

# PONTFELHŐK VÍZ ALATT ÉS VÍZ FELETT

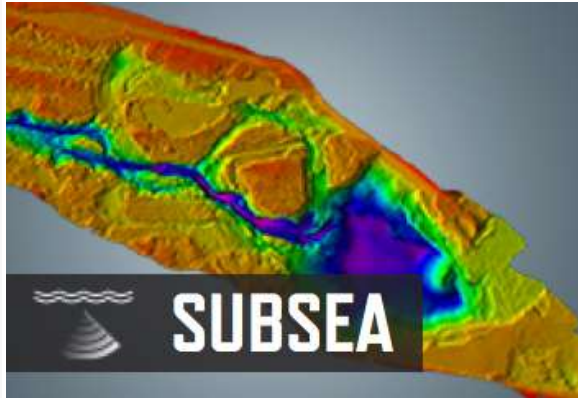
Szentpéteri László

*NORBIT Hungary Kft. – EMEA Régiós Kereskedelmi Vezető*

GISOpen 2021, - Székesfehérvár

- **OCEANS** (Subsea Technologies)
  - **ITS** (Intelligent Traffic Systems)
  - **PIR** (Product Innovation & Realization)
  - **12 iroda a világban.**
- 
- A kutatás a trondheimi központban,
  - **a fejlesztések pedig**
    - Norvégiában,
    - Izlandon és
    - Magyarországon (OCEANS és ITS) folynak.







NORBIT Integrated  
WINGHEAD i77h



NORBIT WINGHEAD  
B41



NORBIT WINGHEAD  
i79h



NORBIT WINGHEAD  
B45



NORBIT WINGHEAD  
DUAL HEAD



NORBIT iWBMS



NORBIT iWBMSh



NORBIT iWBMSh STX



NORBIT iWBMSe



NORBIT iWBMSh Dual  
Head

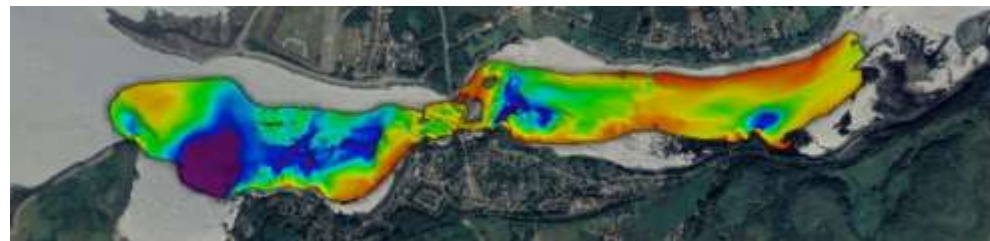
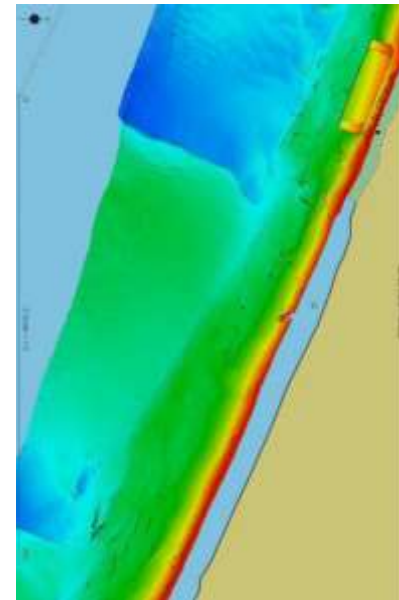


NORBIT WBMS STX



NORBIT WBMS-bathy

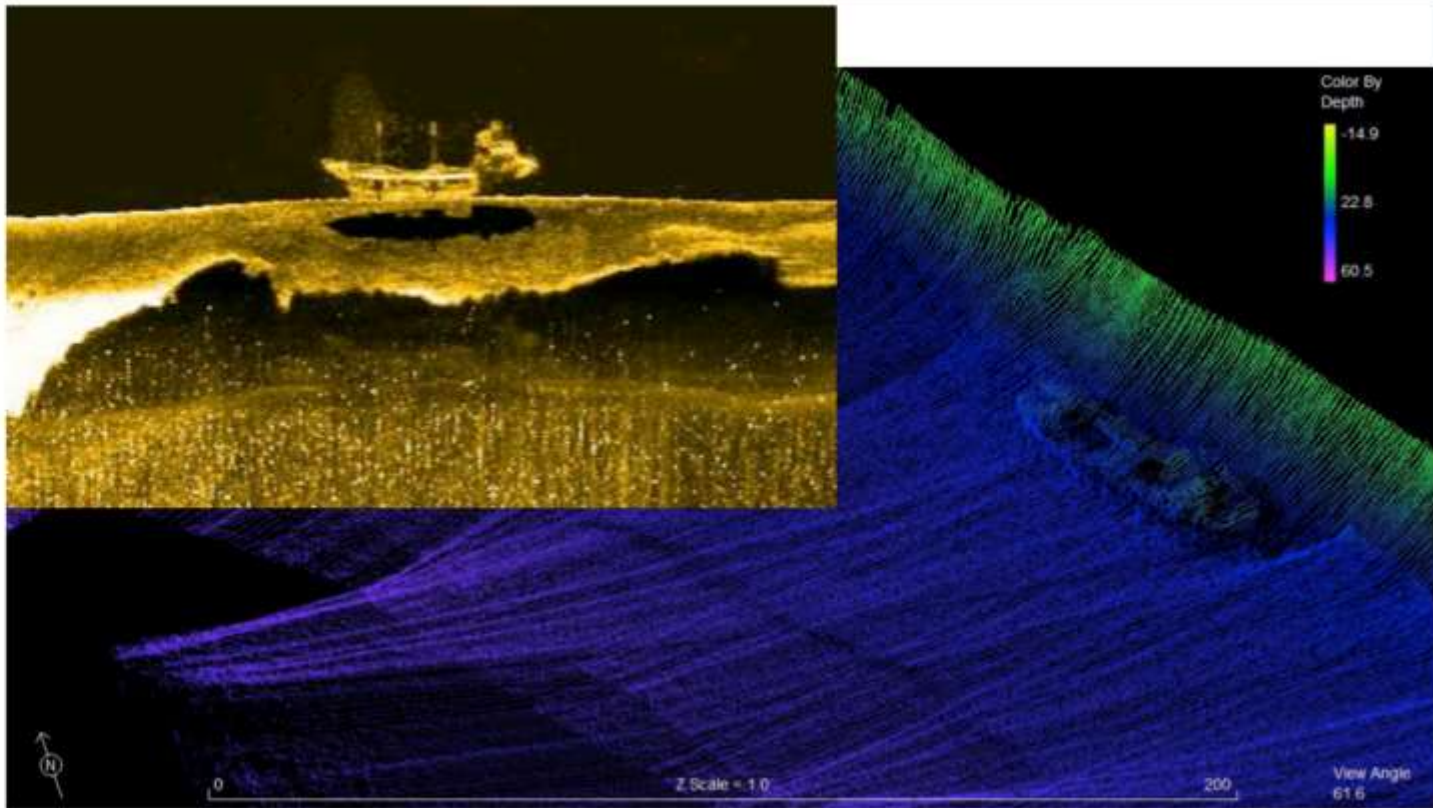
- Elemi nyalábok szám: 512-1024
- Vízmélység: 0.2 m-től akár több száz méter
- Sekély, vagy mély vízre optimalizálva
- Mérés pontossága: 2-3 cm
- Szűkíthető/tágítható nyílás (akár 210 fokig!)
- Fix, vagy eltéríthető letapogatási irány
- Beépített INS/GNSS-el (vagy anélkül)
- Ipari standard output (S7K)
  - ✓ Hypack
  - ✓ QPS
  - ✓ EIVA
  - ✓ BeamworX



Multibeam & Side  
Scan Mode Data  
HYPACK

Frequency 400 kHz  
FM 80kHz BW  
Swath angle 160°

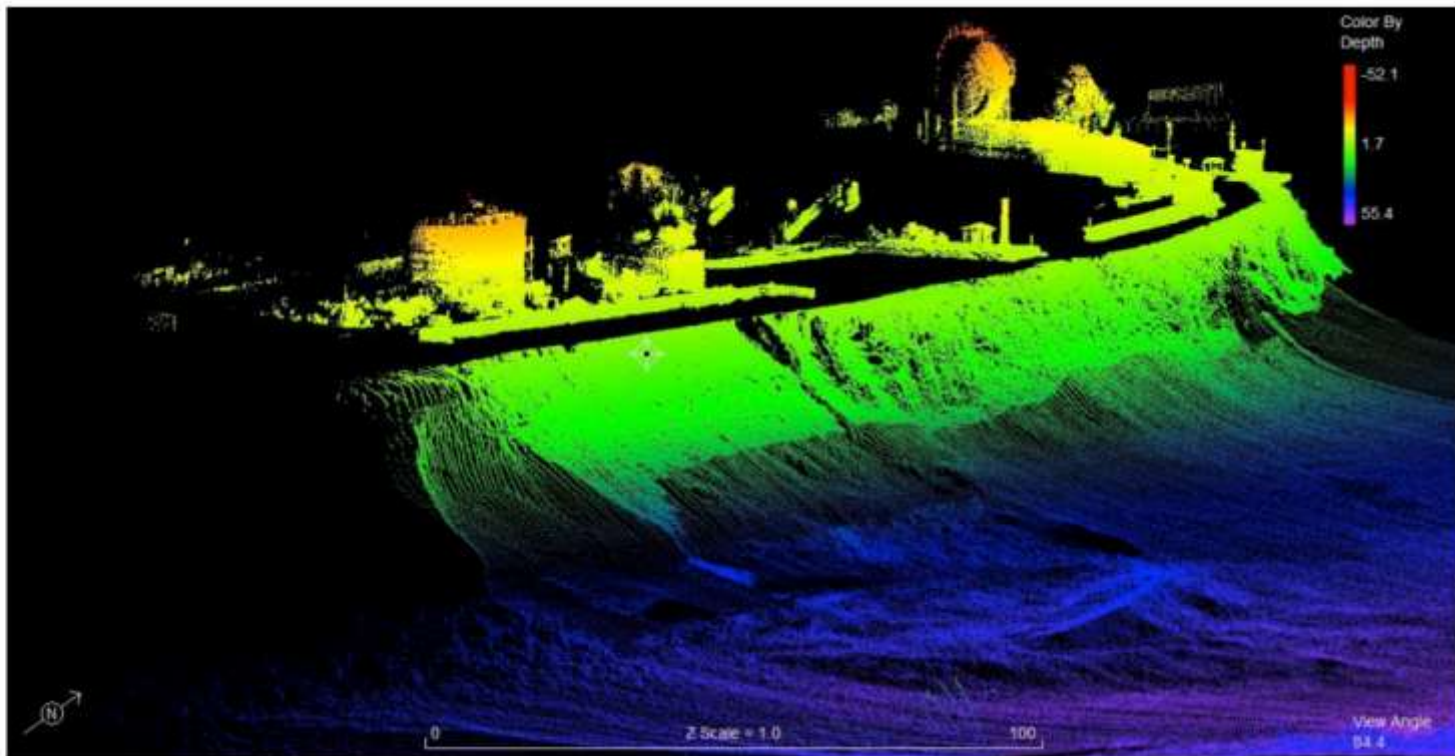
Vertical  
Exaggeration 1.00



Multibeam &  
Laser Scan Data  
HYPACK Cloud  
View

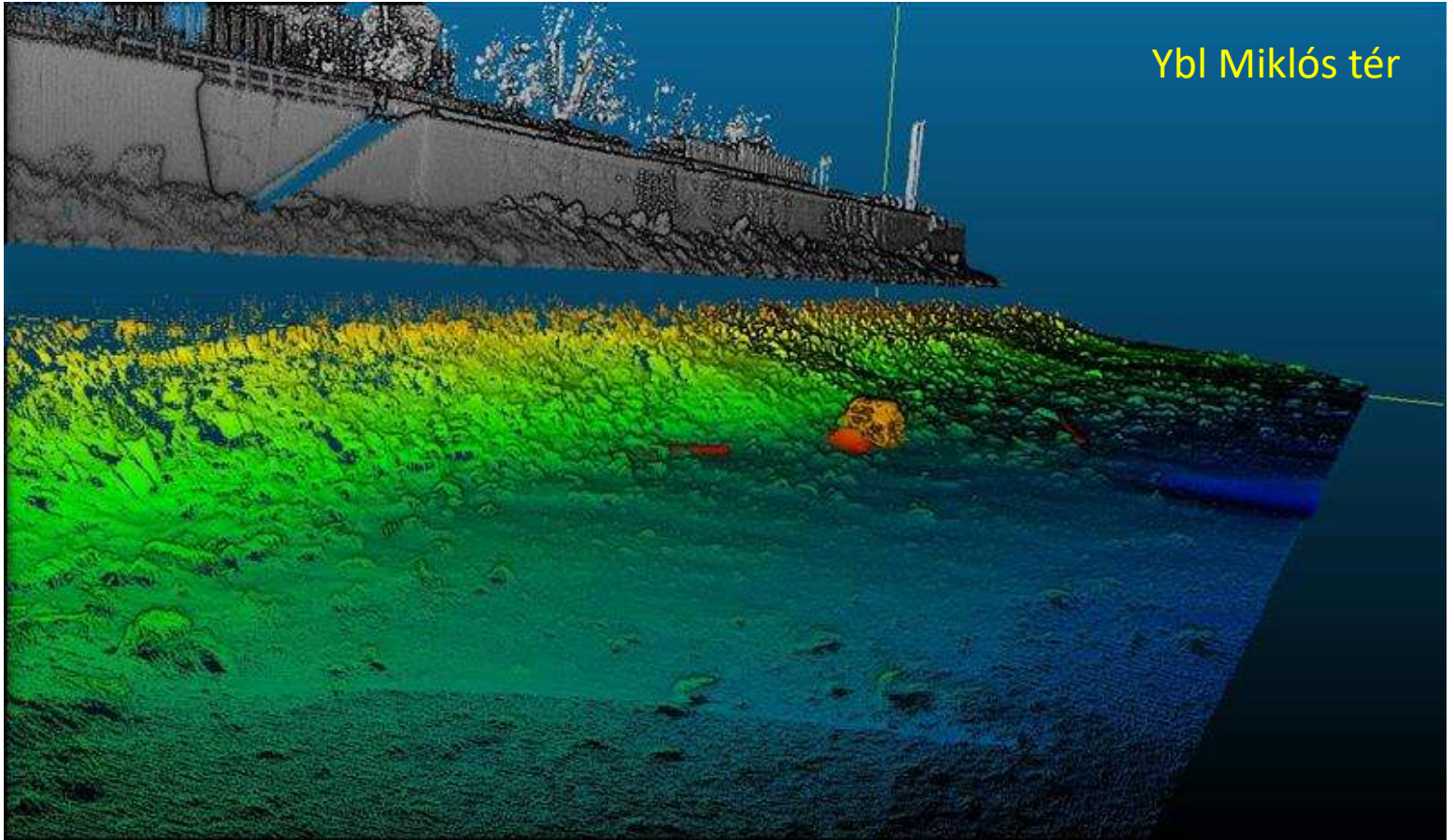
Frequency 400 kHz  
FM 80kHz BW  
Swath angle 160°

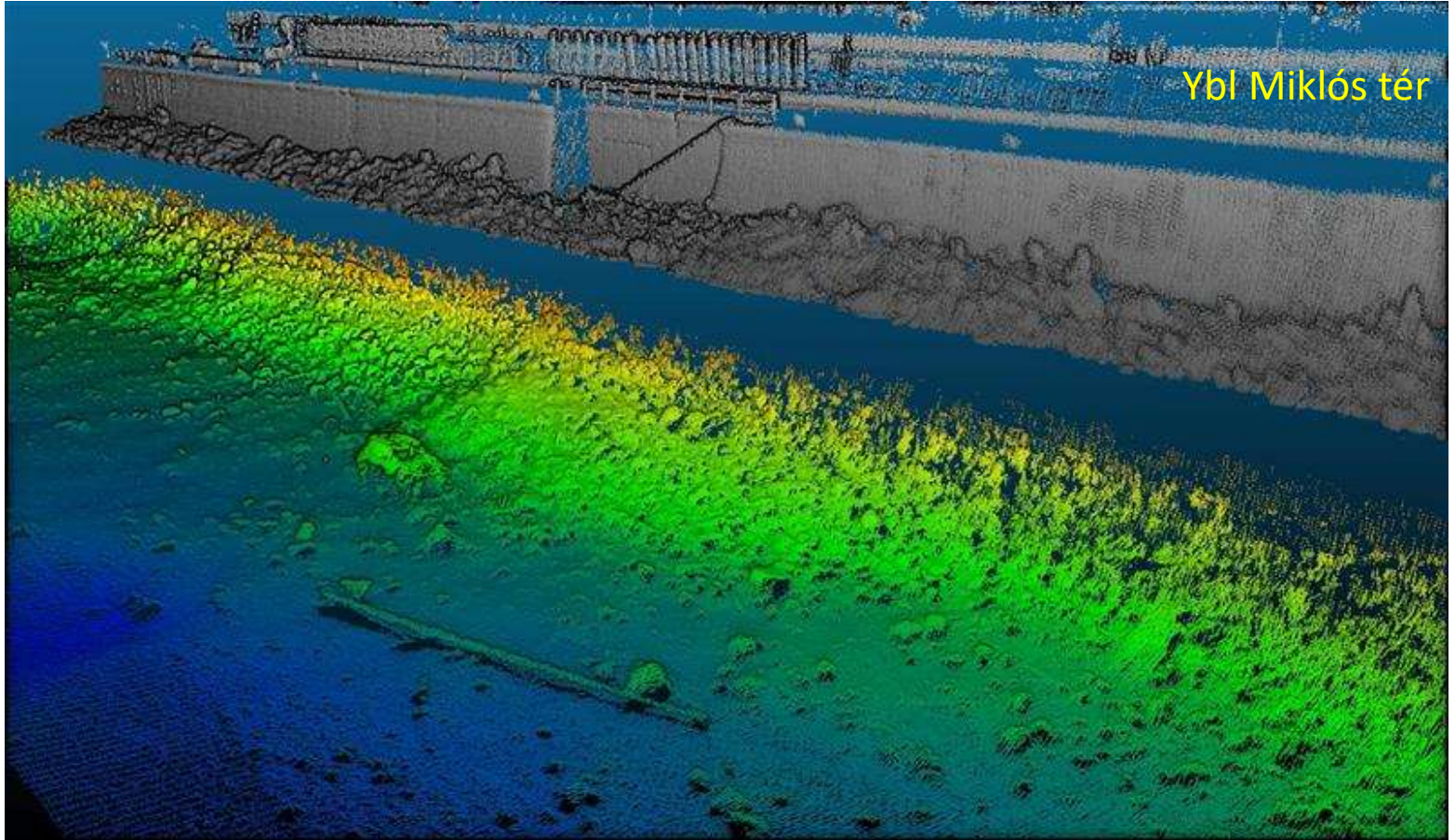
Vertical  
Exaggeration 1.00



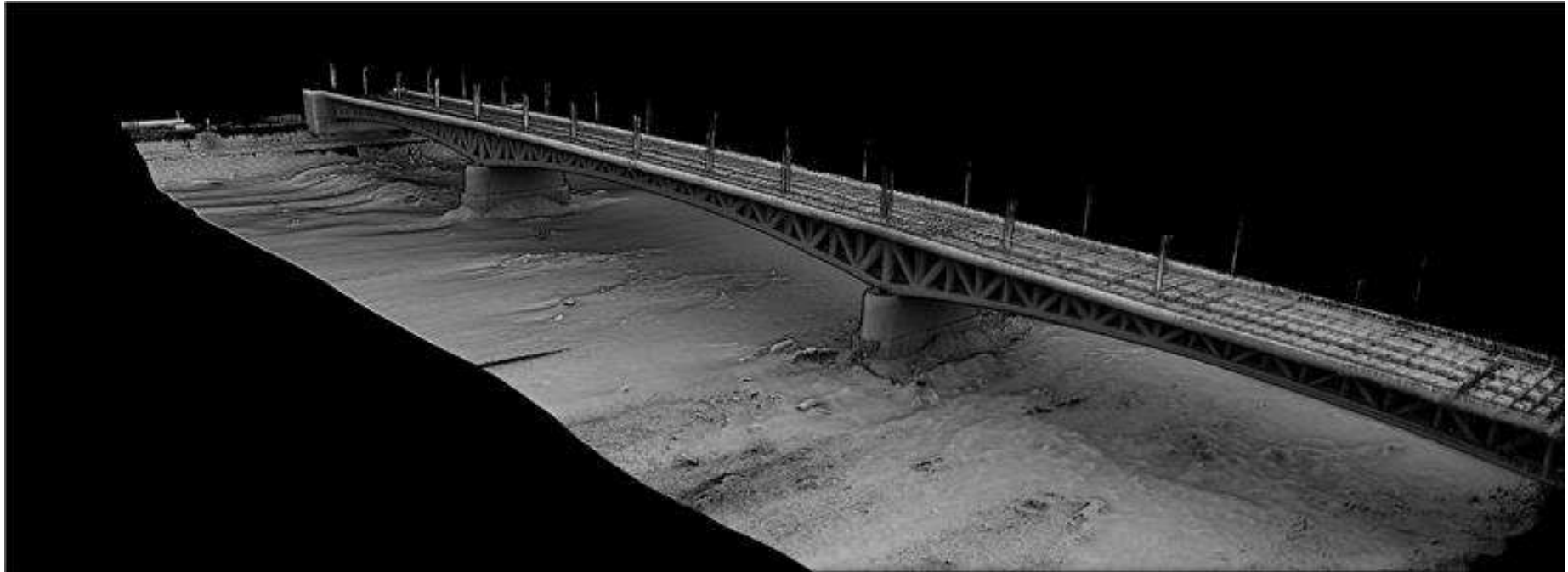




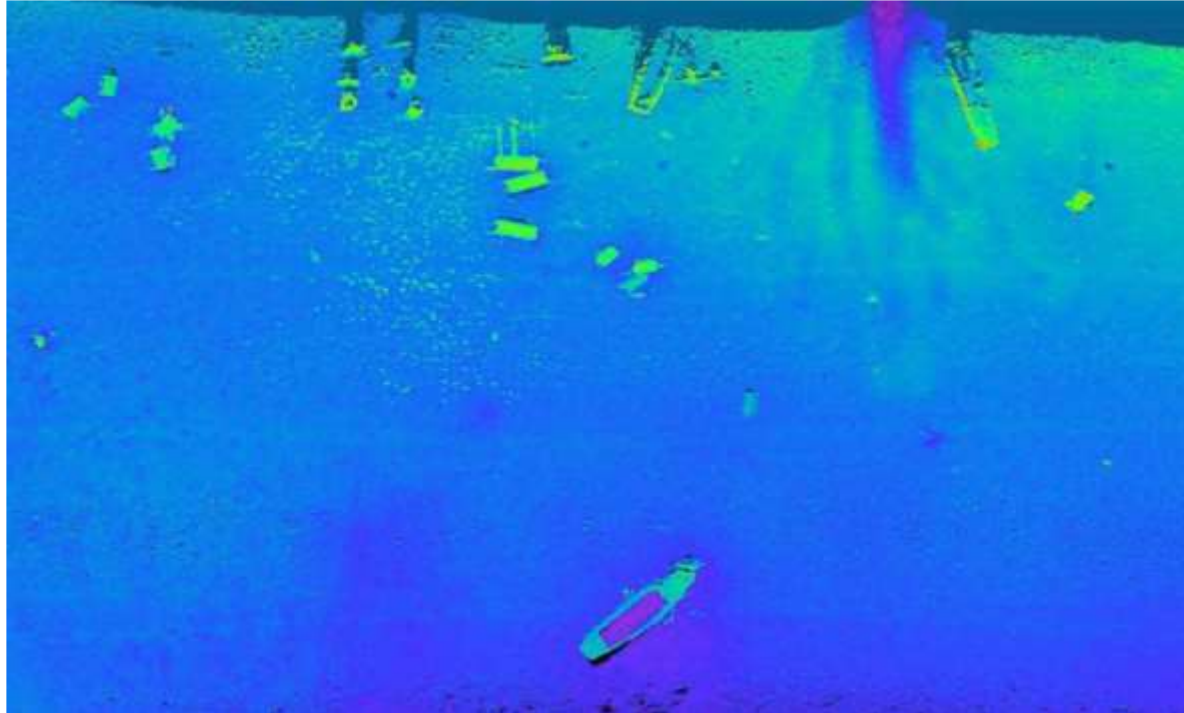


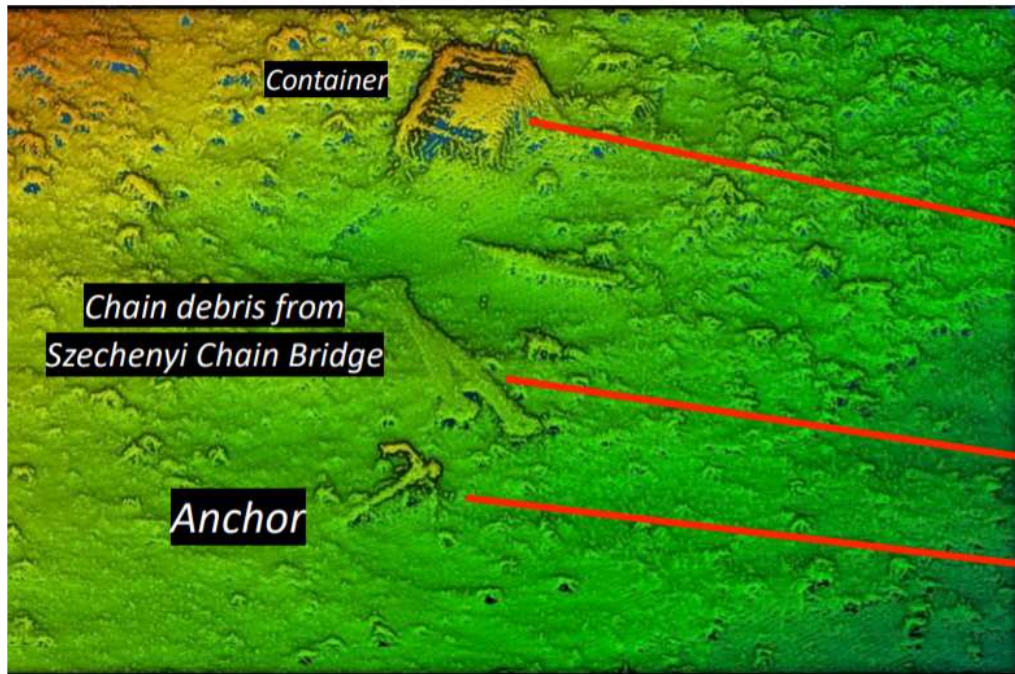




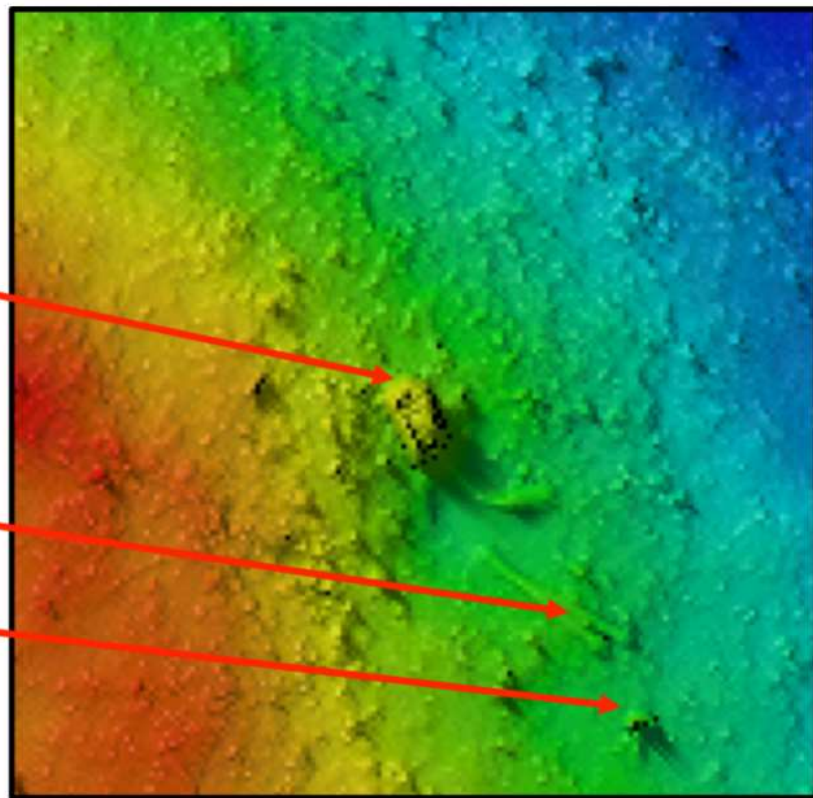








Full resolution processed point cloud viewed at oblique angle



Standard DTM model 25cm grid size





*Processed Point Cloud Representation*

These storage drums were located near a popular fishing location. Full resolution point cloud data allows divers to have the maximum level of detail required to plan and support safe inspection and recovery.



*Public images of dumped drums*





*“Victory awaits him who has everything in order —  
luck, people call it.”*

Roald Amundsen, The South Pole, 1912.

# KÖSZÖNÖM A FIGYELMET!

**Bajdik János**, Sales and Support Manager Hungary ([Janos.Bajdik@norbit.com](mailto:Janos.Bajdik@norbit.com))

**Szentpéteri László**, Sales Manager EMEA ([Laszlo.Szentpeteri@norbit.com](mailto:Laszlo.Szentpeteri@norbit.com))

*NORBIT Hungary Kft. – [www.norbit.com](http://www.norbit.com)*