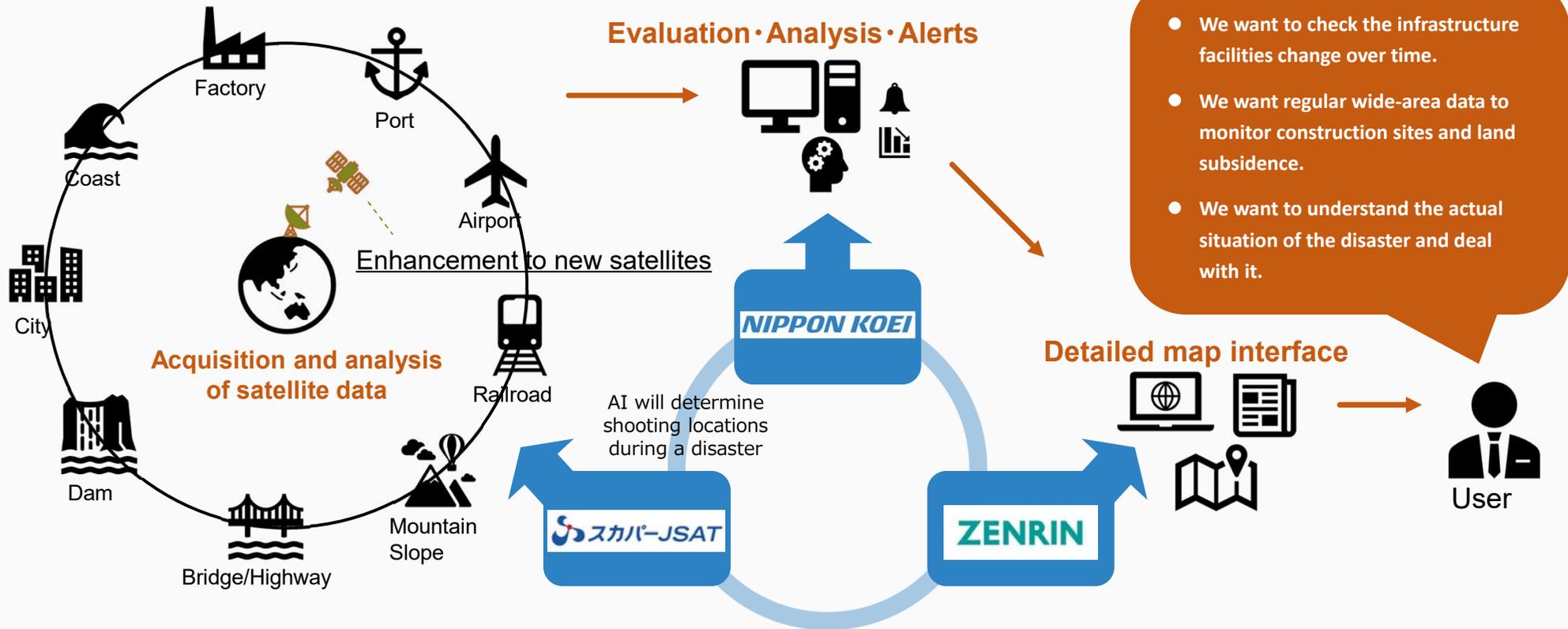


Service Overview

■ Satellite Anti-Disaster Information Service

➤ This system analyses satellite data and displays the results such as topography, changes of facilities, damage information during disasters, on a detailed map. It also provides statistical analysis to meet users needs.

Service Image

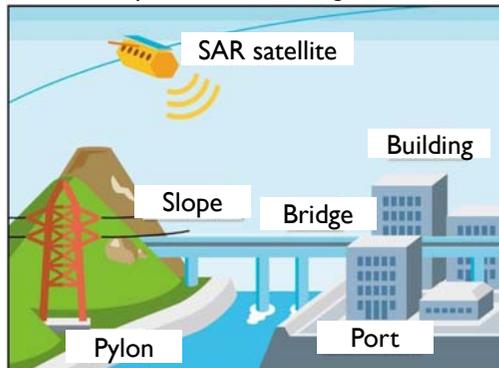


Infrastructure Monitoring Service

➤ Using satellite SAR interferometric time-series analysis, this service provides extensive monitoring of social infrastructure such as sediment slopes, riverbanks, and roads, and provides an appropriate risk assessment for displacement over time. High-accurate displacement monitoring of several millimeters is possible for a wide range of infrastructure facilities.

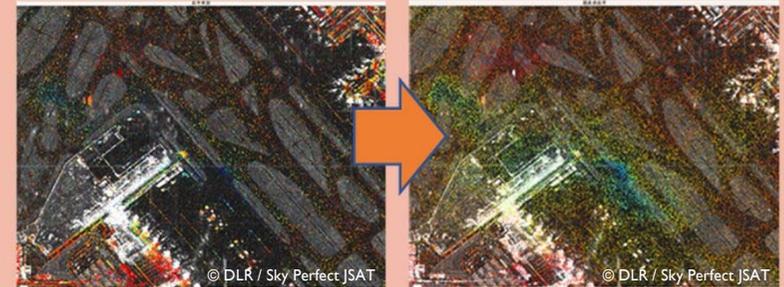
● Normal Time

Using infrastructure monitoring for disaster prevention and mitigation



Aging huge infrastructure facility

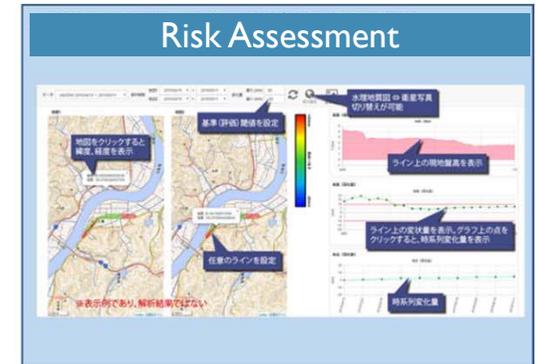
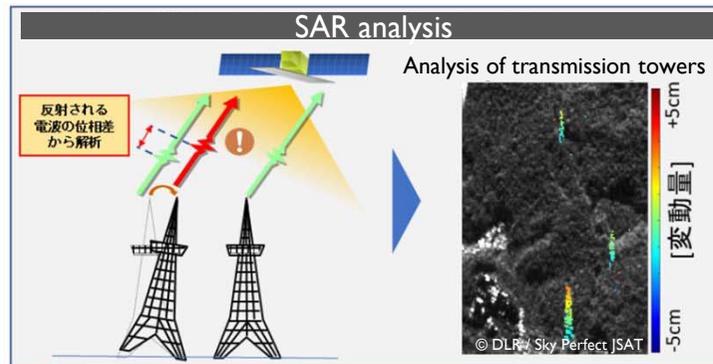
We increased observation density for infrastructure facilities and enabled advanced analysis



Before

After

- ❑ Huge infrastructure facilities that are difficult to check periodically by human eyes, such as roads and airports, and pylons in mountainous areas, can be monitored at once.
- ❑ By improving existing technologies, we have achieved higher observation density and accuracy for planar structures.
- ❑ We plan to develop risk assessment criteria based on the analyzed displacement status and build a corresponding service in the future.

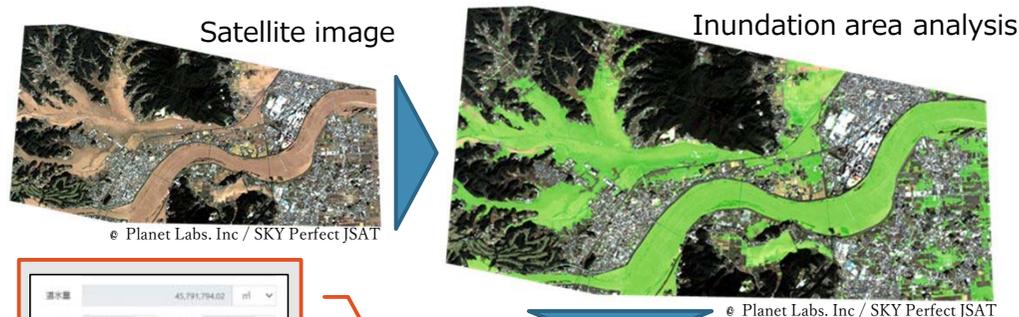
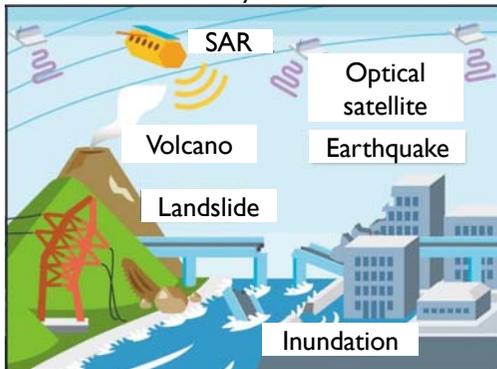


Disaster Information Services

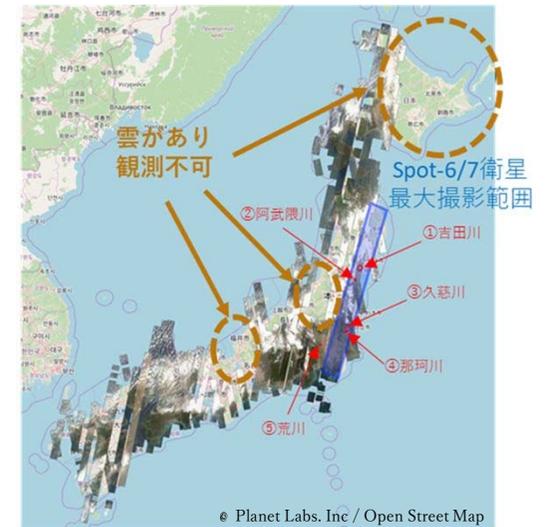
Through this service, users can get information of inundation areas, landslide areas, and additional information such as inundation depth, affected population, number of flooded houses, and traffic condition. In the future, inundation forecasting technology based on topographical and meteorological data and inundation estimation technology using SNS will be used to improve the speed of information.

● During Disaster

Doing damage assessment and supporting rescue and recovery activities.

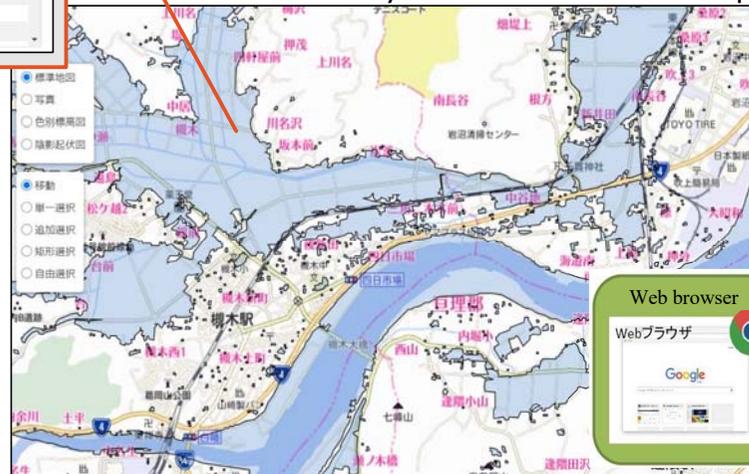


Images taken at the time of disaster (Typhoon Hagibis 2019)

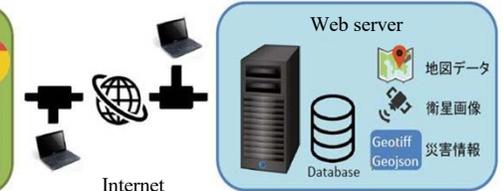


標準画素	45,791,794.02	m
人口	3,038	人
建物数	923	棟
建物施設	種類	名称
	市町村役場等及び公的集会所	南青森地区集会所
	法務施設	あぶくま公園
	文化施設	あぶくま公園
	文化施設	あぶくま公園

Analysis Result + Zenrin map



- ❑ In addition to Planet labs optical satellites that take images of the entire world once a day, SAR satellites that are available for nighttime and bad weather observations can be used to assess the disaster situation on the same day or the next day.
- ❑ Anyone can easily retrieve and extract information through the viewing system.
- ❑ additional information is provided according to customer needs using Zenrin map information.
- ❑ It is expected to be used for emergency response, evacuation, rescue, and restoration.



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