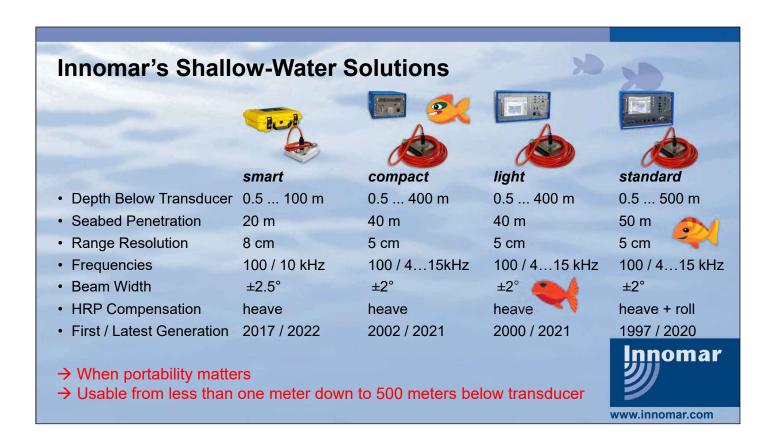
# Proceedings of the 10<sup>th</sup> Workshop "Seabed Acoustics", Presentation P03:

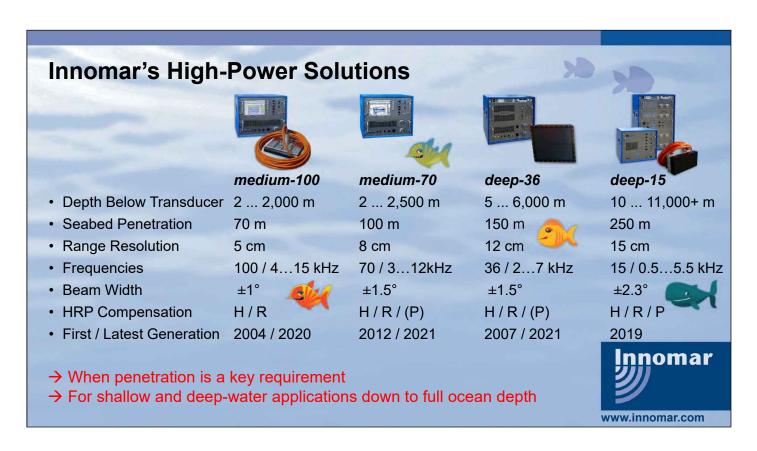
## **Innomar Products: News and FAQ**

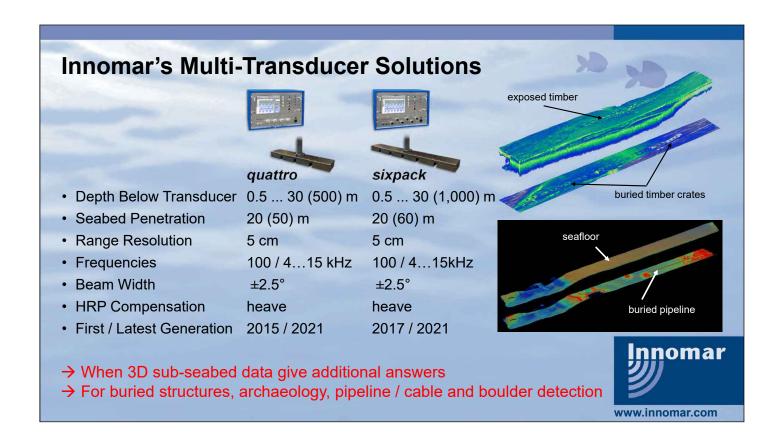
Dr. Jens Wunderlich Innomar Technologie GmbH, Germany (jwunderlich@innomar.com)

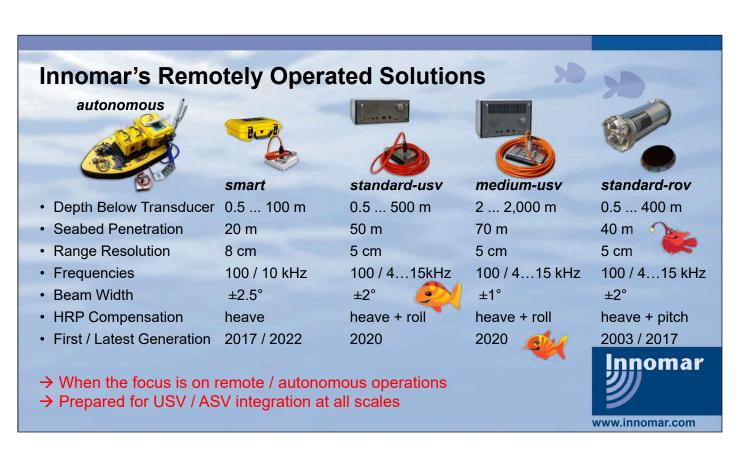
10<sup>th</sup> November 2022







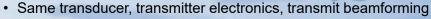




## "USV" vs. "Normal" Innomar SBP models



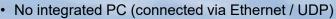




- → Same acoustic output
- → transducer with shorter cable (7 15m instead of 30m)
- → transducer cable optionally with inline connection







- → less space, lower weight and power consumption
- → lower ping rate (also in multi-ping mode)
- → preferably use short ranges





- Only one receiver per channel (HF / LF)
  - → no beamforming at reception
  - → lower dynamic range



- "Rack-mount" versions of all models available
  - → mounts into 19" rack
  - → closed frame for safety and proper air flow



## **Innomar Software & File Formats**

**SESWIN** → GUI for control & data acquisition

- Improved remote-control options ("usv")
- · Zoom echo plot (2020)
- NAV-Data setup improved (UDP, comma separated)
- NAV-Data conversion → automatic Hemisphere (GGA)
- New Firmware Updater → for all models

**NetViewer** → QA / supervisor / client rep

Improved version

**SESConvert** → data converter to SEGY, ASCII, ...

Mainly bugfixes

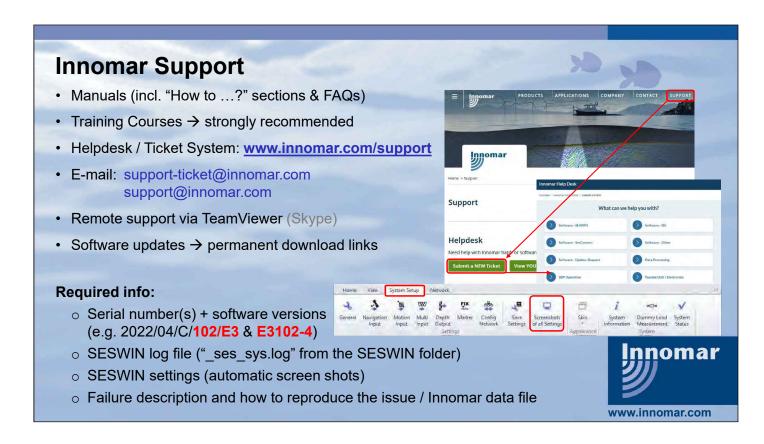
**ISE** → post processing / QA

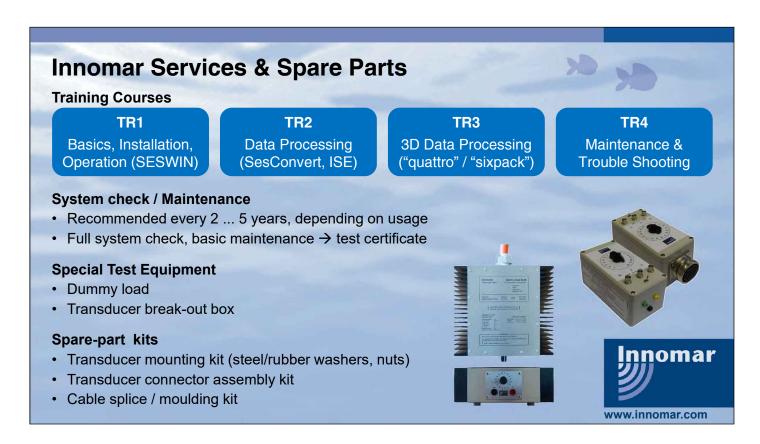
- ISE2: improved SES3 support, zoom, bugfixes
- ISE3: released Nov. 2021
- ISE3: improvements based on user-feedback

#### **Data Formats**

- · SES (envelope, red. sample rate)
- RAW (16-bit full waveform)
- SES3 (24-bit full waveform)







#### **Innomar Training Courses** TR1 TR3 TR4 TR2 3D Data Processing **Basics** 2D Data Processing **Maintenance and** (SesConvert, ISE) ("quattro"/"sixpack") trouble-shooting underwater acoustics Innomar SBP models sub-bottom profiling · data formats processing workflow parametric acoustics data conversion system components data gridding Innomar SBP models (SesConvert) · volume rendering system installation ISE data (pre-) visualisation · system check Installation processing · basic maintenance transducer mounting quality assurance repairs & STE · topside installation · reflectors & targets interfaces data export · noise & interference software Operation (SESWIN) nnomar typical settings To get best results, we strongly recommend · data formats to attend the appropriate training courses www.innomar.com

