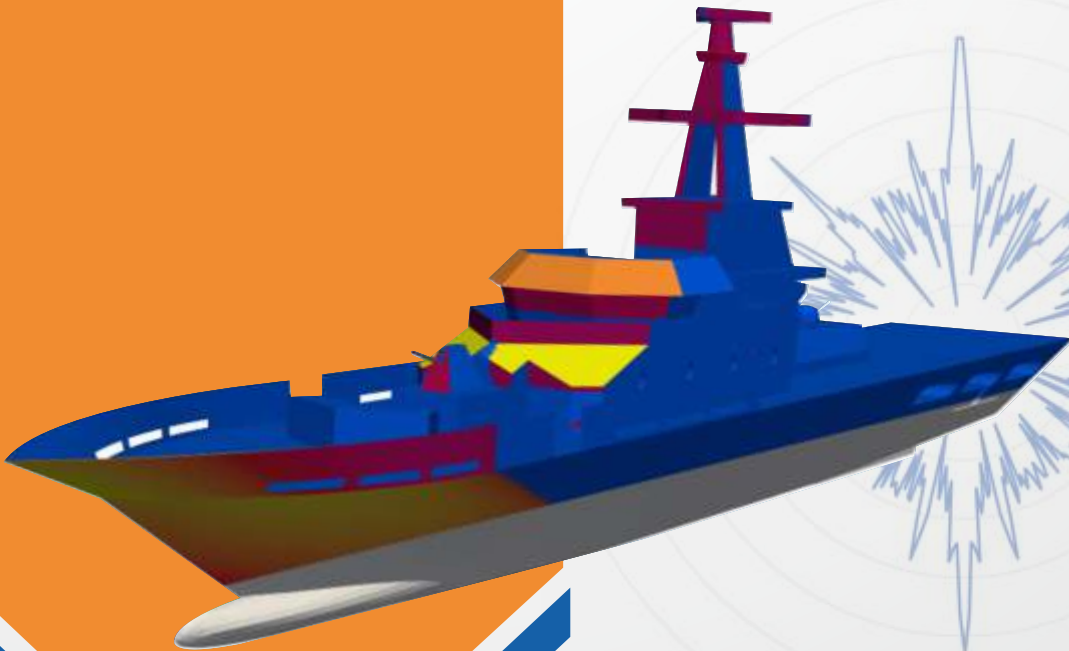




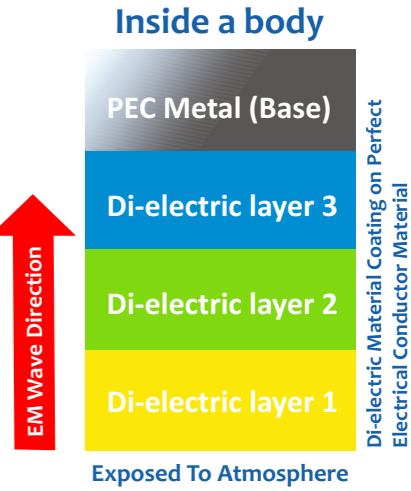
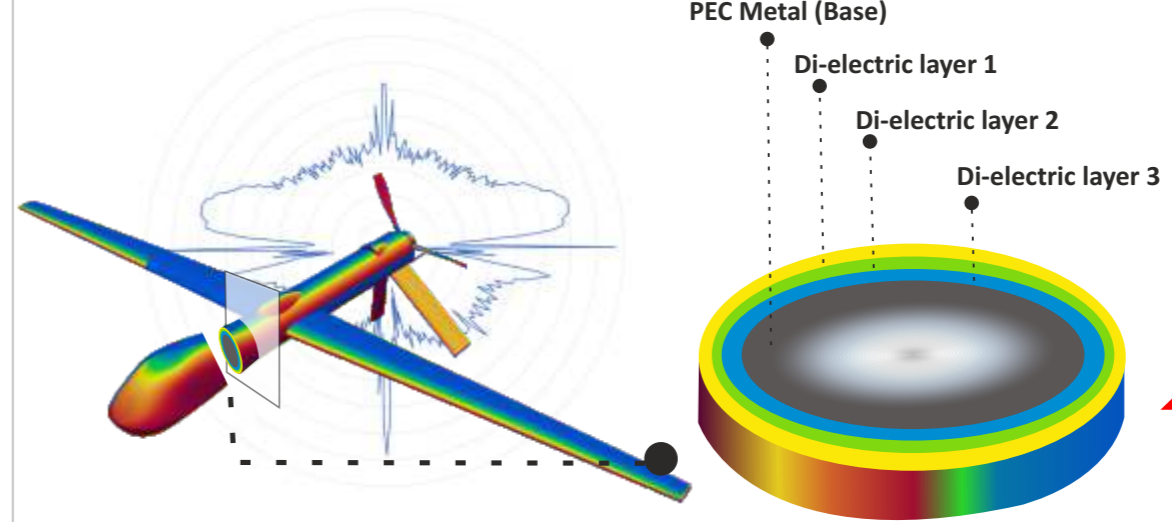
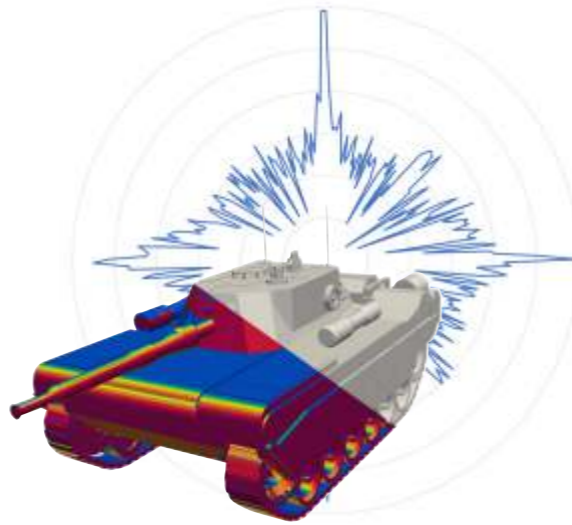
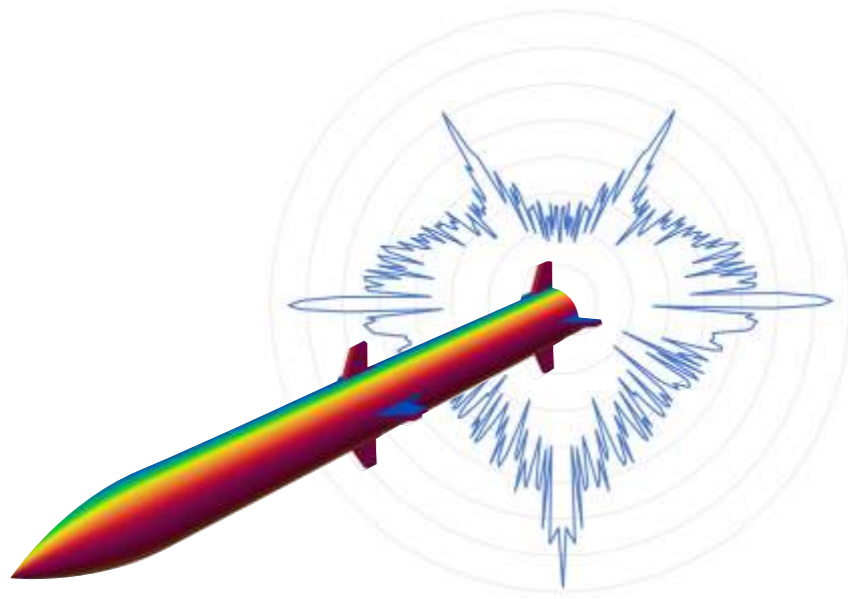
ZEUS NUMERIX

# CEMExpert™

Predicts and Enhances Stealth



RCS Plot | ISAR Imaging | Hotspots | Scattering Centres | RAM



### Software capabilities

- Integrated pre and post processing
- Predict RCS in azimuth/elevation sweep
- Surface current and Electromagnetic Field detection
- Scattering center visualization
- Hotspots detection

### Special Applications

- Models sea scattering
- ISAR Imaging
- RCS reconstruction from Hotspots
- Models multi-layer radar absorbing materials
- Shape optimization to enhance stealth

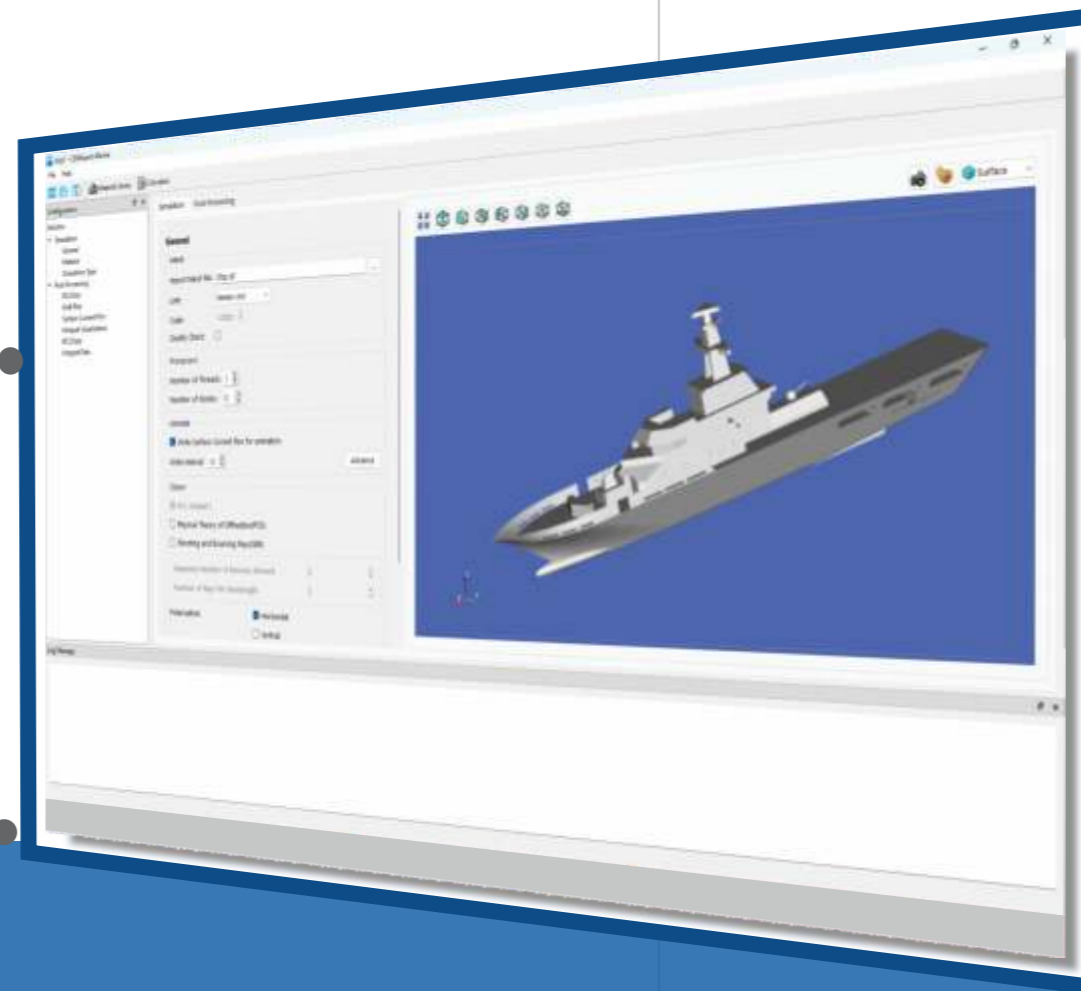
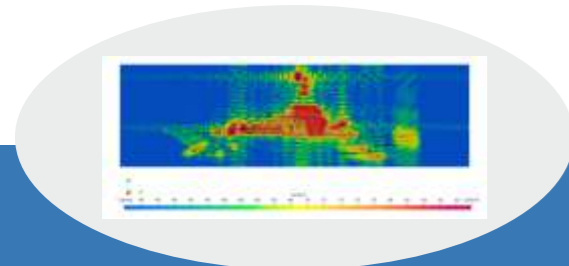
### Technical Information

- High frequency asymptotic method (PO-PTD-SBR)
- Provision for MLFMM, FVTD and FDTD methods
- Mesh quality check and enhancement
- Customizable for special applications
- Parallel computing for large problems

### Hotspot Scattering Points



### ISAR Image



# About Us

Zeus Numerix is a specialized company focusing on Precision Guidance Kits, Advanced Fluid Machinery & Physics based Scenario Simulators. With expertise in 35+ proprietary software for Defence applications, we offer CEMExpert for accurate radar cross-section (RCS) predictions. Utilizing advanced High-Frequency Asymptotic Method (PO-PTD-SBR), the software enables precise aerial and naval target RCS assessments. Additionally, it includes ISAR Image generation, Dielectric coating modeling, Hotspot detection capability, and utilizes parallel processing for faster simulations. Zeus is DSIR certified for R&D and has held CEMILAC design approval.

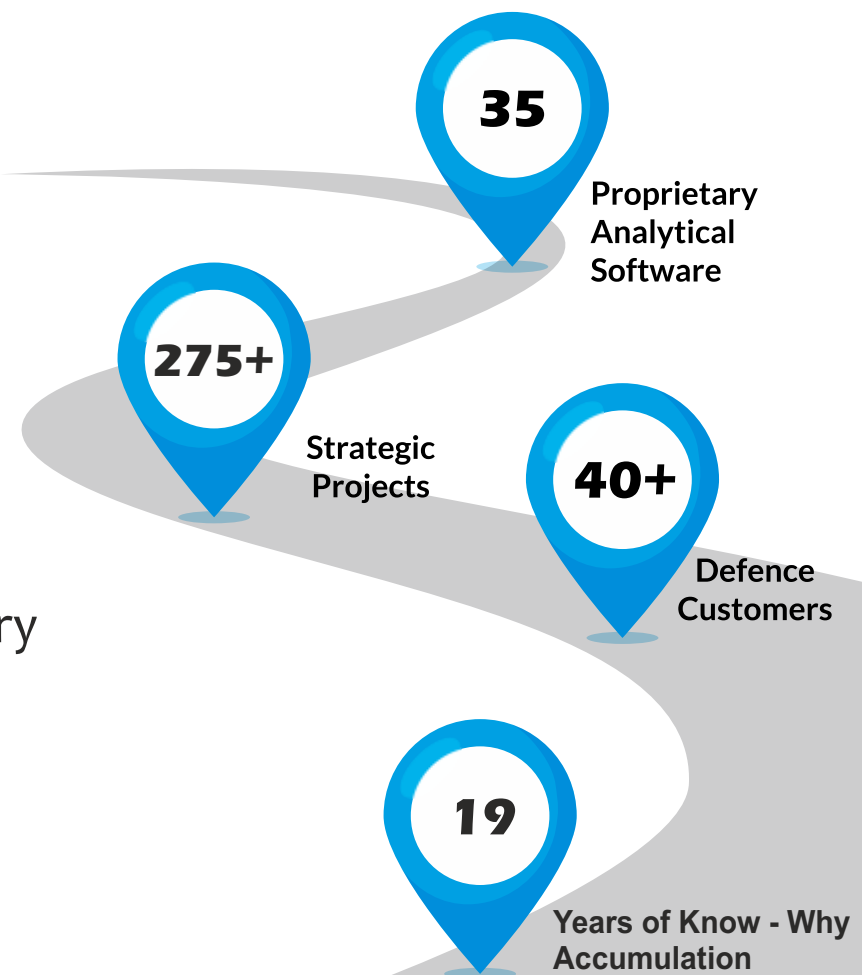
## Our Journey

### Focus Area

Precision Guidance Kits

Scenario Simulators

Advanced Fluid Machinery



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