



## **WE ARE BLUEBINARIES**

Experts specialized in providing E/E engineering services & solutions to Global Mobility Industry solving their future challenges today and enabling them to achieve exceptional results







Three decades Of Global Automotive experience in E/E Engineering and Technologies



#### The Team

300+ team with expertise in Varied Vehicle & System programs





#### India & Beyond

2 Locations (Chennai & Bangalore) in India Presence in Europe (Germany & UK) & USA



#### Collaboration

Multiyear engagements with 20+ Customers Globally



#### Mark of Excellence



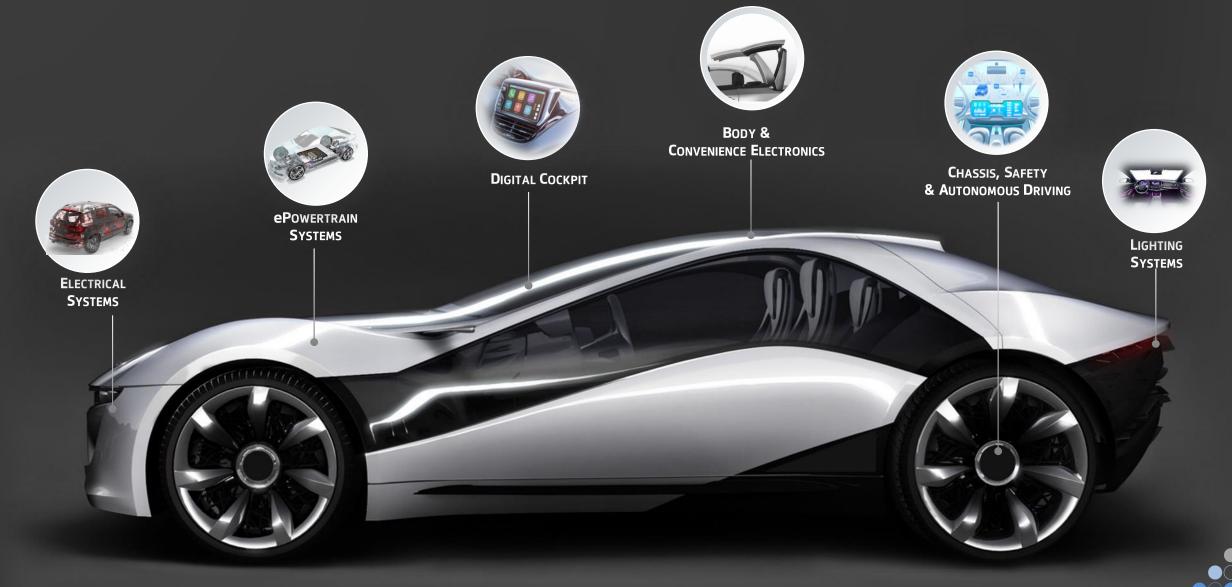
Fastest Growing Indian Company Excellence Award





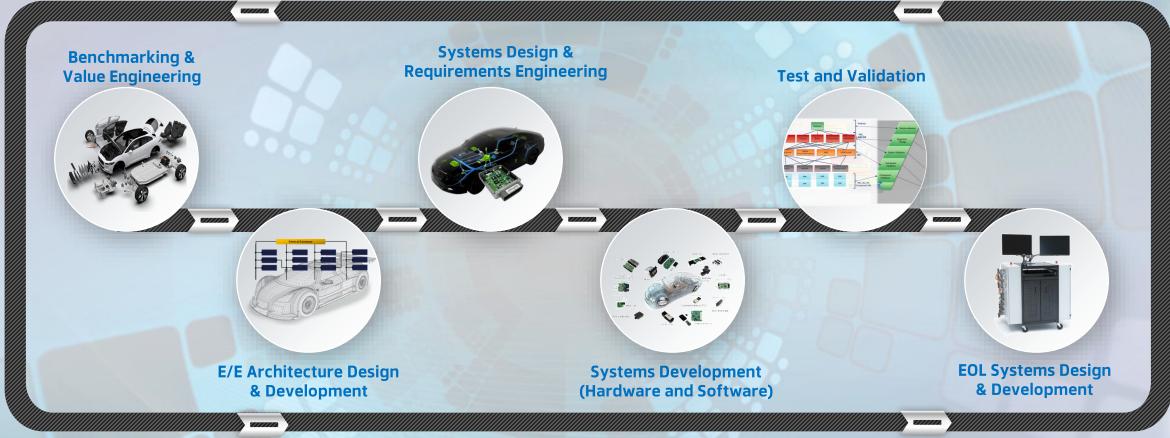
# BLUEBINARIES

# **CAPABILITIES OVERVIEW**





### **SERVICE OFFERINGS**





**Process & Methods Consulting** 



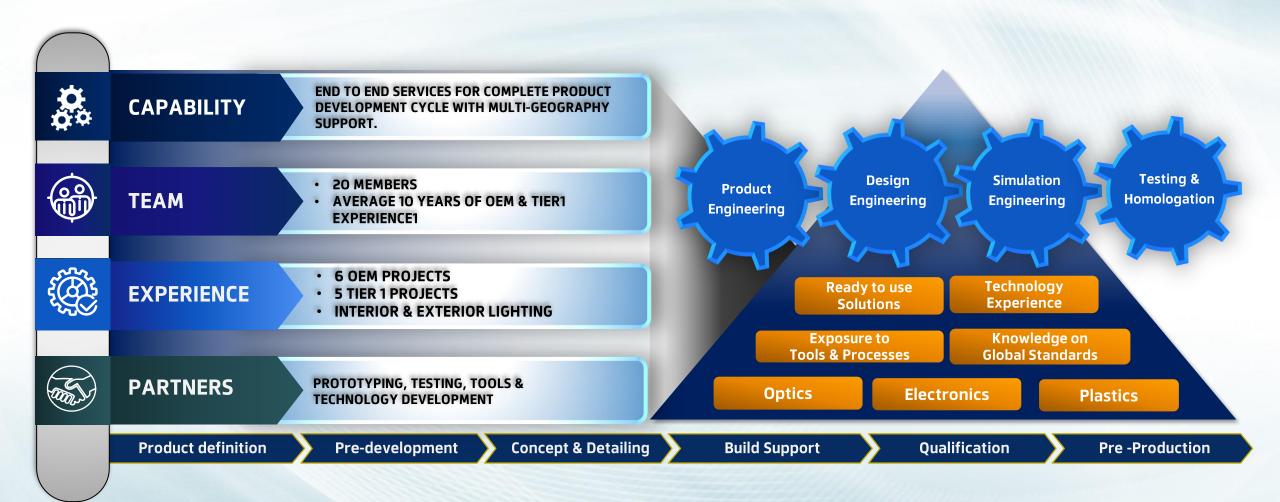
Functional Safety & Cyber Security
Management







## LIGHTING SYSTEM CAPABILITY OVERVIEW







### PRODUCT ENGINEERING CAPABILITY















**H**EADLIGHTS

**REAR LIGHTING** 

**DRL & FOG LAMPS** 

**CHMSL** 

**AMBIENT LIGHTING** 



#### **TECHNOLOGY EXPOSURE**

- **Full LED System**
- **Xenon Projectors Design**
- **Adaptive Front Lighting Systems**
- **Matrix Beam Headlamps**
- **Sequential Turn Circuits**
- **RGB Projectors & Modules**
- **DRL TI PO Tri function Modules**
- **Overhead Console Board**
- **RGB Control Module EOL Test bench**



#### **CAPABILITY**

- **World wide Regulation library**
- **Test Specification Library**
- Requirement Matrix for Headlamp, **Rear lamp & Ambient Lighting**
- **Ready made Optical and Electronics** Solution
- **Expert resource in Product, Process, Design, Software and Hardware**



#### **SERVICE OFFERING**

- **Technology Development**
- **Product Definition**
- **Pre-Development**
- **Product and Project Costing**
- **Studio Engineering**
- **RFQ Response support for Tier 1**
- **Prototyping**
- **Testing & Homologation**
- **Turnkey Projects for OEM & Tier 1**

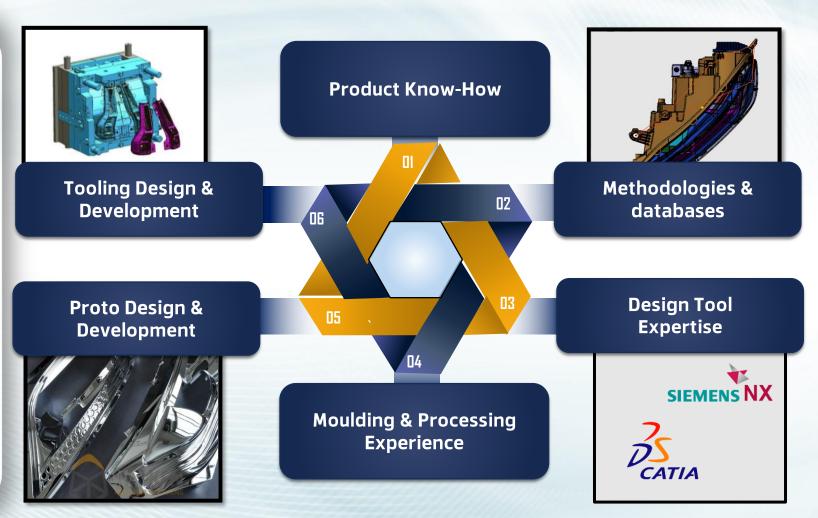




### **DESIGN ENGINEERING CAPABILITY**

#### **SERVICE OFFERING**

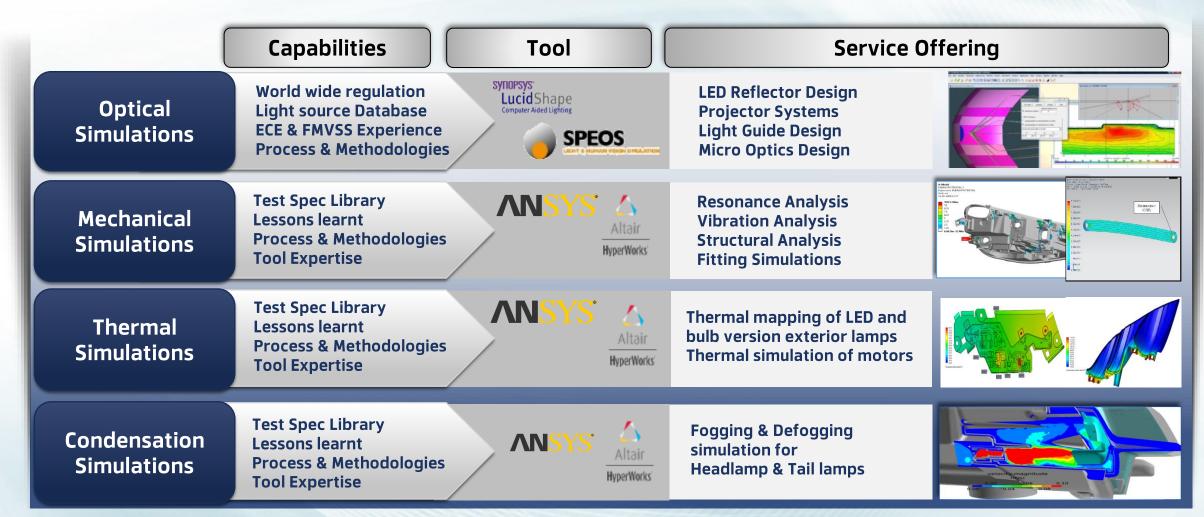
- Work as an extended team of system supplier design team
- Work as part of OEM/Engineering service provider vehicle development team
- Work as Offshore design team for proto & series development
- Work as studio engineering team for lighting design studio







# **SIMULATION ENGINEERING CAPABILITY**







# LIGHTING ELECTRONICS DEVELOPMENT CAPABILITIES



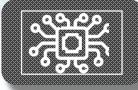
### **End to End Experience**



**System Design** 



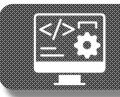
Requirements **Engineering** 



Hardware Design



**Function Engineering** 



Software **Development** 



Proto **Development** 



**Proto testing** 



**SW** Integration



Software and **System Testing** 





# **VALIDATION & HOMOLOGATION CAPABILITIES**

**Dedicated Validation Team** 

**Regulation & Test Spec Library** 

**End to End Test Infrastructure** 

Development testing & Homologation







# **SYSTEM DEVELOPMENT AND TESTING TOOLS**



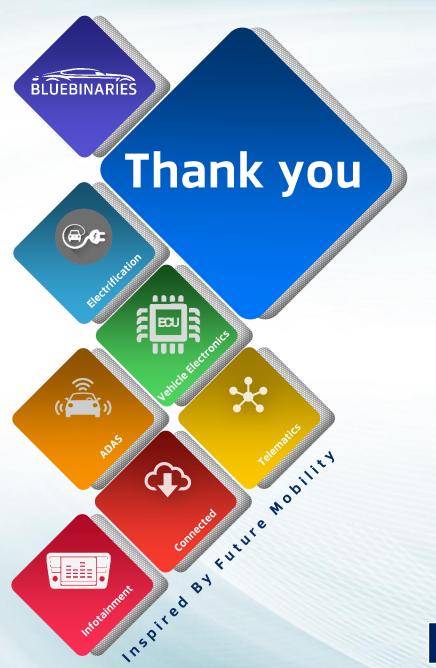




### **DIFFERENTIATORS & VALUE PROPOSITION**







# BlueBinaries

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