



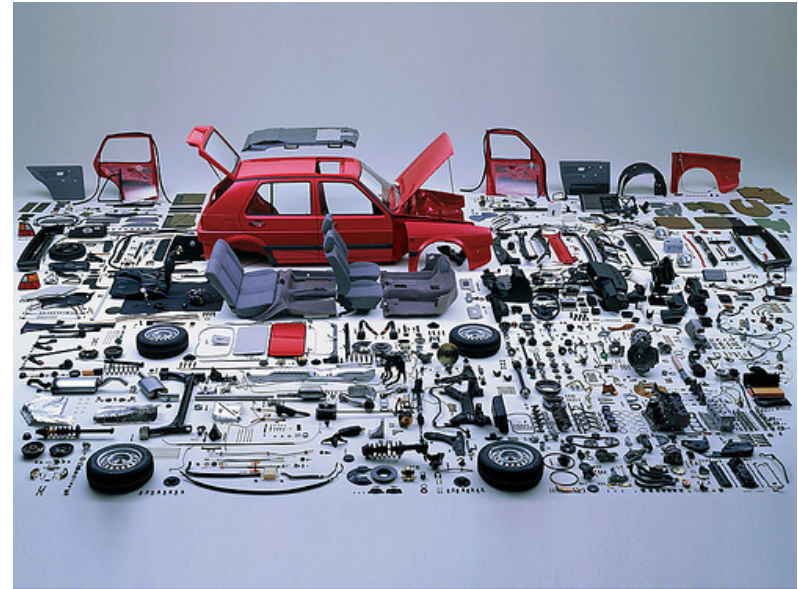
Towards Sustainable Mining
Vers le développement minier durable

Responsible Sourcing of Metals and Minerals

Moving from Mine to Product

Presented at the Intergovernmental Forum on Mining, Minerals, Metals and Sustainable
Development
October 2018, Geneva





Responsible Sourcing

“ ...also referred to as supply chain responsibility, is a voluntary commitment by companies to take into account social and environmental considerations when managing their relationships with suppliers.”





look for the blue card





Apple Supplier Responsibility Standards

Applicable Upstream Standards for Large Scale Mining Companies & Artisanal and Small Scale Mining ("ASM/SSM")*								
Organization/ Standard	Human Rights & Labor			Health & Safety		Environment		
	Conflict	Child Labor	Forced Labor	Occupational Health & Safety	Community Health & Safety	Water Consumption Abstraction	Tailings	Pollution
Better Sourcing**	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CCCMC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Fairmined**	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fairtrade Gold**	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
IFC Performance Standards	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
IRMA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ITSCI**	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	n/a	n/a	n/a	n/a	n/a
Mining Association of Canada (TSM)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RJC Chain of Custody**	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
World Gold Council	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	n/a	n/a	n/a	n/a	n/a

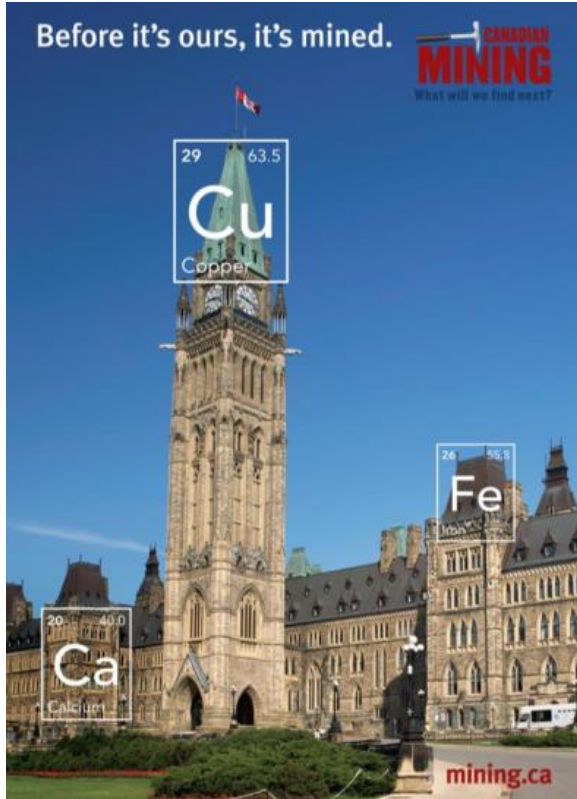


EICC SENSING ASSESSMENT MAPS

2016

IMPORTANCE TO SUPPLY CHAIN SUSTAINABILITY





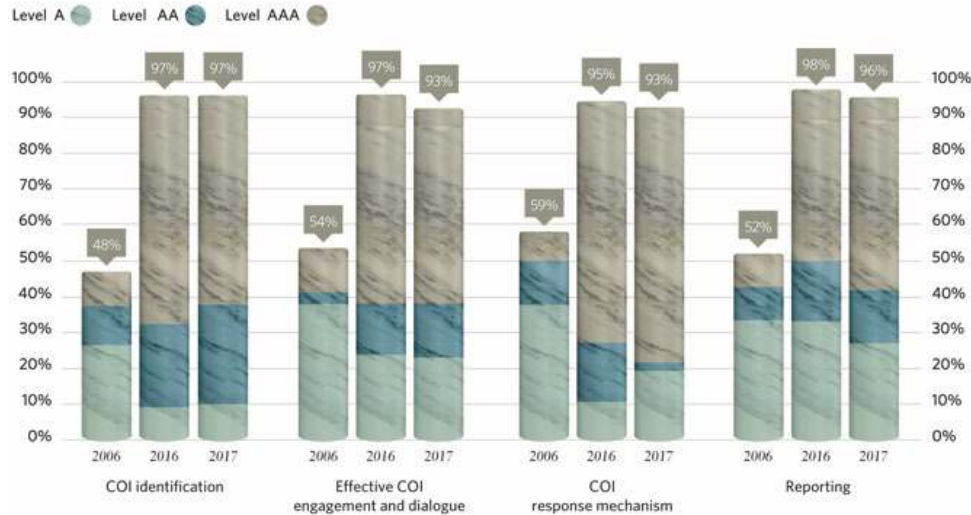
About TSM:

- ◆ Mandatory participation for MAC members.
- ◆ Improves environmental and social performance in critical areas beyond regulations:
 - ◆ Environmental Footprint (tailings, biodiversity, water)
 - ◆ Energy Efficiency (energy use, GHG emissions)
 - ◆ Community and People (engagement, safety & health, crisis management, preventing child and forced labour)

Program Strengths:

- ◆ Performance measured at facility-level.
- ◆ Monitored by external Community of Interest (COI) Advisory Panel.
- ◆ Results are externally-verified.
- ◆ Encourages excellence and continuous improvement.

Aboriginal and Community Outreach Assessments Percentage of Facilities at a Level A or Higher 2006, 2016 and 2017



2016 TSM Results

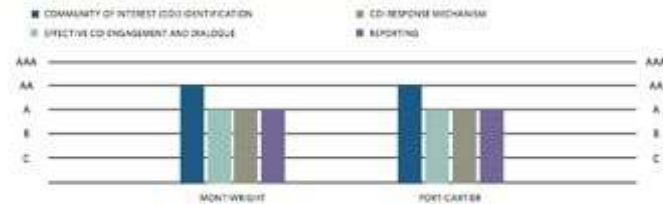
ArceIorMittal Mines Canada

Externally Verified Results

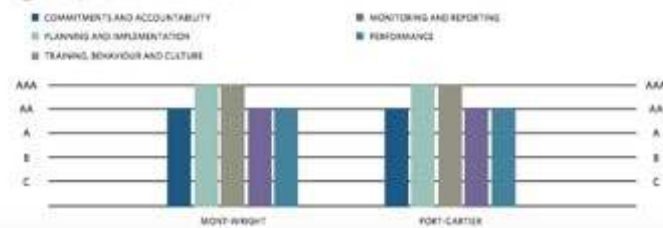
Crisis Management and Communications Planning Assessment

FACILITY	PREPAREDNESS	REVIEW	TRAINING
ARCELIORMITTAL MINING CANADA S.P.	✓	✓	✗
MONT-WRIGHT	✓	✓	✓
FORT-CARTIER	✓	✓	✓

Aboriginal and Community Outreach Assessment



Safety and Health Assessment



TSM Partner Countries

- ◆ North America
 - ◆ Canada
- ◆ South America
 - ◆ Argentina
- ◆ Africa
 - ◆ Botswana
- ◆ Europe
 - ◆ Finland
 - ◆ Spain
- ◆ Asia
 - ◆ Philippines



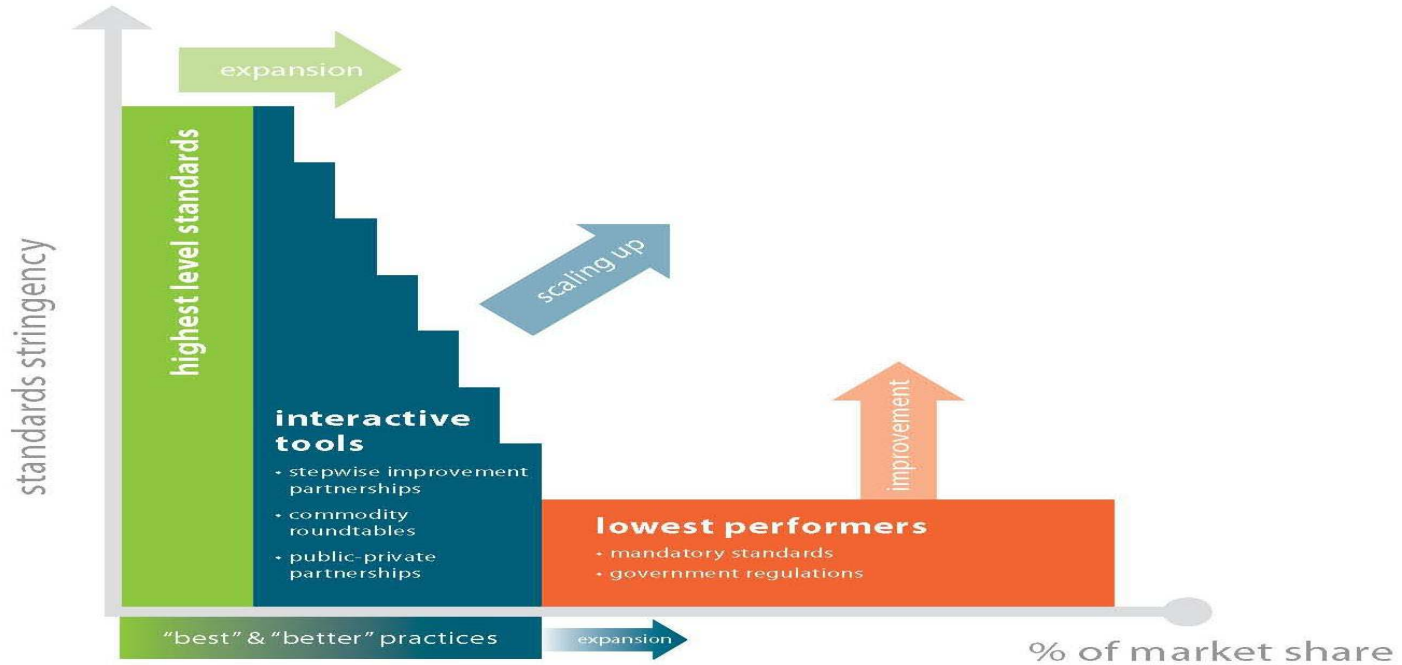
“TSM is a good management tool, it’s good for companies that want to implement good practises and is a useful framework for monitoring and measuring progress towards that. **It is most useful, however, in-conjunction with a strong regulatory framework so there are actual legal requirements. When we say TSM is being adopted it is being adopted by industry but not by governments. Both are necessary.**”

Jamie Kneen, Communications and Outreach Coordinator, Mining Watch Canada

- ◆ Legal Compliance
- ◆ Business Integrity
- ◆ Stakeholder Engagement
- ◆ Business Relationships
- ◆ Child Labour
- ◆ Forced Labour
- ◆ Freedom of Association and Collective Bargaining
- ◆ Discrimination
- ◆ Gender Equity
- ◆ Working Hours
- ◆ Remuneration
- ◆ Occupational Health and Safety
- ◆ Grievance Mechanism
- ◆ Environmental Management
- ◆ Greenhouse Gas Emissions
- ◆ Energy Consumption
- ◆ Freshwater Management and Conservation
- ◆ Waste Management
- ◆ Tailings Management
- ◆ Pollution
- ◆ Biodiversity and Protected Areas
- ◆ Mine Closure and Reclamation
- ◆ Community Health and Safety
- ◆ Community Development
- ◆ Artisanal and Small-Scale Mining
- ◆ UN Guiding Principles on Business and Human Rights
- ◆ Security and Human Rights
- ◆ Indigenous Peoples Rights
- ◆ Land Acquisition and Resettlement
- ◆ Cultural Heritage
- ◆ Conflict Minerals

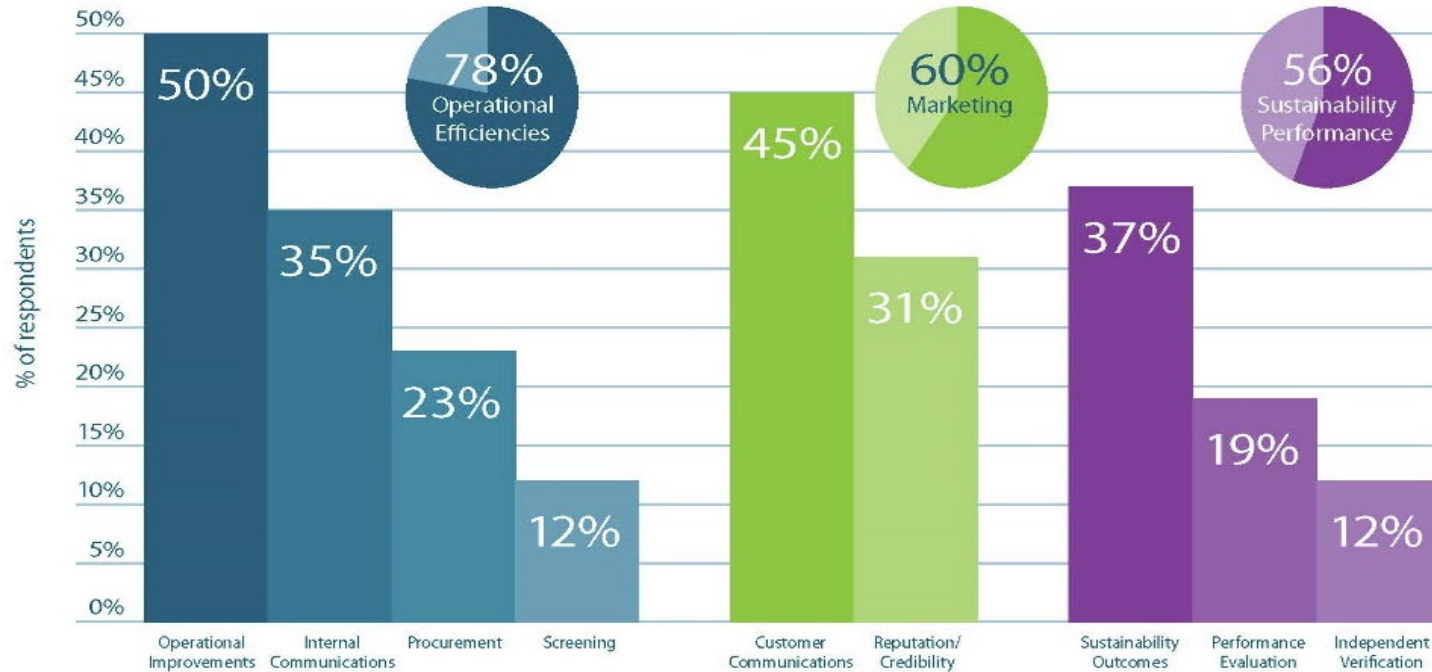
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Issues addressed in TSM



RESOLVE





Source: Toward Sustainability, the Roles and Limits of Certification, RESOLVE, 2012

Source: ISEAL Alliance

For more information please contact:

Pierre Gratton
President and CEO
Mining Association of Canada
613-233-9391

Ben Chalmers
VP, Sustainable Development
Mining Association of Canada
613-233-9391

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A photograph of a person's hands holding a smartphone. Overlaid on the phone's screen are three boxes representing elements from the periodic table: Indium (In, atomic number 49, atomic weight 114.8), Copper (Cu, atomic number 29, atomic weight 63.5), and Gold (Au, atomic number 79, atomic weight 196.9). The background is a blurred office setting.

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What will we find next?