# Towards Sustainable Mining: an Overview of an Emerging Global Standard for Responsible Mineral Production

**Presented to the SVEMIN Environment Conference** 

**October 7, 2020** 



The Mining Association of Canada

L'association minière du Canada



## The Mining Association of Canada

- The national voice of the Canadian mining industry since 1935
- Promotes the industry nationally and internationally, working with governments and educating the public
- Members account for about 75% of Canada's minerals and metals production







## **Towards Sustainable Mining**

- An award-winning performance system that helps mining companies evaluate and manage their environmental and social responsibilities
- A set of tools and indicators to drive performance and ensure that key mining risks are managed responsibly
- Mandatory for all mining companies that are members of associations that have adopted TSM
- Grounded in a commitment to accountability, transparency, credibility and continual improvement
- Increasing Global Reach:



0













Canada

Argentina

Botswana

Brazil

zil

Finland

The Philippines

Spain

Norway





## **Guiding Principles – Summarized**

- Involving communities of interest and proactively seeking dialogue
- Fostering leadership to achieve sustainable resource stewardship
- Conducting business with excellence, transparency and accountability
- Protecting health and safety and respecting worker rights
- Seeking to minimize impact on the environment and biodiversity
- Respecting human rights and the unique role of Indigenous peoples
- Maintaining ethical conduct and complying with laws and regulations
- Supporting community participation in opportunities provided by mining
- Responding to community priorities and providing lasting benefits





## **Community of Interest Advisory Panel**

An independent advisory body comprised of individuals from:

- Indigenous groups
- Communities where the mining industry is active
- Environmental and social NGOs
- Labour
- Financial organizations
- Select members of the Mining Association of Canada's Board of Directors



- Biannual meetings
- Annual reviews of company performance
- Critical perspectives on emerging issues

### **TSM Protocols**

Environmental Stewardship

Communities & People

**Energy Efficiency** 



Tailings Management
Biodiversity Conservation
Management

Water Stewardship



Indigenous and Community Relationships
Safety & Health Management
Crisis Management & Communications
Planning

Preventing Child and Forced Labour



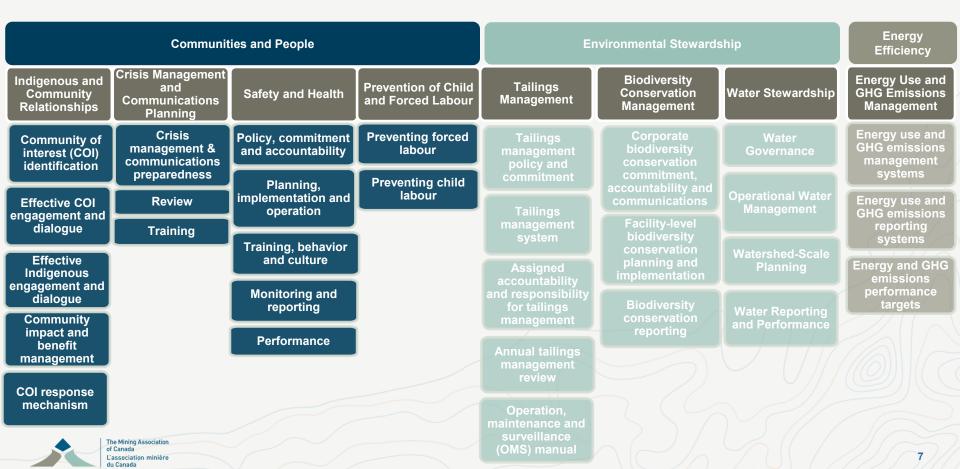
Energy Use & Greenhouse Gas Emissions Management

**Developed in consultation with Community of Interest Advisory Panel** 





### **TSM Protocols**





## **Rating System**

AAA

Excellence and leadership.

AA

Systems and processes are integrated into management decisions and business functions

A

Good practice. Systems and processes are developed and implemented.

В

Procedures exist but are not fully consistent or documented. Systems and processes are planned and being developed.

C

Does not meet the requirements of Level B





### **Protocol Structure**

- Comprised of individual performance indicators
- Supported by a series of criteria at each level of performance
- Accompanied by detailed guidance to support interpretation and implementation

## 1. CORPORATE BIODIVERSITY CONSERVATION COMMITMENT, ACCOUNTABILITY AND COMMUNICATIONS

#### <u>Purpose</u>

To confirm that corporate commitment and accountabilities are in place and communicated relevant employees to support the management of biodiversity conservation issues.

#### Biodiversity Conservation Commitment, Accountability and Communications: Assessment Criteria

LEVEL	CRITERIA
С	The facility does not meet all level B criteria.
В	Demonstrated senior management biodiversity commitment is in place but may not be consistent with the intent of the TSM Mining and Biodiversity Conserve Framework.
	Plans are in place to achieve Level A performance.
А	Demonstrated senior management commitment, consistent with the intent of the TSM Mining and Biodiversity Conservation Framework and to the application of the mitigation hierarchy to achieve stated biodiversity outcomes.
	Commitment to biodiversity conservation has been communicated to relevant employees, contractors and facility-level Communities of Interest (COI).
	Roles, responsibilities and accountabilities for implementation of the commitment are clear, and resources have been assigned to support implementation of the commitment.
AA	Biodiversity conservation commitment and its implementation are subject to independent verification/review (internal or external).
AAA	Biodiversity conservation commitment includes a stated ambition of no net loss and commitment to actively partner with other organizations for biodiversity conservation, and roles, responsibilities and resources have been assigned to support this commitment.

**Indicator** 

Criteria





## **Annual Public Reporting by Facilities**

#### 2018 TSM Results IAMGOLD Corporation Crisis Management and Communications Planning Assessment WMEDICO Corporation - Corporate Rosphel Gold Mines Westwood Product of Aur 23, 2019 Aboriginal and Community Outreach Assessment ■ Community of Interest (COI) identification ■ Effective COI engagement and dialogue ■ COI response mechanism ■ Reporting Resided Gold Mines Assistant Westwood Safety and Health Assessment ■ Commitments and accountability : ■ Planning and implementation: ■ Training, behaviour and culture Monitoring and reporting Performance

Resolve! Gold Mirror.



Snargy line		

MOLET	MATERIAL DIRECT	COST	TOTAL RANDOM	TOTAL IMMET IN (II)	
Ensture	124419	170	(0)4000	3270136	
Rosebel Gold Minery	194212	0	101212	2963147	
Writness	1196	210	11881	H0101	



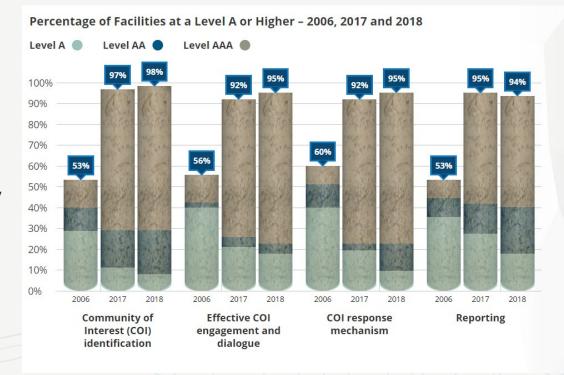
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## **Continual Improvement**

- Improvements in industry performance are measurable and meaningful over time
- Companies commit to demonstrate continual improvement until they achieve good practice

### **Indigenous and Community Relationships**

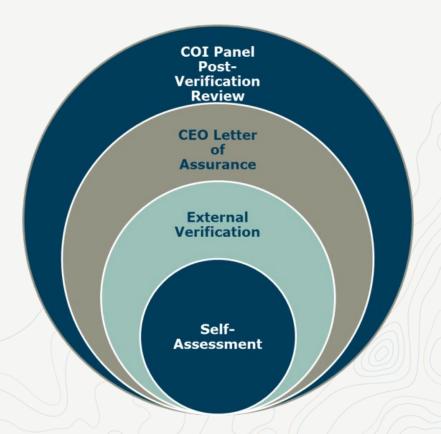






### **Verification Process**

- Annual self-assessments
- External verification of selfassessments by trained verifiers every three years
- Letter signed by CEO that the results are externally verified according to requirements
- Potential for selection by the Advisory Panel for a postverification review





## **Increasing Focus on Equivalency with Other Standards:**

### TSM Responsible Sourcing Alignment Supplement

#### 1. CORPORATE GOVERNANCE AND ETHICAL CONDUCT

#### Purpose

To ensure the application of ethical business practices and sound systems of corporate governance and transparency to support sustainable development

	governance and transparency to support sustainable development			
		ICMM PE	RGMP	CM/RRA
Th	rough interview and review of documentation, determine:			
1	Legal compliance			
	<ul> <li>Establish and maintain processes to ensure compliance with applicable laws</li> </ul>	1.1	1.1	1
2	Code of conduct			
	<ul> <li>Maintain a code of conduct to make clear the standards with which employees, suppliers and contractors are expected to comply with.</li> </ul>	1.3	1.2	n/a
	<ul> <li>Actively promote awareness of the code and implement systems to monitor and ensure compliance.</li> </ul>	n/a	1.2	n/a
3	Combating bribery and corruption	l. <u>.</u>		_
	<ul> <li>Implement policies, practices and controls that prohibit and effectively prevent bribery (including facilitation payments) and corruption in all their forms, conflicts of interest and anti- competitive behavior by employees, agents or other company representatives.</li> </ul>	1.2	1.3	2
4	Political contributions			
	<ul> <li>Publicly disclose the value and beneficiaries of financial and in-kind political contributions, whether directly or through an intermediary.</li> </ul>	1.5	1.4	n/a
5	Transparency of Taxes, Ownership and Transfer Pricing			
	<ul> <li>Publish tax, royalty and other payments to governments annually by country and project (for Canadian companies this is accomplished through compliance with the Extractive Sector Transparency Measures Act). Encourage governments to promote greater transparency around revenue flows, mining contracts and the beneficial ownership of license holders.</li> </ul>	Mineral Revenue PS & 10.2	1.5	32
	<ul> <li>Implement processes to ensure and demonstrate that transfer pricing outcomes are in line with fair business practices and value creation.</li> </ul>	n/a	1.6	n/a
	Publicly support the implementation of the Extractive Industries Transparency Initiative (EITI)	10.2	1.5	32

#### 3. RESPECT FOR HUMAN RIGHTS AND LABOUR RIGHTS

#### ourpose

To pursue continual improvement in the areas of human rights and labour rights that are not addressed by the TSM protocols.

		ICMM PE	RGMP	CM/RRA
Through that:	interview and review of documentation, determine			
10 UN G	uiding Principles on Business and Human Rights			
•	Adopt and implement policies of the UN Guiding Principles on Business and Human Rights by developing a policy commitment to respect human rights, undertaking human rights due diligence and providing for or cooperating in processes to enable the remediation of adverse human rights impacts that the facility has caused or contributed to.	3.1	2.3,5.1,5.2	25
11 Confli	ct-Affected and High-Risk Area Due Diligence			
•	Undertake risk-based due diligence on conflict and human rights that aligns with the OECD Due Diligence Guidance on Conflict-Affected and High-Risk Areas when operating in – or sourcing from – a conflict-affected or high-risk area. Implementation of the Conflict Free Gold Standard fully addresses this criterion.	4.2	5.4	31
12 Reset	ttlement	3.2	7.8	29
	Avoid the involuntary physical or economic displacement of families and communities. Where this is not possible apply the mitigation hierarchy and implement actions or remedies that address residual adverse effects to restore or improve livelihoods and standards of living of displaced people.			
13 Secur	rity and Human Rights	3.3		27
•	Implement, based on risk, a human rights and security approach consistent with the Voluntary Principles on Security and Human Rights. (This requirement is in line with MAC's membership commitment on the Voluntary Principles for those members that conduct external assurance on their security structures.)	3.3	5.3	21
14 Labou	ur Rights	3.4	6.2, 6.3,	7, 8, 13
•	Respect the rights of workers by eliminating harassment and discrimination, respecting freedom of association and collective bargaining, and providing a mechanism to address workers grievances.		6.4	





# **ESG Ratings**



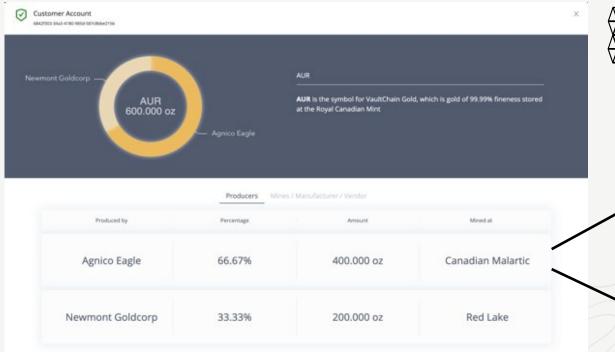
- Ratings firms are using TSM performance to inform sustainable investment decisions
- Sustainalytics includes
   TSM in its criteria for top
   scores in tailings
   management
- Sustainalytics plans to introduce other indicators using TSM data

Tick Box	CRITERIA	Score
1	Mining Association of Canada-Towards Sustainable Mining (MAC-TSM) AA, AAA or Initiative for Responsible Mining Assurance (IRMA) compliance levels 3, 4 (>50% of assets).	10
2	MAC-TSM Rating A, or IRMA level 2 (>50% of assets), or MAC-TSM Rating AA, AAA or IRMA levels 3 or 4 (<50% of assets).	6
3	Contracted third-party audits (minimum three years, with annual interim surveillance audits), Responsible Mining Initiative (RMI) or MAC-TSM Rating C or B, or IRMA Compliance levels at any asset, or MAC-TSM Rating A or IRMA level 2 (< 50% of assets).	5
4	Application of TSF management standard and self-assessed management programmes (per MAC-TSM review panel requirements).	3
5	TSF management standards applied ( <b>ICMM</b> , ILO, IFC PS4.6, <b>ISO14001</b> , IUCN, SASB NR0302.07-09, IRMA transparency level).	2





## **Traceability**





#### ORIGINS



Location: Canadian Malartic (Mine)

Format: Dore

Certifications: Towards Sustainable Mining

Shipping Date: 11/15/2019 Creation Date: 11/15/2019

Refiner: Royal Canadian Mint <sup>①</sup>

**Est. Gold:** 3,000.000 oz **Est. Silver:** 3,000.000 oz





# **Responsible Sourcing**



## **Supplier Responsibility Standards**

Applicable	Upstream Sta	andards for Larg		g Companies * and and Metals Supply		Small Scale Mining	("ASM/SSM")	*
	Human Rights & Labor		Health & Safety		Environment			
Organization/ Standard	Conflict	Child Labor	Forced Labor	Occupational Health & Safety	Community Health & Safety	Water Consumption Abstraction	Tailings	Pollution
Better Sourcing**	V	V	V	V				
CCCMC	V	V	V	<b>V</b>	n/a	n/a	n/a	n/a
Fairmined**	V	V	$\vee$	✓			<b>V</b>	
Fairtrade Gold**	V	V	V	V			V	V
IFC Performance Standards	V	V	V	V	V	V	V	V
IRMA	V	V	✓	V	✓	V	V	V
ITSCi**	✓	✓	V	n/a	n/a	n/a	n/a	n/a
Mining Association of Canada (TSM)		V	V	V	V	V	V	
RJC Chain of Custody**++	V	V	✓	✓			✓	V
World Gold Council	V			n/a	n/a	n/a	n/a	n/a
ICMM+	V	V	V	abla		V	V	V
CRAFT	<b>V</b>	✓	<b>V</b>	<b>V</b>		<b>V</b>		✓

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