SUSKULT - Development of a Sustainable Cultivation System for Food in Resilient Metropolitan Regions, Subproject F (031B0728F)

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SUSKULT VISION

Why? The SUSKULT vision is concerned with the development of an innovative system for urban agricultural production that taps into urban resource flows, while at the same time focusing on the growing demands by society for high quality, regional and sustainable agricultural products.

What? SUSKULT develops technological solutions and socio-political adaptation strategies for sustainable and circular urban agricultural production. A soilless, sustainable and local food production system will be developed, that will draw the essential resources water, nitrogen, phosphorus, potassium, CO₂ and heat from a “wastewater treatment plant of the future” (NEWtrient®-Center), which will recover them from municipal wastewater.

Result? SUSKULT will pave the way for a new urban circular agricultural production in Germany. The transformation process of a conventional wastewater treatment plant into a NEWtrient®-Center is outlined for the Ruhr Metropolitan Region, with the construction of a demonstration plant with a production capacity 40t of vegetables p.a.

Website: www.suskult.de

SUBPROJECT 4 – ENVIRONMENTAL AND SYSTEM ANALYSIS

Under the direction of the Justus Liebig University Giessen, SUSKULT analyses the social effects of technological innovation development and identifies transformation barriers and opportunities at the same time. In addition, the subproject wants to show practical possibilities for dealing with the new agricultural system at different political levels, evaluate undesired impacts and inherent risks and connect SUSKULT to different stakeholders according to their needs.

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