



GREEN REBIRTH

REGENERATION OF SANTA RITA PARK AS A KEY URBAN GREEN SPACE IN LATINA, ITALY

DEPARTMENT OF ARCHITECTURE AND DESIGN

MASTER'S DEGREE THESIS
LANDSCAPE ARCHITECTURE

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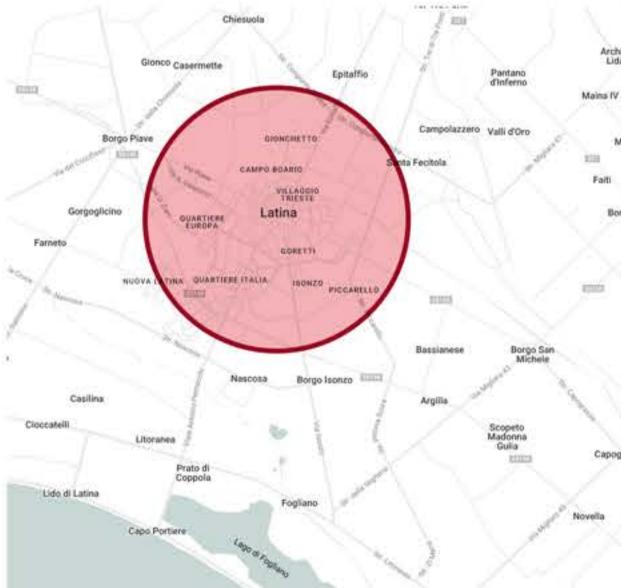
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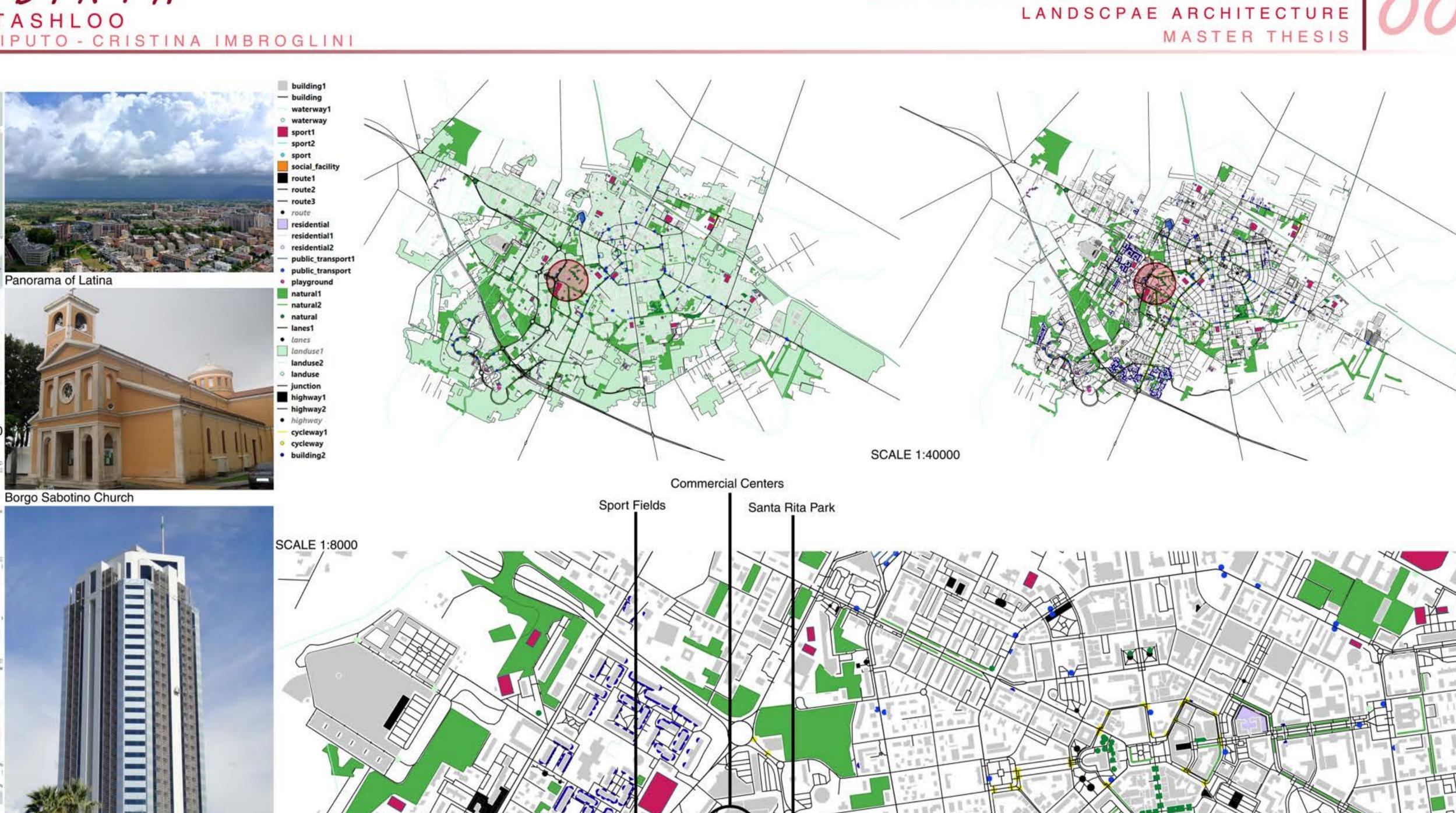
The distance between Rome and Latina is approximately 70



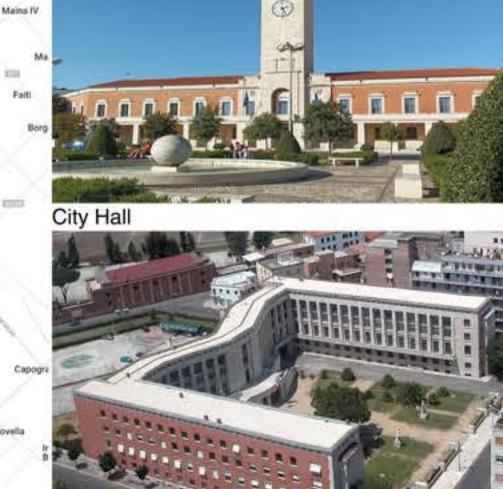
Latina is smaller than Rome in both size and population. Rome covers about 1,285 square kilometers with a population of around 2.8 million. In contrast, Latina spans about 276 square kilometers and has a population of approximately 125,000.



Latina is about 10 kilometers from the Tyrrhenian Sea. The closest beach is near the coastal town of Sabaudia.



Torre Pontina (11th tallest building in Italy)





In 1920, the area now known



STRENGTHS

- 1. Natural Beauty: Well-maintained green spaces and
- 2. Accessibility: Centrally located and easily reachable.
- 3. Amenities: Playgrounds, sports facilities, and picnic
- 4. Community Engagement: Hosts local events and

WEAKNESSES

- 1. Maintenance Issues: Occasional litter and vandalism. 2. Limited Facilities: Some amenities might be insufficient
- 3. Crowding: Can get crowded during peak times.
- 4. Noise Level: Potential for noise from events and gatherings.

OPPORTUNITIES

- 1. Event Expansion: More events to attract visitors.
- 2. Partnerships: Collaborations for resources and improvements.
- 3. Eco-friendly Initiatives: Sustainable practices to enhance appeal.
- 4. Educational Programs: Workshops and classes to engage the community.

THREATS

- 1. Funding Constraints: Possible budget cuts affecting maintenance.
- 2. Environmental Factors: Weather and environmental degradation.
- 3. Security Concerns: Ensuring visitor safety is crucial.

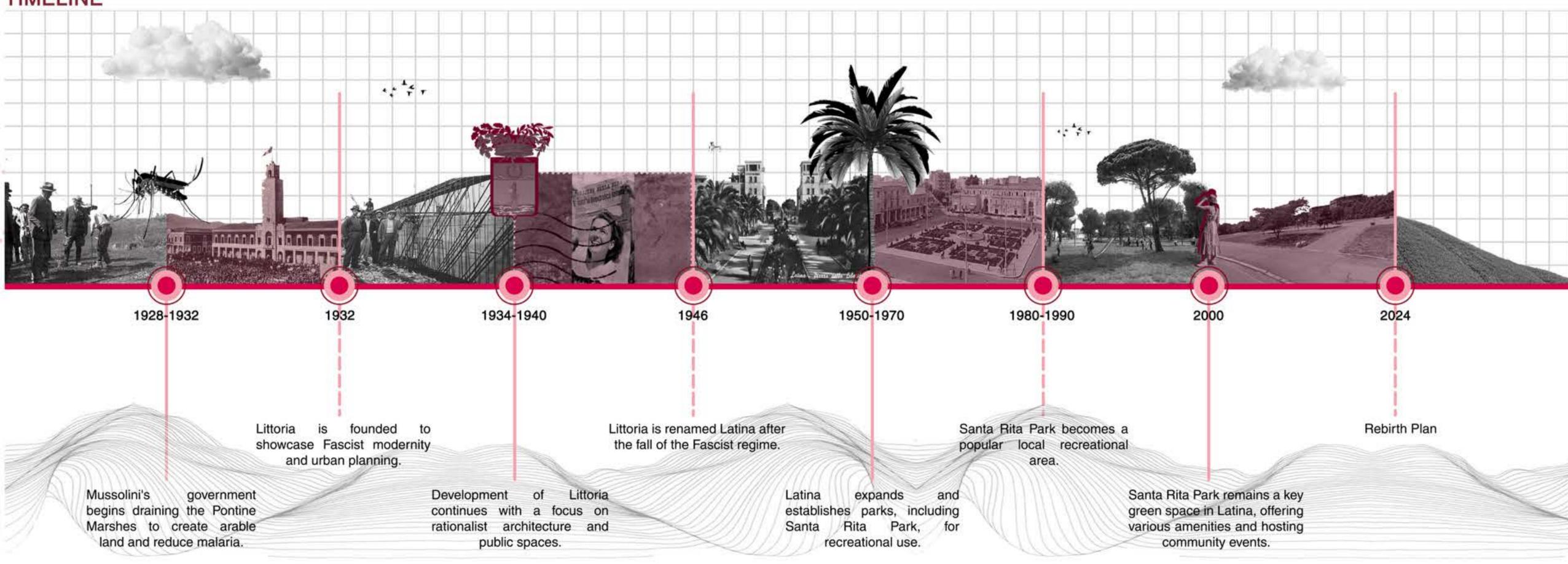


HISTORY



2010 Since 2003, when the earliest photograph of this park was taken, its architectural design and spatial layout have remained unchanged. As new buildings, infrastructure, and modern developments have transformed the surrounding urban fabric, the park's original pathways, greenery, and structural elements have stayed intact. Its preserved design contrasts sharply with the evolving cityscape, offering a consistent architectural presence amid the dynamic growth of the urban environment around it.

TIMELINE



WHY SANTA RITA?

and

and

ANALYSIS

HYDROGEOLOGY Complex of lavas, laccoliths and scoria cones Sand dune complex Complex of stratified tuffs and phreatomagmatic facies Marly-clayey flysch complex Ancient dune/Red dune on ancient aeolian deposits Alluvial plain on fluvial-lacustrine and marshy deposits Calcareous-marly area located below 1000 m above sea level Limestone and dolomitic mountains below 1200 m above sea level Articially shaped territories LANDSCAPES Agricultural landscape of significant value Valuable agricultural landscape Natural landscape Natural landscape of continuity Landscape of historical centers Networks, infrastructure and services LAND USE Artificially shaped territories Bodies and waterways Latina LT, Italy



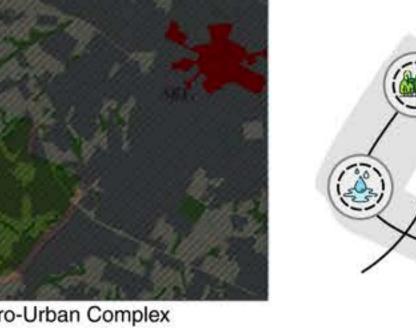




Artificially shaped territories on area II (Cultivable)

Coastal sand complex

Urban settlements



O ART



DESIGN POTENTIAL

diverse spaces make it improvements. boost encourage use by all ages, transforming it multifunctional community hub.

ACCESSIBILITY & CENTRAL LOCATION

Park's location and pathways encouraging foot traffic and community engagement. Improved accessibility strengthen its role as a vital hub for recreation and social activities.

UNIQUE CHARACTER

Rita Park's Santa character, defined by its natural landscape and history, features mature trees and diverse plant life that encourage outdoor interaction. Adding design elements reflecting the community's heritage will strengthen its identity and enhance visitor engagement.

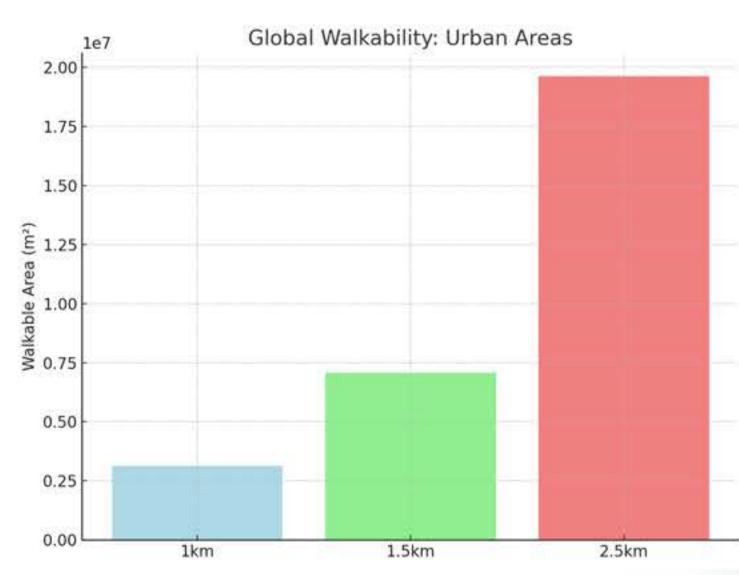
ENVIRONMENTAL POTENTIAL

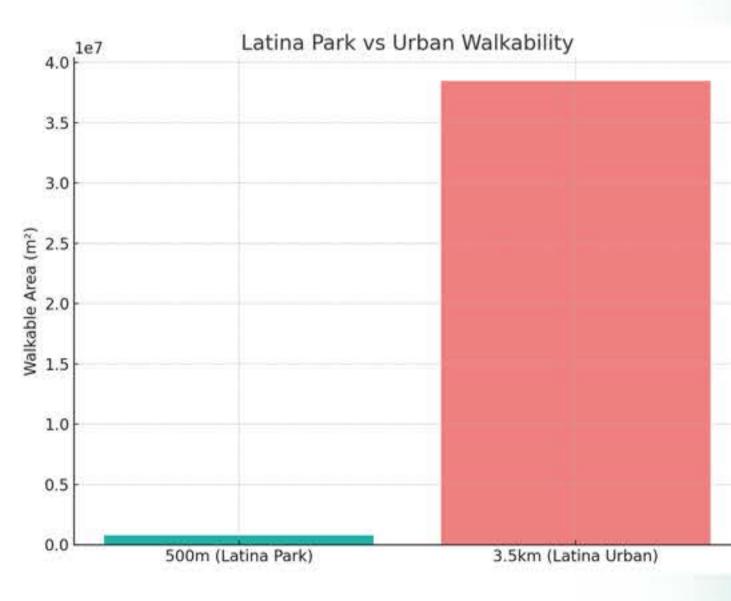
The park's mature trees and plant life boost biodiversity, while sustainable design like native landscaping and green infrastructure can improve stormwater and management strengthen community's connection to nature.

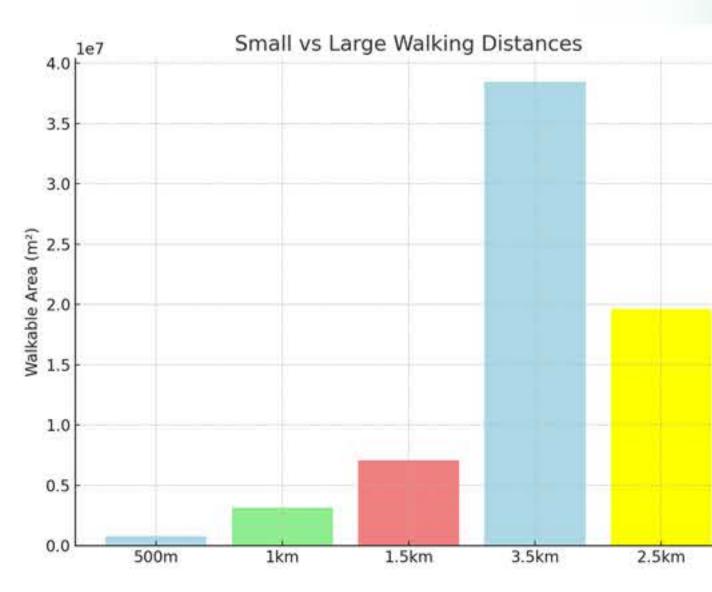


WALKABILITY

According to the World Health Organization (WHO), a walkable urban area is generally considered to be within a 3.5 km radius, which is the distance most people can comfortably walk in about 45 minutes. However, Italian law for local parks sets a much shorter benchmark for accessibility. It states that parks should be within a 500-meter walking distance from residents to ensure they are easily accessible for daily use. This contrast highlights the difference between broader urban planning standards aimed at overall walkability and the more specific accessibility requirements for local green spaces









LANDSCPAE ARCHITECTURE MASTER THESIS

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like parks and the city

center, limiting cycling's

viability and creating

safety hazards at road

intersections.



reducing comfort and making

outdoor spaces feel more

exposed. This lack of shadow

can impact the overall

ambiance and usability,

especially in warm climates.

impacts the park's tranquility. The

constant sounds of traffic, along with

voices and activities from the school

environment, making it difficult for

disrupt the natural

enjoy a peaceful

and mall,

visitors to

experience.

environmental

uncomfortable

unsustainable.

potentially making the space

adjustments for local climate,

the area may be less resilient

and harder to maintain.

conditions,

Without

opportunities activity and physical organized recreation. This lack of space can hinder community engagement and

lifestyles.

reduce options for active

MASTER THESIS

WHO IS RUDOLF ARNHEIM?

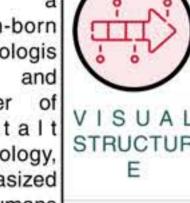
Rudolf Arnheim (1904-2007), a German-born theorist, integrated Gestalt psychology with art and visual studies, exploring how humans perceive and interpret forms, influencing the study of art, design, and media.

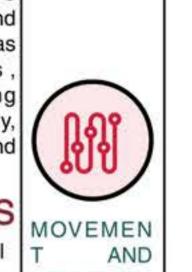


PERCEPTION THEORY

Rudolf Arnheim's Gestalt-based theory explains how visual elements like paths and focal points shape perception, balance, and emotion in landscapes, helping architects design harmonious, navigable, and engaging







EMOTIONA L IMPACT

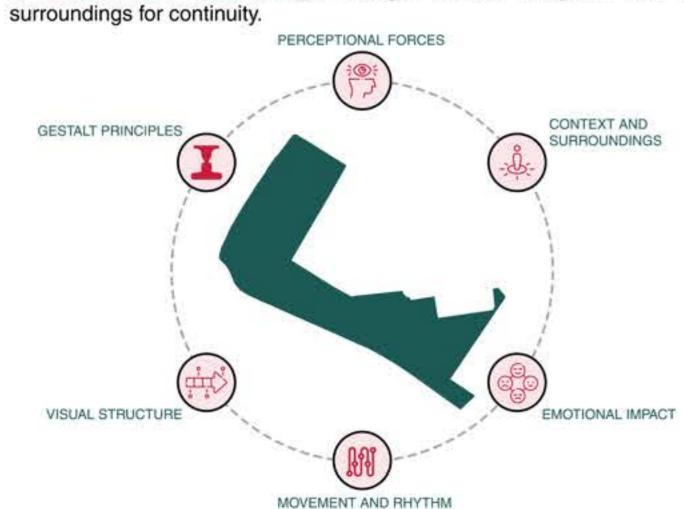
CONTEXT

SURROUN

A N



- elements shape perception and experience in outdoor spaces. Key principles 1. Perceptual Forces: Features attract attention through size, color, and
- placement 2. Gestalt Principles: Harmonious arrangements create stability and comfort.
- 3. Visual Structure: Defined pathways guide seamless movement.
- 4. Movement and Rhythm: Component interactions ensure coherence. 5. Emotional Impact: Contrast in color, texture, and form elicits emotion.
- 6. Context and Surroundings: Designs should integrate with their





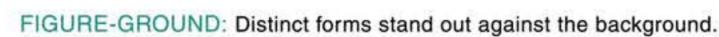


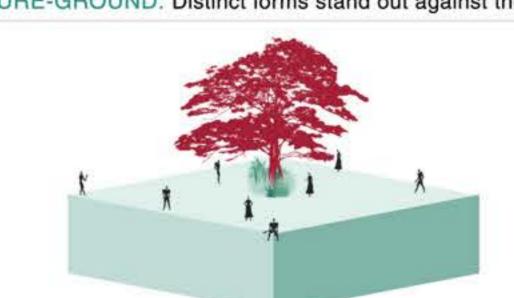
GESTAL

PRINCIPLE









HIERARCHY: Key elements dominate, guiding attention.



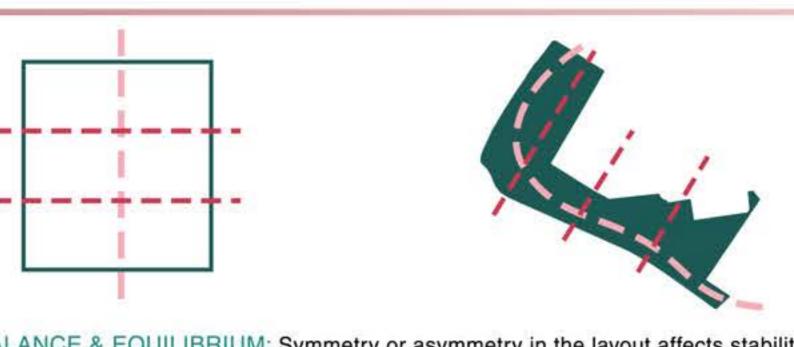
DIRECTIONAL FORCES: Pathways and design lines guide visitor flow.



TENSION VS. RELAXATION: Enclosed vs. open spaces influence mood.



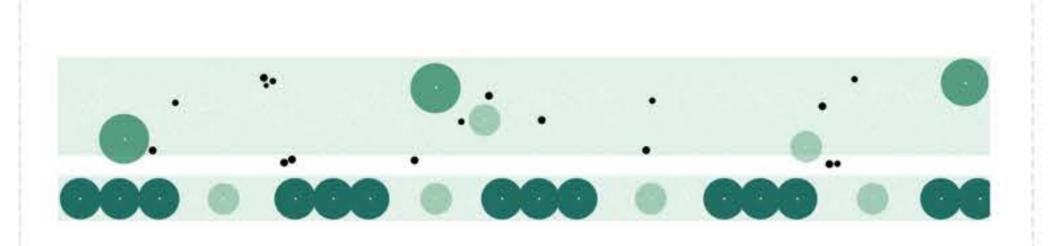
: Blending park design with urban or natural surroundings.



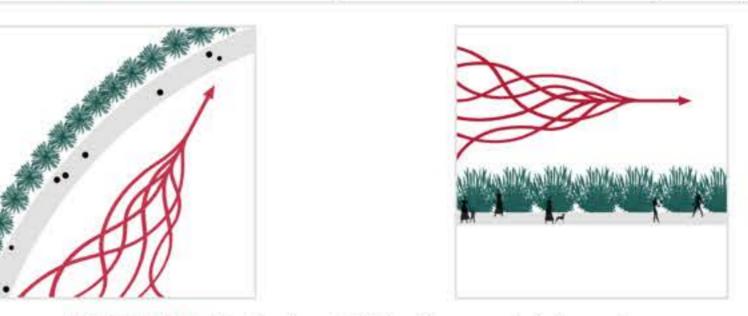
BALANCE & EQUILIBRIUM: Symmetry or asymmetry in the layout affects stability.



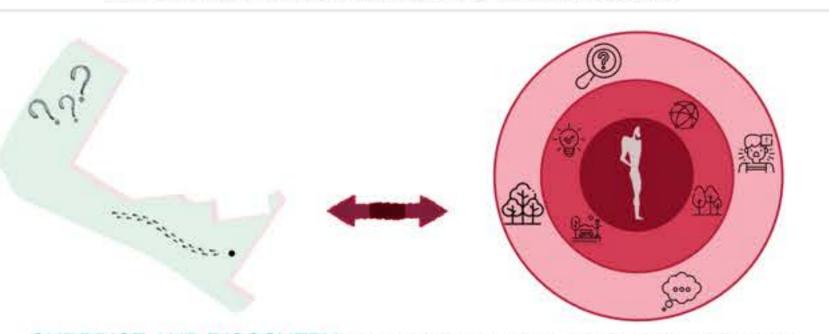
SIMILARITY: Repetition of similar forms creates unity.



PROPORTION AND SCALE: Size relationships between elements shape the spatial experience.



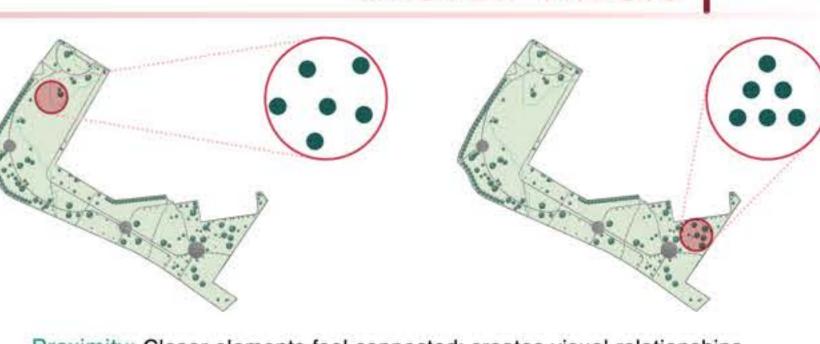
REPETITION: Rhythm is established by repeated elements



SURPRISE AND DISCOVERY: Hidden features create moments of exploration.



VISUAL AND PHYSICAL CONNECTIONS: Links between the park and nearby streets or landmarks.



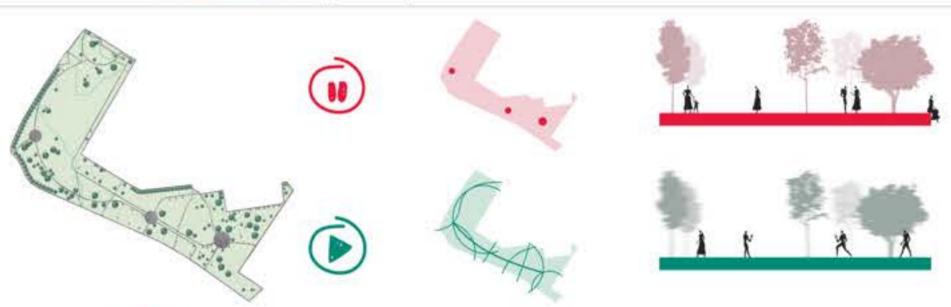
Proximity: Closer elements feel connected; creates visual relationships.



CLOSURE: The mind completes incomplete shapes or pathways, enhancing flow.



ALIGNMENT: Organized placement of elements enhances structure.



FLOW: Continuous movement vs. deliberate pauses through design features.



CALM AND SERENITY: Peaceful spaces with water, lawns, and seating.



VIEWS AND VISTAS: Framing external views.

IMPERFECTIONISM

Part 1: Imperfectionism vs. Geodesign

The concept of imperfectionism recognizes that both people and nature are inherently flawed and incomplete. Inspired by the philosophy behind the SESC in Brazil, it challenges traditional ideals of perfection, focusing instead on authenticity, character, and adaptability found in irregularity and imperfection. This forms the foundation of a design approach that values unpredictability and organic development in human interactions and natural landscapes.

In contrast, geodesign is a precise, data-driven Geographic grounded in methodology Information Systems (GIS). It emphasizes accuracy and efficiency, using spatial and environmental data to identify optimal land uses. By blending these opposing principles, the project achieves a dynamic balance between the fluidity of nature and the structured logic of geodesign, resulting in a space that is layered, harmonious, and adaptable.











Part 2: The Design Approach

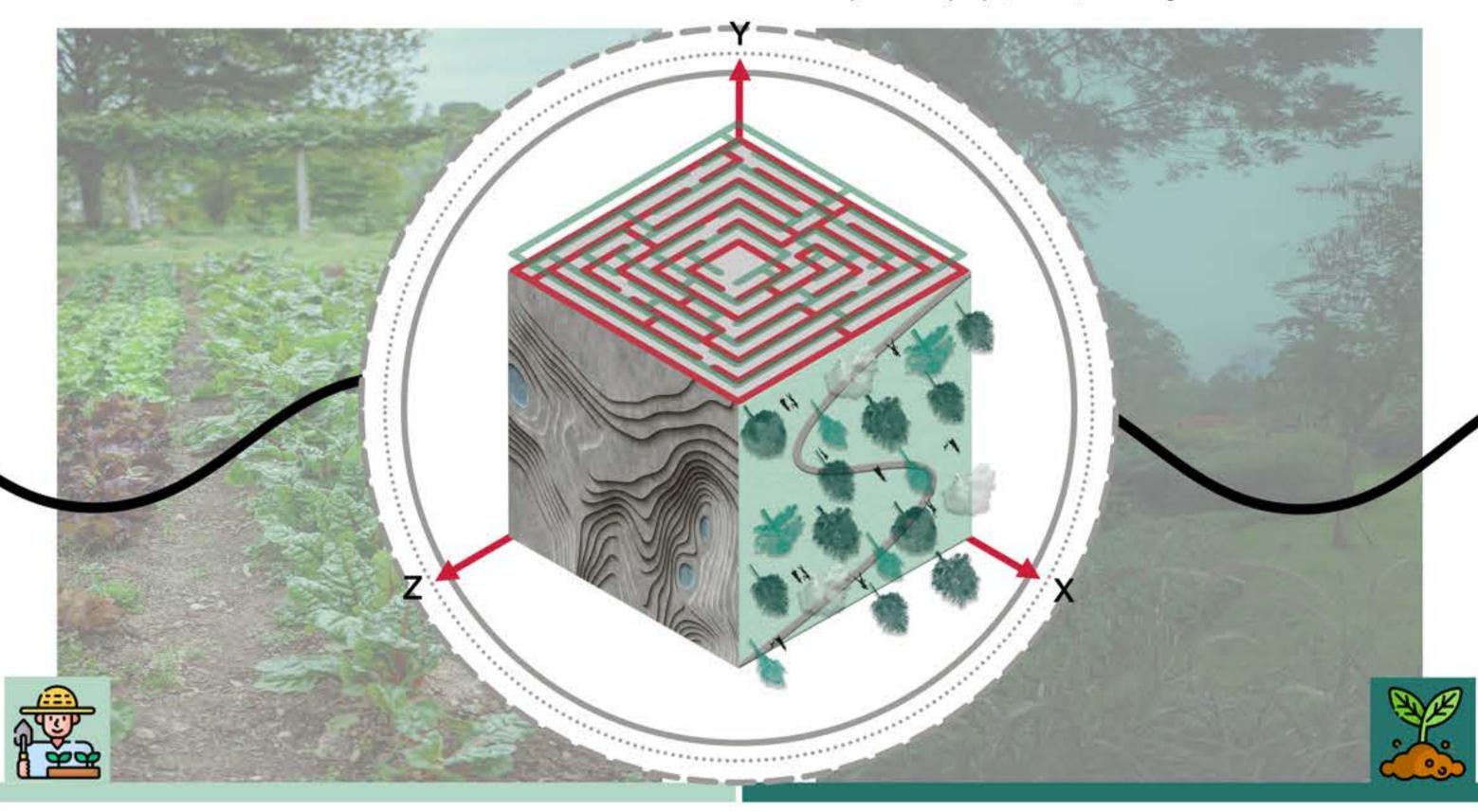
The landscape is envisioned as a dialogue between organic, curved forms and geodesign's calculated, grid-like systems. Inspired by Arnheim's theory of the imperfection of landscapes, natural asymmetry and unplanned moments are juxtaposed with methodical planning. This interplay, resembling a sine-cosine wave, captures the tension and synergy between nature's irregularity and human precision.

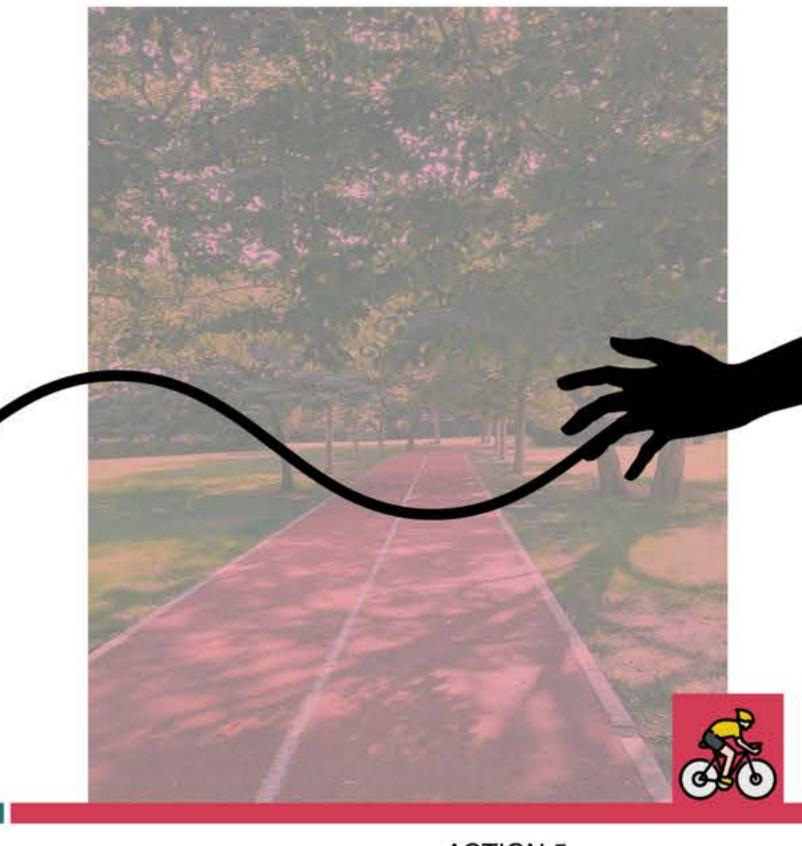
Spatial organization reflects this balance, creating a gradient between untamed nature and structured urbanity. As one moves deeper into the park, the design becomes looser and open, mirroring untouched landscapes. Closer to urban zones, the design adopts compact, grid-like forms, symbolizing structured city life. Topography enriches this gradient, with wetlands at low elevations supporting ecological needs and elevated gathering spaces offering views and interaction.

Colors, textures, and materials guide visitors through the park, using vibrant hues and soft planting for openness, while muted tones and rugged textures evoke intimacy. A bike path connects diverse spaces, weaving through urban-inspired areas and wild, untamed zones. Ultimately, the design harmonizes precision and imperfection, creating a space that evolves with its users and highlights the beauty of the relationship between people, nature, and design.

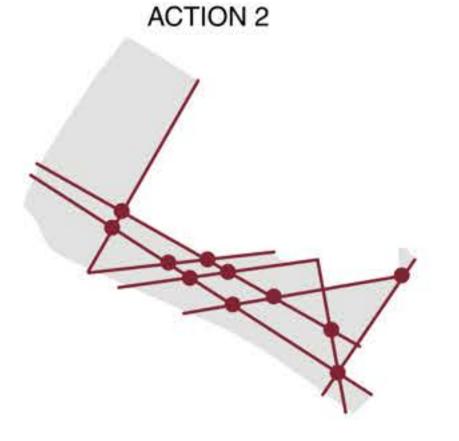




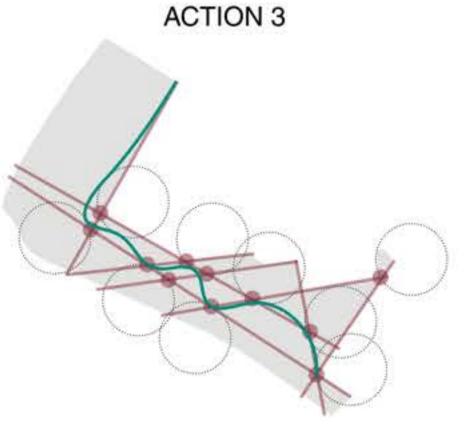




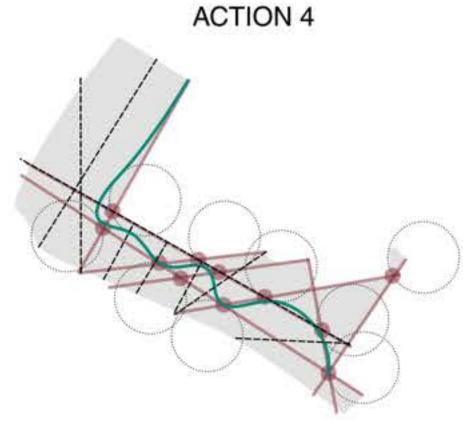
In Stage 1, the site's existing lines were extended at each corner to create a calculated network for the pathways, guided by geodesign principles rather than organic patterns.



In Stage 2, the intersection points of the lines were identified to enhance the understanding and connectivity between them.



In Stage 3, organic forms inspired by nature take shape. Circles, drawn from the nearby square's design, influence the layout, and green pathways emerge from the circular lines.



In Stage 4, the focus shifts to the needs of people, incorporating pathways naturally formed by their movement and creating direct connections between entrances.



In Stage 5, the design blends natural pathways with straight lines. Entrances are connected using circles, with straight lines reflecting geodesign principles and curved paths preserving nature's organic flow. This stage emphasizes the harmony of opposites, uniting them through deliberate imperfection.

CONCEPT

IMPERFECTIONISM in landscape architecture is a design approach that values the organic, irregular, and evolving aspects of natural spaces, rather than aiming for rigid precision or symmetry. It embraces the beauty of natural imperfections, such as uneven topography, varied plant growth, and the gradual aging of materials like stone or wood. This philosophy allows landscapes to change and mature over time, fostering a sense of authenticity and connection to nature. Imperfectionism contrasts with highly controlled, manicured spaces, instead celebrating spontaneity, natural decay, and the unique character that arises when a landscape is allowed to follow its own course.

SEAMLESS BIKE CONNECTIVITY HUB

Focus: Bike Lane & Park Connectivity

Challenge Addressed: Integrating safe bike lanes within the park and improving connectivity with surrounding urban areas.

Outcome: Cyclists feel safer and more encouraged to pass through the park, which also helps reduce vehicular traffic and integrates the park better with the city.

DYNAMIC WATER MANAGEMENT LANDSCAPE

Focus: Sustainable Water Management

Challenge Addressed: Managing seasonal flooding and water retention in an urban park setting.

Outcome: Water is managed more effectively, reducing the risk of flooding, supporting local plants and animals, and creating an appealing environment for visitors.

COMMUNITY SPACE INSPIRED BY SESC PRINCIPLES

Focus: Engaging Community Spaces

Challenge Addressed: Creating a vibrant social space that promotes cultural, recreational, and educational activities, inspired by the SESC model in Brazil.

Outcome: The park becomes a hub for community life, offering spaces that encourage social interaction, cultural activities, and a sense of belonging, much like SESC's inclusive approach.

BIODIVERSITY CORRIDORS & POLLINATOR **PATHWAYS**

Focus: Enhancing Urban Biodiversity

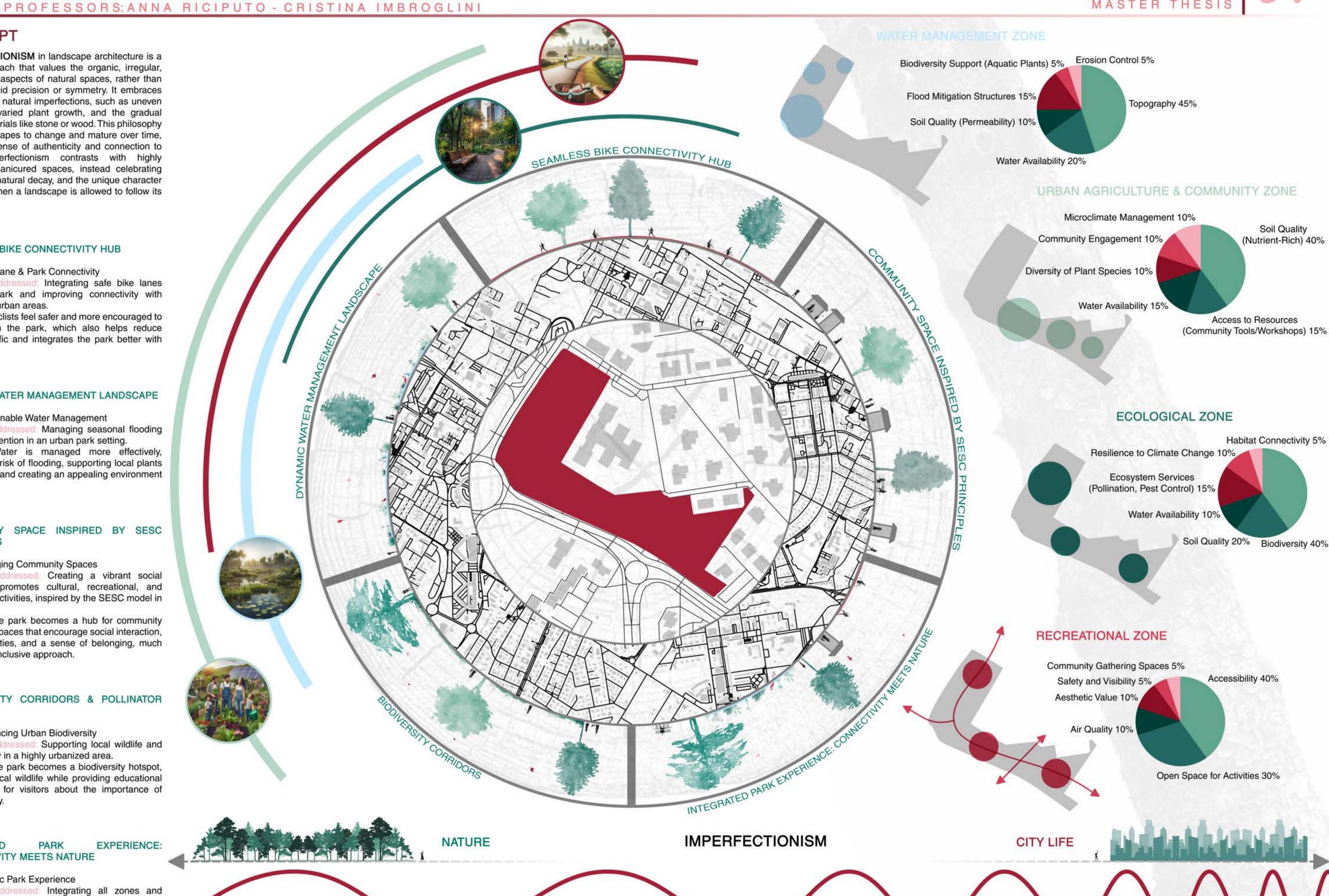
Supporting local wildlife and plant diversity in a highly urbanized area.

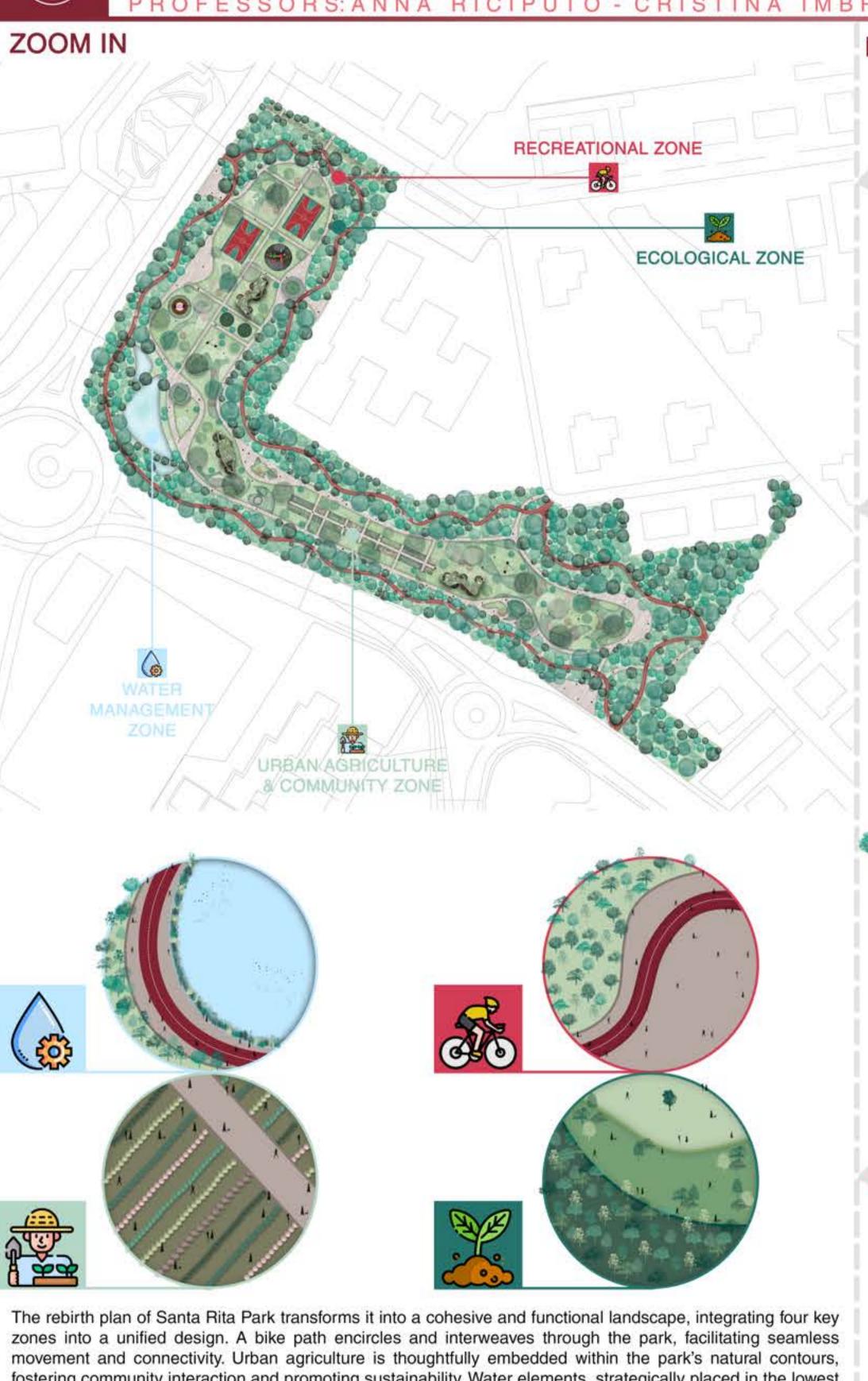
Outcome: The park becomes a biodiversity hotspot, supporting local wildlife while providing educational opportunities for visitors about the importance of urban ecology.

EXPERIENCE: INTEGRATED PARK CONNECTIVITY MEETS NATURE

Focus: Holistic Park Experience

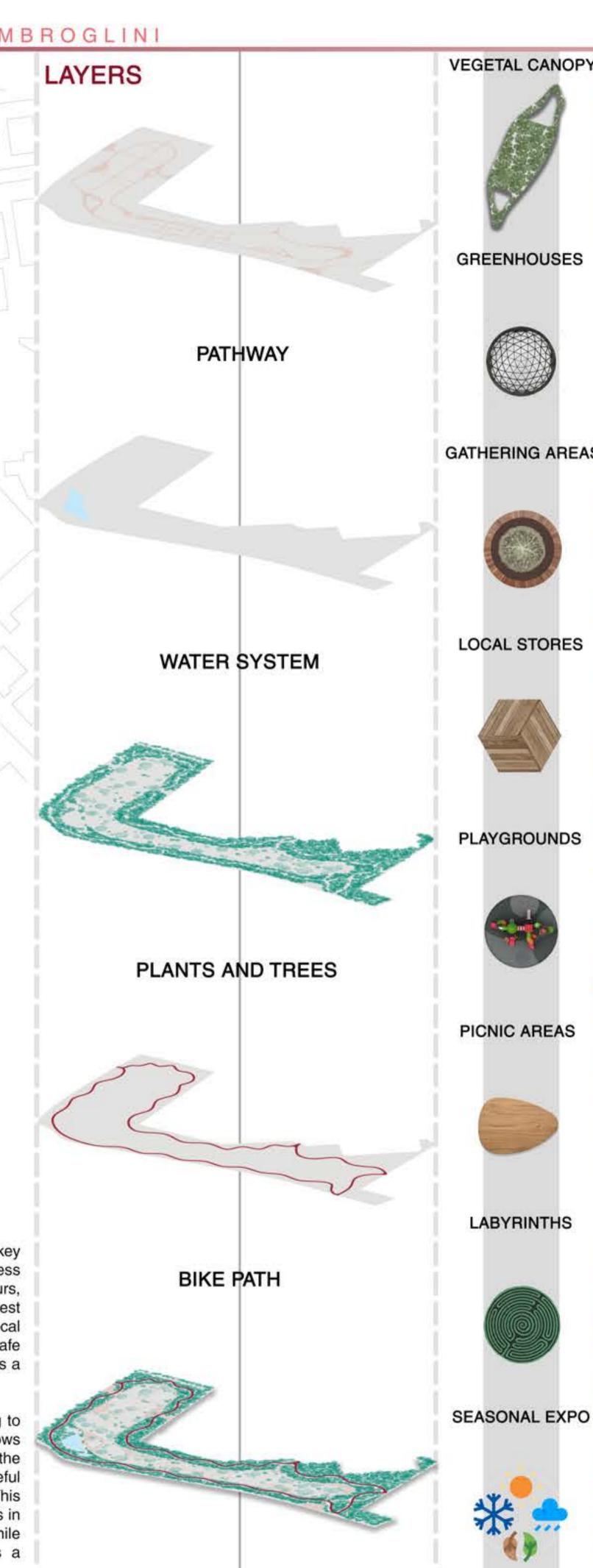
Challenge Addressed: Integrating all zones and solving the park's connectivity, community, water management, and biodiversity issues in a cohesive design.





The rebirth plan of Santa Rita Park transforms it into a cohesive and functional landscape, integrating four key zones into a unified design. A bike path encircles and interweaves through the park, facilitating seamless movement and connectivity. Urban agriculture is thoughtfully embedded within the park's natural contours, fostering community interaction and promoting sustainability. Water elements, strategically placed in the lowest areas, enhance the park's aesthetic while addressing stormwater management and supporting the local microclimate. Ecological zones act as protective buffers, shielding the park from noise and eliminating unsafe access points that previously compromised its safety. Together, these elements redefine Santa Rita Park as a vibrant, secure, and sustainable public space, embodying its rebirth as a community sanctuary.

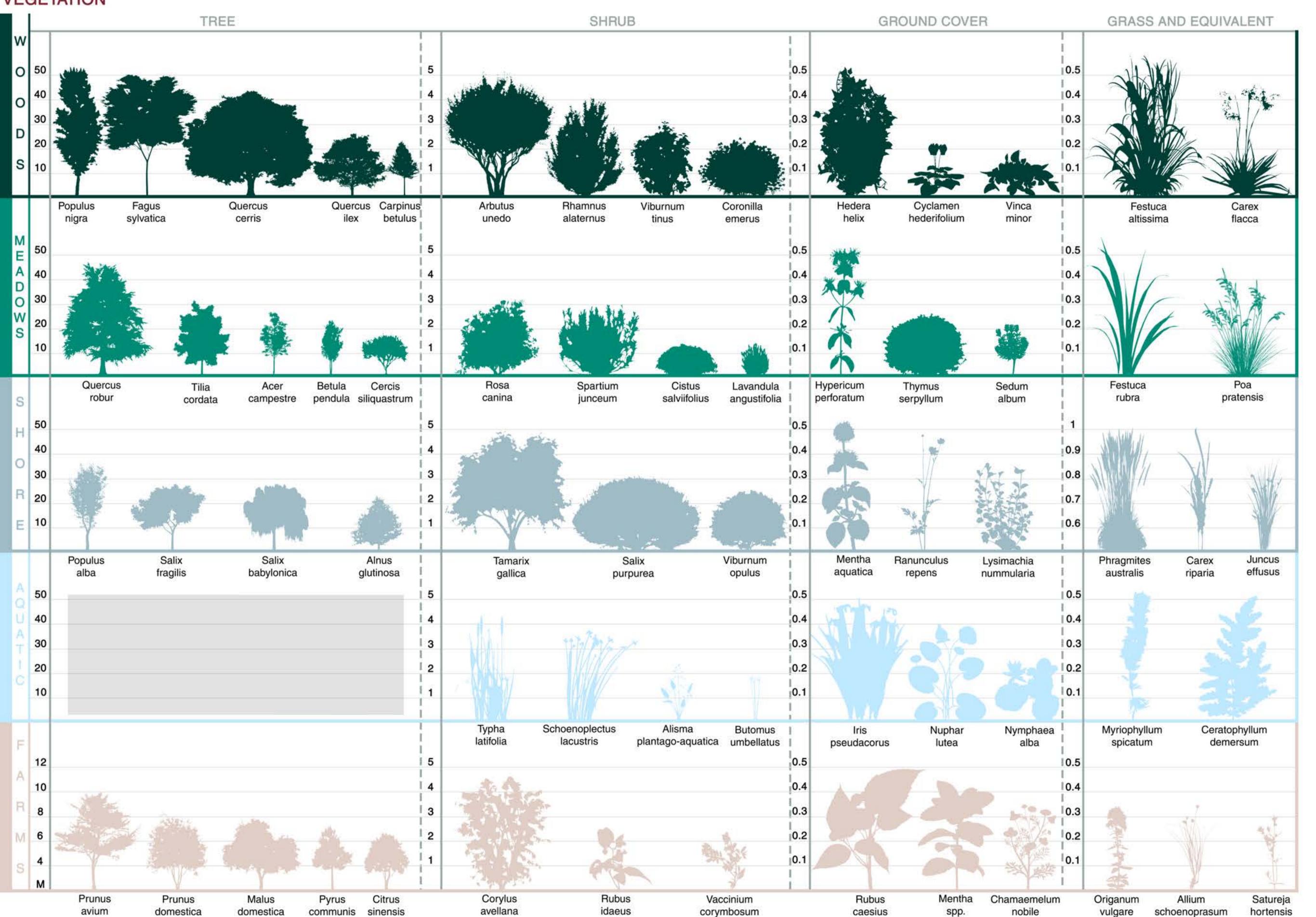
Furthermore, the rebirth plan of Santa Rita Park shifts focus to a closer examination of each part, aiming to introduce the park's features in greater detail and emphasize their functionality. This deeper exploration allows for a comprehensive understanding of how each element not only serves its purpose but also contributes to the overall harmony of the park. By highlighting these features individually, the plan will demonstrate the careful thought behind their integration and their role in creating a dynamic, safe, and sustainable public space. This detailed approach underscores the interconnectedness of the design, revealing how each component works in unison to bring Santa Rita Park's revitalization to life, ensuring it meets the needs of its community while respecting the natural environment. Ultimately, this focused analysis solidifies the park's identity as a well-orchestrated blend of utility, aesthetics, and ecological responsibility.







VEGETATION





PROFESSORS: ANNA RICIPUTO - CRISTINA IMBROGLINI









BASKETBALL/FOOTBALL FIELD

with fresh, locally sourced produce.

Basketball and football fields are vital recreational spaces designed for sports, fitness, and community engagement. These facilities provide athletes and enthusiasts with well-maintained surfaces to practice and compete, fostering physical health and teamwork. Beyond sports, they serve as hubs for social interaction, promoting a sense of community

Urban agricultural fields cultivate fruits such as apples, sweet cherries, pears, and citrus, complemented by seasonal herbs and vegetables. These spaces promote sustainable food production, enhance urban greenery, and provide communities

WETLAND/LAKE

The wetland or lake, the park's lowest point, supports wildlife, improves water quality, sequesters carbon, and enhances biodiversity.



