

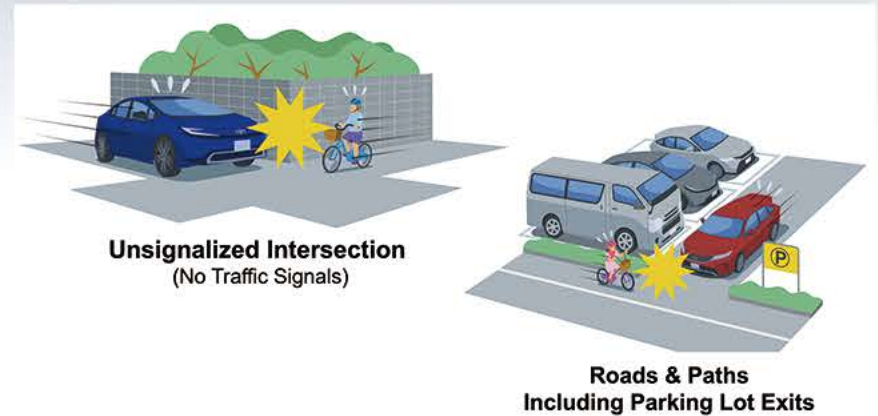
ITS Smart Pole

~ Key device to Protect Vulnerable Populations ~

Background

In Japan, many cross-traffic accidents occur between bicycles and vehicles at unsignalized intersections and single-lane roads.

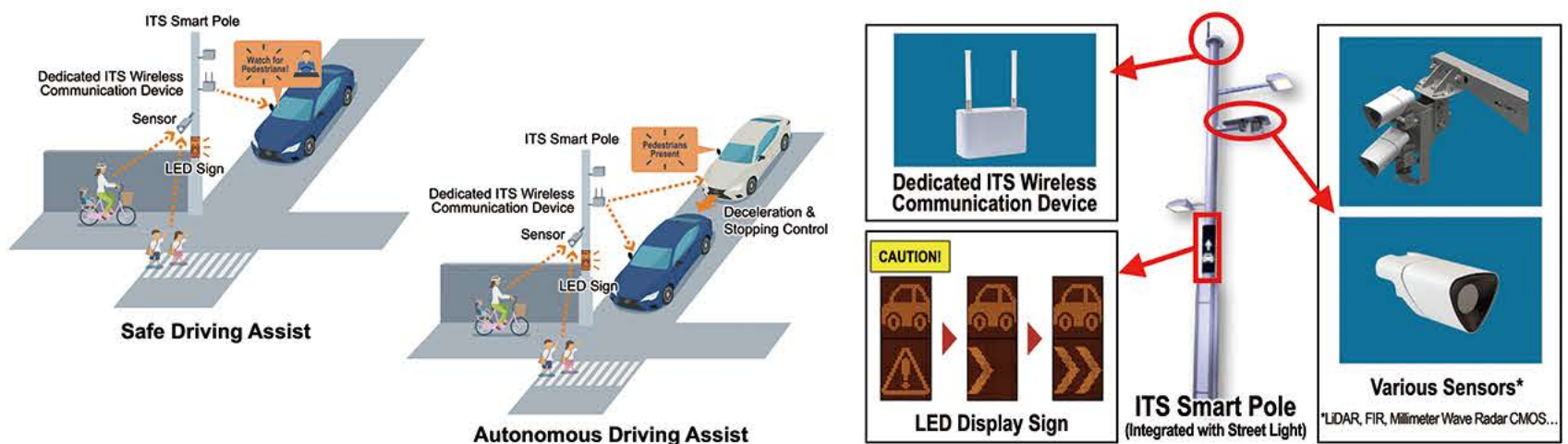
It is difficult to detect vulnerable road users with only onboard sensors in the vehicle, so accident prevention requires cooperation with road-side infrastructure.



Technologies & Services

ITS Smart Poles employ sensors to detect road users hidden from sight, and use dedicated ITS wireless communication to notify drivers, bicyclists, and pedestrians with an LED sign.

This technology can help prevent cross-traffic accidents and support autonomous driving.



Future Action

ITS Smart Poles are currently being tested in more than 20 regions to date, with plans for nationwide introduction.

Our goal is “ZERO Accidents for Vulnerable Road User,” by offering safe-driving assistance services and integrating them with autonomous driving technology.

Roadmap for Public Implementation of ITS Smart Poles

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030s
Autonomous Driving Assist Infrastructure		• L4 Autonomy - Trucks ¹	• L4 Autonomy - Trucks (Public) ¹				
	Freeway, Motorway						Nationwide Deployment
Autonomous Driving Assist Infrastructure		• L4 Autonomy - Limited Region Mobility Service ¹ (50+ Cities)		• L4 Autonomy - Limited Region Mobility Service ¹ (100+ Cities)			
	Local Roads						Nationwide Deployment
Safe Driving Assist Infra.		Study of Services & Architecture ²	Finalization of Overall Vision ²	Development & Creation of Systems ² Public-Private Joint Research, Various Specification Studies & Decisions...			
	Local Roads						Trial Run ²

1. Target defined in *Vision for Garden-City Nation*.

2. Reference: *Next-Generation ITS by Ministry of Land, Infrastructure, Transport and Tourism*.