

Tata Steel – Investor Day 2018

Roadmap 2025

T. V. Narendran – Chief Executive Officer and Managing Director

Statements in this presentation describing the Company's performance may be "forward looking statements" within the meaning of applicable securities laws and regulations. Actual results may differ materially from those directly or indirectly expressed, inferred or implied. Important factors that could make a difference to the Company's operations include, among others, economic conditions affecting demand/supply and price conditions in the domestic and overseas markets in which the Company operates, changes in or due to the environment, Government regulations, laws, statutes, judicial pronouncements and/or other incidental factors.



A. Roadmap 2025

B. Focusing capital for long term value

C. Tata Steel India: Marketing and Sales

D. Tata Steel Kalinganagar: A significant milestone

E. Bhushan Steel: The first 6 months

F. Our Digital Journey

Committed towards excellence in Safety, Health & Sustainability



SAFETY

- WSA has recognized Tata Steel's Process Safety Management practices as one of the best practices for the year 2018
- 100% company run buses at TSJ are equipped with RFID & online GPS tracking system

78% Reduction in LTIFR¹ in last 10 years



HEALTH

- 17 Industrial Hygiene hazards control projects implemented to minimize the exposure level
- Runathons across locations
- Bi-monthly theme based health awareness campaigns²
- Mental health e-learning campaigns at TSE

57% High risk cases³ transformed into moderate/low risk till date

SUSTAINABILITY

TATA STEEL

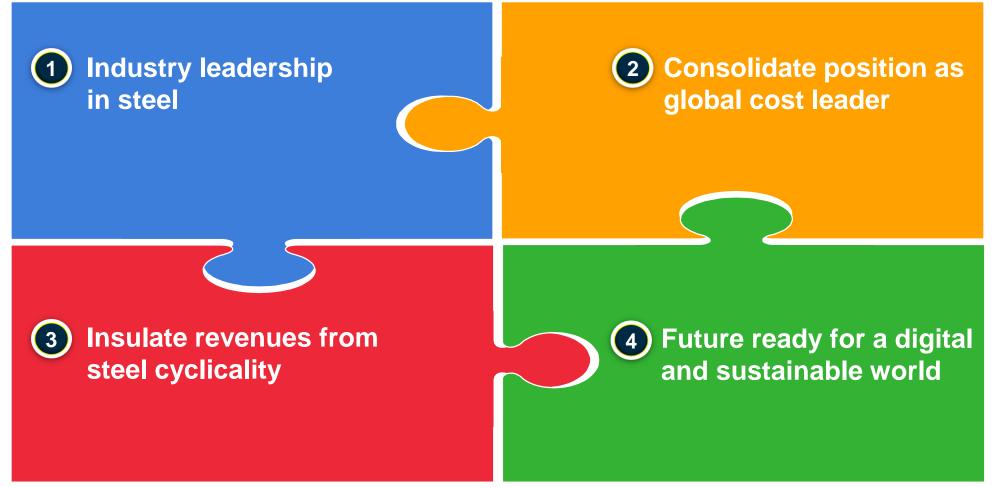
- Industry Leader in DJSI 2018 Assessment amongst 24 companies in Global Steel Industry
- TSJ: Specific Dust Emission reduced by 63% since FY13
- TSE: CO₂ emission intensity reduced by 5.8% since FY13

95%

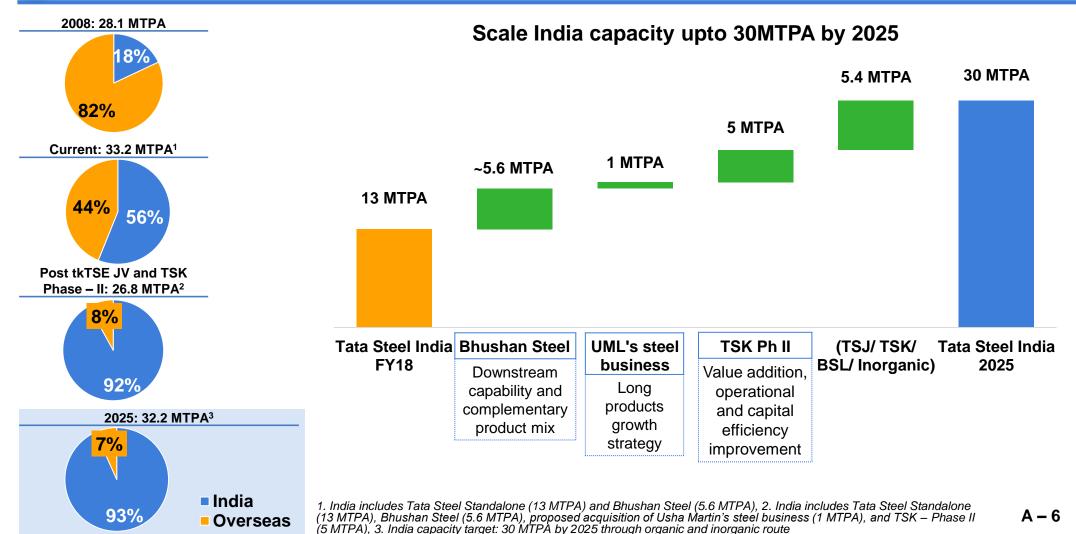
Solid Waste Utilization in 2QFY19

1. LTIFR: Lost Time Injury Frequency Rate; WSA: World Steel Association; TSJ: Tata Steel Jamshedpur; TSK: Tata Steel Kalinganagar; TSE: Tata Steel Europe; DJSI: Dow Jones Sustainability Index 2. On heat stress, hypertension & heart care covering around 7000 employees & contract employees; 3. High risk cases across Tata Steel India as per the health index measurement based on BMI, cholesterol, blood pressure and sugar

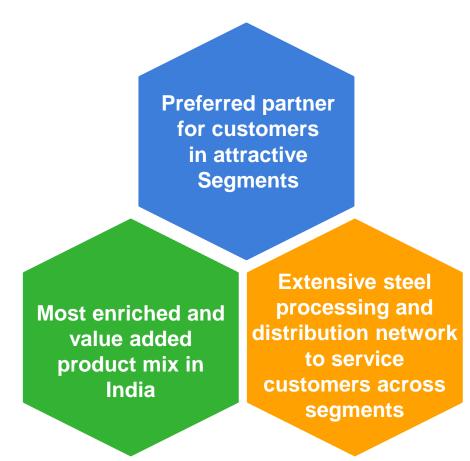
Our strategic objectives shape our business model



Tata Steel India is scaling up to de-risk and drive returns





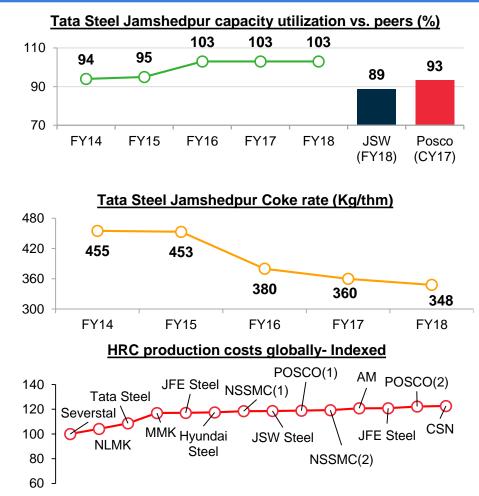


- ✓ Strong market presence and a leader in chosen market segments
- ✓ Differentiated products and service offerings
- ✓ ~69% of revenues through enriched and value added product mix in 1HFY19
- Consolidating India leadership position with organic and inorganic expansions

Tata Steel India includes Tata Steel standalone and Bhushan Steel

2 Tata Steel India is the most integrated steel company and a global cost leader with benchmark operational efficiency

- ✓ India's most integrated steel manufacturer, with current steel making capacity of 18.6 MTPA
- ✓ Captive mines provide raw material self sufficiency till 2030 (Iron ore: 100% and Coal: >25%)
- ✓ Global benchmark in capacity utilization
- Indian benchmark in operating KPIs; Culture of continuous improvement
- One of the lowest cost producer globally

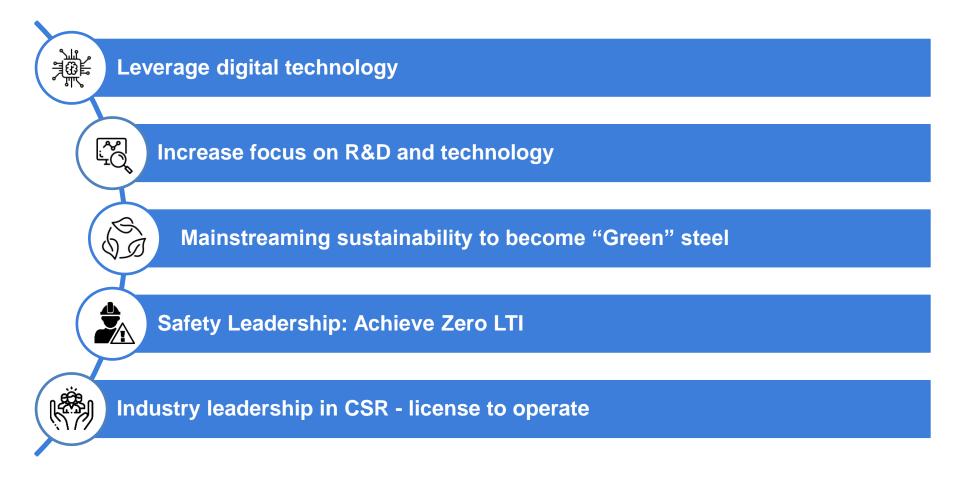


TATA STEEL

Source: Company data and Tata Steel; Severstal – Cherepovets; NLMK – Lipetsk; Tata Steel – Jamshedpur; MMK – Magntogorsk; JFE Steel – Fukuyama; Hyundai Steel – Dangjin; NSSMC(1)– Kashima, Nippon Steel & Sumitomo Metal Corporation; JSW Steel – Vijayanagar; POSCO(1) – Gwangyang; NSSMC(2) – Oita, Nippon Steel & Sumitomo Metal Corporation;; JFE Steel - Kurashiki Steel Works; POSCO(2) – Pohang; CSN - Volta Redonda

3 Tata Steel is pursuing several initiatives to insulate revenues from steel cyclicality

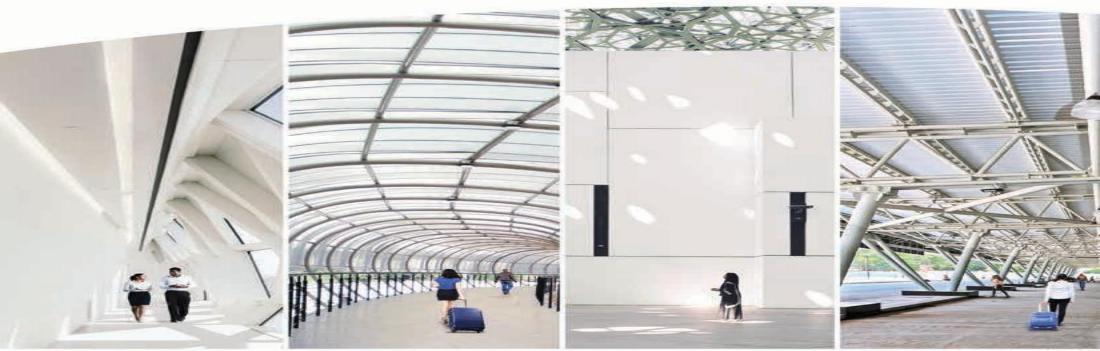
Initiatives	Targets
Expansion of downstream products capacity	At least > 30% of total volume from downstream products
Services and Solutions	~20% of revenue by 2025
Grow beyond Steel - New materials (Graphene, Carbon fibre reinforced polymer, Advanced ceramics etc.)	>10% of revenue by 2025



R&D: Research & Development; LTI: Loss Time Injury; CSR: Corporate Social Responsibility







Tata Steel – Investor Day 2018

Focusing capital for long term value Koushik Chatterjee – Executive Director and Chief Financial Officer



A. Roadmap 2025

B. Focusing capital for long term value

C. Tata Steel India: Marketing and Sales

D. Tata Steel Kalinganagar: A significant milestone

E. Bhushan Steel: The first 6 months

F. Our Digital Journey

Strategic imperatives for long term value creation

Reshaping Tata Steel	 Focus on Indian markets Create sustainable portfolio in Europe Generate higher operating cash flows for Balance Sheet redesign and shareholders returns
Portfolio priorities	 Leverage Kalinganagar footprint by 5MTPA expansion Acquisition of Value added capacity – Bhushan Steel and UML's Steel business Capital deployment in value added downstream assets and ventures Divestment, strategic restructuring and monetization of non synergistic ventures
Building resilience to manage downcycle	 Enhance internal cash generation Continue pursuit of operational excellence to drive efficiency & productivity Cost take out through structured programs Reduction in leverage Drive system synergies from acquisitions

Drivers for long term value





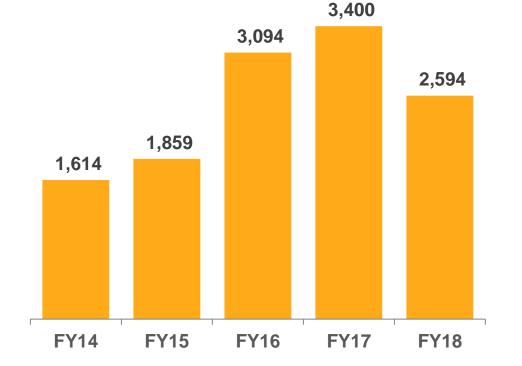
'Shikhar 25': delivering value through bottoms up margin management

- A structured productivity and operational excellence program have offset adverse cost impact
- Several initiatives across the organisation focuses on continuous improvements and cost savings
- FY18: implemented 11,963 number of suggestions; key levers include –
 - Improvement in fuel rate in Blast Furnaces and throughput
 - Increase in throughput at West Bokaro collieries

Chart figures in Rs. Crores

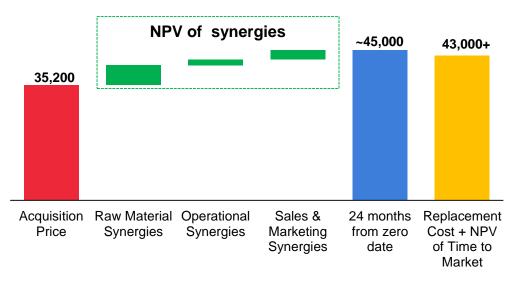
 Reduction in the spend base of Inbound/Outbound logistics, packaging cost and energy efficiency



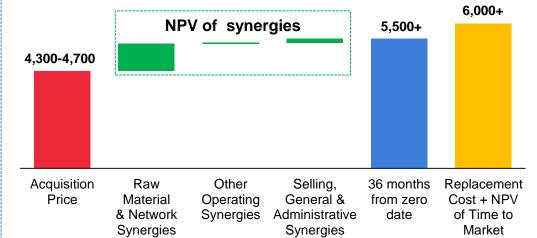


TATA STEEL

Synergy potential from recent acquisitions



Bhushan Steel (Rs. Crores)



Usha Martin's Steel Business (Rs. Crores)

- Raw Material synergies includes Tata Steel's captive ore and renegotiations of raw material contracts
- Operational synergies includes use of BEL's² surplus power
- Selling & Marketing synergies includes use of common brands and sale of slabs from BSL to TSL

- Raw Material synergies includes utilization of Usha Martin's Iron Ore mines and Tata Steel's captive ore
- Other Operating synergies includes saving in freight
- Selling, General & Admirative synergies includes saving in corporate overheads

Bhushan Steel is a value-accretive acquisition which delivers several benefits to Tata Steel



UML's steel business is the first step in building an attractive longs portfolio

TATA STEEL

Strategic	Rationale
------------------	------------------

P Retain long products market share in wire rods

Entry into special steel market

2

3

Enhance product basket for Automotive customers

Leverage customer base, better customer service with wide offering

5 Additional land in Barajamda can be used for setting up Beneficiation plant

Tata Sponge: a preferred vehicle	 Long products business model requires leaner and flexible cost structure Comparatively smaller furnace and mill configuration required to enable large number of customized products Allows for modular expansion
Future Plans	 Potential to expand into steel recycling & eventually to EAF band steelmaking Selective acquisitions, distributed and
	 green manufacturing closer to markets Organized processing of steel scrap as raw material for long products
	Downstream linkage to growth in wires

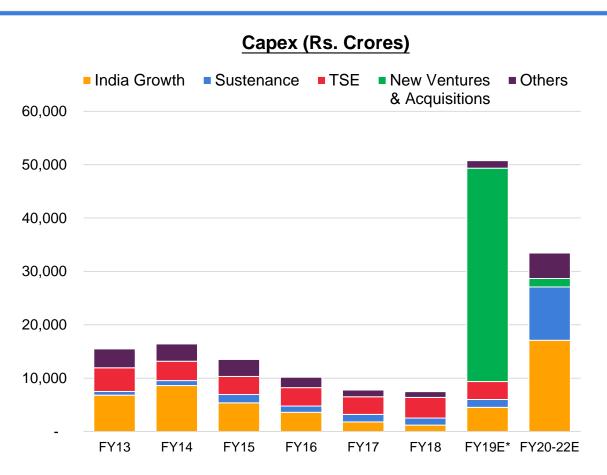
business

Capital allocation on focused capex

TATA STEEL

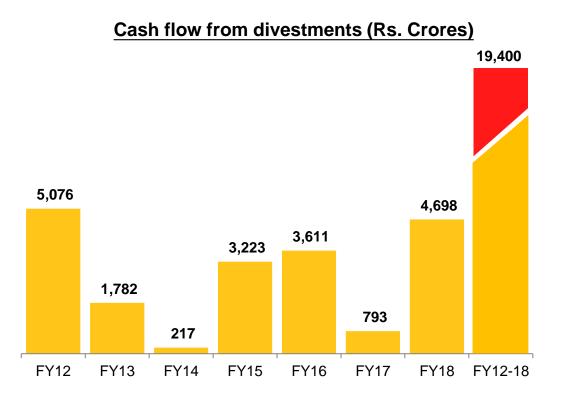
Multiple capital efficient and value accretive options to consider in phased manner:

- West Bokaro expansion
- Iron ore portfolio expansion
- Kalinganagar expansion
- Jamshedpur expansion
- Port & logistic infrastructure
- Bolt on acquisitions in or outside the Insolvency and Bankruptcy Code (IBC)
- Expansion at Bhushan Steel
- New Material Business



Capital raised from divestments will be used to deleverage

- Total capital raised through divestments in last 7 years was Rs. 19,400 crores
- Other announced portfolio restructuring being pursued:
 - \circ tk-TSE JV
 - \circ Sedibeng
 - o Cogent
 - o TRL Krosaki
 - o South East Asia cluster



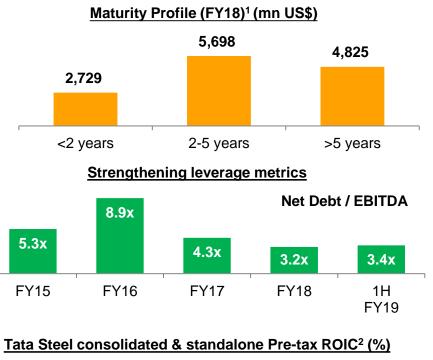
Balance Sheet redesigned to support ROIC improvement

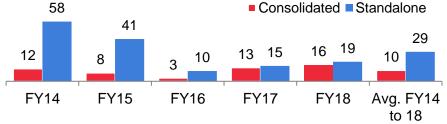
Leverage profile has flexible terms, diversified funding sources and well spread maturities

 Deleveraging through superior cash flows and portfolio restructuring

 With proposed portfolio restructuring & high growth investment, expect 300 bps increase in ROIC² in future

FX: USD 1 = INR 71.0 GBP1= 91; (1) Consolidated figures - includes future finance charges and capitalization of transaction costs; the maturity profile is as per company internal analysis and not as per IndAS; (2) ROIC (Return on Invested Capital): Adjusted Operating profit before tax/Average Invested Capital (Excluding Capital Work-in-Progress);





TATA STEEL

B – 11

In conclusion, Tata Steel is well poised to create sustainable value **TATA STEEL**

Strong foundation from 'Best in class' assets and capabilities:

- Jamshedpur, Kalinganagar and Angul are strong & 'best in class' asset profiles
- Globally competitive cost position
- Strong leadership team and talent strength
- Integral part of the Tata Group

Future opportunities for value creation:

- Best position to leverage India growth story
- Synergies from the European JV
- Expansion of Tata Steel Kalinganagar
- Pursue bolt on acquisition opportunities in downstream and long products
- Redesigned Balance Sheet

- Resilient business profile to manage downside risks
- Sustain value creation across the cycle







Tata Steel – Investor Day 2018

Tata Steel India: Marketing and Sales Peeyush Gupta, VP – Marketing & Sales (India & SEA)



A. Roadmap 2025

B. Focusing capital for long term value

C. Tata Steel India: Marketing and Sales

D. Tata Steel Kalinganagar: A significant milestone

E. Bhushan Steel: The first 6 months

F. Our Digital Journey

Demonstrated track record of superior growth as compared to the market

Tata Steel Standalone sales (mn tons) [FY08-FY18 CAGR: 9.8%]

-O-Market demand (mn tons) [FY08-FY18 CAGR: 5.7%]

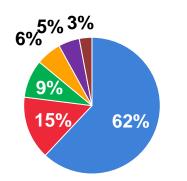
Collaborative Working 91 **Preferred Supplier** 86 82 77 73 74 71 66 12.2 59 52 52 10.9 9.5 8.7 8.5 7.5 6.6 6.4 6.2 5.2 4.8 **FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16 FY17 FY18** Continuous Jamshedpur expansion, Thin slab Caster and Continuous Tata Steel Kalinganagar Galvanizing Line #3 Phase I Annealing Line

Source: Joint Plant Committee, Tata Steel; Market demand is apparent Steel Use; Chart is subject to scale

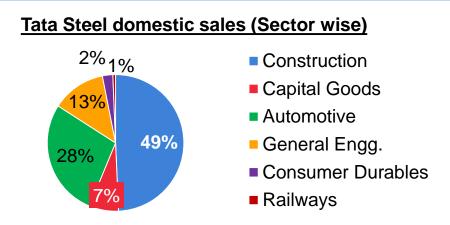


Tata Steel is present in ~85% of domestic carbon steel market and has a unique way of segmenting the market **TATA STEEL**

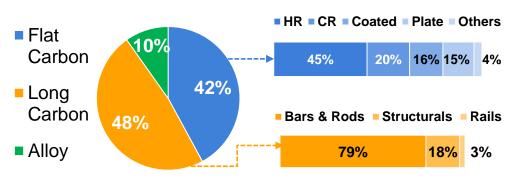
Sector-wise India steel demand



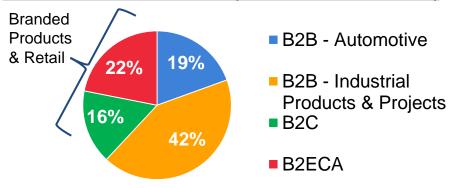
- Construction
- Capital Goods
- Automotive
- General Engg.
- Consumer Durables
- Railways



Product-wise India steel demand (mn tons)



Tata Steel domestic sales (Vertical wise, mn tons)



Source: World Steel Association, JPC and Tata Steel; Note: All data for FY18; HR: Hot Rolled; CR: Cold Rolled; Others in Flat Carbon: includes Tinplate and Electrical Steel; B2B: Business to Business; B2C: Business to Consumer; B2ECA: Business to Emerging Corporate Accounts

Automotive & Special products: Market leadership driven by focus on technology and strong customer relationship

Growth enabled by:

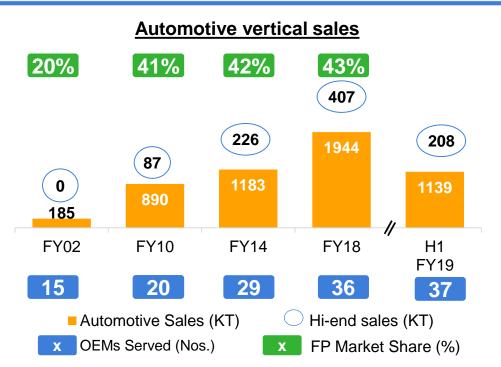
- ✓ Faster localization
- ✓ Extensive network of steel processing centers
- ✓ 4 Hot Strip Mills, 3 Cold Roll Mills & TSK Phase 2 in future

Softer leadership through:

- Customized relationship platforms like 'Customer Service Teams', 'Value Analysis Value Engineering' and Driving Steel
- Advanced technical support system like 'Product Application & Research Centre', 'Early Vendor Involvement' and Technology Day

Gearing up for transformation:

- Light-weighting: Shift to hi-strength
- Transition to BS VI: poly-coat in 2W fuel tank



- ✓ Chosen partners in new launches
- ✓ Commercialization of hi-tensile grades

KT: '000 Ton; Nos.: Numbers; TSK: Tata Steel Kalinganagar; OEMs: Original Equipment Manufacturers; BS VI: Bharat Stage VI; 2W: 2 C-5 Wheelers

Industrial Products, Project & Exports: Enriching product mix and shaping industry practices

Growth enabled by:

 Investments in Thin Slab Casting and Rolling Facility and Tata Steel Kalinganagar

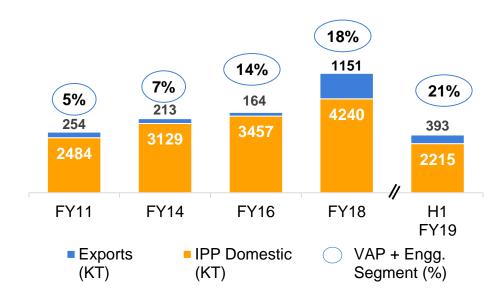
Maintaining leadership through:

- Focus on value added products and Engineering segments
- ✓ Partnership with select customers
- Supply chain visibility through COMP@SS

Gearing up for transformation:

- ✓ 'Ready to use' steel (eg. CAB, Sm@rtFAB)
- ✓ Pioneering services (e.g. wired2win, CST)
- ✓ Promoting steel intensive construction

Industrial Products, Projects & Exports Sales



- Leadership position in chosen segments (LPG, MCHC, Railways, Wire rods)
- Exports play in select markets (Neighboring countries, SEA, ME)

Branded Products & Retail: Using long term partnerships to deliver superior consumer experience

TATA STEEL

Delivering delight to underserved market:

- ✓ Building customer capability (Qualithon, Skills4India)
- Digitally enabled Finance solution "URJA"

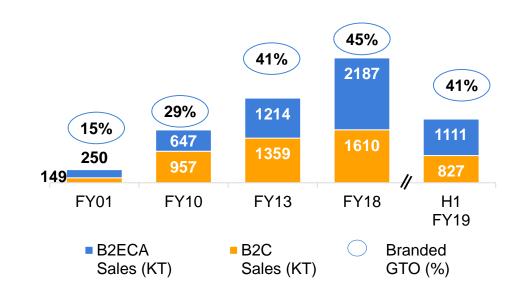
Enhancing premium play through:

- ✓ Deep dive in >40 micro segments
- Largest number of service centers & unmatched country-wide network

Unique solutions to product usage and real time customer support:

- ✓ Category conversion (Thatch to Steel)
- ✓ Customer Service Engineers
- Aashiyana: Early engagement & e-commerce platform with knowledge sharing

Branded Products & Retail Sales



- ✓ Meteoric increase in B2C play
- ✓ Deeper engagement with Emerging Corporate Accounts (Small & Medium Enterprises)

KT: '000 Ton; GTO: Gross Turnover

Services & Solutions: New initiative to capture a value multiplier and insulate from revenue cyclicality

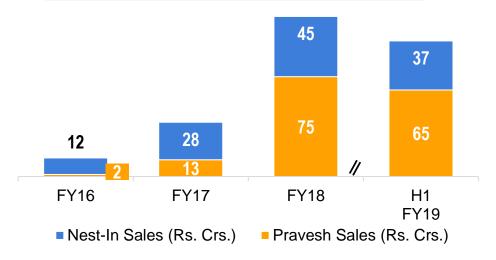
Growth enabled by:

- ✓ Leveraging Tata Steel ecosystem
- Collaborations with industry experts & manufacturing partners

Building new business through:

- Enhancing consumer convenience
- Newer avenues of steel consumption
- ✓ Solutions beyond steel through alternate material

Service and Solutions business sales

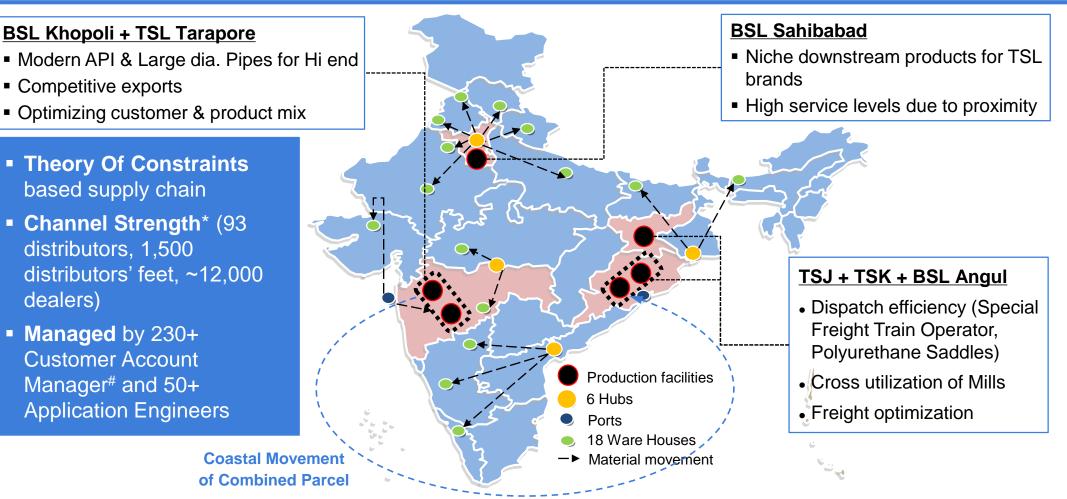




- ✓ Pioneering brands catering to latent needs
- ✓ Post manufacturing differentiation



Multiple production hubs, world-class stockyards and a strong pan India distribution network is a unique competitive advantage **TATA STEEL**



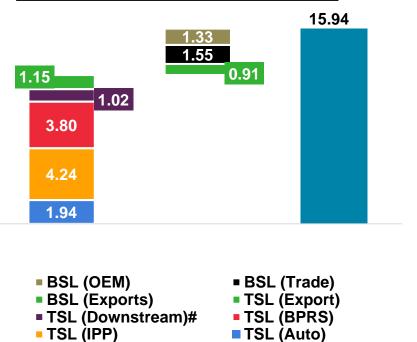
TSL: Tata Steel; TSJ: Tata Steel Jamshedpur; TSK: Tata Steel Kalinganagar; BSL: Bhushan Steel Ltd; API: American Petroleum Institute; *Excluding BSL; # Excluding Profit Centers

Bhushan Steel helps in consolidating our market leadership

Access to New markets/ segments	 Complementary products through Bhushan Steel: Wider (>1540mm) & Thinner (<0.5 mm) Cold Rolled, Galvanized, Colour Coated Hardened & Tempered products API Tubes and Large dia. pipes Higher reach through Tata Steel distribution channel
Greater Synergies at Market Place	 Largest supplier of Skin Panels Enhance presence in Colour Coated & Precision Tubes Leverage Emerging Corporate Accounts (SMEs) brands for greater play Joint promotion of products through customer & influencer
Integrated planning & logistics	 Stockyard network optimization Joint Coastal Movement Special Freight Train Operator & slab sales

Bhushan Steel helps in consolidating our market leadership

Reorganization of Bhushan Steel's Marketing & Sales in customer facing segments

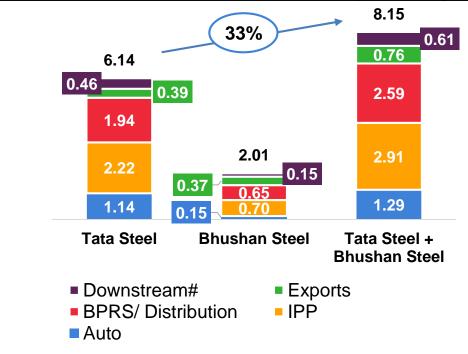


Tata Steel* and Bhushan Steel: FY18

Common Processes:

• Annual business planning • Channel management

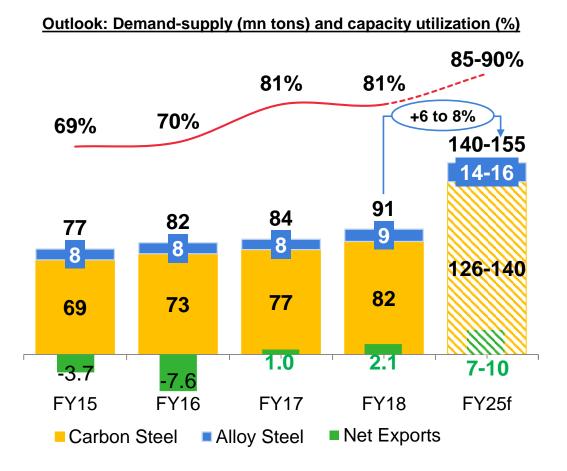
Monthly sales planning
 Credit policy



Tata Steel* and Bhushan Steel : H1 FY19 (Post Integration)

Source: Tata Steel; All figures in mn tons; * Tata Steel Standalone; # includes transfer to tubes & wires divisions

India steel demand to remain strong in medium term; utilization to improve with resolution of stressed assets **TATA STEEL**



Opportunities

- 1) Service & Solutions: Customers are ready to pay for convenience
- 2) Rural market: New & sustainable steel products
- 3) Growth in Long Products: Greener and Efficient construction

Challenges

- 1) Intensifying protectionism globally
- 2) Poor Infrastructure and logistics
- 3) Entry of new competition







Tata Steel – Investor Day 2018

Tata Steel Kalinganagar: a significant milestone Rajiv Kumar – Vice President, Tata Steel Kalinganagar Operations



A. Roadmap 2025

B. Focusing capital for long term value

C. Tata Steel India: Marketing and Sales

D. Tata Steel Kalinganagar: A significant milestone

E. Bhushan Steel: The first 6 months

F. Our Digital Journey

Tata Steel Kalinganagar Phase I



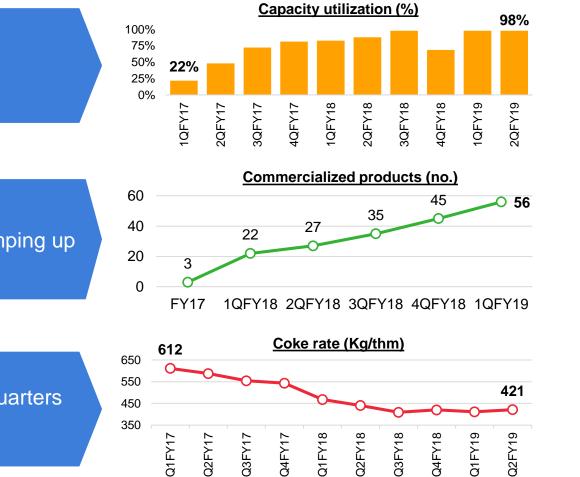
Tata Steel Kalinganagar Phase I expansion has been a significant milestone in our journey

3 MTPA Greenfield expansion	 De-risked operations away from Provides optionality of cost effect 	-	
Lighter and high- tensile strength steel	 Enabling expansion of customer universe to sectors such as Oil and Gas, Lifting and Excavation, Pre-engineered Buildings and Construction & Projects 	Key indicators Thickness Width Tensile strength Special coil weight	Capabilities Max 25mm Tolerance: +/- 36 to 48 micron max for 1.6 to 6.0 mm Range: 800 to 2050mm Tolerance: -0/+10 mm up to 1400 mm width and -0/+12 mm > 1400 mm width Width / Thickness ratio: ~30-50% Upto 1200 Mpa Upto 22 Kg/mm
Optimal design	 Higher productivity driven by auto Cost competitiveness with superi Higher efficiency and sustainabili Logistics advantage with proximit 	or operating KPI	

Focus is now on improving the revenue stream and cost competitiveness

TATA STEEL

D – 5



TSK phase – I has now fully ramped

Commercializing 188 number of grades while ramping up

 Cost competitiveness will improve over several quarters as focus shifts from ramp-up to operational KPIs



Sector	Key applications	Key commercialized grades
Auto	Wheel grade	SPFH590 (High HER), SPFH540, SPFH440, KWL RIM & DISC, DP600, YST38, WIR019, Gr A CF <i>(strength 250-700MPa)</i>
	Structural Long member & cross member	HS800, BSK46, E46, E34, E38, DP780,BIL55, Tisten55, Tisten60, 80Ksi <i>(strength 440 – 900)</i>
	Internal panel	IF ¹ CRCA, IF GA, IF ZS(GI)
Lifting & Excavation	Structural	S275J2, S355J2, S460MC, S550MC, S700MC, E410, HS620 (strength 440-800MPa, thickness 5-25mm)
PEB	Structural	ASTM Gr50 Type2 (thickness 5-25mm)
LPG	High strength	SG295, HS345, P245, P265
API	Oil & Gas	API X42, API X46, API X52, API X60
High Carbon	Chain link, Seat belt buckle, Cutting tool, High end tube, Suspension of 2 wheeler	C80, C75, C60, C55, C40, C45, SAE1541, C30,SAE1026
Tube grades	High end tube for auto (propeller shaft)	SAE1010/18/20, St52.3, K3 special,

Tata Steel Kalinganagar – Phase II expansion is underway; adding downstream capability TATA STEEL

- 5 MTPA brownfield expansion including 2.2 MTPA cold rolling complex, raw materials and related facilities
- Total Capex: Rs. 23,500 crores
- Timeline: 48 months from zero date





CRM complex capability	Width (in mm)	Thickness (in mm)	Capacity (in MTPA)
Pickling Line and Tandem Cold rolling Mill	1,870	0.3 - 2.3	2.2
Continuous Annealing Line	1,870	0.3 - 2.3	0.9
Continuous Galvanizing Line (non-auto)	1,560	0.3 - 2.3	0.45
Continuous Galvanizing Line (auto)	1,870	0.3 - 2.3	0.55

Tata Steel Kalinganagar Phase II expansion will create significant value

Capex back ended with less than 25% to be spent in first 2 years

Productivity to improve significantly

and optimize project cash flows

Energy cost to reduce significantly with better balancing and optimum utilization all facilities

Cold roll mill complex prioritized to improve product mix

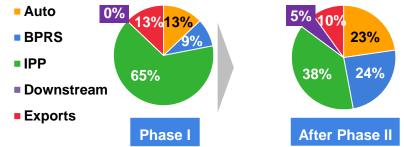
Phase II to improve product mix with more high end products¹

918

FY18 TSK

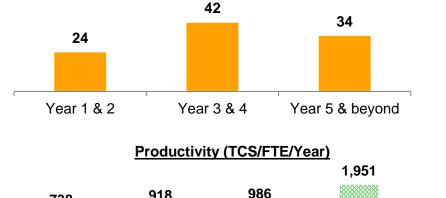
738

FY18 TSJ



TCS = Tons of Crude Steel; FTE = Full Time Equivalent Employees; Productivity for TSK post phase II is estimated based on ~4,100 D – 8 number of employees; 1. Internal estimates based on Tata Steel Kalinganagar deliveries in FY25

TSK Phase I



Tentative capex spending (%)

TATA STEEL

TSK Post Phase II

Tata Steel Kalinganagar – Phase II: Key features of the cold rolling **TATA STEEL** mill complex

Pickling Line and Tandem Cold rolling Mill	 High Quality Steel (IF¹, High Strength Steel, DP-1180 MPa, TRIP²) Strip Flatness (6 ~ 10 I Unit) IbA Analyser- data Acquisition, data analytics Labour Saving – de-straper, auto surface inspection Auto roll changing
Continuous Annealing Line	 Furnace capacity 240 T/Hr, Cooling Capacity >100° Celsius/Second Low NOx & SOx Emission (Special design of burners with W Radiant tubes) Furnace rolls - thermal crown control for, anti-pick up property (thermal spray coated), automatic coil de-straper & disposal, automatic fish tail detector Over-ageing furnace (suitable for DP 1180 MPa Grades)
Continuous Galvanizing Line	 GA furnace with close loop control and high capacity (5,200 KW) Auto zinc charging with bath AI and level control Auto Surface Inspection 1200 T Dual dia 4 Hi SPM with inline work roll change Robotics dross removal







Tata Steel – Investor Day 2018

Bhushan Steel: The first 6 months Rajeev Singhal – Managing Director, Bhushan Steel

TATA STEEL

A. Roadmap 2025

B. Focusing capital for long term value

C. Tata Steel India: Marketing and Sales

D. Tata Steel Kalinganagar: A significant milestone

E. Bhushan Steel: The first 6 months

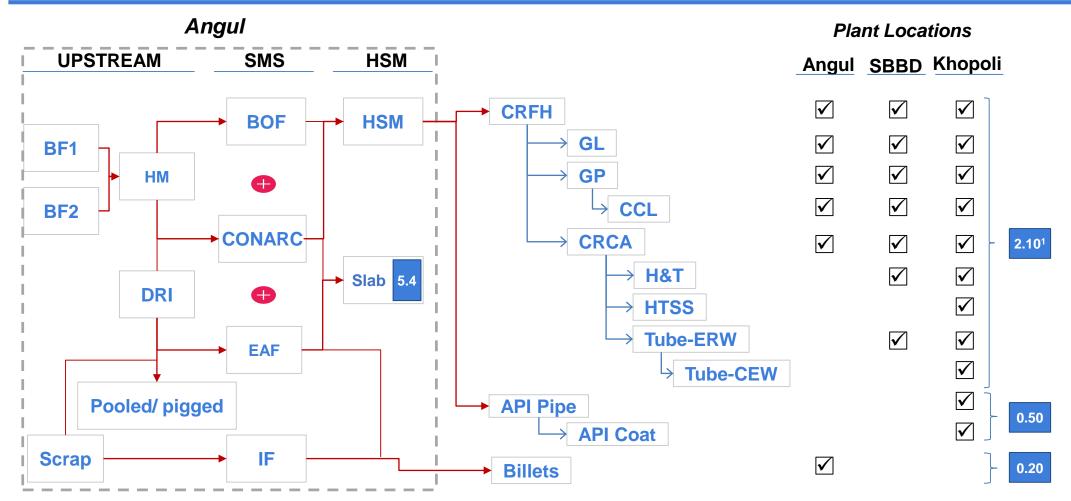
F. Our Digital Journey

Bhushan Steel is an attractive asset



High Quality Asset	 One of the widest cold rolling mill of 1700 mm in India Superior Plant Layout Leading process technology partners from Europe/Japan/USA Captive railway siding
Locational advantage	 Proximity to markets, raw materials and ports Close to Tata Steel plants and mines In-house processing centres for high end value-added products
Complementary and rich product mix	 Complimentary product portfolio (>1540 mm wider cold rolled products, <0.5mm thinner products, colour coated products, hardened & tempered products, API Tubes, Galvalume) Rich exposure in downstream business (more than 45% of total capacity) First Indian steel plant to supply skin panel to auto makers Market leader in colour coated supplies to appliance segment Large product range of Tubes & Pipes; world class Large dia. pipes manufacturing
Optionality	 Provides optionality to scale up through brownfield expansion in future

Value-added product manufacturing capability across 3 locations TATA STEEL



All capacities are in mn tons per annum, 1. Total cold rolling capacity

Infrastructure & Operations	 Improving safety standards through enhanced awareness, processes & equipment Elimination of hazards through improved use of technology Strengthening asset health with planned shutdowns & equipment refurbishment across value chain Addressing design gaps in utilities
People & Culture	 Strengthening of systems & processes Capability building to achieve benchmark performances Increasing people engagement through robust Human Resource processes Enhancing automation
External Stakeholders	 Implementing impact based CSR through engagement with the society Improving the environmental performance Be a benchmark in corporate governance

Integration is underway and several areas of synergy have been identified

Tier-1: Excellence

- Stabilize current performance
- Raise to best demonstrated performance
- Realise synergies

Tier-2: Elevate

- Achieve benchmark performance in all areas
- Achieve rated capacity
- Generate strong cash flow

Tier-3: Expand Capacity

- Initiate strategic capital investments
- Consistently replicate industry best performance
- Enhance sustainable returns for the stakeholders

60+ initiatives being pursued with a potential of > Rs.1,500 crores per year at Tata Steel consolidated level over 2-3 years

- Operational excellence projects & safety processes based on TSL best practices
 - Leverage technical knowhow
 - Common sales & operations planning
 - Access to Tata Steel distribution channel; Joint product promotion and customer interface
 - Migration to common brands
 - Common credit policies
 - Plug bottlenecks by using facilities at TSL like extra slab sales to group companies)



Marketing

& Sales

- Benefit of scale with combined procurement of key raw materials
 - Procurement process standardization
- Logistics
- Stockyard network optimization
- Clubbing of port operations
- Combine sea freight movements of finished goods

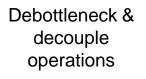
Our journey of improvement has begun

TATA STEEL

Key enablers to achieve 5 MTPA by FY20







Embed planned predictive maintenance framework



Capability building & resource augmentation



Restart idle assets



Excellence in planning, procurement, financing and IT

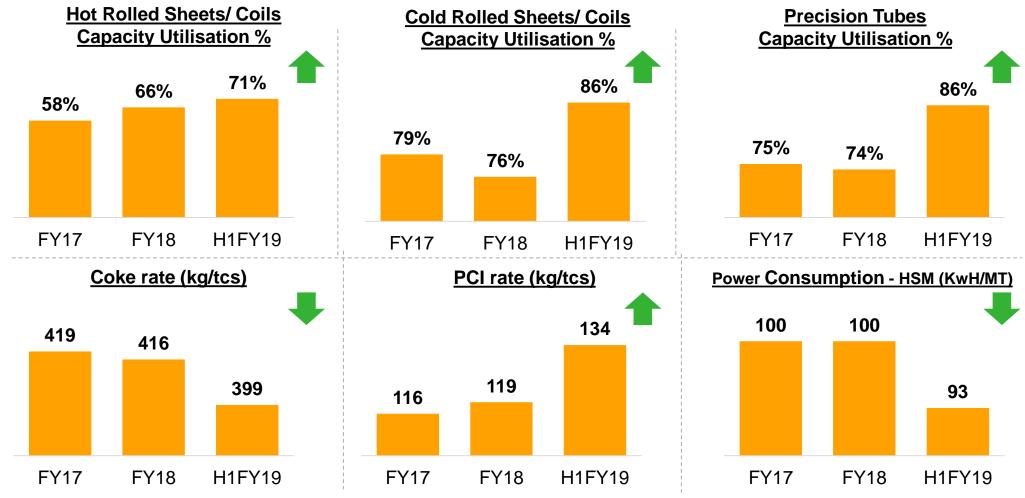


superior asset performance

Structured operations excellence and productivity improvement efforts

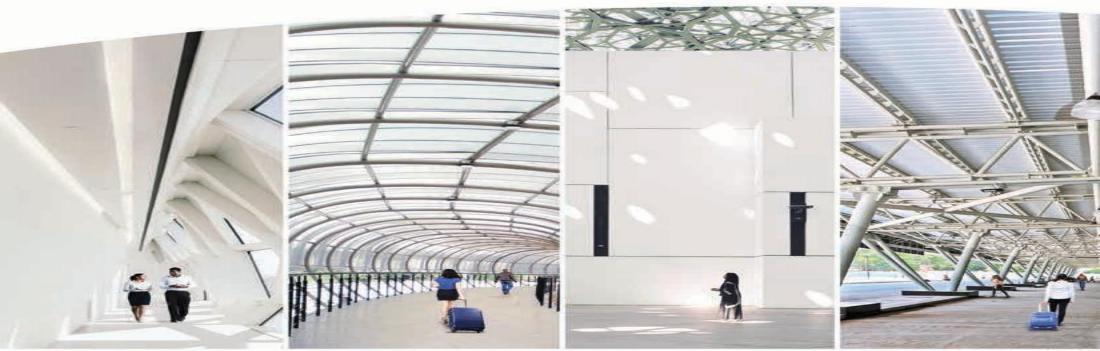
- Improve safety performance
- Maximize throughput
- Optimize resource consumption
- Drive energy efficiency
- Minimize waste disposal
- Optimize cost and working capital
- Drive innovation and enrich product mix

We are committed to build on the progress made in these months **TATA STEEL**









Tata Steel – Investor Day 2018

Our Digital Journey Jayanta Banerjee - Chief Information Officer

TATA STEEL

A. Roadmap 2025

B. Focusing capital for long term value

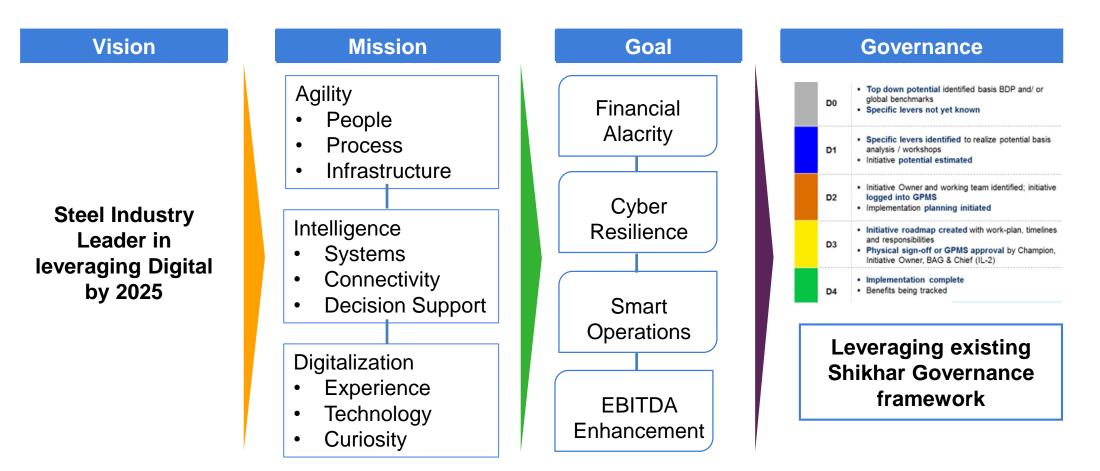
C. Tata Steel India: Marketing and Sales

D. Tata Steel Kalinganagar: A significant milestone

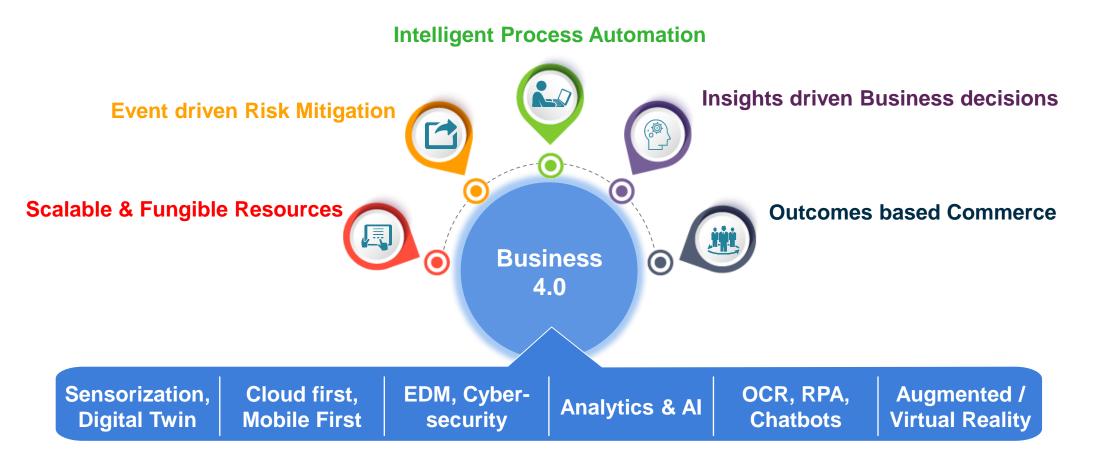
E. Bhushan Steel: The first 6 months

F. Our Digital Journey

IT & Digital vision is aligned to organizational long term objectives TATA STEEL

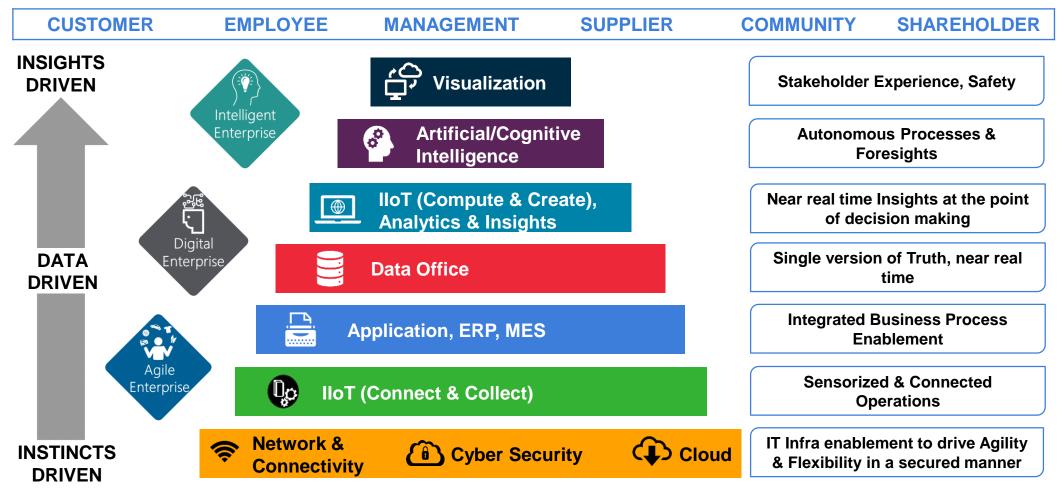


What the best in class Business 4.0 might look like when enabled by Technology



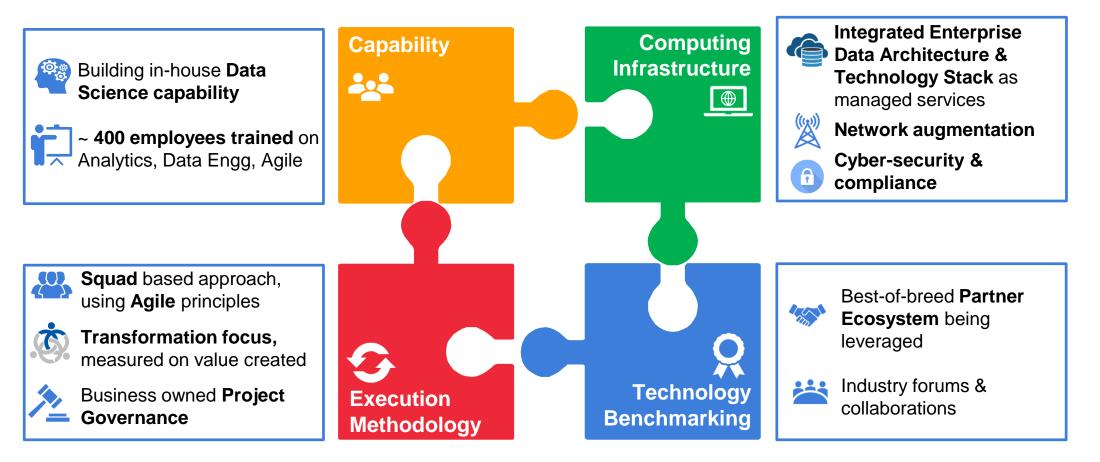
IT & Digital strategy design principles for enhanced stakeholder experience

TATA STEEL



IIoT: Industrial Internet of Things; MES: Manufacturing Execution System; ERP: Enterprise Resource Planning

Components put in place for rapid scale-up of Business Transformation



Key Initiatives in motion to study & enable exploitation of large spend bases, revenue pools over next 30 months

...driving Cost Reduction, Increased Productivity & Agility, Enhanced Stakeholder Experience and Reduced Time-to-Market

Key Initiatives	KPIs Impacted	E Desired Outcome
1 Maintenance Technology Roadmap	🗘 Availability, Reliability	Predictive Asset Maintenance, Smart operations
O Energy Management	Tost	Greener, sustainable operations at reduced cost
😤 Customer facing Digital Platforms	Customer Experience, Cycle Time, Revenue	Improved customer experience, Enhanced revenue
Integrated Supply ChainIntegrated Logistics (Inbound, Outbound)	🕒 Cost, On Time in Full	Lower cost to serve, Smart operations
Procurement 4.0	イ Cost, Cycle Time	Agile & responsive procurement process

TATA STEEL



Investor enquiries :

Sandep Agrawal Tel: +91 22 6665 0530 Email: <u>Sandep.agrawal@tatasteel.com</u>