Status of bridge inspection①

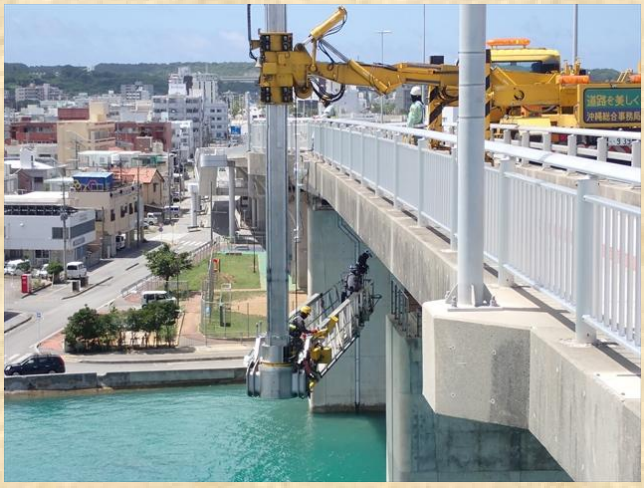
(1)Inspection Status

・The integrity of bridges is confirmed through patrol inspections and periodic inspections conducted once every five years.

Patrol rounds

Scheduled inspection by ship

Regular inspection by an inspection vehicle



Nighttime regular inspection

Status of bridge inspection②

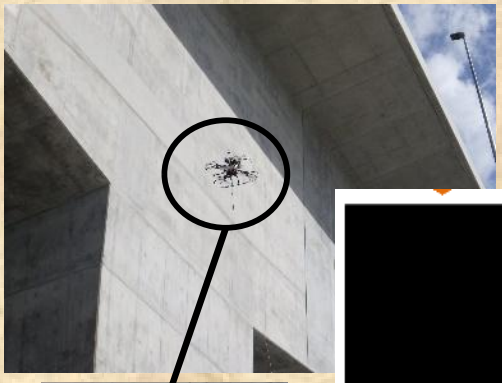
(2) Inspection status using large special vehicles and new technologies (National)

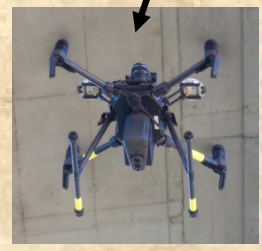
・Bridges on national highways under direct control are often large- span bridges, and regular inspections are conducted using large special vehicles.
・We conduct bridge inspections utilizing drone technology and other methods, thereby improving the efficiency of inspection and documentation tasks.

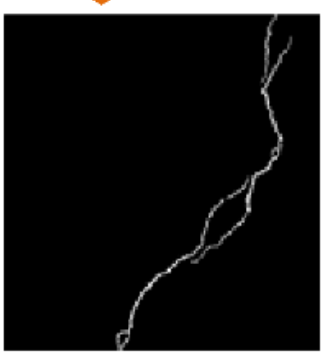
Inspection by inspection vehicle

Inspecting damage to elevated bridges through close-range visual inspection

Utilization of drones and image analysis technology



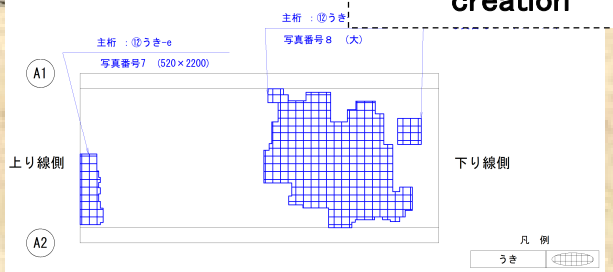




出力画像
（ひび割れ画像）

Detection of Floating Objects Using Mobile Seismic Wave Survey Method

Damage diagram creation



Bridge Repair and Reinforcement Case Studies①

(1) National Highway Bridge

・Through regular inspections, we detect damage early and implement planned countermeasures.

National Route 329 AneBridge（Ogimi Village） Built in 1984

【Damage Cases】

Salt damage caused peeling of the main girder and exposure of reinforcing bars.

【Countermeasure Examples】

Electrical corrosion protection

National Route 506 Yamakawa Overpass（Haebaru Town） Built in 1999

【Damage Cases】

Corrosion of bolts and corner areas

【Countermeasure Examples】

Repainting of steel girders, replacement of bolts

National Route 58 Yamashita kinohana Overpass (Naha City) Built in1983

【Damage Cases】

Cracking at the main girder ends caused by alkali-aggregate reaction

Countermeasure Examples

Protective coating of the main girder

Bridge Repair and Reinforcement Case Studies②

(2) Prefectural road bridge

Even in the prefecture, damage is detected early through regular inspections, and measures are implemented in a planned manner.

Prefectural Route 14　Tahara Bridge (Nago City)　Built in1976

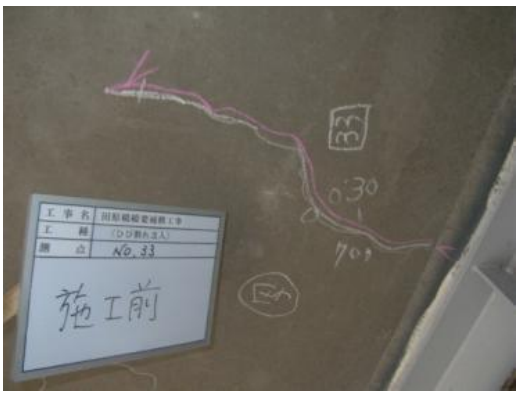
【Damage Cases】

Steel corrosion caused by salt damage, lack of an anti-collapse system

【Countermeasure Examples】

Repainting, Installation of a fall-prevention system

【Damage Cases】



Cracks and delamination have occurred in the concrete deck due to salt damage.

【Countermeasure Examples】

Crack Injection

【Damage Cases】

Corrosion of bolts and corner areas

【Countermeasure Examples】

Bolt replacement, repainting