

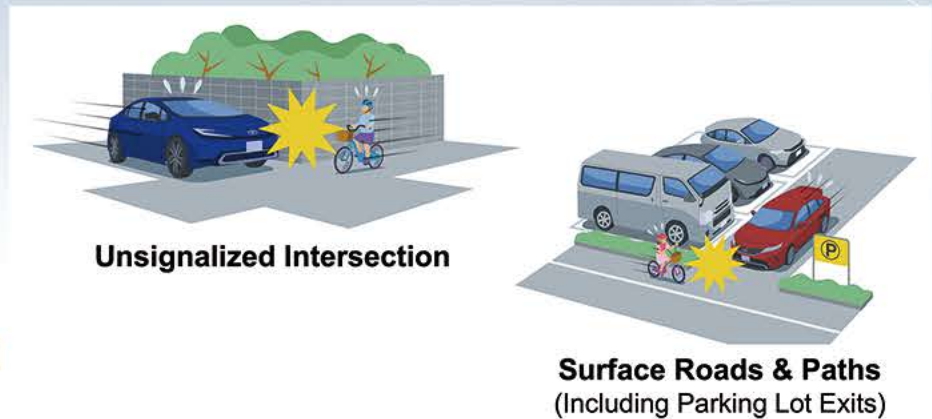
ITS Smart Pole to Reduce Accidents

Background

Many **cross-traffic accidents** occur between bicycles and **cars at unsignalized intersections and near parking lot exits.**

It is difficult to detect vulnerable road users with only autonomous sensors in the vehicle.

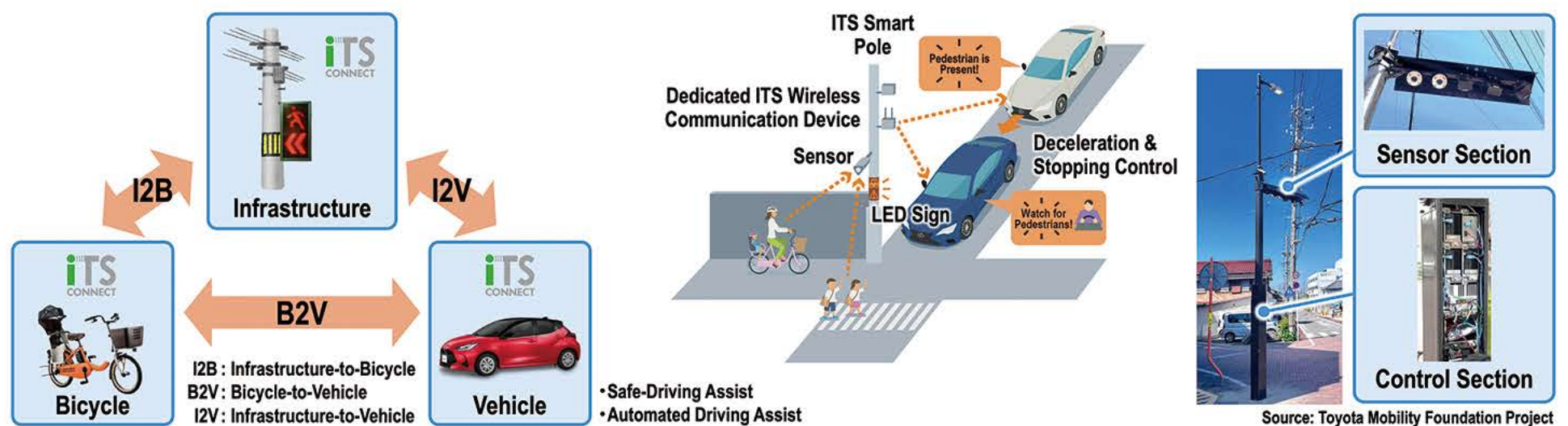
Improving safety requires cooperation with road-side infrastructure.



Technology & Service

ITS Smart Poles use roadside sensors and dedicated wireless communication to detect hidden traffic participants and warn drivers, bicyclists, and pedestrians wirelessly or with LED signs.

This technology **helps prevent cross-traffic accidents** between conventional or autonomous vehicles and vulnerable road users.



Future Action

Smart Poles are installed in over 20 areas so far, and nationwide introduction is expected.

We aim to achieve **"Zero Traffic Accidents"** by introducing ITS Smart Poles along with safe-driving assist services and automated driving technologies.

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	Freeway, Motorway		- L4 Autonomy - Trucks¹ - L4 Autonomy - Passenger Cars²	L4 Autonomy - Trucks (Public)¹				Nationwide Deployment
	Local Roads		L4 Autonomy - Limited Region Mobility Service¹ (50+ Cities)		L4 Autonomy - Limited Region Mobility Service¹ (100+ Cities)			Nationwide Deployment
Safe Driving Assist Infra.	Local Roads	Study of Services & Architecture ²		Finalization of Overall Vision ²	Development & Creation of Systems ² Public-Private Joint Research, Various Specification Studies & Decisions...			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*.