NISIONSEVEN Innovative planning



www.vision-seven.com





VISIONARY DEVELOPMENT TASK FORCE FOR THE SUSTAINABLE URBAN FUTURE







GLOBAL WARMING

POLLUTION





In a world where urbanization is advancing rapidly and the challenges of climate change are becoming increasingly demanding, we need innovative solutions for sustainable cities.

As a visionary task force, VISION SEVEN

is guided by seven leading experts in domains like greening solutions and future urban sustainability.

Our **philosophy**



Reduce the negative impact of global warming and air pollution

defines our **mission**

Breathe new life into urban spaces, transforming them into blooming oases, thus creating an **eco-friendly**, **liveable and resilient future for cities**.



consulting concept creation monitoring implementation analysis planning



ASTRID HAMM Master of Science Urban Greening (M.Sc.)

Urban greenery and urban ecology consultant

- Master of Science in Urban Horticulture in Sydney, Australia
- Project Work Officer Federal Association for Building Greenery BuGG

LOANA HÜLSKÖTTER Bachelor of Business Manag. (B.A.)

Vertical planting specialist

- Manufacturer of vertical planting systems including cultivation and maintenance
- Modular green façades
- Automatic irrigation
- Ground-based planting systems



PETER SÄNGER Master of Science Gardening (M.Sc.)

Green technology consultant

- Over 10 years of experience in Smart City and Urban Greening
- Moss research and Bio-Tech development
- Forward thinker of the year 2022

- Certified Business Coach Mentor and Jury Member CBC Copenhagen

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ADINA SCHNEIDER Certified Business Coach

Design-Management

- Green Start up Support
- Consultant in Agiles and
- Change Management

TIBERIU POP Master of Engineering (M.E.)

Urban design & planning Micro-Climate consultant

- Consulting and expertise in Micro-Climate research
- Programming analyst
- 3D Modelling & Simulations
- Multimedia artist

KOLCSÁR ZOLTÁN Bachelor of Business Admin. (B.Sc.)

Roof greening specialist

- University of Medicine, Pharmacy, Botany
- Bachelor of Business Administration (B.Sc.)
- 15 years of experience in the production of green roofs







At Vision Seven we act as a team of visionaries, passionate and skilled experts, who joined energies, knowledge and expertise into one visionary development task force.

We believe that informed decisions are crucial for creating and implementing efficient projects.

This is why we have developed our **7 steps approach** to efficiently improve the Urban Micro-Climate.

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/SIEPS to Urban Micro-Climate improvement

Status Quo Analysis

Existing situation analysis using Micro-Climate Digital Models

Solutions & Tools Research

Researching the appropriate Solutions & Tools to be used in the Treatment Concept

Treatment Concept Design

Developing the Treatment Concept Design

Treatment Concept Analysis Treatment Concept analysis based on Micro-Climate Digital Model

Evaluation

3

5

6

Before vs. After comparison by running simulations on the created Micro-Climate Digital Model (Status Quo vs. Treatment Concept)

Implementation

Coordinated implementation of the Treatment Concept

Monitoring

Post-implementation monitoring of the Micro-Climate and air quality



Status Quo Analysis



We analyse area's micro-climate and identify critical zones

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7 STEPS APPROACH | 1 FOR MICRO-CLIMATE IMPROVEMENT



The **Status Quo** is a holistic Micro-Climate analysis. We use specialised/dedicated software to generate a **3D Micro-Climate Digital Model** of the Analysed Area where all the important parameters related to quality of living are modelled and they interact in the simulation to generate a relevant micro-climatic overview of the Area.

Prelimary information for creating the **3D Micro-Climate Digital Model** can come from various sources:

- relevant information & maps provided by the client
- open data sources
- dedicated environmental 3D scanning services

Running this type of simulations on the generated **Digital Model** allows the identification of two main types of zones in the Analysed Area:

- critical zones prone to climatic discomfort, urban heat islands (UHI), areas that should be treated.
- **beneficial zones** manifesting proper micro-climate conditions for specific types of activities, like walking (promenades), running, cycling, other sports, as-wellas outdoors oriented economic activities like terraces. coffee-shops, etc.



Solutions & Tools Research

We grow fresh air.



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7 STEPS APPROACH 2 FOR MICRO-CLIMATE IMPROVEMENT



We provide a large portfolio of solutions & tools that are well adapted to treating various environments and/ or surfaces.

They can address domains like:

- traditional greening & planting
- biodiversity
- roof greening
- façades/vertical greening
- customized street furniture with integrated new/green technologies
- modern biotechnologies for air cooling & filtering
- urban air treatment with modern nano particles paintings that emulate photosynthesis

Most equipments can be managed remotely by using IoT and specific AI algorithms, thus providing valuable real-time data for informed decisions makers.

We select the proper tools and solutions for your project





Treatment Concept Design



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7 STEPS APPROACH | 3 FOR MICRO-CLIMATE IMPROVEMENT

In the Treatment Concept Design

stage, we combine and integrate the chosen solutions & tools in order to obtain the most efficient overall treatment applicable.

For that, we look at things from different perspectives, aiming for the sweet-spot between generated effect, maintenance, influence of stress over the integrated elements, as-well-as efficiency and durability.

For a better visual presentation, in the design stage of the concept, we generate **3D visual models** for the proposed elements/solutions and prepare visual simulations.

We develop a new concept for micro-climate improvement of the area





Treatment Concept Analysis



We determine and simulate concept's new micro-climate parameters

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7 STEPS APPROACH | 4

From the methodology perspective, the Treatment Concept Analysis is closeiy related to the Status Quo Analysis.

Using the same approach, we develop a **new 3D Micro-Climate Digital Model**, this time including changes generated by the implementation of the **Treatment Concept Design**.





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7 STEPS APPROACH 5 FOR MICRO-CLIMATE IMPROVEMENT



Sobald das digitale Modell des Behandlungskonzepts erstellt ist, ist es in der Lage, das mikroklimatische Verhalten des Behandlungsbereichs unter verschiedenen Klimabedingungen und zu verschiedenen Zeitpunkten zu simulieren.

Durch die Wahl, die gleichen Klimabedingungen wie in der Status Quo-Analyse zu simulieren, ist ein Vorher-Nachher-Vergleich möglich.

Die Durchführung der gleichen Art von Simulationen mit beiden digitalen Modellen ermöglicht es, die Effizienz des Behandlungskonzepts zu bewerten und sich die geschätzte Verbesserung des Mikroklimas durch seine Umsetzung vorzustellen.

We generate a Before & After evaluation between Status Analysis & Concept Analysis



Implementation



Benefiting from our centralized coordination and time management

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FOR MICRO-CLIMATE IMPROVEMENT



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Monitoring



18.22 °C

The current air quality is moderate.









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N G E É R



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THANK YOU

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