

**Local Green Deal – Towards the Vision for Green Corridors**

* Municipality of Szombathely
* Chamber of Engineers of Vas County
* KTI Hungarian Institute for Transport Sciences and Logistics Nonprofit Ltd.
* Pannon Business Network Association

## LOCAL GREEN DEAL in Szombathely

**PREMISE**

The Municipality of Szombathely City with County Rights (hereafter Szombathely) uses Local Green Deals (LGDs) as a **strategic governance approach** to accelerate sustainability action at the local level, in line with the goals of the European Green Deal.

Szombathely seeks to sign **individual LGDs** to implement its sustainability strategies, that define the framework for the local green deal actions, namely:

the Sustainable Urban Mobility Plan of Szombathely (SUMP);

its complex economic and urban development strategy, the Szombathely2030;

the Sustainable Energy and Climate Action Plan of Szombathely (SECAP);

and the Sustainable Urban Development Strategy of Szombathely, to reach its stated goals.

Through this LGD, Szombathely aims to transform its sustainability vision, "Towards the Vision for Green Corridors" into concrete action by engaging local partners. The deal facilitates a collaborative effort to pilot the transformation of a key urban road into a sustainable, pedestrian- and cyclist-friendly green alley.

The project aligns with these four strategies and directly contributes to reducing urban heat, decarbonizing transportation, and improving public well-being, setting a replicable example for other European municipalities.

The present LGD is designed with the following role of Szombathely and will define each signatories’ contributions accordingly in the subsequent sections.

* **City as contributor (e.g. City-to-Business)**
i.e. The local government is an active contributor to measures committed to by one or more businesses, NGOs, municipal companies, or business intermediaries, like Chamber of Commerce, business associations, etc..
* **City as facilitator (e.g. Business-to-Business; Business-to-NGO; etc.)**
i.e. the local government will facilitate actions agreed between at least two businesses
* **City as broker (City-to-City)**i.e. An internal agreement between different local government units or organisations, such as the administration, the city council, or a municipal company.

**Local Green Deal between the Chamber of Engineers of Vas County, KTI Hungarian Institute for Transport Sciences and Logistics Nonprofit Ltd. (KTI), the Pannon Business Network Association (PBN) and the Local Government of Szombathely City**

1. **Scope of the Local Green Deal**

**Focus Areas**

* **Sectoral Focus of the LGD**: Built environment, transport & mobility
* **Objectives**:
	+ Transform a busy street in Szombathely, called the Thököly Imre Street, into a green alley
	+ Promote decarbonized transportation through cycling and walking
	+ Reduce urban heat effects with greening and nature-based solutions
	+ Enhance public spaces for inclusivity and well-being of the citizens
	+ Build the digital twin of the street to be able to model the occuring changes

**Impact Ambitions**

* **Environmental**: Reduction of urban heat by 15-20%, improved air quality, CO2 emissions reduction
* **Social**: Creation of inclusive, safe, and vibrant public spaces
* **Economic**: Support for local businesses through increased foot traffic, green job creation, and community engagement.
1. **Partners to the Local Green Deal**

**Partner 1: Chamber of Engineers of Vas County**

The Chamber of Engineers of Vas County was established in 1996 and since then provides services to all registered engineering enterprises, maintaining daily contact with them. It evaluates, authorizes, and registers professional qualifications at the county level, and contributes to the development of systems for technical regulation, standardization, and quality assurance. The Chamber collaborates continuously with institutions and ministries responsible for higher education, participates in shaping qualification and continuing education requirements, and organizes professional training for certified and licensed practicing engineers.

* Organization type:

[ ]  Private company

[ ]  Publicly owned company

[ ]  NGO, non-profit

[ ]  Financial institution

[ ]  Academic institution

[x]  Other (please specify): Business intermediary

* Sustainability goals in the relevant impact area: Facilitate technical planning for urban greening projects.
* Partner relevance to LGD implementation: Provide engineering expertise and local technical support in planning and implementation.

**Partner 2: KTI Hungarian Institute for Transport Sciences and Logistics Nonprofit Ltd. (KTI)**

KTI Hungarian Institute for Transport Sciences and Logistics Ltd., together with its predecessors, has a history of more than 85 years in the fields of transport. Research and development, training and testing, transport education and training, as well as construction and railway certification are important areas of activity. The KTI’s scope covers the whole transport sector: passenger transport, freight transport and infrastructure development together. The Vas County office of KTI is a strategic actor in the county's logistics, transportation, and road development sectors. KTI's contribution to the implementation of this Local Green Deal (LGD) lies in promoting sustainable transport management and facilitating investments and developments related to environment friendly transport modes and modalities.

Organization type:

[ ]  Private company

[x]  Publicly owned company

[ ]  NGO, non-profit

[ ]  Financial institution

[x]  Academic institution

[ ]  Other (please specify)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Sustainability goals in the relevant impact area: Improve urban traffic flow management, promote sustainable transport management and support evidence-based mobility solutions.
* Partner relevance to LGD implementation: Expertise in traffic assessments and urban mobility.

**Partner 3: Pannon Business Network Association (PBN)**

The Pannon Business Network (PBN) is a knowledge and technology transfer organisation in Szombathely. For over a decade and a half, PBN has been dedicated to increasing the added value of manufacturing enterprises. The accumulated expertise of PBN has materialised in regional development programmes, ecosystem development, and collaborations with leading European scientific institutions. The objectives of the PBN are multi-faceted and include fostering more sustainable businesses, promoting a more digitalised and greener environment, enhancing efficient collaborations, and improving the quality of elderly care. Their mission involves shaping and transforming the workforce to support the shift of businesses towards industry 4.0. Innovations in manufacturing processes require strengthening and developing the related skills of entrepreneurs and workers. PBN also acts as a local Digital Innovation Hub through their AM-LAB department, and is experienced in advanced data analytics, digital twins, digitalized urban and sensor solutions.

Further reference: <https://www.pbn.hu/>

Organization type:

[x]  Private company

[ ]  Publicly owned company

[ ]  NGO, non-profit

[ ]  Financial institution

[ ]  Academic institution

[ ]  Other (please specify)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Sustainability goals in the relevant impact area: Develop and introduce smart urban tools and digital mobility solutions, scale and replicate digital twin applications.
* Partner relevance to LGD implementation: Experience in advanced data analytics, digital twins, sensor and public engagement solutions.
1. **Specific measures and monitoring**

The Municipality of Szombathely City with County Rights commits to:

|  |  |
| --- | --- |
| Scope/sector | Built environment, transport & mobility |
| Action | Towards the Vision for Green Corridors - Transforming Szombathely’s Road into a Green Alley:* Create pedestrian walkways, shaded by trees and flanked by green infrastructure
* Incorporate permeable pavements and rain gardens to improve stormwater management and biodiversity
* Install smart urban tools, such as real-time air quality sensors and mobility management systems
* Develop community spaces for social activities, public art, and cultural events
 |
| Target | Complete pilot by 2027 with measurable reductions in car use and CO2 emissions |
| Impact[[1]](#footnote-2)  | Environmental:* 15-20% urban heat reduction.
* 20% increase in green cover.
* 10% shift from cars to sustainable transport modes.
* All the impacts will be measured by smart urban tools, such as real-time air quality sensors, traffic flow sensors, and mobility management systems, and monitored by a digital twin system.

Social:* The city will create and promote accessible, safe, healthier, and more vibrant public spaces, promoting inclusivity and community well-being.

Economic:* Local businesses will benefit from increased foot traffic, and the project will support green jobs, eco-friendly enterprises and enhance public engagement.
 |
| Contribution by third party/ stakeholders (optional) | SZOVA Nonprofit Ltd. in construction works, Lime Technology Ltd. for shared micromobility solutions and SZOMPARK Ltd. in green elements |
| Cost estimation  | EUR 1.500.000 |
| Funding source  | [ ]  Private [x]  Public [x] EU Funding [ ]  Other (please specify) |
| Timeline/ Deadline | Q4 2027 |

Chamber of Engineers of Vas County commits to:

|  |  |
| --- | --- |
| Scope/sector | Built environment, transport & mobility |
| Action | Towards the Vision for Green Corridors - Transforming Szombathely’s Road into a Green Alley:* Heat Map Analytics: Regular assessments comparing temperature data from the “Green Corridor” with traditional park zones will guide further expansion of green infrastructure. This will help evaluate the effectiveness of cooling measures, providing data for future projects.
* Green Infrastructure Expansion: In addition to green alley landscaping, vertical gardens and shaded pathways will be incorporated to improve environmental quality and extend the cooling effects throughout the area.
 |
| Target | Complete pilot by 2027 with measurable reductions in car use and CO2 emissions |
| Impact[[2]](#footnote-3)  | * 15-20% urban heat reduction
* 10% shift from cars to sustainable transport modes
 |
| Contribution by third party/ stakeholders (optional) | SZOVA Nonprofit Ltd. in construction works, Lime Technology Ltd. for shared micromobility solutions and SZOMPARK Ltd. in green elements |
| Cost estimation  | EUR 1.500.000 |
| Funding source  | [x]  Private [ ]  Public [x] EU Funding [ ]  Other (please specify) |
| Timeline/ Deadline | Q4 2027 |

KTI Hungarian Institute for Transport Sciences and Logistics Nonprofit Ltd. (KTI) commits to:

|  |  |
| --- | --- |
| Scope/sector | Built environment, transport & mobility |
| Action | Towards the Vision for Green Corridors - Transforming Szombathely’s Road into a Green Alley:* Mobility Hubs: Establishing well-connected hubs along the corridor that combine walking paths, cycling stations, and electric shuttle services. These hubs would encourage non-vehicular movement, integrating last-mile solutions into the green corridor.
* Shared Micro-Mobility: Incorporating e-scooter and e-bike sharing stations strategically placed along the green alley to encourage more eco-friendly transit options.
* Traffic counting and traffic review
 |
| Target | Complete pilot by 2027 with measurable reductions in car use and CO2 emissions |
| Impact[[3]](#footnote-4)  | * 15-20% urban heat reduction
* 10% shift from cars to sustainable transport modes
 |
| Contribution by third party/ stakeholders (optional) | Budapest University of Technology and Economics(BUTE / BME) - smart city, mobilityHungarian Scientific Association for Transport  |
| Cost estimation  | EUR 1.500.000 |
| Funding source  | [ ]  Private [ ]  Public [x] EU Funding [ ]  Other (please specify) |
| Timeline/ Deadline | Q4 2027 |

Pannon Business Network Association (PBN) commits to:

|  |  |
| --- | --- |
| Scope/sector | Built environment, transport & mobility |
| Action | Towards the Vision for Green Corridors - Transforming Szombathely’s Road into a Green Alley:* Traffic Flow Optimization: Sensors for real-time monitoring of pedestrian and bicycle traffic will ensure safer, smoother transit along the green corridor. Additionally, these systems could allow dynamic adjustments to traffic lights or road priority based on current conditions.
* Autonomous Vehicles: As part of long-term visioning, Szombathely will consider the use of autonomous electric vehicles along the green corridor. These could serve as shuttles, particularly in areas where traditional buses or cars are less efficient. These autonomous systems would be integrated into the green mobility plan, sharing lanes with bicycles or pedestrians where possible.
* User App: Provide an app to guide users to the coolest, least congested routes and available amenities along the corridor.
 |
| Target | Complete pilot by 2027 with measurable reductions in car use and CO2 emissions |
| Impact[[4]](#footnote-5)  | * 15-20% urban heat reduction
* 10% shift from cars to sustainable transport modes
 |
| Contribution by third party/ stakeholders (optional) | SZOVA Nonprofit Ltd. in construction works, Lime Technology Ltd. for shared micromobility solutions and SZOMPARK Ltd. in green elements |
| Cost estimation  | EUR 1.500.000 |
| Funding source  | [x]  Private [ ]  Public [x] EU Funding [ ]  Other (please specify) |
| Timeline/ Deadline | Q4 2027 |

1. **Milestones and outlook**
* Q1 2025 - Submitting the application for a Horizon Europe MISS-CIT call with a wide-range European consortium (HORIZON-MISS-2024-CIT-01-01)
* Q3 2025 - Start planning the deeper details of the implementation
* Q1 2026 - Reconstruction of the street with new pavement and the creation of a two-way bicycle path
* Q2 2026 - Installing smart pedestrian crossings
* Q2 2026 - Removal of parking spaces on one side of Thököly Imre Street
* Q3 2026 - Creating wide pedestrian walkways, shaded by trees, green walls and flanked by green infrastructure.
* Q3 2026 - Incorporating permeable pavements and rain gardens to improve stormwater management and biodiversity.
* Q4 2026 - Installing smart urban tools, such as real-time air quality sensors and mobility management systems.
* Q4 2026 - Community spaces for social activities, public art, and cultural events.
* Q1 2027 - Starting a digital twin pilot for helping decision-making processes with all the incoming data from the sensors.
* Q4 2027 - Making the digital twin of the area public for citizens as well to model urban processes.
1. **Funding and resource allocation**

The city and PBN will establish a robust monitoring framework with digital twins and climate modeling to measure environmental impact (such as: reduction in air pollution, urban cooling effects, traffic impacts), social and economic outcomes (including: increased foot traffic, business activity, community satisfaction). The city will ensure the results will be shared with LGD partners to guide replication efforts.

Cost Estimation

1. Infrastructure Modifications: €750.000
	* Street conversion, cycling lanes, traffic permeable pavements, community
2. Green Infrastructure: €220,000
	* Shaded walkways, vertical gardens, and biodiversity enhancements.
3. Smart Urban Tools: €390,000
	* Air quality sensors, mobility systems, and digital twin creation.
4. Community Enhancements: €140,000
	* Spaces for social activities, public art, and cultural events.

Total Estimated Cost: €1.500.000

1. **Reservations**

The cooperating parties expressly state that by signing this agreement, they declare their intention to strive to achieve the objectives defined in the agreement. However, by signing this agreement, they do not assume any financial or legal obligations for the realization of these objectives, and the potential failure to achieve the objectives shall not result in any payment obligation for either party. The contracting parties commit solely to the implementation of the goals set forth in the LGD, subject to the relevant European Union funding calls.

**Partner 1.**

Chairman of Chamber of Engineers of Vas County

István Nádor

Szombathely, 2025. ……………….

**Partner 2.**

CEO of KTI Hungarian Institute for Transport Sciences and Logistics Nonprofit Ltd.

András János Mayer

Szombathely, 2025. ……………….

**Partner 3.**

Managing director of Pannon Business Network Association

Balázs Barta

Szombathely, 2025. ……………….

**Partner 4.**

Mayor of Szombathely City with County Rights

dr. András Nemény

Szombathely, 2025. ……………….

1. Please quantify the impact to the greatest extent possible. You may want to use the Input-Output-Outcome-Impact model or similar for impact measurement. [↑](#footnote-ref-2)
2. Please quantify the impact to the greatest extent possible. You may want to use the Input-Output-Outcome-Impact model or similar for impact measurement. [↑](#footnote-ref-3)
3. Please quantify the impact to the greatest extent possible. You may want to use the Input-Output-Outcome-Impact model or similar for impact measurement. [↑](#footnote-ref-4)
4. Please quantify the impact to the greatest extent possible. You may want to use the Input-Output-Outcome-Impact model or similar for impact measurement. [↑](#footnote-ref-5)