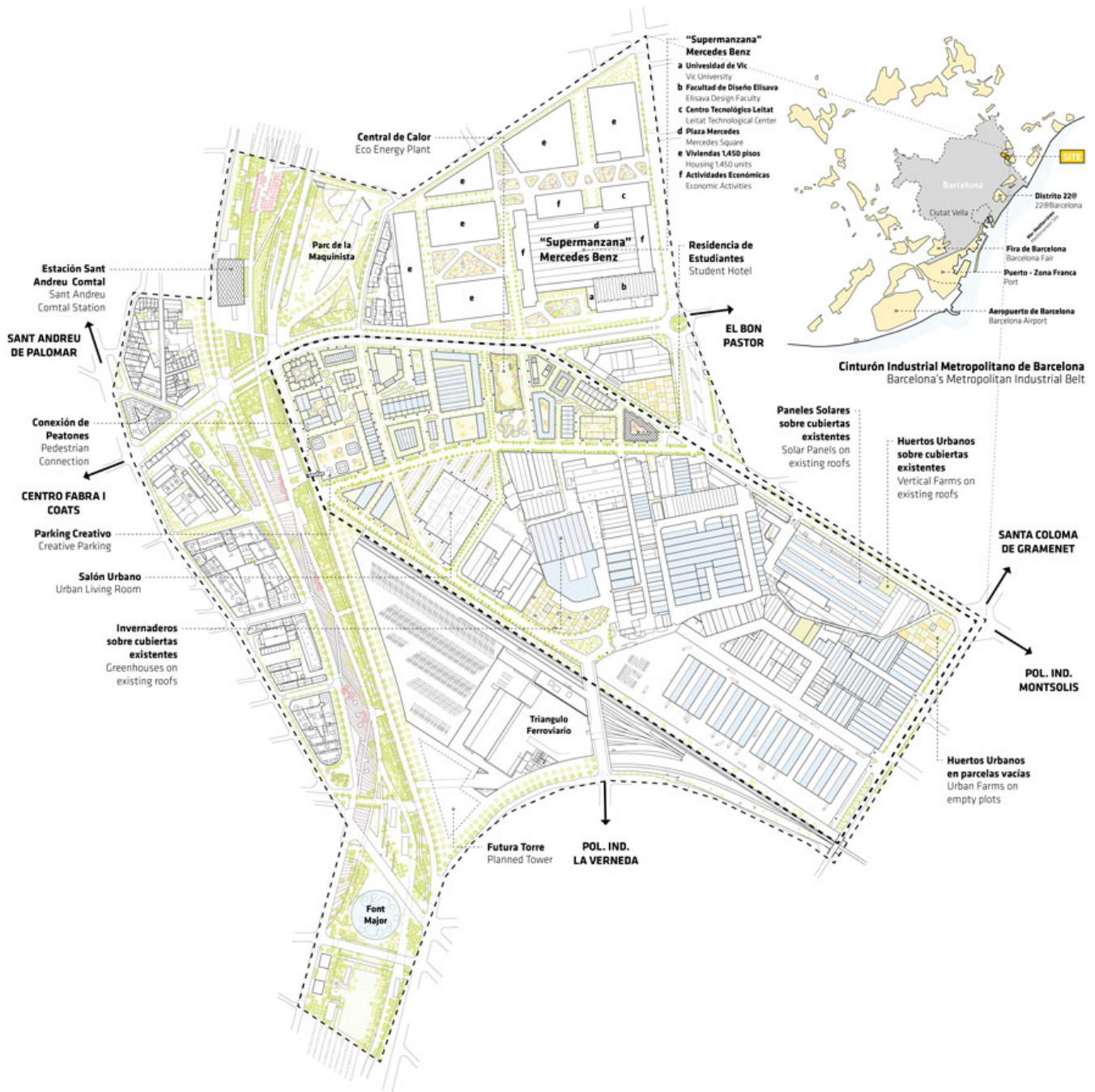
Location: Barcelona, Spain Area: 72.500 m²

Year: 2021

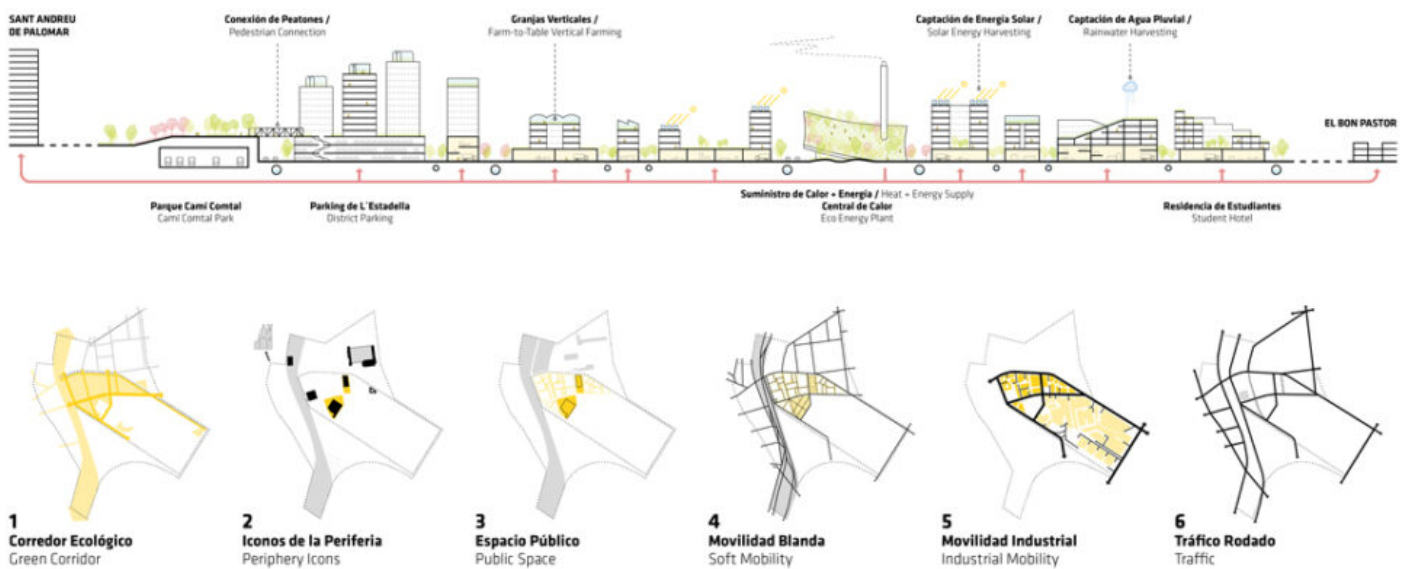
Industrial Re-Evolution is the proposal to develop and transform Torrent de l'Estadella, an industrial estate on the periphery of Barcelona. The main objectives of the proposal are: to restore the industrial estate ecologically, returning it to its original condition as a seasonal wash; to connect and integrate the industrial area with the adjacent city through a series of public space and infrastructure interventions; to and ensure that Torrent de l'Estadella maintains its productive character, proposing a new hybrid industrial building typology and generating points of reference for the city through landmarks.

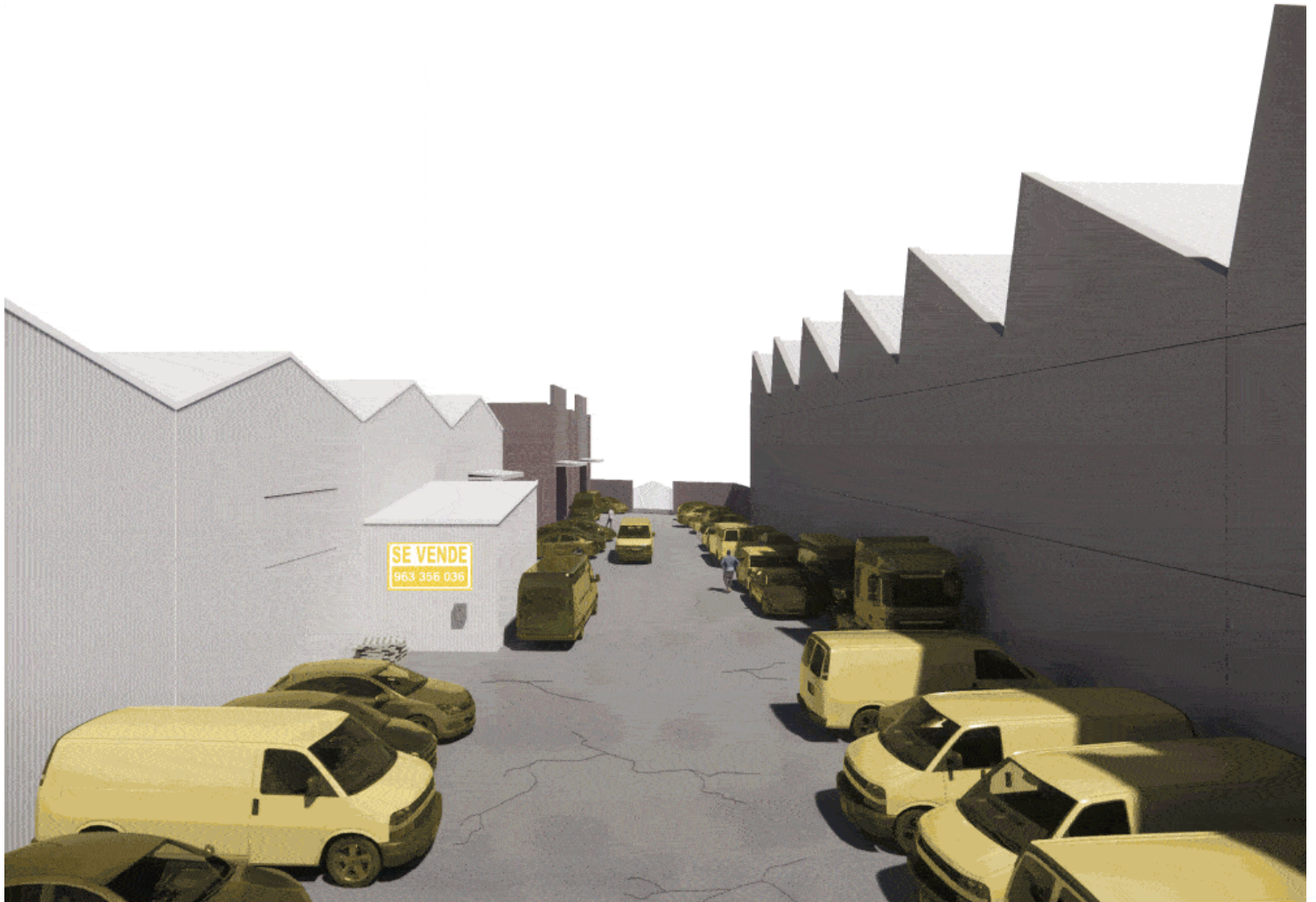


Torrent de l'Estadella is part of Barcelona's metropolitan industrial belt and one of the few industrial zones that are still within Barcelona's municipal limits. As a consequence, Barcelona's residential areas have grown around it, making the industrial estate a barrier within the city. In order to connect the neighborhoods of Sant Andreu de Palomar and Bon Pastor, the proposal is concentrated in the north of Torrent de l'Estadella, generating a continuous connection.



In terms of environmental aspects, Torrent de l'Estadella was originally a seasonal wash, which was transformed into agricultural lands, and then the current industrial estate. At present, a linear park is being developed adjacent to the site. Not only will it permit recreational activities and improve the ecological value of the area, it will also connect Torrent de l'Estadella with the city center. The proposal takes advantage of this park and extends its uses across the site, merging the ecological value of the Camí Comtal Park with the tree-lined streets of the Bon Pastor neighborhood and the Besòs River.

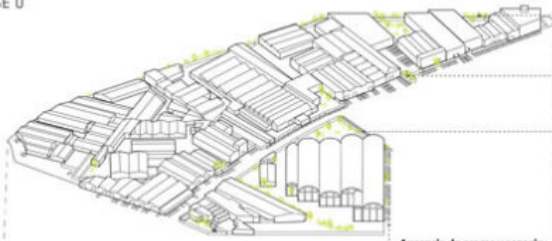




The final territorial considerations involve infrastructure: i.e., connecting the Torrent de l'Estadella industrial estate with the adjacent estate using the existing bridge that crosses the train tracks in order to improve industrial mobility and the exchange of resources between the two industrial estates and to build an eco-energy plant that can supply heat and power to the new neighborhood and surrounding residential areas.



FASE 0
PHASE 0



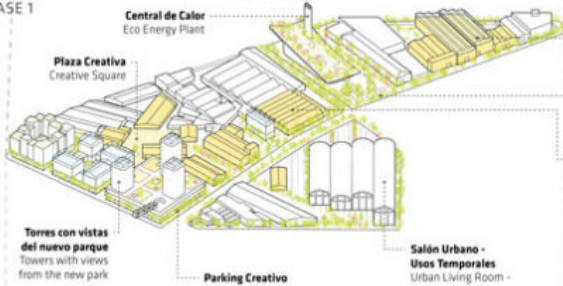
Arbolada existente en carrer de Sant Adrià
Existing Trees in carrer Sant Adrià

'Cahaveral' del antiguo torrente
Reedbed from the old creek

Calles dominadas por el exceso de estacionamiento de vehículos
Streets dominated by excess parked vehicles

Ausencia de aceras y espacio público para peatones
Absence of sidewalks and public space for pedestrians

FASE 1
PHASE 1



Central de Calor
Eco Energy Plant

Plaza Creativa
Creative Square

Invernadero Plug-In sobre edificio existente
Plug-In Greenhouse on existing building

Recuperar el Torrente
Recover the creek

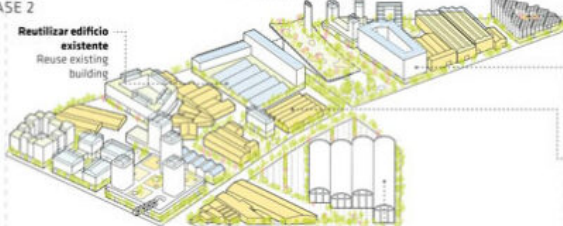
Gimnasio Temporal
Temporary Gym

Torres con vistas del nuevo parque
Towers with views from the new park

Parking Creativo
Creative Parking

Salón Urbano - Usos Temporales
Urban Living Room - Temporary Uses

FASE 2
PHASE 2



Reutilizar edificio existente
Reuse existing building

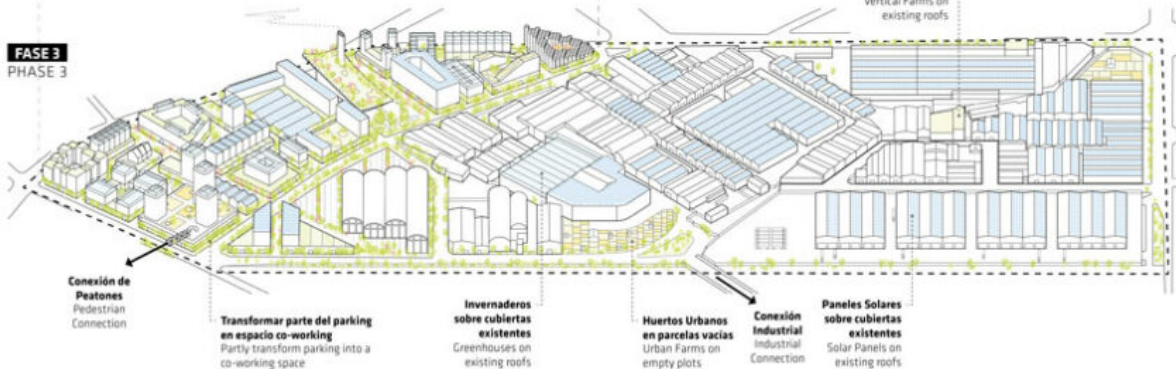
Residencia de Estudiantes
Student Hotel

Nuevo desarrollo urbano
New urban development

Mercado Temporal
Temporary Food Court

Salón Urbano - Usos Establecidos
Urban Living Room - Established Uses

FASE 3
PHASE 3



Conexión de Peatones
Pedestrian Connection

Transformar parte del parking en espacio co-working
Partly transform parking into a co-working space

Invernaderos sobre cubiertas existentes
Greenhouses on existing roofs

Huertos Urbanos en parcelas vacías
Urban Farms on empty plots

Conexión Industrial
Industrial Connection

Paneles Solares sobre cubiertas existentes
Solar Panels on existing roofs

Huertos Urbanos sobre cubiertas existentes
Vertical Farms on existing roofs

Re-Evolucionar
Re-Evolve



Fase 1
Phase 1

Re-Generar
Re-Generate



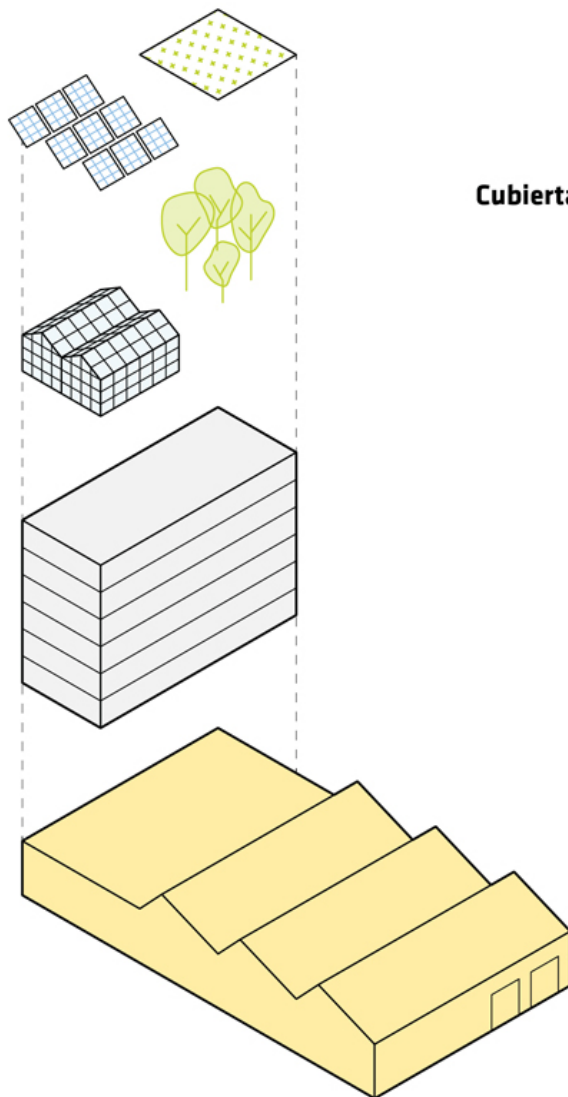
Fase 2
Phase 2

Re-Integrar
Re-Integrate



Fase 3
Phase 3

Re-Evolucionar
Re-Evolve



Cubiertas Productivas

Productive Roofscapes

Huertos Urbanos - Urban Farms

Paneles Solares - Solar Panels

Cubiertas Biodiversas - Biodiverse Roofs

Invernaderos - Greenhouses

Viviendas Bioclimáticas

Bioclimatic Housing

Pedestal Industrial

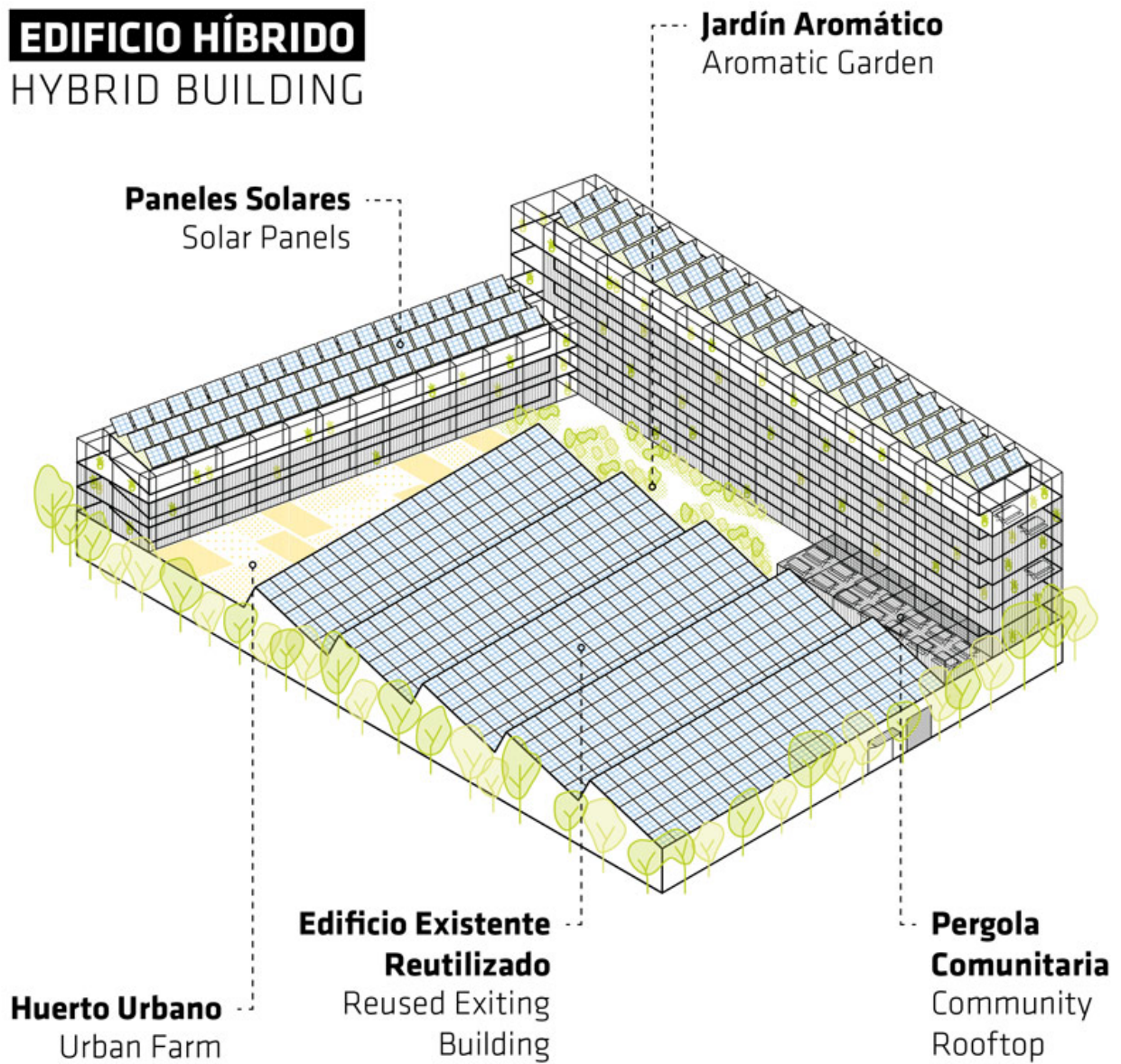
Industrial Plinth



The proposal is outlined as a series of phases or urban stages to transform the industrial estate into a hybrid residential-productive neighborhood, while maintaining the industrial activity within each phase.



EDIFICIO HÍBRIDO HYBRID BUILDING





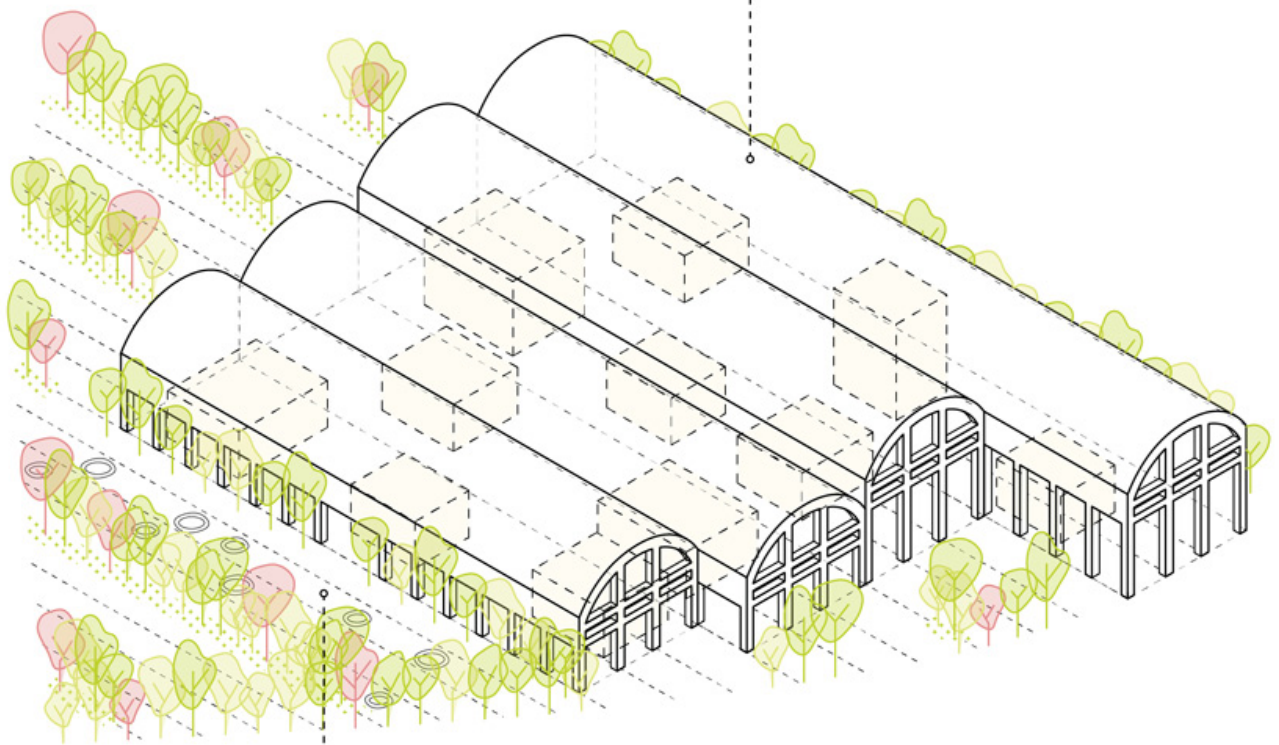
The first stage is the Re-Generative phase, which consists of giving a second life to deteriorated or abandoned structures within the Torrent de l'Estadella. In this stage, a series of hybrid buildings are developed adjacent to the Camí Comtal Park, including a parking-residential-park structure that serves both the Torrent de l'Estadella and the Sant Andreu Comtal Station across the park. This building also creates a pedestrian connection between the site and the new park. Additionally, two key buildings are included in this stage: the Urban Living Room and the Eco-Energy Plant. The Urban Living Room involves reconditioning an existing industrial building and to transform it into a covered public plaza. The Eco-Energy Plant incorporates heat and power production across the site and



provides it with a roof-park that can host a variety of events.

SALÓN URBANO URBAN LIVING ROOM

El programa se puede dividir por nave o ocupar el complejo entero
The use can be divided by naves or use the entire complex



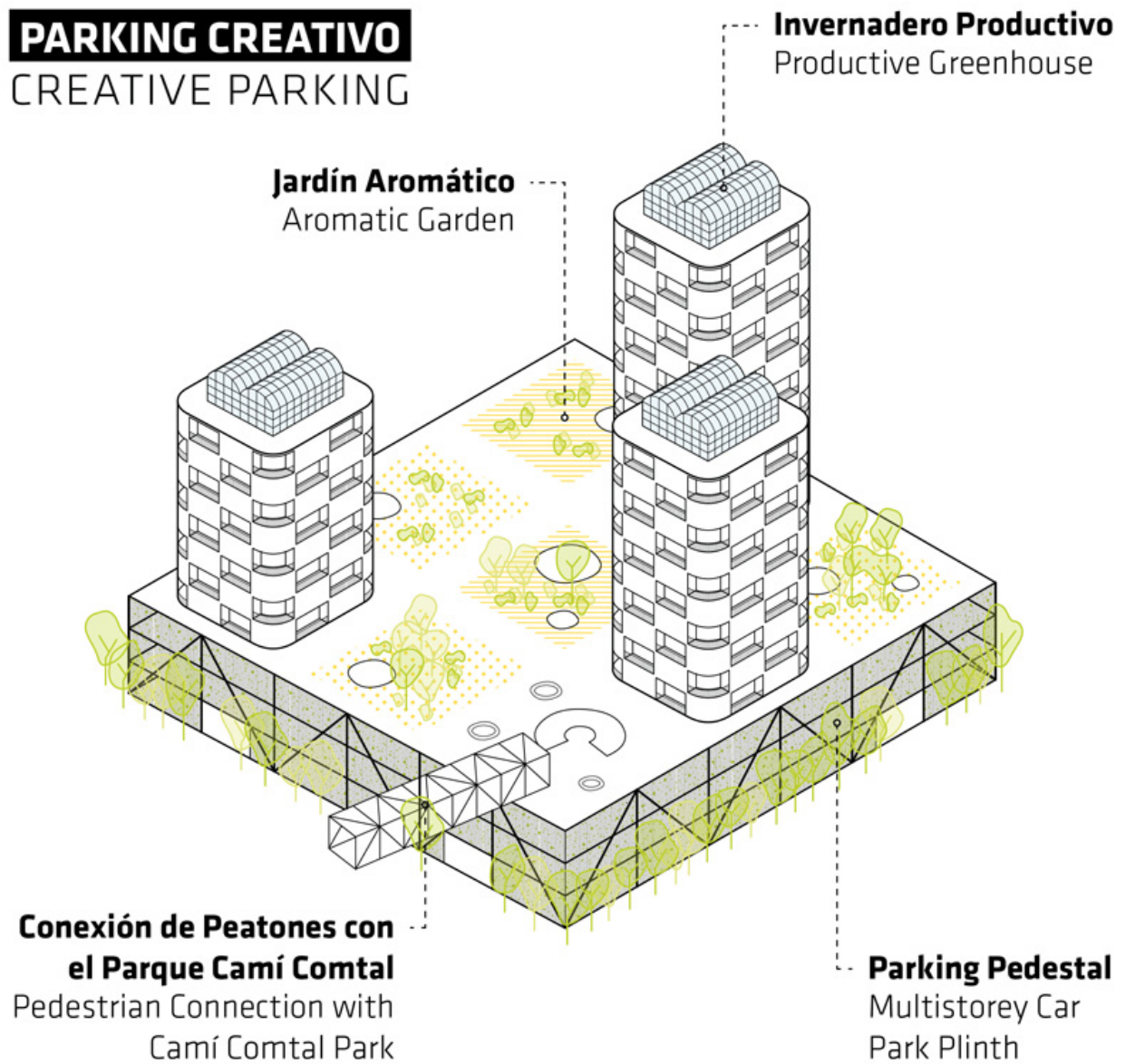
La nueva plaza sirve como una extensión del Salón Urbano
The new plaza serves as an extension of the Urban Living Room



The second stage is the Re-Integrating phase, which involves the replacement of several existing buildings with new hybrid residential-industrial buildings, as well as improving the public space between the buildings.



PARKING CREATIVO CREATIVE PARKING





The final stage is the Re-Evolution phase. It consists of the integrating and activating all the structures within the site, including new structures and renovations. By this stage, some buildings will begin to evolve and shift their use: for example, the parking structure will incorporate co-working spaces and new, more permanent uses will be added to the Urban Living Room.

CENTRAL DE CALOR ECO ENERGY PLANT

