

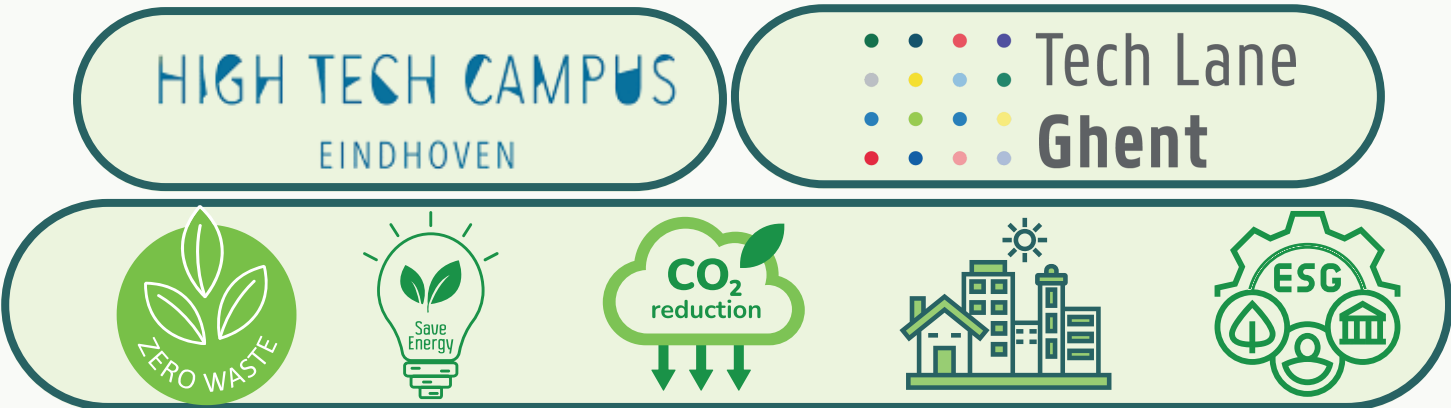
SUSTAINABILITY INITIATIVES IN INNOVATION DISTRICTS: A COMPARATIVE ANALYSIS OF TECHLANE GHENT AND HIGH-TECH CAMPUS EINDHOVEN

INTRODUCTION

Innovation districts are emerging as powerful engines of sustainable urban transformation. This research explores and compares two European innovation districts, Tech Lane Ghent Science Park and High Tech Campus Eindhoven (HTCE), to understand how they implement sustainability across four key dimensions: waste reduction, energy efficiency, CO₂ emissions, and mixed-use development. This research also examines how these initiatives are governed and how stakeholders perceive them.

RESEARCH QUESTION

WHAT SUSTAINABILITY INITIATIVES ARE IN PLACE AT TECH LANE GHENT AND HIGH TECH CAMPUS EINDHOVEN, AND HOW DO THEY COMPARE ACROSS WASTE REDUCTION, ENERGY EFFICIENCY, CO₂ EMISSIONS, AND MIXED-USE DEVELOPMENT?



SUSTAINABILITY INITIATIVES IN INNOVATION DISTRICTS

EXPLORATION OF THE CONCEPT OF INNOVATION DISTRICTS

COMPARATIVE RESULTS

	HIGH TECH CAMPUS EINDHOVEN	••••• Tech Lane ••••• Ghent
<div><div>WASTE</div></div>	CAMPUS-WIDE WASTE SORTING, POWER BI DASHBOARD, SUPPLIER REUSE PROGRAMS	SENSOR-ENABLED BINS, VOLUNTARY RECYCLING, NO COMMON WASTE POLICY
<div><div>ENERGY</div></div>	INTEGRATED SYSTEM (12000 SOLAR PANELS, THERMAL ENERGY STORAGE (ATES), REAL-TIME DASHBOARDS	INDIVIDUAL SMART METERS, ENERGETISCH MASTERPLAN ARDOYEN PROJECT AND BEN STANDARD, ON GOING
<div><div>CO₂</div></div>	CO ₂ NEUTRALITY TARGET BY 2030, ESG REPORTING, MODAL SHIFT MONITORING	INDIVIDUAL COMPANY EFFORTS (SCOPE 1 AND 2). NO PARK-WIDE TARGETS AT THIS MOMENT
<div><div>MIXED-USE</div></div>	RICH IN AMENITIES, SPORTS, DAYCARE, RESTAURANTS, SPORTS CULBS.BETTER MIXED-USE DEVELOPMENT	LIMITED MIXED-USE DEVELOPMENT. BIKE PATHS EXPANDING, "THE NUCLEUS" IN DEVELOPMENT
<div><div>GOVERNANCE</div></div>	CENTRALIZED: MANAGED BY HTCE TEAM, ESG DASHBOARDS, KPIS TRACKED AND AUDIT SYSTEMS	EMERGING HYBRID: VZW ARDOYEN + UGENT, 3 COMMITTEES (MOBILITY, DURABILITY, EVENTS)

METHODOLOGY

COMPARATIVE CASE STUDY



9 INTERVIEWS

Site managers, experts, and key stakeholders.



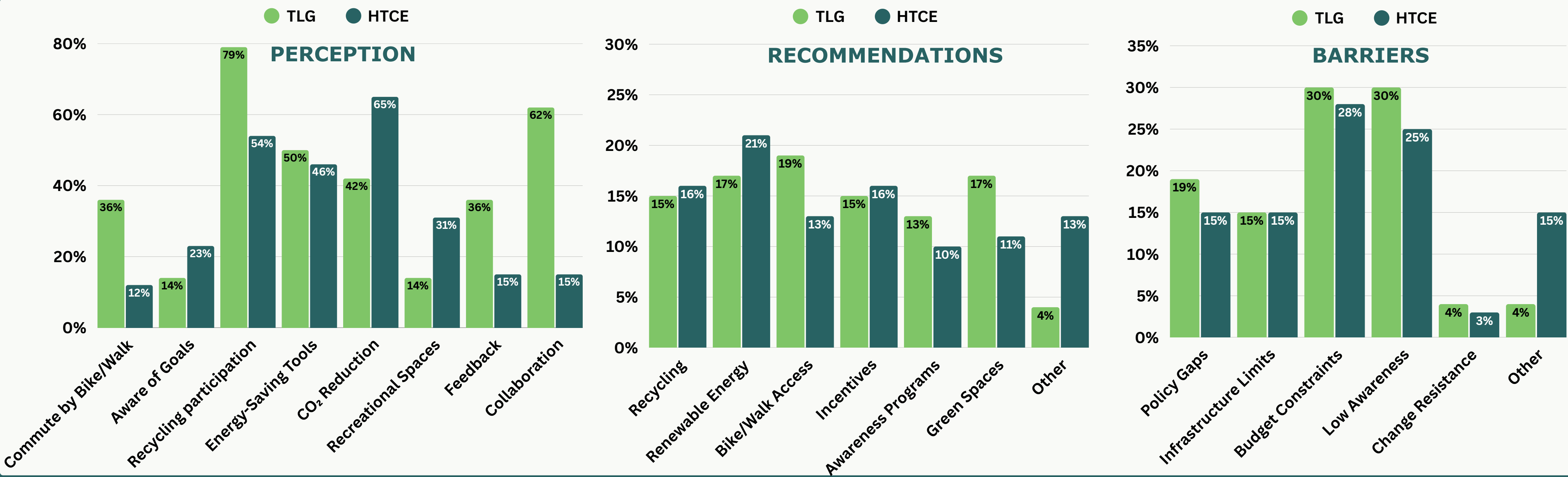
41 RESPONSES

Online Survey from both Districts



ADDITIONAL SOURCES

publicly available



KEY INSIGHTS



HTCE EXCELS IN TOP-DOWN INFRASTRUCTURE; TLG LEADS IN PARTICIPATORY GOVERNANCE.



MUTUAL LEARNING: HTCE CAN ADOPT TLG'S COMMUNITY ENGAGEMENT; TLG CAN LEARN FROM HTCE'S STRATEGIC COORDINATION.



HYBRID FUTURE: BLENDING STRUCTURE WITH PARTICIPATION BOOSTS INNOVATION DISTRICTS' SUSTAINABILITY IMPACT.