



PERFORMATIVE NATURE

Barcelona International Landscape Architecture Biennial

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X International Landscape Architecture Biennial

Máster d'Arquitectura del Paisatge -DUOT - UPC
ETSAB- Escola Tècnica Superior
d'Arquitectura de Barcelona
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TECHNICAL DOSSIER

Title of the project PHYTOREMEDIATION PATH FOR AIR POLUTION. WARSAW CASE STUDY

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Title of the course STREET FURNITURE AND GREEN DESIGN

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Department/Section/Program of belonging

ARCHITECTURE

University/School KIELCE UNIVERSITY OF TECHNOLOGY

Written statement, short description of the project in English, no more than 250 words

The project aims to create a phytoremediation path for the capital of Poland – Warsaw, to reduce air pollution and smog problems. Warsaw, as the center of an aglomeration is exposed to a wide range of air pollutants, which is caused not only by traffic, but also low stack-emission and industry. The air quality in Warsaw is very low and more and more onerous for inhabitants. Dangerous to health carcinogenic dusts and carbon oxides are emitted to the atmosphere. In order to improve the environment quality that inlfuences citizens's health, a system of green phytoremediation paths is created. The main paths are located along the railway on an undeveloped area, that belong to a municipality. It creates a green buffer zone alinged to the most common in this area wind direction. This measure considerably reduces harmful substances movement in the city. Along the main paths modular pocket parks were located. Species and sizes of phytoremediation plants are chosen to best fit the local conditions. Paths are created as "the walls" for the smog and quality of air improvement, and also place' aesthetic improvement. Species selection will be based on plants, which best purify the air, are easy to care and have the opportunity to grow in difficult environment conditions. The use of a biological method to environmental purrification – the phytoremediation – considerably improves the environment quality in highly urbanized area.

For further information

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