

AI Real Time Road Information Service

RiaoS
Road information as a Service



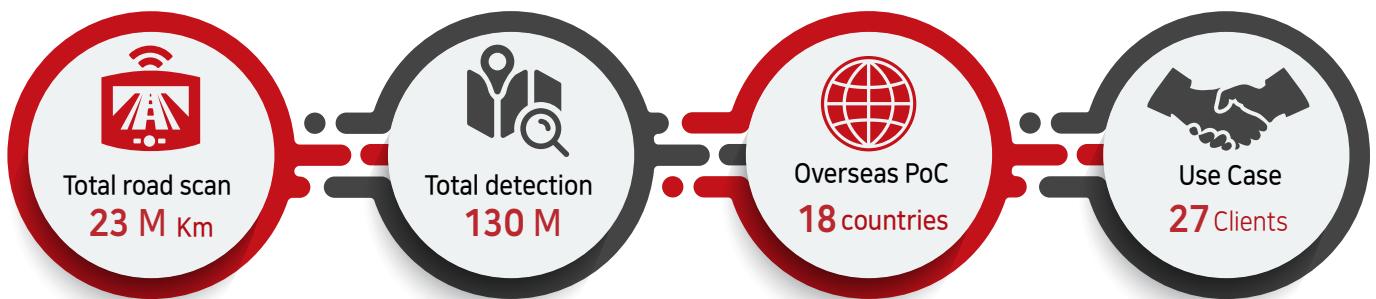
 **DareeSoft**

● Vision of Dareesoft

Dareesoft, since its establishment in 2020, has commercialized Riaas and been recognized for its technological innovation through various startup support programs such as Baby Unicorn, TIPS, Scale-Up TIPS, IBK Changgong, and national projects. Dareesoft's **Riaas**, has been successfully introduced to domestic local governments including Seoul Metropolitan City, and is now expanding globally.

● Unparalleled Data and Technological Competitiveness

We are securing customized data tailored to local road through high-quality data collected by AI Road Analyzer device and accumulated AI analysis know-how through demonstration projects/POCs.



● Major Customers

From local governments to businesses, customers from various industries have chosen Riaas.



H. www.dareesoft.com
E. riaas@dareesoft.com
Y. www.youtube.com/riaas
L. www.linkedin.com/company/dareesoft

Dareesoft Inc.

8F, 37 Hwangsael-ro 258beon-gil, Bundang-gu, Seongnam-si,
Gyeonggi-do, Republic of Korea

T. +82. 31. 726. 8601 ~ 2

Dareesoft North America Inc.

1730 Minor Ave Suite 1050, Seattle, WA 98101 U.S.A.

T. +1 206. 355. 2998



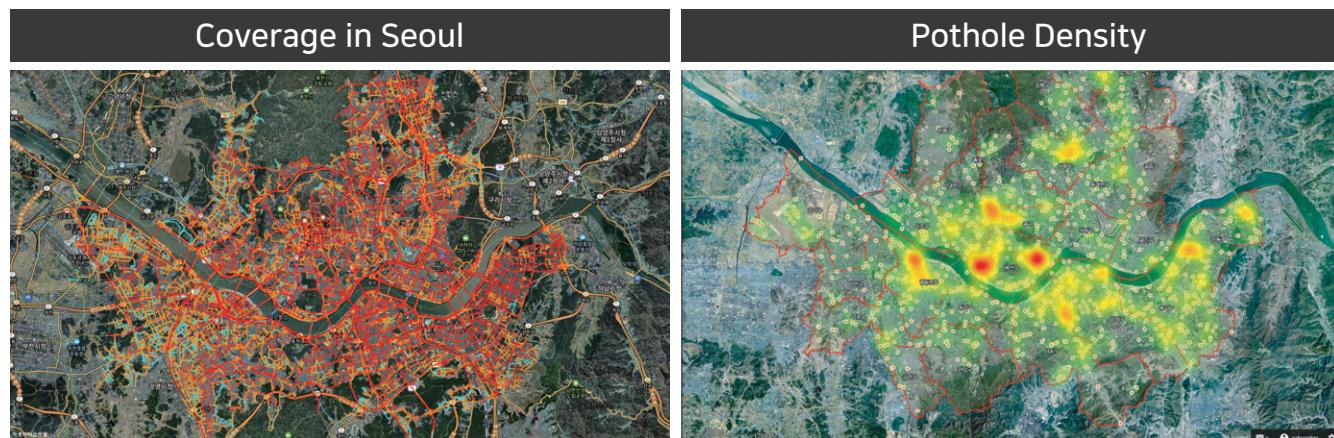
● Applications

RiaaS can be applied to a variety circumstances. Current applications include road hazard & distresses detection including road kills and debris, asset management, autonomous driving and autonomous driving applications.



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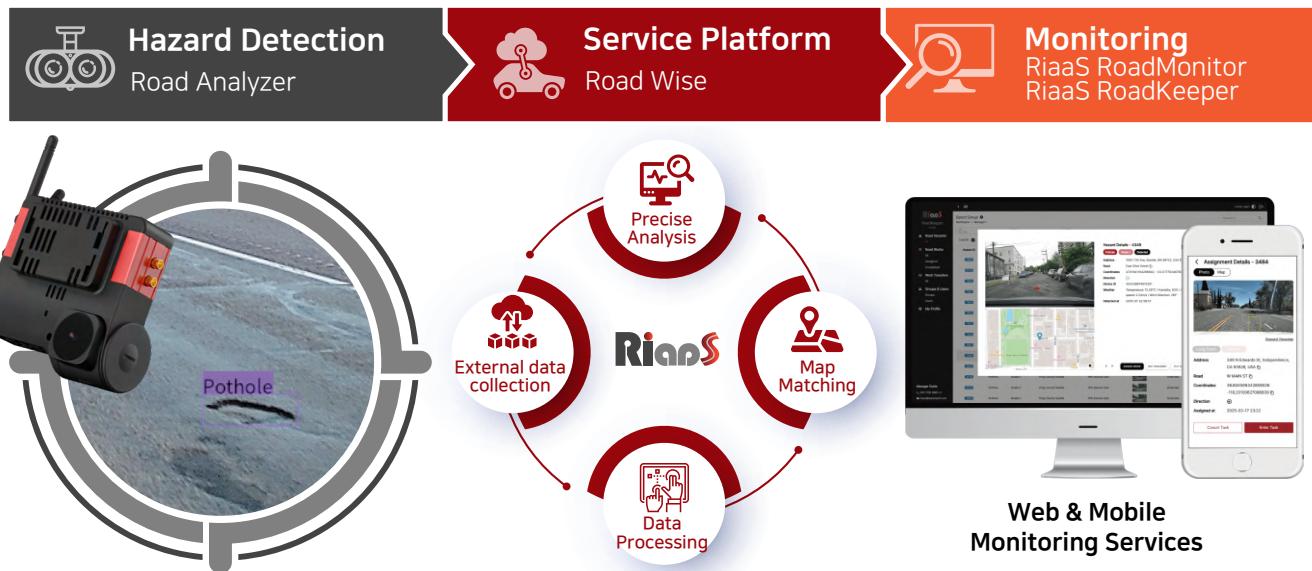
● Project Details

We are developing solutions and accumulating know-how based on various projects and continuous R&D

Location	Region	Project
	Seoul, Korea	Vision based automatic pothole detection and analysis
	Gimcheon, Korea	Gimcheon Smart town; Smart Road Maintenance
	Wonju, Korea	ITS innovation; AI Highway Risk Management System
	Alberta, Canada	Automize road maintenance and reporting system
	California, USA	RiaaS for automation of road maintenance and PCI reporting
	Banggalulu, India	Pothole, debris, broken road asset detection
	Oitta, Japan	Replacing manual detection with RiaaS
	Dubai, UAE	Riaas + delivery motorcycle counting

● Real Time Road Hazard Information Service

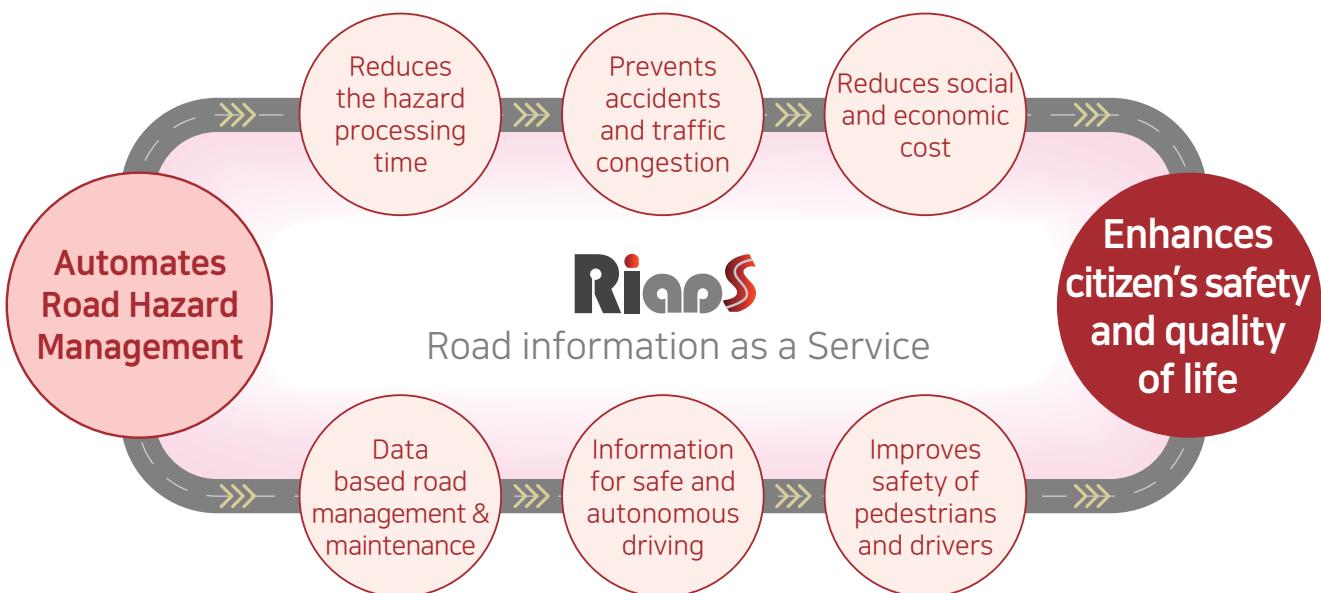
End to End service, from collecting to sharing road hazard information within 1 second.



One can enhance and strengthen the detection model autonomously through a One Stop Solution where detection, transmission, analysis, and visualization of road hazards are automatically implemented.



● Benefits





● Road Analyzer

ARA is the world's only road analysis device



ARA 20

Powerful ultra-lightweight AI model
Detects over 12 kinds of road hazards
Transmits data to a cloud platform.

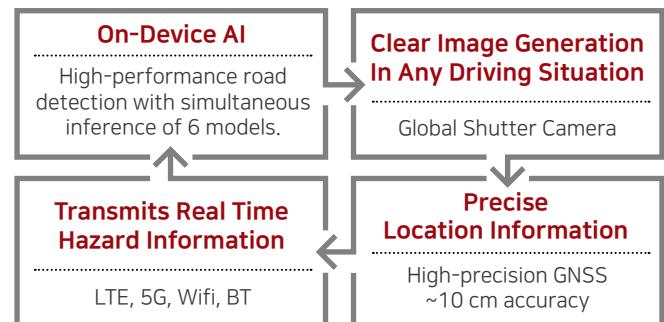
ARA 30

8 times faster AI Model than ARA 20
Detects over 20 kinds road hazard and infrastructure information with 5 channel camera.

✓ Functions

1. > Automatic On/Off & auto detection
2. > Installed inside vehicle (Black box type)
3. > Remote control/ Remote update (OTA)

✓ Key Features



✓ Detected Hazards



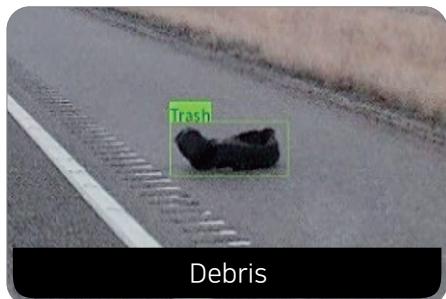
Pothole



Road Crack



Temporary Fixed Road



Debris



Damaged Guide Rods



Erased Road Marks

● Road Wise

Through secondary processing of hazard information transmitted from ARA, precision analysis, size measurement, deduplication, and de-identification are processed on a single platform.

Secondary Precision Analysis

Improving data reliability through secondary processing



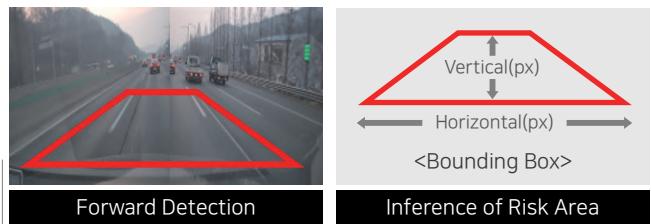
Data Anonymization

De-identification for privacy protection of collected data



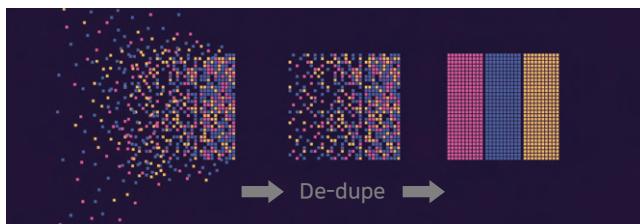
Size Measurement

Algorithm applied for size measurement of hazards



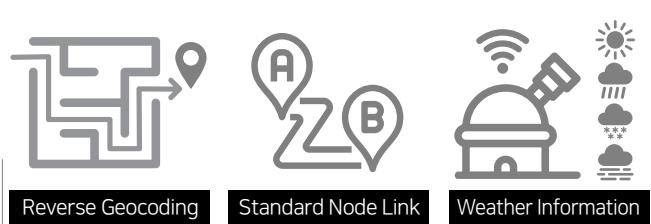
Deduplication

Algorithm for deduplication of road hazards detected in the same location



Data Integration

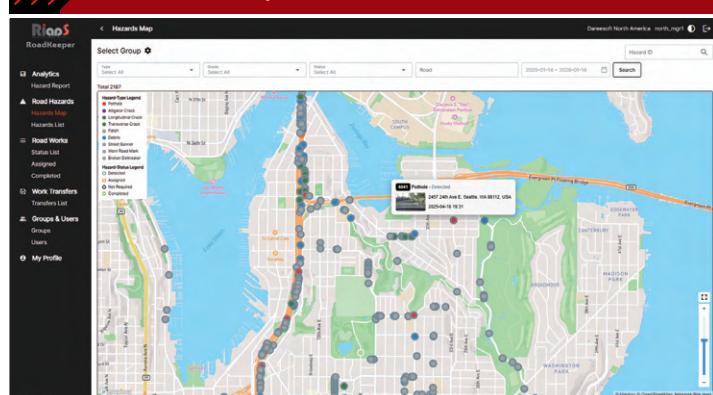
Integration of various external data sources



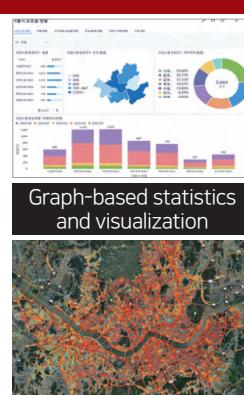
● RiaaS RoadMonitor & RiaaS Road Keeper

Provides an intuitive UI/UX for monitoring the road hazards and a field response service app that enables the road management for the Road maintenance departments.

">>>> Web based UI/UX



Road hazard information by administrative area/road/time series



">>>> Field Response App

