XAIS

Asset Management Solutions

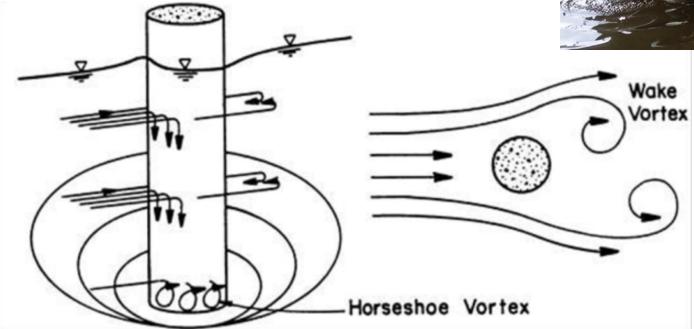
Developments in measuring SCOUR!

Ways to measure SCOUR

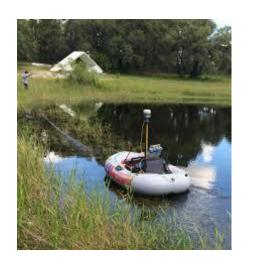
- 1. Traditional Divers
- 2. Ground Penetrating Radar
- 3. Multi-Beam Echosounder and Side Scan Sonar
- 4. Acoustic Scanner

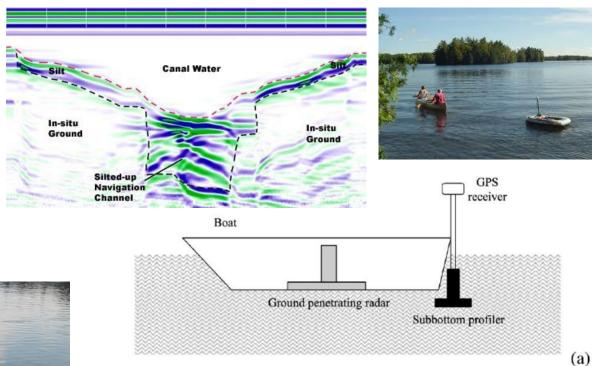
Traditional



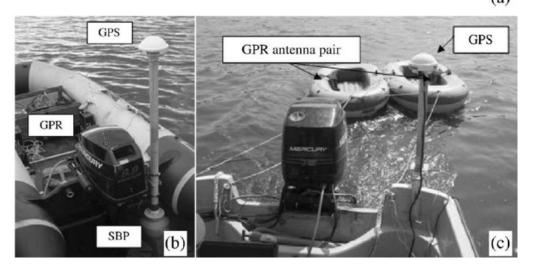


Ground Penetrating Radar (GPR) on Water









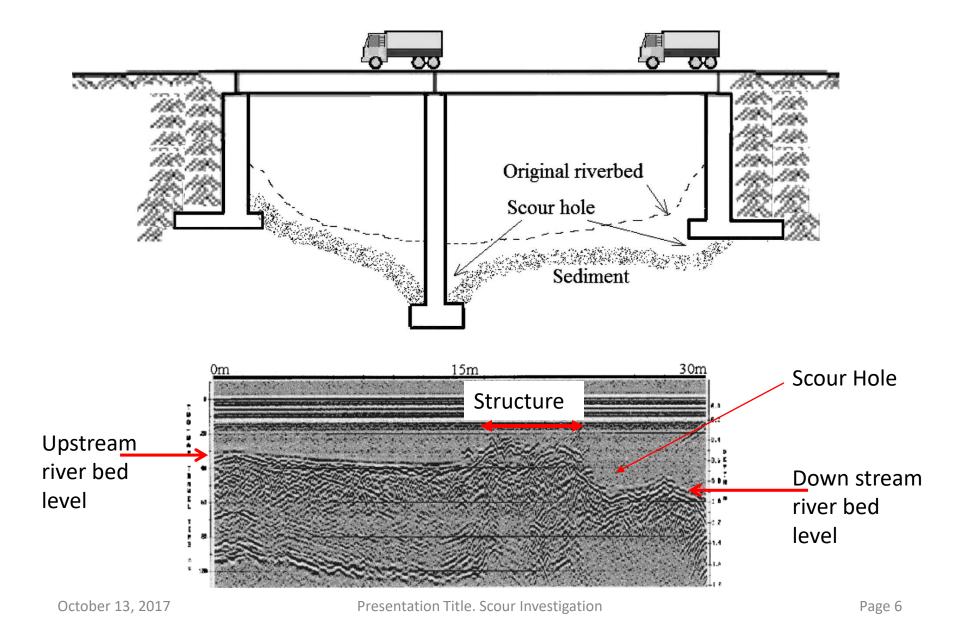
Ground Penetrating Radar (GPR) and Scour



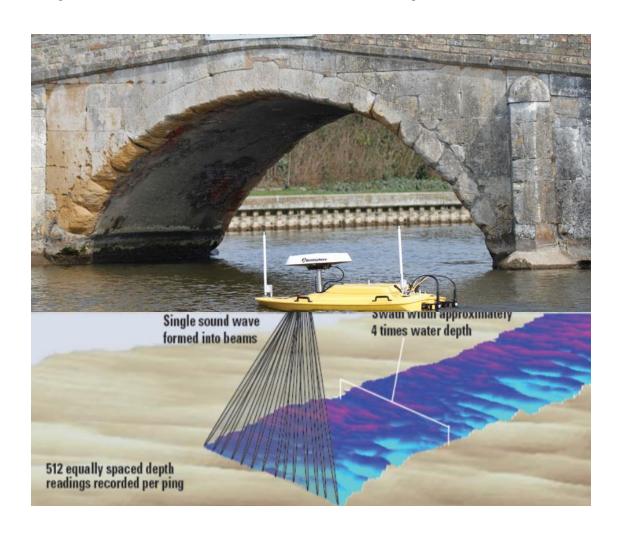
GPR Can be run along al sides of a water-borne structure

A distinctive dip can be seen where the scour occurs

Ground Penetrating Radar (GPR) and Scour

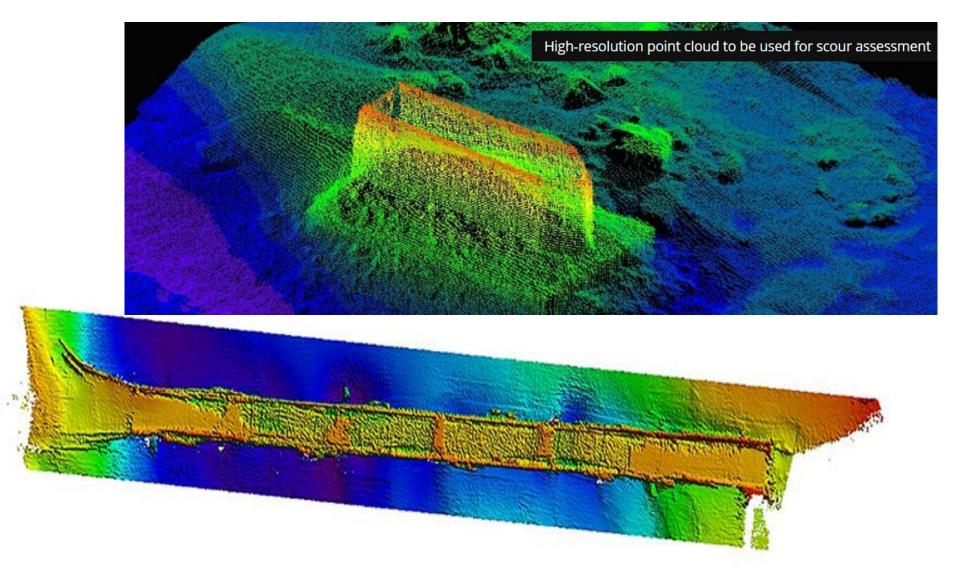


USV Surveys Using MBES(Multi-Beam Echo Sounder)



The Multi-Beam Echo Sounder beam width is typically four times the water depth. So a river of 8m depth could be surveyed with a swath foot print of 40m.

Scour and River / Canal Profiles & Cross Sections Using USV Mounted MBES (Multi-Bean Echo Sounder)



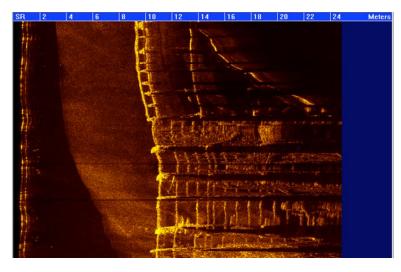
USV and SSS (Side Scan Sonar)



Can be used where it is Considered Too Dangerous for Conventional Survey Work







Effect of Horseshoe and Wake Vortex Using a Static Scanner

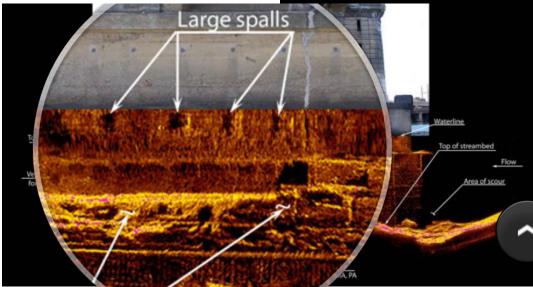




Static Scanning

Digital Data Murky Water No Problem





Static Scanning

River / Canal Cross Sections



