CASE STUDY

Sherbrooke bridge deck surveying
SHERBROOKE BRIDGE DECK SURVEYING
RIS Hi-BrigHT Main Applications

- Asphalt thickness
- Damage areas detection
- Reinforcement cover depth
- Rebars position and slab geometry in reinforced concrete
- Bridge deck condition assessment
SHERBROOKE BRIDGE DECK SURVEYING

Surveyed Area

Starting Point
SHERBROOKE BRIDGE DECK SURVEYING

Asphalt Thickness

- Thickness > 5 cm
- Standard Thickness 5 cm
- Thickness < 5 cm

Thickness < 2 cm
SHERBROOKE BRIDGE DECK SURVEYING

Power Map

High Power

Low Power
SHERBROOKE BRIDGE DECK SURVEYING

Moisture Map
Area 1 has the following characteristics:

- Low Asphalt Thickness (m)
- High Power (V)
- Low Moisture
Area 2 has the following characteristics:

- Low Asphalt Thickness (m)
- Low Power (V)
- Low Moisture
SHERBROOKE BRIDGE DECK SURVEYING
Moisture Map

*Zoom of longitudinal radar section around the Transition Zone*

Different rebar layers detection on a longitudinal radar section and different asphalt thickness

- Asphalt Base
- Rebar Layer