2306B

Title of Research Subject	Research on efficient accident prevention measures using artificial
	intelligence
Background and	The 11th Basic Plan for Traffic Safety of the Government states as a
Objectives	priority measure the promotion of traffic guidance and enforcement that
	contributes to the deterrence of traffic accidents by enhancing the
	sophistication of traffic accident analysis based on geographical
	information and other factors. To date, the IATSS has published the
	"Traffic Enforcement Handbook" since 2014, and has continuously
	provided information to those involved in traffic enforcement.
	With this background, we conducted basic research in FY2022 on a
	model that proposes efficient accident deterrence countermeasure
	locations using artificial intelligence AI. In FY2023, we will conduct on-site
	verification of the basic model, improve the model, and identify issues that
	need to be addressed before practical application.
Expected Results	In the past, traffic enforcement was based on years of experience, and
	efficient enforcement plans were made in the field; since 2011, traffic
	enforcement plans have been incorporated into the PDCA (Plan-Do-
	Check-Act) management cycle, and plans have been formulated based on
	actual accident conditions and analysis results. However, the system differs
	from prefecture to prefecture and is largely dependent on the technical
	skills of the person in charge. If the basic model proposed in this study can
	be used in further developing practical accident prevention measures, it will
	be possible to deter traffic accidents more efficiently in combination with
	field experience.
	In FY2023, the validity and effectiveness of the basic model proposed
	in the previous fiscal year will be re-examined based on field tests. This will
	contribute to basic research that will lead to the development of future
	general-purpose applications, which can be deployed in various regions.