

# Connected Citizens

## Urban road safety: Why Cities Must Act

**38%** of road fatalities in cities

**70%** Pedestrians & Cyclists

**24%** People with Disabilities



- 38% road fatalities are inside cities
- 70% are vulnerable users:
  - Pedestrians,
  - Cyclists,
  - Micromobility riders,
  - People with Disabilities
- Urban Mobility more complex:
  - Growth of micromobility
  - Increasing speeds (e-bikes, mopeds)
  - Higher risks

# GUIDE

- Full Journey Assistant
- People with Disabilities:
  - Blind & Low Vision,
  - Mobility Impairment
  - Elderly
- Connected citizen (P2X)
  - Traffic light
  - Public transport
  - Autonomous vehicles



# SafeBike

- Monitoring, Alert & Analysis
- Vulnerable users:
  - Safety,
  - Road inspection,
- Floating Bike Data collection
  - No edge device needed
  - Integrated Dashboard
  - Click and Go
  - Scalable

# SafeBike: Hybrid edge-cloud solution

Frame View with Vision AI

Object detection + Depth Estimation

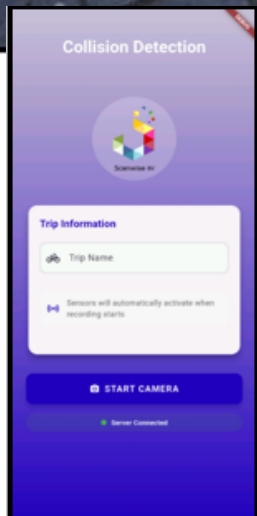
Multiple Sensor data

Route + alerts + sensor anomalies

The screenshot displays the SafeBike web interface with the following components:

- Header:** "SafeBike" logo on the left, "Choose Trip: Deventer - Olst (8557ae44-8e0a-4e2d-8f...)" dropdown menu, and a "Download" button on the right.
- FRAME VIEWER:** Shows a camera feed of a road with a person in the distance. A green bounding box is drawn around the person. Text above the feed reads "Frame 225 of 727 (14:30:40)". Navigation buttons "Previous" and "Next" are at the bottom.
- COMPUTER VISION RESULTS:** A table with the following data:

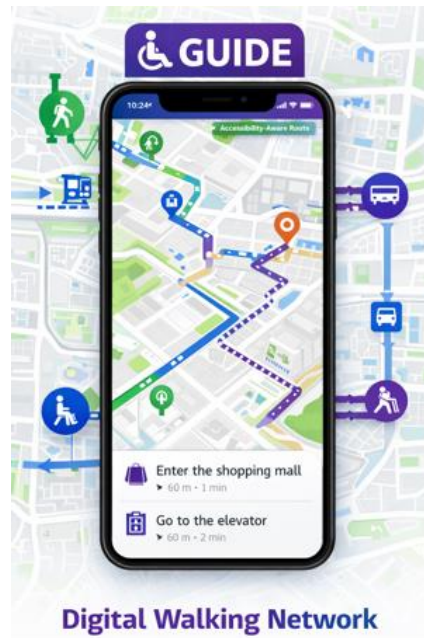
ID	OBJECT	DEPTH	DEPTH CHANGE
179	person	4.4489	0.08
191	person	4.4399	0.05
- MAP:** A map view showing a route. An alert popup is visible with the text: "ALERT Time: 14:30:40 Speed: 22.57444 km/h Alert #2". A "Hide Markers" button is in the top right.
- SENSOR DATA:** A line graph titled "Acceleration Data" showing acceleration in m/s² over time. The y-axis ranges from 0 to 45. A prominent red vertical line indicates a sharp spike in acceleration at approximately 14:30:40. The x-axis shows time from 14:27:00 to 14:41:00. A legend at the top right identifies "Acceleration" as the active data series.







Positioning  
Outdoor (GPS) +  
Indoor (5G, Wi-Fi)



Digital Walking Network  
indoor + outdoor



USP 5  
Adaptive AI  
Journey Assistant



Connected  
Pedestrians



Public Transport Integration  
Connected Passengers



PARE (Proactive Accessibility Routing Engine)

# GUIDE: Unique Selling Points (USP)

# Look for consortiums to join:

CL5-2026-10-D6-09 : **Road Safety** & Resilience of rural areas

CL5-2026-10-D6-10: Resilience in **multimodal** passenger transport

CL5-2027-06-D6-08: Affordable, reliable & **inclusive** rural & urban connectivity

CCAM calls: **Safety** Related Aspects → **People-Centric** ecosystem (P2X)



## Scientific and Tech Expertise

- 25+ years experience in Smart Mobility,
- Smart City projects

### Customers:

- Highway Agency, provinces, cities, event organisations, ITS Suppliers

### EU projects:

- SRAIR: Incident detection (Eurostars)
- AITCIM: Travel Companion (Globalstars)
- GUIDE: Guidance Platform (ITEA)

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