

## GreenTex – Development of a green design solution for facades of architectural heritage in the Vogtland region

### Problem / Motivation

- Declining use of rural areas, shrinking agricultural land, urban expansion, heat-related crop failures and ecological crises are jeopardising the global food security.
- Facades of vacancy industrial buildings, which are part of our architectural heritage, are difficult to repurpose due to the high renovation costs.

### Solution

- Sustainability, urban greening, preservation of architectural culture, and agricultural crop production in cities using resource-saving materials and intelligent design.
- Development of functionalized plant cultivation mesh based on local plants and minimally invasive anchoring of the green facade system, integration of a plant care system and moisture sensors.

### Project Launch

08/2025

### Project Partner

Textilforschungsinstitut Thüringen-Vogtland e.V. (TITV), Greiz  
JAHN GmbH & Co. KG, Schwarzenbach am Wald



Assoziierte Partner



The 'Old Paper Mill Greiz'



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