

**BIODIVERSITY UPDATE – September 2013**



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- ❑ **Introduction: Tata Group & Tata Steel**
- ❑ **Tata Steel Minerals Canada (TSMC)**
- ❑ **Biodiversity Initiatives**

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# TATA GROUP OF COMPANIES



- One of India's largest business groups with 140 years of existence.
- Diverse businesses in 7 sectors with Group revenue of over US \$100 Billion in FY 2012
- 32 publicly listed companies with market capitalization of ~ 95 Billion US\$
- Operations in over 80 countries. Exports products & services to 85 countries.
- Largest employer in private sector with over 450,000 employees
- International income ~ 58%
- Over 7.2% of Bombay Stock Exchange's market cap

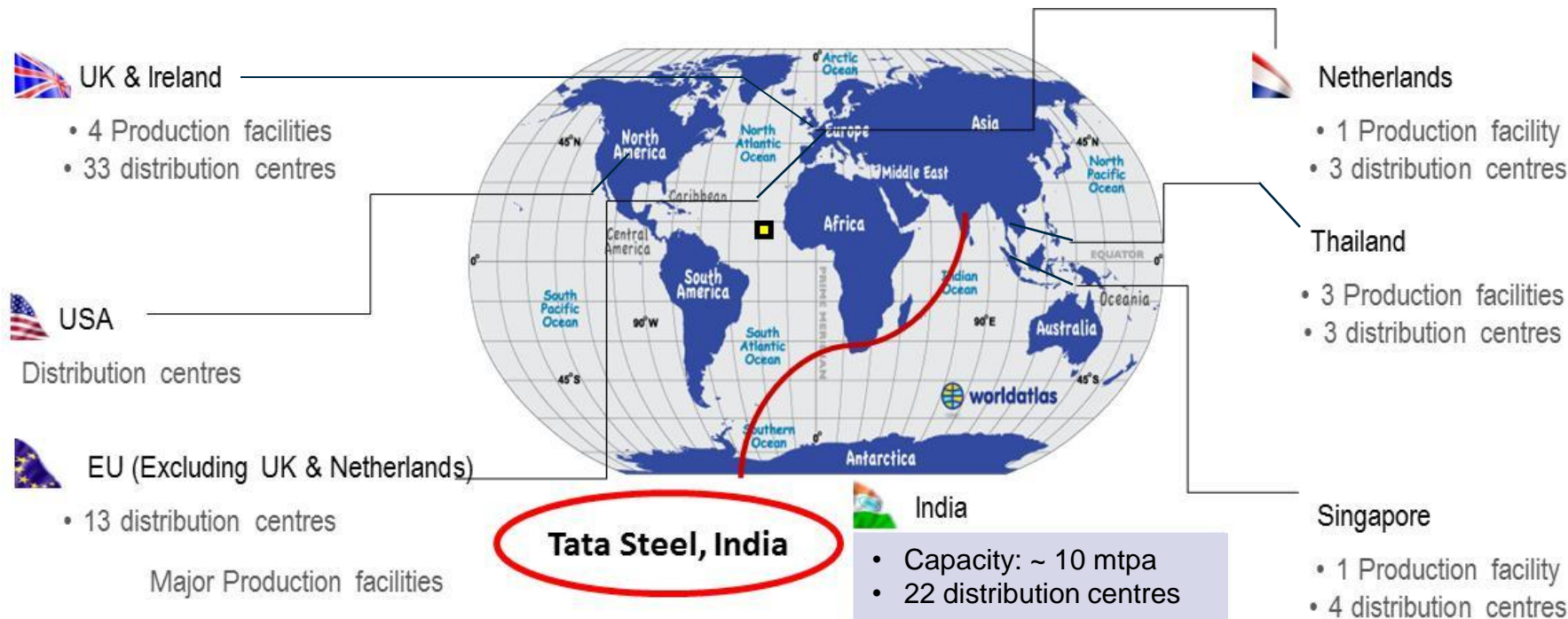


TATA STARBUCKS



TATA STEEL MINERALS CANADA LIMITED

# TATA STEEL: OVER 100 YEARS OF EXPERIENCE



- ✓ Among the top 10 steel makers in the world
- ✓ Fortune 500 company
- ✓ Over 80,000 employees
- ✓ Group revenue: ~ US\$ 26 Billion (FY 12)
- ✓ Capacity: 30 million tonnes

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# TATA STEEL MINERALS CANADA OPERATIONS IN REMOTE SUBARCTIC & SENSITIVE ENVIRONMENT



Mining and Processing Facilities in Northern Canada



Logistics From Mine to Port

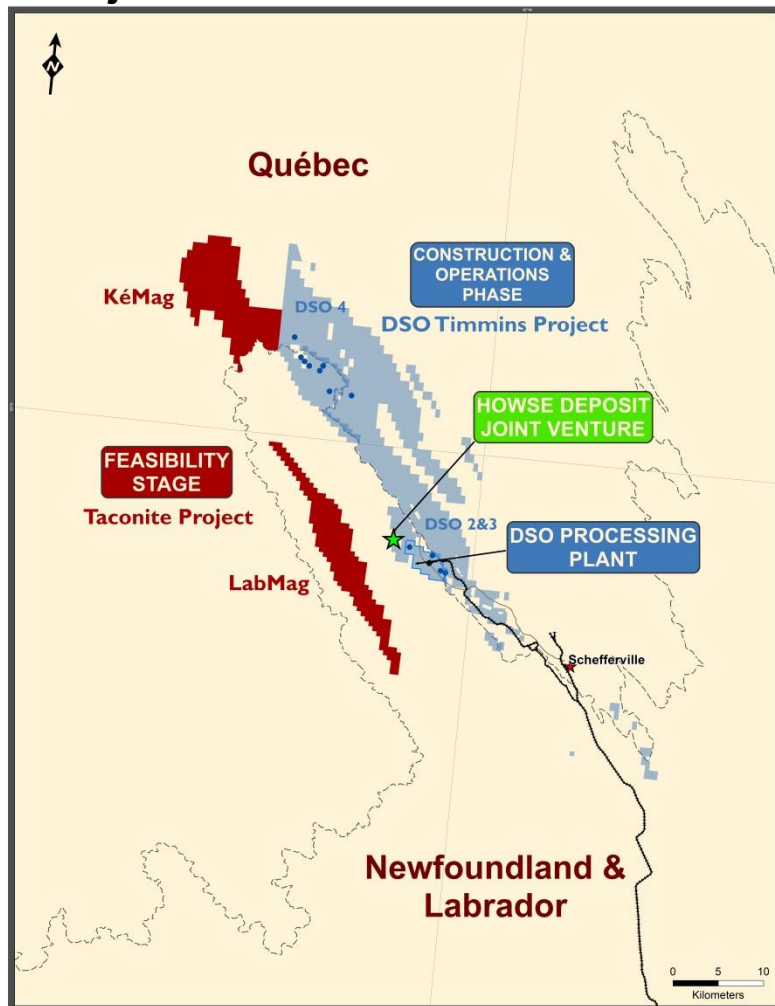




# TATA STEEL MINERALS CANADA: KEY FACTS



## Project Location



Area	Description
Ownership	80% Tata Steel 20% New Millennium Iron (NML)
Project Location	- Newfoundland & Labrador - Quebec
Resource	25 hematite deposits with 125 MT historical resource
Reserves	~ 90 MT (over 100 MT including Howse)
Volume Plan	<b>6 million tons per annum</b> - 4.2 MTPA sinter and super fines with 64.5% Fe - 1.8 MTPA crushing and screening with 60% Fe
Approved Investment	C\$ 698 M for DSO
Other Initiatives	<b>Taconite Feasibility Study</b> - Resource 8.0 billion tonnes - Reserves 5.3 billion tonnes - FS Budget C\$ 50 M
	<b>Howse Hematite Deposit JV with LIM</b> - Additional Reserve 23 million tonnes - Additional Production 1.5 MTPA - Initial Investment C\$ 30 M

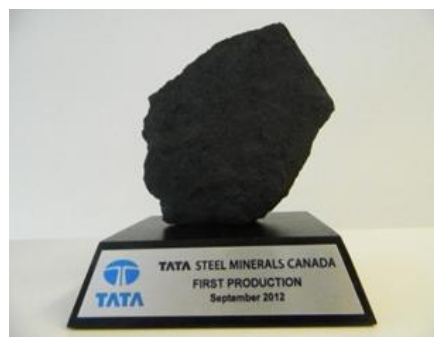
# TATA STEEL INVESTMENT IN CANADA



Investment	C \$ Million
DSO Project	700
Taconite Feasibility Study	50
Others (NML, LIM, etc.) - Indicative	150
<b>Overall Investment Plan</b>	<b>~ 900</b>



Joint Office Opening  
St. John's, 21 Nov 2011



First Production  
September 2012



TSMC "Miner of the Year"  
St. John's, 3 November 2012



First Train 10 July 2013  
reaching Sept-Iles

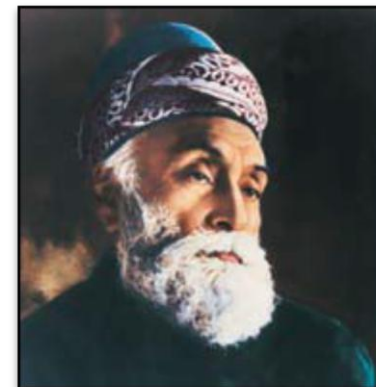
# TATA PHILOSOPHY: INCLUSIVE & STAKEHOLDER FOCUSED



## FOUNDING PRINCIPLES

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

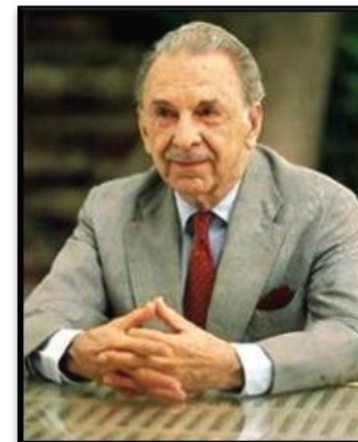
Jamsetji N. Tata  
Founder, Tata Group, 1868



## GROUP PHILOSOPHY

“The Tata philosophy of management has always been and is today more than ever, that corporate enterprises must be managed not merely in the interests of their owners, but equally in those of their employees, of the customers of their products, of the local community and finally of the country as a whole.”

J.R.D. Tata



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# TATA PHILOSOPHY: BIODIVERSITY



**TATA STEEL** respects wildlife and its habitat. It is committed to cooperate with national and local bodies to protect, enhance and monitor them.

We are an integral part of local communities and we strive to improve the quality of life in them by supporting them not only in their local economies, but also in their social development, education, health, safety and the environment.



**TATA STEEL MINERALS CANADA** recognizes that **Biodiversity** encompasses the variety and variability of life on Earth.

To regulators, Communities, Indigenous Peoples and investors, **Biodiversity** is key to their decision-making processes before granting approval to resource-development projects.

**Biodiversity** can be enhanced by.:

- ✓ respecting legally designated protected lands & territories and species at risk;
- ✓ supporting research programs in the framework of a scientific approach while also recognizing traditional indigenous knowledge;
- ✓ having a site specific approach.



- **TATA STEEL MINERALS CANADA** strives to implement biodiversity elements into its' adaptive management system by:
  - Recognizing and respecting the special relationship the local Indigenous Peoples affected by the Project have with their natural environment;
  - Seeking to avoid development and exploration activities in certain Sensitive Areas by considering alternate locations, routes and technologies for its mining projects;
  - Implementing measures to mitigate both primary and secondary impacts that are essential to the way of life and well-being of the local Indigenous Peoples by considering the environmental, economic, social, cultural or spiritual impacts of its development and exploration activities;
  - Preserving and investing in opportunities to improve the status or conserve biodiversity on the traditional lands and territories of the local Indigenous Peoples.

## Implications for TSMC

- Impact Benefit Agreement (IBA) is KEY to social acceptance, construction and environmental permits for DSO project.
- Without IBAs, the project work cannot continue.
- On-going consultation and implementation of IBAs is a MUST to continue getting their support.

## A Role Model

- TSMC has concluded IBAs and Co-operation Agreements with 6 Indigenous Peoples' Communities, a pioneering work.

### Efforts

- ✓ Hiring FN employees and capacity building;
- ✓ Enforcing equal opportunity employment policy;
- ✓ Promoting education initiatives, including traditional activities program;
- ✓ Protecting FN sacred lands and supporting spiritual gathering;
- ✓ Involvement with FN through joint environmental committee to get agreement on all development;
- ✓ Performance bond for the rehabilitation and restoration of mining sites above and beyond what is prescribed by law.



Book Distribution in First Nation School by Mr. Muthuraman



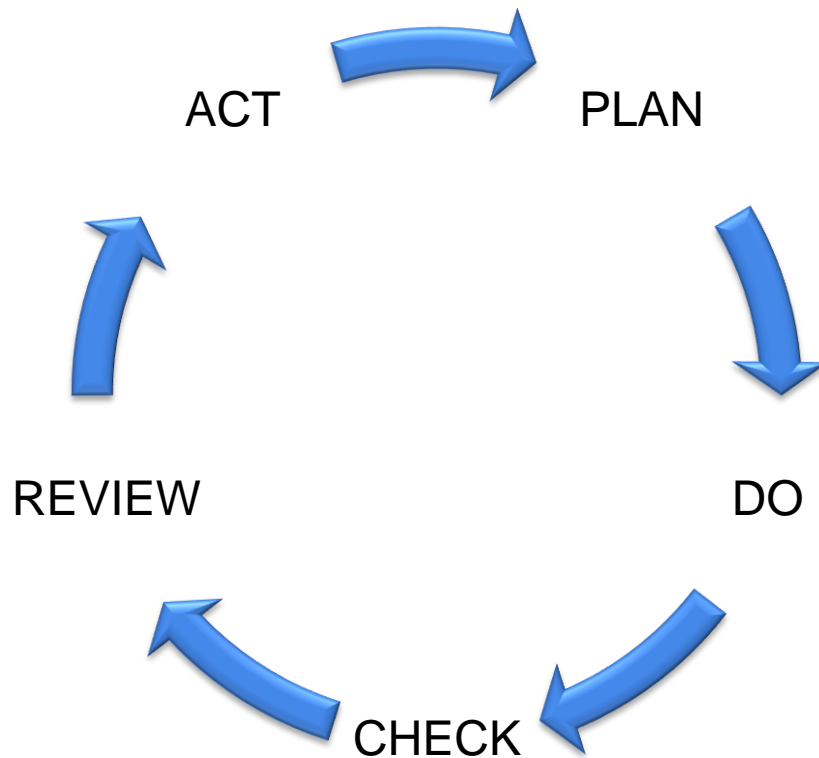
Creating Employment



Traditional Activities Program

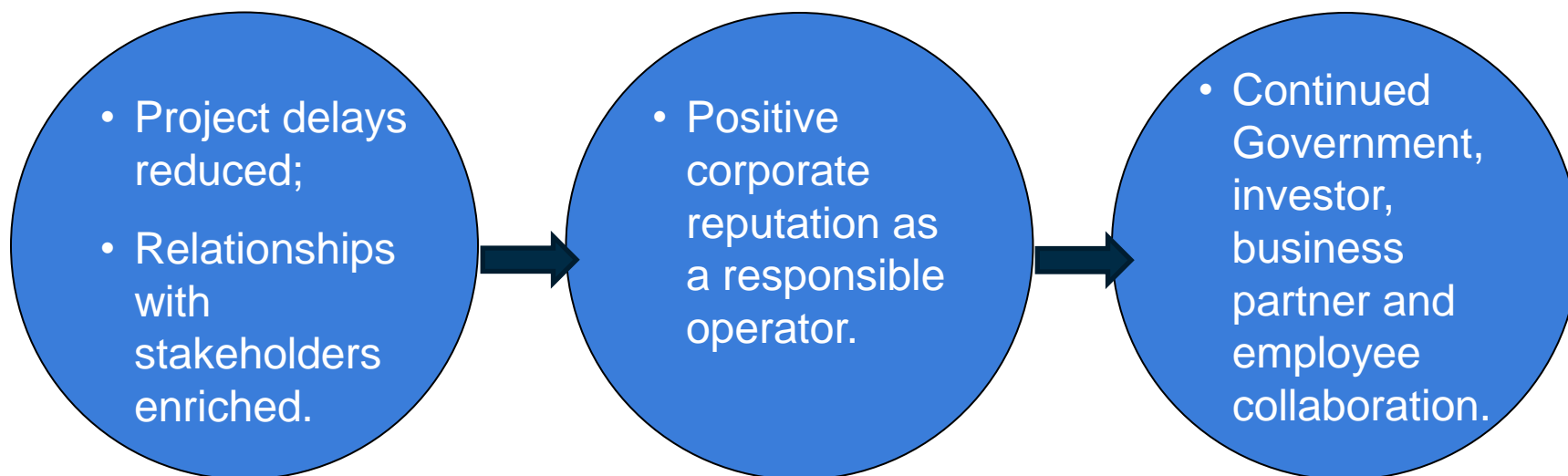


## ADAPTIVE MANAGEMENT SYSTEM



- Environmental Policy
- Planning
- Implementation and Operations
- Monitoring and Corrective Action
- Management Review

## Project and Corporate Level Benefits:



Continued access to key resources.

# SITE SPECIFIC APPROACH



- The local **Biodiversity** has been impacted by past mining activities in the region and although it remains a challenge for operations in previously undisturbed lands, **TATA STEEL MINERALS CANADA's** Direct Shipping Ore Project has been subject to thorough environmental impact assessment under the laws of Quebec and Newfoundland and Labrador and was granted release for all aspects that might impact environment.



- **TATA STEEL MINERALS CANADA** recognizes the importance of implementing COP Decisions based on Article 8j by incorporating the Akwé: Kon Voluntary Guidelines into TSMC's operations in its Direct Shipping Ore Project along the Quebec / Newfoundland and Labrador border.
- **TATA STEEL MINERALS CANADA**, in all phases of its' Direct Shipping Ore Project, ensures that there is proper cultural, environmental and social impact assessments regarding developments proposed to take place on, or which are likely to impact on, sacred sites and on lands and waters traditionally occupied or used by Indigenous Peoples:
  - ✓ through an on-going process of consultation and accommodation in the framework of joint Indigenous - **Tata Steel Minerals Canada** environmental committees.



# SITE SPECIFIC APPROACH



- In conjunction with local Indigenous Peoples, **TATA STEEL MINERALS CANADA** developed an action plan to explore effective approaches to restore mine sites and to identify the fauna and the flora at risks such as :
  - ✓ the Caribou;
  - ✓ the Rusty Blackbird.
  
- For the life of mine of the project, **TATA STEEL MINERALS CANADA** will have in place a sustainable development strategy including a biodiversity baseline.



- For many years now, it has been noted by local Indigenous Peoples and scientists from various Governments that the Woodland Caribou, the George River and the Leaf River Caribou Herds are in decline, if not considered threatened. For example, the *Red Wine Mountains Herd* is listed as such under the *Species at Risk Act*.
- In conjunction with local Indigenous Peoples, **TATA STEEL MINERALS CANADA** and the University of Laval, is actively engaged in supporting the “**Caribou Ungava Program**”, a research program, including a marking and telemetry program, to monitor the state of the George River Caribou Herd.

- The **Caribou Ungava Program** is a multi-disciplinary Research Program on Migratory Caribou and their Environment managed by the University of Laval with the cooperation of the following governments:
  - ✓ Newfoundland & Labrador
  - ✓ Quebec
  - ✓ Canada
- **TATA STEELS MINERALS CANADA Direct Shipping Ore Project** Site is in the vicinity of the George River and the Leaf River Caribou Herds which is a serious matter of concern for the Company and the local Indigenous Peoples.
- Governments and University Researchers developed an innovative approach to caribou monitoring by creating a system which would allow companies such as **TATA STEEL MINERALS CANADA** to detect caribou within a range of 5, 10, and 25 kilometers from its operations and therefore allowing the Company the means to take appropriate measures to protect a species at risk or threatened.

# SITE SPECIFIC APPROACH



- In conjunction with Indigenous Peoples, Universities, and Governments, **TATA STEEL MINERALS CANADA** actively supports the **Caribou Ungava Program** for the monitoring of Caribou Herds in decline or considered threatened as a means of preserving and protecting **Biodiversity** in a very sensitive environment.
- This is just one example demonstrating how **TATA STEEL MINERALS CANADA** developed a site specific approach in implementing COP Decisions on Article 8j of the CBD.







**Thank You**