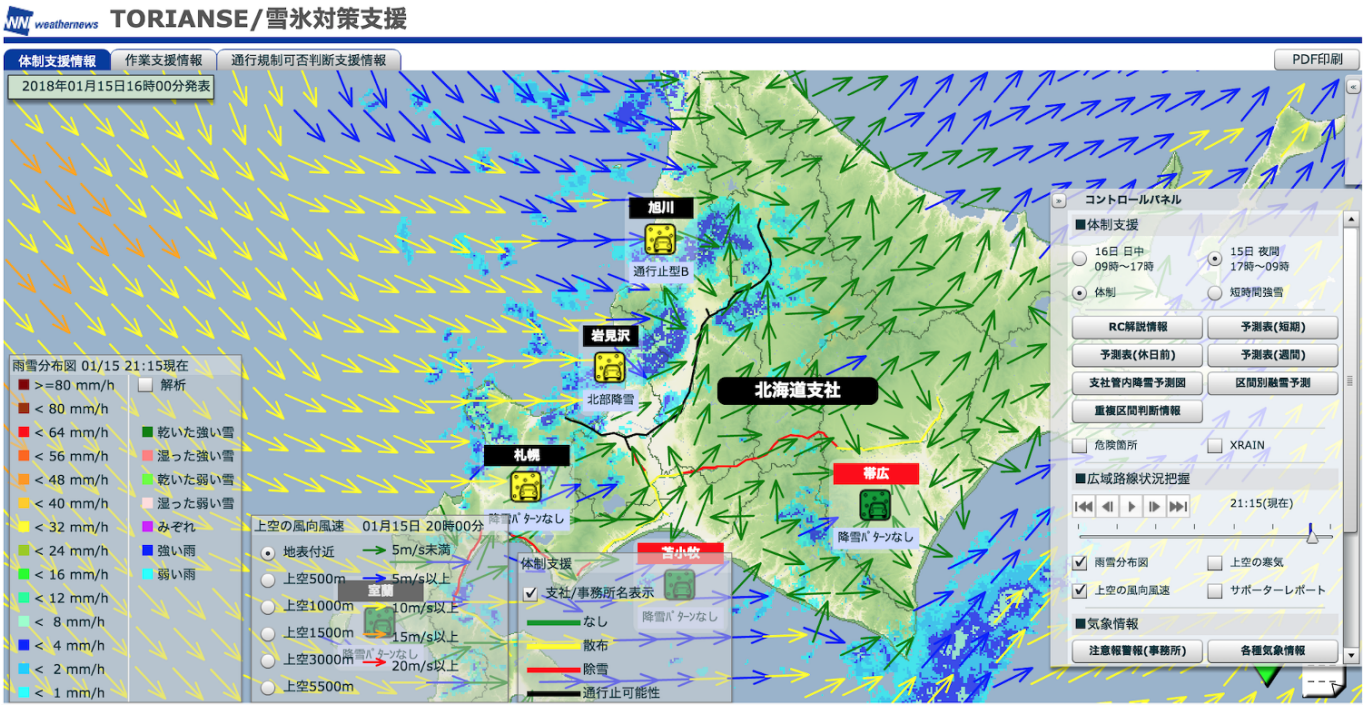
Total Road Risk Management Support Service

Road Weather Content Service using Unique Radar Analysis Technology



Hazard

Cyclone Flood Cold Wave Lightning

Solution Purpose

Prevention & Mitigation Preparedness

Solution Theme

Risk Assessment Infrastructure Technology Information & Communication Technology

Technology Subject

Hazard Identification Risk Monitoring River & Basin Road Information Gathering Information Analysis & Judgement Information Communication

Advantages

This technology comprehensively and centrally provides localized current weather information necessary for road management by using
- a small Doppler radar that covers a narrow range of clouds at low altitude, which is not covered by conventional large, general-purpose weather radars,
- and technology that calculates the current rainfall and snow distribution at unobserved local locations

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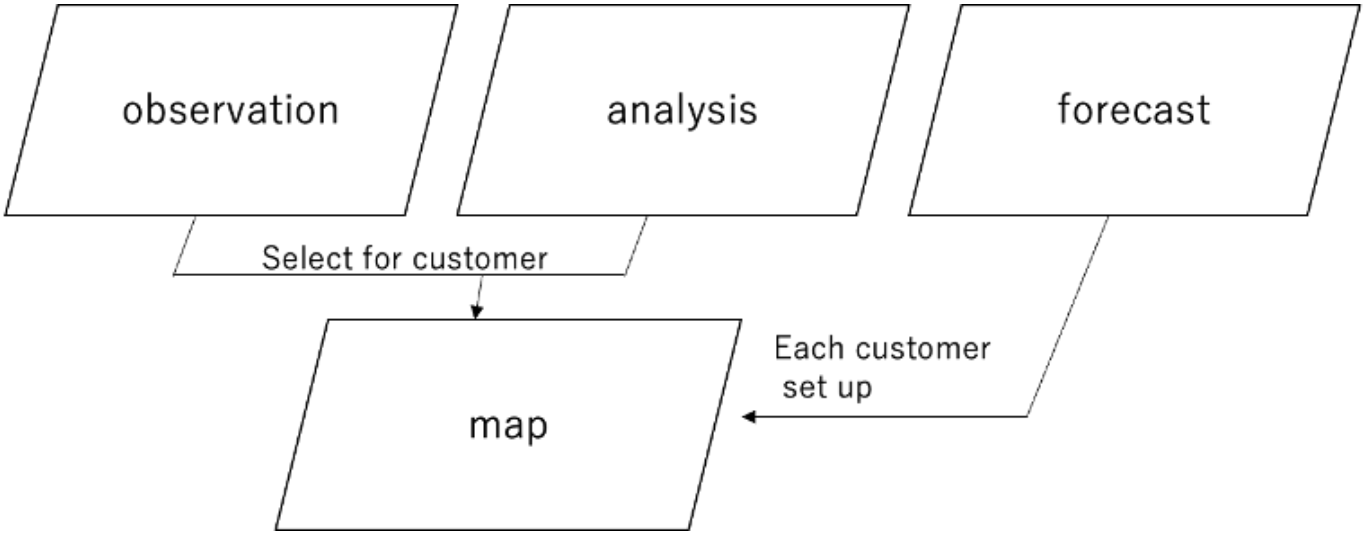
between observation points covered by large, high-altitude wide-area observation equipment.

It is also possible to display risks in 3-4 different colors linked to weather conditions that affect road management.

Solution Illustrated

-The risk displayed by stage is set according to the weather characteristics of each regional road administrator, but the target data can be freely selected according to the purpose.

-Regarding meteorological data, it is possible to superimpose multiple data. Therefore, it is possible to select the necessary data for each usage scene.



Background

<Original Observation>
What is needed with regard to weather risks for road management is localized actual conditions. The following is an introduction to our proprietary observation sensors. (Original Doppler Radar).

Our small Doppler radar that covers a narrow range of clouds at low altitude, which is not covered by conventional large, general-purpose weather radars,and technology that calculates the current rainfall and snow distribution at unobserved local locations between observation points covered by large, high-altitude wide-area observation equipment.
This data inform for road weather risk system.

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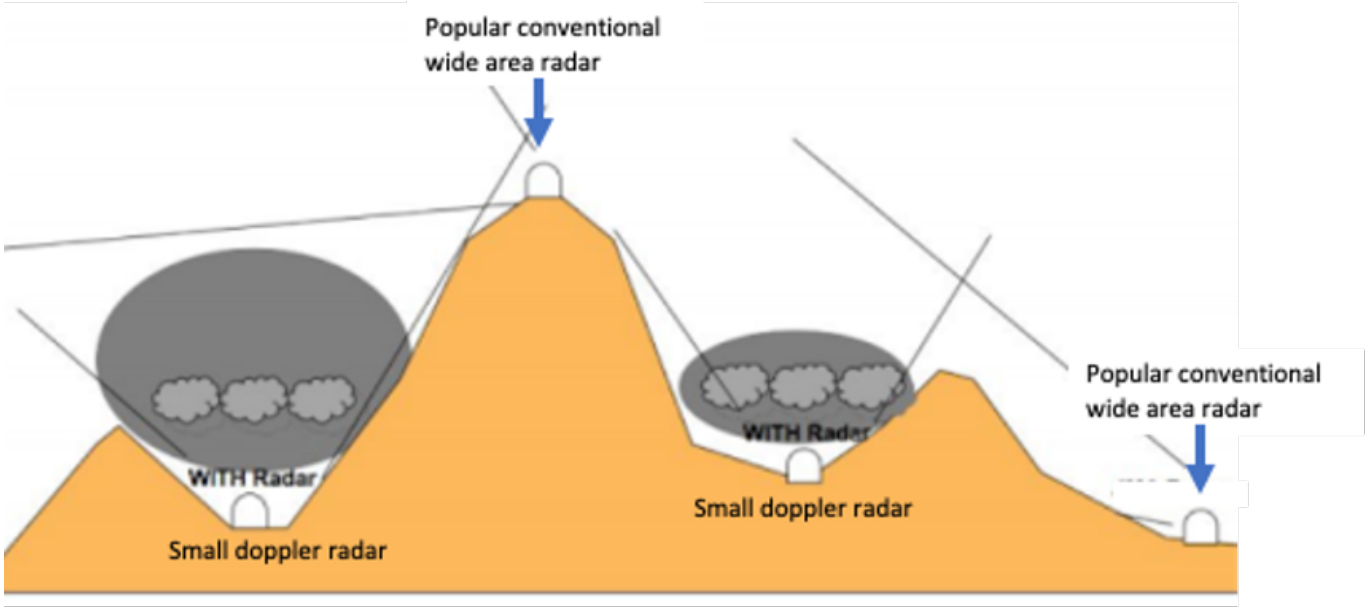
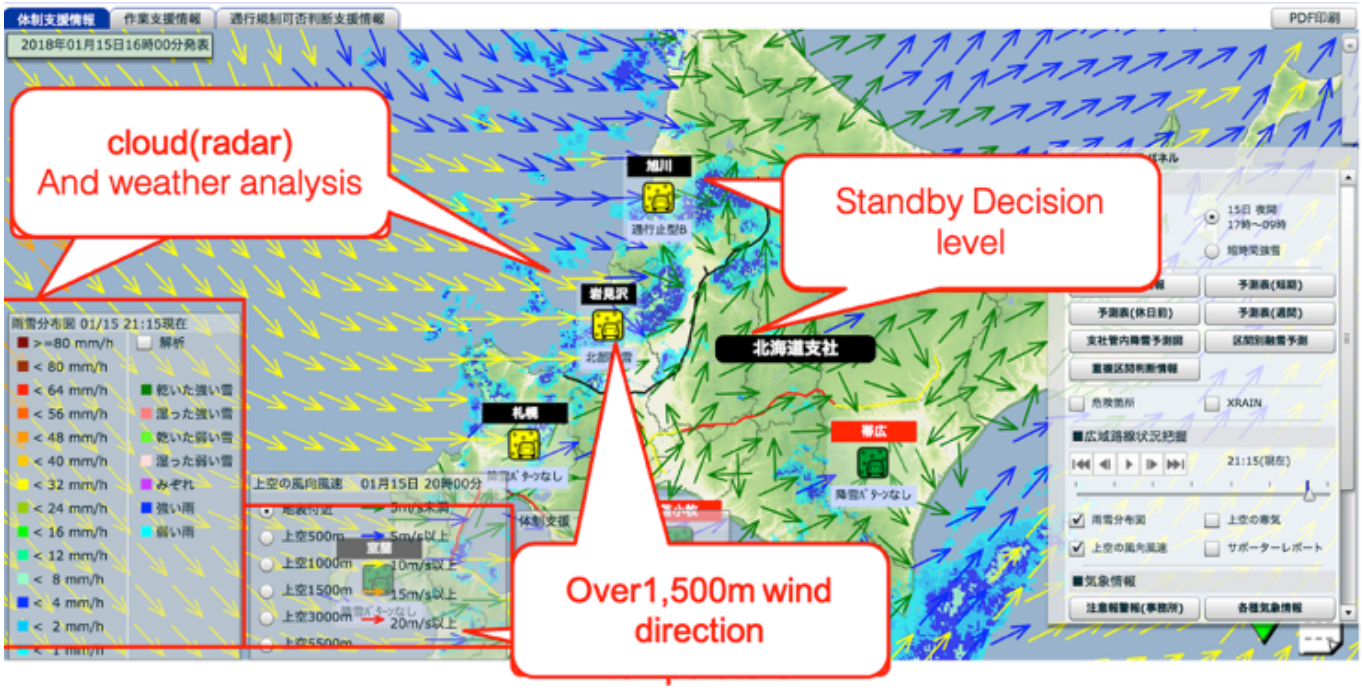


<Original Road Weather system>
various information required for road management can be integrated and displayed on a single map.
-The weather conditions for each road management work section are represented by a three- or four-color disaster risk scale.
-The weather data required by the road administrator can be selected arbitrarily.
-This technology also makes it possible to see unique small Doppler radar and weather forecasts.



Exposition of the Solution

By selecting and superimposing the necessary data when needed, this technology makes it possible to make the best situational decisions for road management, for example, whether or not to implement a large workforce to shovel snow from the road, or whether or not to spray anti-freeze.

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Achievements of Examples

-Experessway management compay(East,Centrol, West, and so on)
-Local government(over 20 customers)

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