

The Tata group

DRIVEN
BY **VALUES**



A **GLOBAL**
ENTERPRISE



IN PARTNERSHIP WITH
SOCIETY



In a free enterprise, the community is not just another stakeholder in business, but is in fact the very purpose of its existence.

— Jamsetji Tata, founder of the Tata group

Group Overview

a **global** business group, **147** years old
with products and services in over **150** countries

over **600,000** employees from
120 nationalities and operations
in over **100** countries

group revenue of **\$110 bn**

with **68%** generated in geographies other than
India

global leader in several sectors

Group Today

Revenue FY15: \$ 110 bn 100+ operating companies

Largest Companies

TataMotors

TataSteel

Tata Consultancy Services

TataPower

Tata Communications

Tata Chemicals

Tata International

Titan Company

Tata Global Beverages

Tata Teleservices



Tata AIA Life Insurance

Voltas

Taj Hotels Resorts and Palaces

Tata Capital

Tata Sky

Tata Projects

Infiniti Retail

Tata AutoComp Systems

Tata AIG General Insurance

Trent

Tata Housing

- ☐ Market Capitalisation (India) of 29 listed companies as on 31st March 2016 USD 117 bn
- ☐ Most valuable business group in India
- ☐ 8.0% of Bombay Stock Exchange's total market capitalisation (US\$ 1,454 bn)
- ☐ 3.9mn shareholders

TATA Group - Brands and Global reach



Industry - University Partnership-Tata Trusts

- ☐ 66% shareholding in Tata Sons, the promoter holding company
- ☐ Endowments for ~~creation~~ of national institutions :
 - ☐ Indian Institute of Science
 - ☐ Tata Institute of Social Sciences
 - ☐ Tata Institute of Fundamental Research
 - ☐ National Centre for the Performing Arts
- ☐ Educational scholarships for higher studies outside India :
 - ☐ JN Tata Endowment scheme (established in 1892)
 - eg Clement Attlee (ex British PM)
- ☐ Educational scholarships for studies in India - eg Dr Abdul Kalam (ex Indian President)
- ☐ Support to institutions, including :
 - Indian Institute of Science (Bengaluru), Harvard Business School (USA), Cornell University (USA), Warwick University (UK), Berkley (USA), Singapore Management University



“ ...What came from the people has gone back to the people many times over. ”

-J.R.D. Tata
Chairman, Tata Sons
1938-1991

Industry - University - Changing nature of Partnership

- ☐ From endowments to joint funding or development assistance
- ☐ From general engagement to engagement based on specific projects or issues
- ☐ From single or dual institution engagement to multi institutional engagement

- ☐ Changing needs & hence change in rationale:
 - ☐ Specific Institutions have specific capabilities
 - ☐ Industry to feel the need to innovate
 - ☐ Industry to locate the right institution any where in the world
 - ☐ Motivate a person or group to resolve the issue

- ☐ Some recent examples by Tata:
 - ☐ National Automotive Innovation Centre (NAIC) along with University of Warwick, UK - Tata Motors
 - ☐ University Research Fellowship (URF) with Royal Society, UK - Tata Motors & TCS
 - ☐ Genomics Project along with University of California, Berkeley - TCS
 - ☐ Smart City Project with Singapore Management University - TCS
 - ☐ Blast Furnace slag chemistry project with University of Stockholm - Tata Steel
 - ☐ Advanced Steel Research Hub in University of Warwick - Tata Steel

National Automotive Innovation Centre (NAIC) – UK – (2/2)

- ❑ The National Automotive Innovation Centre (NAIC) will be a unique, state of the art centre of excellence and innovation for the UK's automotive sector, and the largest of its kind in Europe.
- ❑ NAIC is a £150m joint venture between University of Warwick, Jaguar Land Rover and Tata Motors, will provide high quality research facilities for engineers, scientists and designers
- ❑ NAIC will open in late 2017 and will be based at the University of Warwick campus, outside Coventry. NAIC will provide more than 33,000 sq m of research space
- ❑ More than 1,000 academics, industrial engineers will be hosted at the Centre, which will feature advanced R&D facilities, an engineering hall, a VR lab, advanced driving simulator, design workshops, teaching facilities,
- ❑ NAIC will be a major centre of training and development for a new generation of high-calibre scientists and engineers, helping to address the shortage of skilled professionals across the UK automotive supply chain
- ❑ Key areas of automotive research: Electric Vehicles (incl. energy storage and e-drives); Carbon Reduction (incl. hybrids, light-weighting and composites); Smart and Connected (incl. driver assist and cyber-security for connected vehicles).
- ❑ NAIC will house one of the world's most adaptable advanced driving simulators. Co-funded by the Engineering and Physical Sciences Research Council (EPSRC) and Jaguar Land Rover, the simulator allows researchers to test cars in a sophisticated simulation of the road environments

Objective of each partner

Warwick –

- ❑ NAIC will be the largest and most significant centre for automotive R&D and excellence in the UK, and the ‘jewel in the crown’ of all WMG’s campus facilities.
- ❑ The Centre adds to the internationally recognised automotive research undertaken by the Group and will attract/ inspire challenging and satisfying engineering careers

Jaguar Land Rover

- ❑ As an innovation leader, and the National Automotive Innovation Centre will be a new engine driving forward Jaguar Land Rover’s innovation infrastructure
- ❑ NAIC will be a location for state of the art automotive research, to help Jaguar Land Rover develop next-generation R&D capability

Tata Motors

- ❑ It will be a major draw for recruiting and developing talent in UK automotive engineering in general, and for Tata Motors in particular

Tata Group

- ❑ Tata has had a presence in the UK for more than a hundred years, and is part of the fabric of the UK economy. This £150m investment into UK innovation and skills demonstrates our continued commitment to the UK, to the British automotive industry, and to young people seeking fulfilling careers in engineering and research

Tata Consultancy Services (TCS)

45+ Years in Business

16.5 Billion US\$ in FY16 revenues *

276,196 Employees *

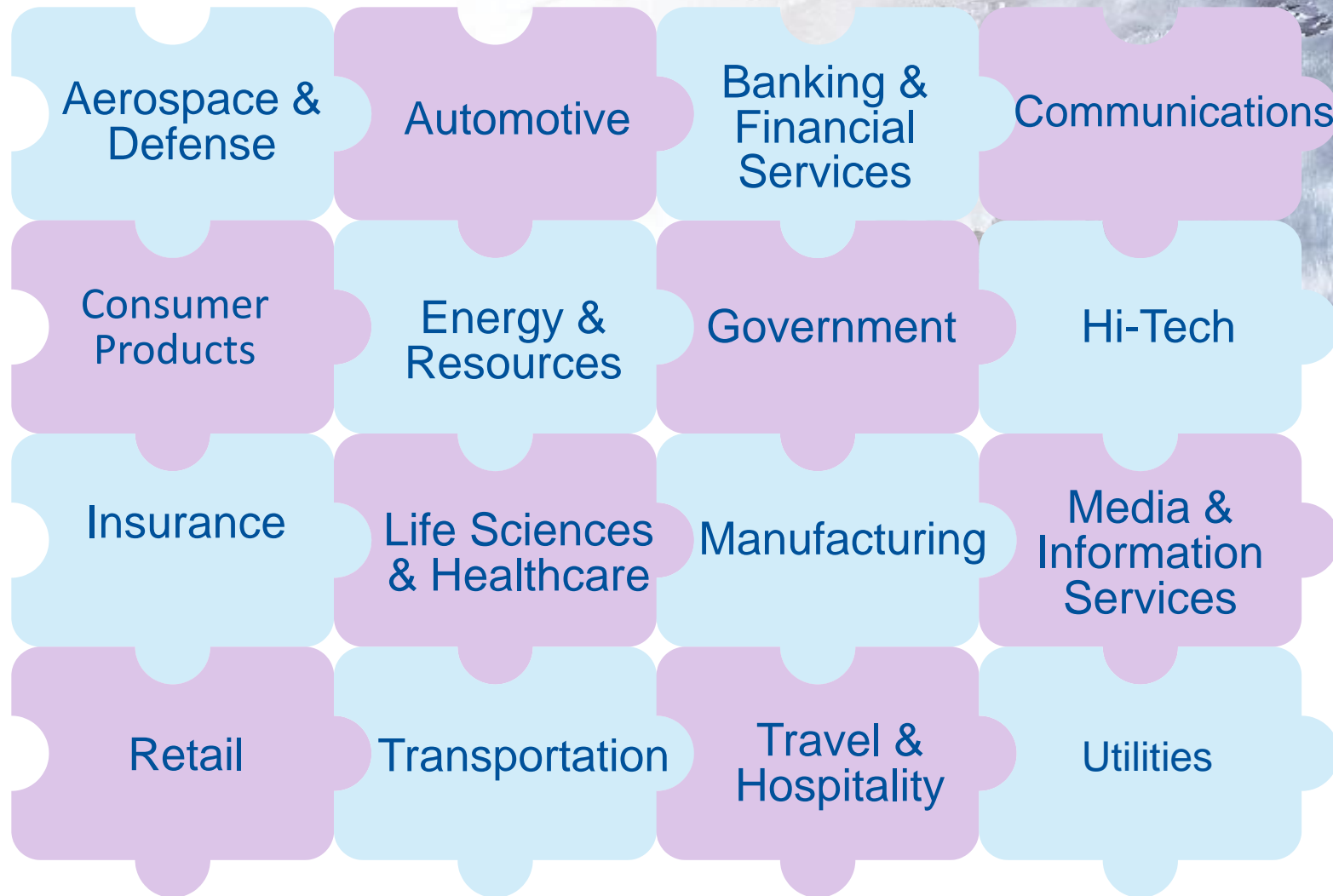
118 Employee Nationalities *

1075 Clients *

44 Countries where TCS has presence

98 % of annual revenues from repeat customers *

TCS - Industry Depth



TCS' Research Collaboration with S M U for Intelligent Cities

Objective & Rationale

- ❑ Govt of India announced the conversion of 100 cities into 'smart cities'
- ❑ Digitally-aware citizens are demanding more inclusion in civic affairs, with greater personalization of services
- ❑ TCS' Intelligent Cities Project is a collaborative effort with Singapore Management University (SMU), which aims to develop intelligent cities, with Singapore as the project pilot
- ❑ SMU's state-of-the-art campus, within the smart nation of Singapore, has been an ideal pilot for developing the solution
- ❑ TCS, on the other hand, has been successfully executing large transformation projects for governments for several years

Methodology

- ❑ The TCS–SMU collaboration has led to the establishment of the TCS–SMU iCity Lab in SMU's campus
- ❑ The lab is involved in research in several aspects of 'intelligent cities' and will be using Singapore as a test area to pilot the concepts.
- ❑ The TCS–SMU lab infuses a citizen-centric approach to the project, by taking into consideration their needs and response protocols
- ❑ The lab has also been engaging other agencies in Singapore for various projects

TCS' Research Collaboration with S M U for Intelligent Cities

Some of the pilot projects of the TCS–SMU Lab, include:

- ☐ A dialysis monitoring unit that can be set up at home, to measure parameters of dialysis patients
- ☐ A structured information system for advance care planning and management of patient-physician interactions
- ☐ A sensor-enabled process of care delivery for the elderly, combining Internet of Things (IoT) components and social behavioral studies –SHINESeniors

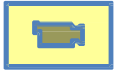
Providing a Helping Hand to the Elderly

- ☐ The lab has received a grant from the Govt of Singapore to create health monitoring technology for the elderly
- ☐ Sensors installed at the homes of senior citizens collect and transmit vital health information and can trigger timely alerts in case of an emergency
- ☐ Activities for daily living are closely mapped, so that any deviations from the normal pattern, such as extended periods of non-movement, missing a dose of medication
- ☐ All these activities are carried out in an unobtrusive manner so as to ensure privacy
- ☐ The project aims to deliver 100 sensor-enabled homes by 2017

Our View of Industry – University Partnership is....

“ If you want to build a ship, don't drum up people to collect wood and don't assign them tasks and work, but rather teach them to long for the endless immensity of the sea”

Antoine de Saint-Exupery (writer, journalist, philosopher & pilot)



Vision2025

□ 25% of the world's population will experience the Tata commitment to improving the quality of life of customers and communities. As a result, Tata will be amongst the 25 most admired corporate and employer brands globally, with a market capitalisation comparable to the 25 most valuable companies in the world.





Leadership with Trust

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