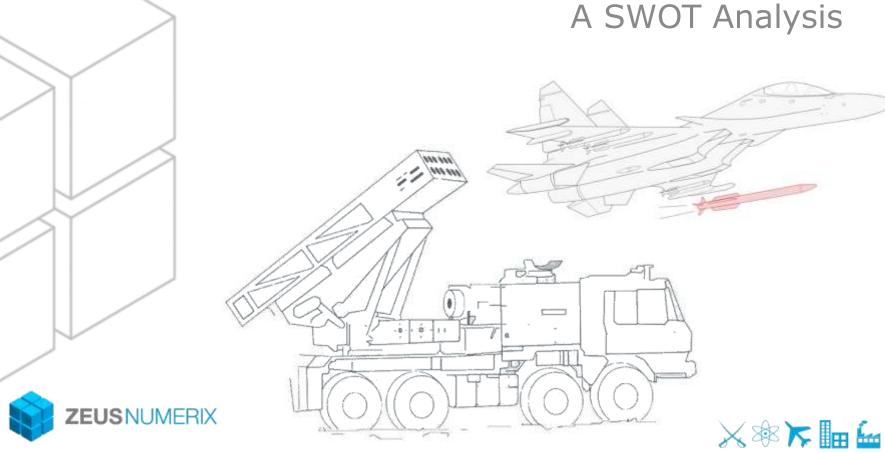
Private Design & Research Centers as Pivot for Defence Corridor



Defense | Nuclear Power | Aerospace | Infrastructure | Industry

About Zeus Numerix Pvt. Ltd.



- Commercial spin-off from IIT Bombay since 2004
- Engaged in virtual simulations and analysis of engineering systems
- Projects focused on engineering concepts that are expensive, critical & difficult to experiment
- Recognized by FICCI, NASSCOM as innovative technologies company
- CEMILAC approved company for design & design certification in Aerodynamics, Structures, Dynamics and Control, Electromagnetic (Stealth)
- DSIR, Govt. of India recognized R&D company



Customer Base



15-Nov-18

Manufacturer's Dilemma

"Build to Print" OR "Build to Spec"

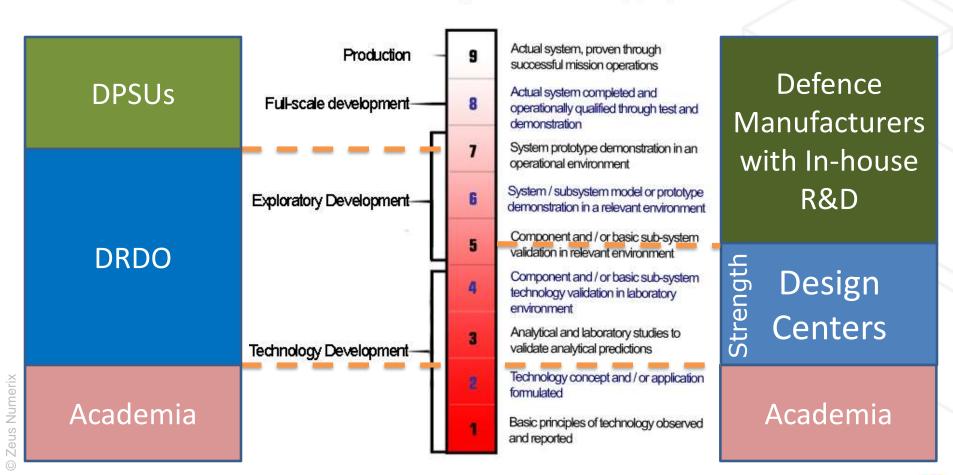
Opportunity for Design & Development Centers

15-Nov-18



Credible Technology Roadmap

R&D - Technology Readiness Mapping



15-Nov-18

Reason to Encourage R&D Centers

- Completes the Defence Ecosystem
- On Demand Design & Research Services
- Cost Effective than In-house Infrastructure
- Retains Hi-Tech Talent within State
- Starting Point towards Industry 4.0

15-Nov-18



Weakness as 'Pvt. Ltd.'

Starting-Up

Opportunity Size vs. Engagement Reality Urgency on R&D vs. Administrative Steps

- For upcoming entities in defence incubators innovation centers ?
 - Can MoD organizations extend CARS ?
 - Can academia share its consulting assignment ?



Threat to Growth

Breakthroughs in Indian R&D help 'marketers of foreign OEMs' convince their respective governments to lift export sanctions over supply of advanced defence equipment to India

Thus, our indigenous R&D efforts often do not become part of equipment in use with the forces

A policy intervention is requested here



Core Beliefs – Zeus Numerix

- Numerical simulations is an integral part of defence design and development where systems operate at extreme environments
- Off-the-shelf packages may be good starting point, but in-depth analysis requires ownership over IP that can be tuned, scaled-up or coupled without any restriction as per design requirement
- Like everything else in defence, Zeus Numerix will continue to develop indigenous capabilities and self reliance in our chosen area of activities

Zeus Numeri)



Engagements (Aerospace)

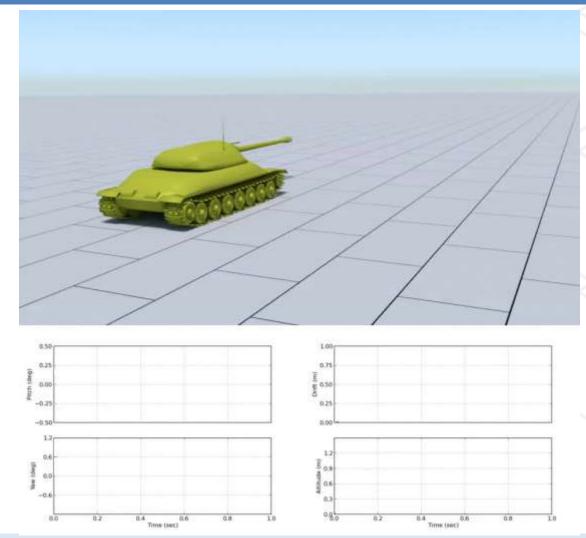
Overcome fear of unknown





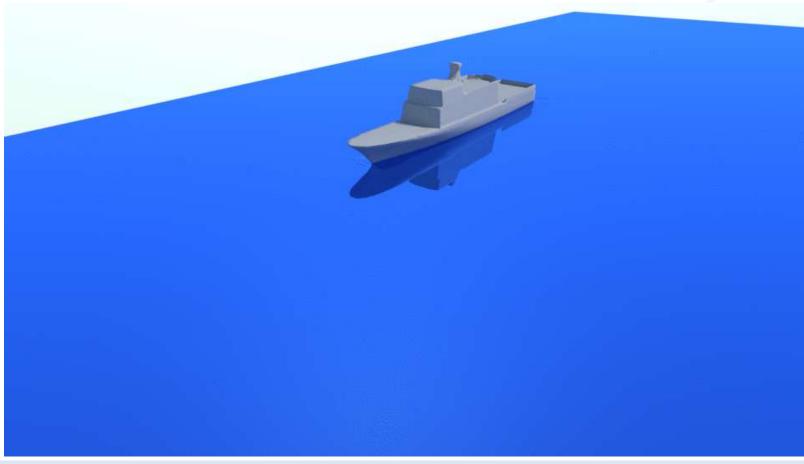
Engagements (Land Systems)

Hit first time, every time



Engagements (Naval)

Design for survival





Thank You!



