



URBAN STRUCTURE	PRODUCTIVE INFRASTRUCTURES	CIRCULAR ECONOMY CONSTRUCTION	ECOLOGY & CLIMATE	PHASE 1 - Reactivate 2027 SOCIETY & MANAGEMENT
<b>North-South Connection: Industry - City</b> Generation of a new urban context between the 12 Forest and the center of Karlstad. Adaptation of the current industrial neighborhood.	<b>From Grey to Green</b> Industrial plots free space for extensive green areas, creating meeting places and connections with nature.	<b>Adaptive Reuse - Innovation Centre</b> Industrial warehouses are transformed into an innovation centre, promoting covering and collaborative projects in previously underutilized spaces.	<b>Maximizing Permeable Surfaces</b> Drainage pavements replace asphalt, improving water infiltration and reducing pressure on drainage systems.	<b>Friendly, Active &amp; Safe Streetcapes</b> Revitalized streets with urban furniture and efficient lighting promote active routes and safe urban environments.
<b>Smart Mobility &amp; Broader Connections</b> Promotion of public transportation infrastructure and bike lanes, that enhance a healthy environment.	<b>Creative Mobility Hubs</b> Development of infrastructure that absorbs the replaced parking spaces and allows the creation of public facilities both on the ground floor and rooftop.	<b>Wooden Building System</b> Building with sustainability sourced timber enables CO2 reductions, faster construction, minimized waste through prefabrication and efficient assembly.	<b>Flood-Resilient Landscape</b> Bioswales and retention ponds in green corridors manage rainwater, increasing resilience to heavy rainfall and seasonal floods.	<b>Stakeholders Workshop &amp; Negotiation</b> Inclusive workshops with residents and organizations promote agreements, defining priorities and consensus-based action and goals.

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<b>Active Nodes</b> New nodes on the East-West axis concentrate gathering spaces and services, reinforcing urban life at key intersections.	<b>Mixed-Use Buildings</b> Mixed-use buildings combine housing, commercial spaces, and offices, generating continuous activity and local dynamics.	<b>Adaptive Reuse - Public Spaces &amp; Amenities</b> Industrial structures are reused as plazas and public spaces that incorporate architectural heritage.	<b>Native Vegetation</b> Native species minimize maintenance and strengthen local identity, creating resilient landscapes that align with the environment. PINK STROVETIS, QUERCUS ROBUR, PICEA ABIES, BETULA PENDULA, POPULUS TREMULA	<b>Housing Needs due to Oslo-Stockholm 255</b> The 255 fast train drives demand for new developments, pushing them to areas with optimal connectivity, such as Karlstad.
<b>Development Opportunities</b> Plots are allocated with new zoning for housing developments and facilities, diversifying uses, activating former industrial areas and supporting developers.	<b>Renovating Sports Facilities</b> Fotbollshallen facilities are modernized with new finishes and equipment, improving functionality and community accessibility.	<b>Development by Scales</b> Opportunity for urban development at various scales, leading to public housing developments, private developments, or individual collectives.	<b>Promote Biodiversity</b> Green corridors with diverse vegetation create urban habitats and encourage the presence of flora and fauna.	<b>Citizen Decision Making</b> A digital platform and open forums gather citizen feedback, ensuring constant adaptation and transparency in decisions.

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<b>Context Integration &amp; Activation</b> New interventions connect consolidated areas, activating public spaces and strengthening cohesion between neighborhoods.	<b>Pedestrian Bridge Connection</b> Pedestrian bridges eliminate barriers and facilitate direct access, connecting Våxnäs with Karlstad City Centre safely.	<b>District Eco Energy Plant</b> A renewable energy plant supplies low-carbon heat and electricity to the neighborhood, promoting energy sustainability.	<b>Smart City Planning</b> A network of urban sensors measures environmental parameters, optimizing energy consumption and informing real-time adjustments.	<b>Typological Variety</b> Housing diversity (row houses, flats, cottages) offers options tailored to different preferences and lifestyles.
<b>24h City</b> Mixed uses guarantee continuous urban life, incorporating commerce, culture, and services that keep the neighborhood active day and night.	<b>Urban Mixed-Use</b> Multifunctional ground-floor areas integrate commerce and services, generating constant activity and reinforcing the street as a vital space.	<b>Rehabilitation of Existing Facades</b> Industrial facades are restored, improving thermal efficiency and preserving architectural heritage.	<b>Carbon-Neutral District</b> A combination of passive solutions achieves a neighbourhood with a net-zero emissions balance.	<b>Replicability &amp; Living Laboratory</b> An urban laboratory documents processes and results, facilitating replication in other neighborhoods and promoting the evolution of the HEJ VÅXNÄS! scheme.