



# TRACTEBEL

ENGIE

## PRODUCTIVE LANDSCAPES

Urban Development

Transforms landscapes into productive entities for the city providing food, clean water, energy, biodiversity, fresh air ...

Tractebel is a worldwide multidisciplinary engineering, consultancy and design firm working on a wide range of projects in geographies around the world. Every day our teams of engineers, consultants and designers feel the need for a more sustainable urban development to build a better world for all, today and in the future. Therefore we developed together 11 integrated approaches for cities and territories; they represent the needs and interests of cities and citizens and aim to provide solutions to key global challenges.

### why?

**Due to the effects of climate change** (flooding, health stress, massive pollution, degrading of biotope), **energy scarcity and unsustainable strategies in the field of production** (energy, food, waste) **it is necessary and urgent to develop new productive landscapes** fostering local economies. The percentage of land assigned to food production is predicted to reduce by 8-20 % by 2050 due to land degradation, urban expansion and the use of agricultural land for the cultivation of non-food crops such as biofuels. Within the same period, yields will be reduced by 5-25 % due to climate change, soil erosion, increase of pathogens, weed and insect infestations and water scarcity. The future challenge is to design new living landscapes with interconnective features able to respond to the fundamental necessity of production. We need new productive methods, rituals and solutions that will enable us to live within our environment.

### what?

Productive Landscapes deals with the (re)development of (urban)landscapes by giving them a productive quality: solving issues related to climate change adaptation, carbon sequestration, biodiversity, energy production, fresh air, clean water, healthy soils, food production.

**Productive Landscapes provides a wide range of products and (ecosystem) services fulfilling the social, economic and environmental requirements of present and future generations at the local, national and global level.** Productive Landscapes can be applied on different scales: from regions to cities and neighborhoods.



**Groen Lint, Ostend**

The peri-urban fringe of the city of Ostend is transformed into a diverse productive landscape giving space to urban agriculture, water retention, ecological areas.



**Tuinen Van Stene, Ostend**

The 'Tuinen van Stene' is a 21st century agricultural park that facilitates innovative and broadened agriculture. The project is productive in different ways: the function of the historic polder in the watersystem is enhanced, the ecological value is raised and space is created for urban agriculture close to the city and the citizens.



**Open space strategy, Kortrijk**

The city of Kortrijk wants to preserve the last large scale open spaces in the urbanized territory. These spaces are consolidated by enhancing their productive role for the city related to water management, biodiversity, food production ...



**Stiemerbeek valley, Genk**

The project defines a flexible and strategic framework that facilitates a gradual transformation of the Stiemer Valley. A sequence of gardens, natural areas and urban edges articulate the valley system fostering productive layers linked to new ecologies, the reinstalling of a climate-resilient water system and supporting a public culture that (re-)connects citizens and nature.

10 other integrated approaches to discover

Urban Resilience	Territorial Transitions	Places of Mobility	Water Urbanism	Eco-Districts	Recycling Territories	Smart Networks	Civic Architecture	Sustainability @Work	Digital Urban Solutions
------------------	-------------------------	--------------------	----------------	---------------	-----------------------	----------------	--------------------	----------------------	-------------------------