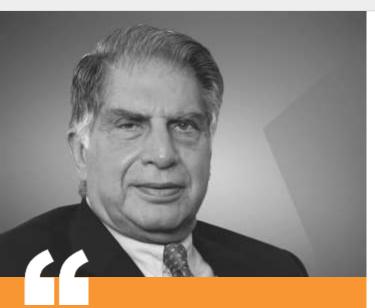


#### **TATA** TECHNOLOGIES





Tata Technologies is a young company in a very exciting line of business. A line of business that not only has its place in India, but all over the world. We decided that this company would not be all things to all people but would focus itself in the niche area of providing solutions to manufacturing companies. I would like to see Tata Technologies being acclaimed as one of the more innovative and successful design companies in the world. Your participation will be seen in the world over as a leader in the field we start

- Ratan Tata

## **TATA GROUP**

# ONE OF INDIA'S OLDEST, LARGEST AND MOST RESPECTED BUSINESS ORGANIZATIONS



# Founded in 1868

More than 145 years of commitment to business ethics and corporate social responsibility



# Revenue \$103Bn+

68 percent of which is generated in geographies outside India



# **Employment 695,000+**

Spanning more than 100 operating companies, in 100 countries, on six continents

## **BUSINESS SECTORS**



IT and Communications



Steel and Materials



Energy



Engineering Services



Services and Hospitality



Consumer Products



Chemicals



## **OPERATIONAL SNAPSHOT**

420+ MILLION

CONSOLIDATED REVENUE

8.500+

**PROFESSIONALS** 

## **3 ACTIVE REGIONS**

AROUND THE WORLD

## **12 LEGAL ENTITIES**

INTERNATIONAL OPERATIONS

#### INDUSTRY STANDARDS

ISO 9001:2008 Certified (Quality Management) | AS 9100C Certified (Aviation, Space and Defense) | ISO 27001:2013 Certified (Information Security Management)

#### **WORKS WITH**









Aerospace **OEMs** 

**Automotive OEMs** 

Tier 1

Industrial Machinery **Automotive OEMs** Suppliers

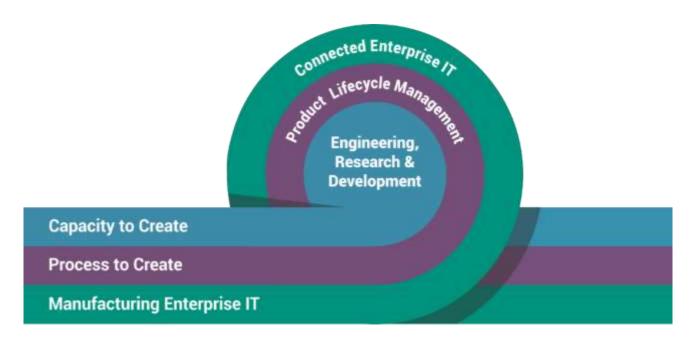
#### **INTERNAL QUALITY OPERATIONS**

- Annually assessed under the Tata Business Excellence Model (TBEM), an assessment equivalent to the Malcolm Baldrige National Quality Award (MBNQA)
- Internally developed Global Engagement Module (GEM) for outsourcing engagement and delivery
- All employees are trained in and governed by the Tata Group Values, Code of Conduct, and "Leadership with Trust" mission



# **LINES OF BUSINESS**

End-to-end solutions for the product realization lifecycle



### **ADDITIONAL SERVICES**



Technical Workforce Solutions



Instructor Led **Training** 



Self-paced Online Training (i GET IT)



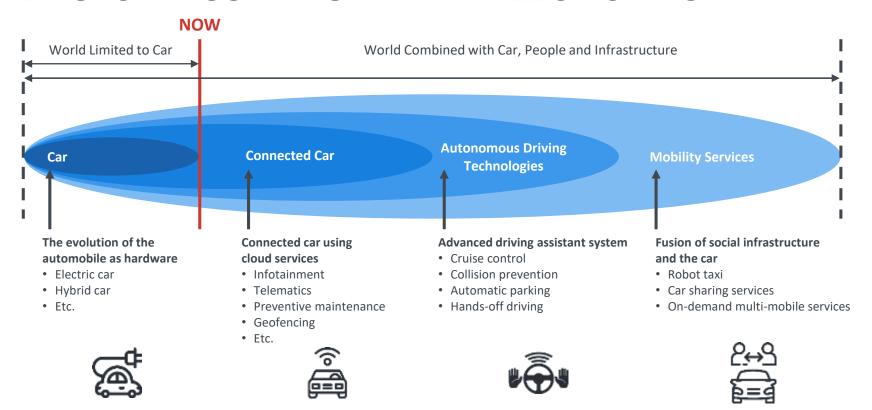
Portfolio



**Digital Engineering Applications** 



## THE AUTO INDUSTRY IS AT AN INFLECTION POINT





# **COMPETENCY ADVANTAGE | ELECTRIC VEHICLES**

### **Competencies**

- Integration
  - Body Electronics
  - Mechatronics
  - Control Systems
- Components
  - Embedded Software
  - Electronics Hardware
- Lightweighting
  - 5R Rightweighting Methodology



### **Tata Technologies' Advantage**

- Matured GDEM to design and develop new product in EV segment
- Full VPD experience with prominent clients in China, Japan, US, and India
- Market-leading expertise in connected, hybrid and electric vehicles

### **Customer & Projects**



European OEM China OEM China OEM China OEM China OEM

### **Next Steps**

#### Connected Vehicles

- Vehicle to Vehicle (V2V)
- Vehicle to Infra (V2I)
- Vehicle to User (V2U)
- Energy
  - Delivery
  - Storage
  - Distribution

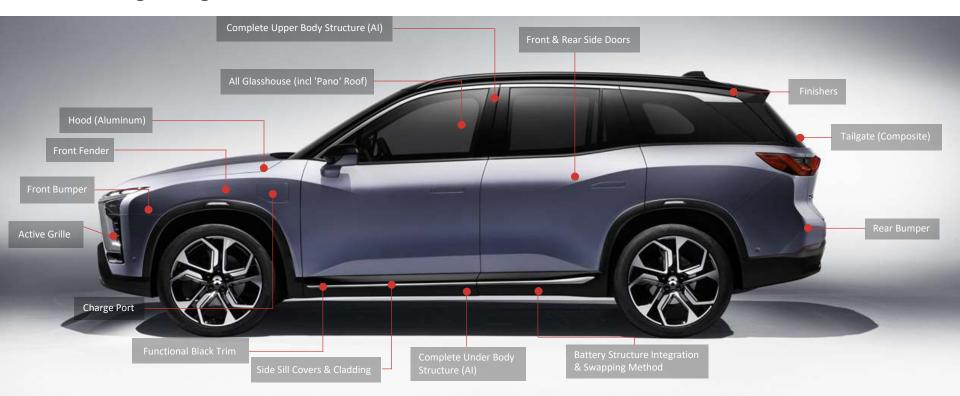


### **TATA TECHNOLOGIES**



# NIO ES8

Full Vehicle Engineering Partner





## **EV MARKET TRENDS**





## **NASEO PERSPECTIVES**

- Zero emission vehicle (ZEV) incentives accelerating investments in China and Scandinavia
- Center of gravity of electric vehicle development moving from West Coast to China
- Public procurement programs in India setting policy direction, but regulatory framework still embryonic
- Revision of emission standards in the US will likely reduce uptake in electric vehicles





For more information about Tata Technologies and what we can do to help create better products for your customers, visit:

www.tatatechnologies.com

