

Sustainable Approach to International Chemicals Management

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- Introduction to ICMM
- The context for International Chemicals Management
- Strategic Approach to International Chemicals Management
- Metals of international concern
- ICMM Framework for Chemicals Management – Materials Stewardship

International Council on Mining and Metals

Mission: to distinguish its members as industry leaders and to make a contribution to raising standards across the industry as a whole.

Mandate: to provide industry leadership through its work in developing **good operational practices and in partnership with its network of association members**; to provide a platform for industry and other key stakeholders to share challenges and develop solutions based on sound science and the principles of sustainable development.

Vision: A respected mining and metals industry that is widely regarded as essential for society and as a key contributor to sustainable development.

Company members

ICMM
International Council
on Mining & Metals



**RIO
TINTO**



BARRICK



teckcominco



LONMIN

ICMM's Sustainable Development Framework



10 Principles for Sustainable Development which corporate members are required to implement throughout their businesses

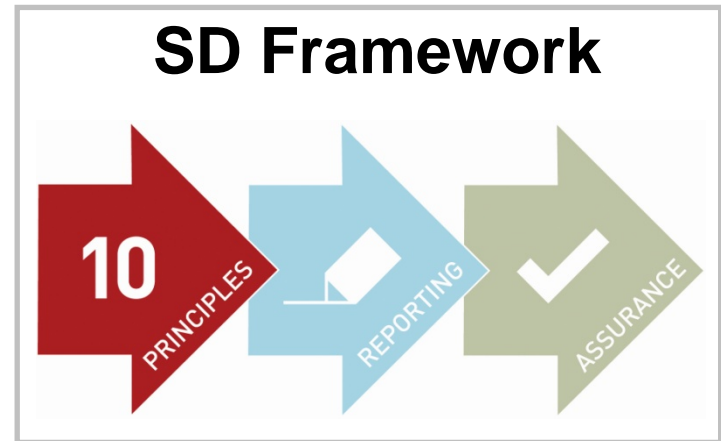


A commitment to publicly reporting performance against the 10 Principles in line with the GRI G3 Sustainability Reporting Guidelines and Mining and Metals Sector Supplement



Independent external assurance of members reported performance against the ICMM Principles and GRI requirements

- ICMM work program
 - Socio-economic development
 - Environmental stewardship
 - Health and safety
 - **Materials Stewardship**
 - Reserves and resources
- All ICMM projects support implementation of the 10 Principles
 - Tools and publications
 - Conferences
 - Workshops
 - Good Practice website - www.goodpracticemining.org



International Momentum

- UNCED Chapter 19 – Agenda 21
- Rotterdam Convention PIC
- Stockholm Convention on Persistent Organic Pollutants (POPS)
- UNGHS
- Intergovernmental Forum on Chemical Safety (IFCS) and Inter-Organisation Programme for the Sound Management of Chemicals (IOMC)

Global Imperative

- “The sound management of chemicals is essential if we are to achieve sustainable development, including the eradication of poverty and disease, the improvement of human health and the environment and the elevation and maintenance of the standard of living in countries at all levels of development.”
 - *Dubai Declaration on International Chemicals Management* 6 February 2006
- Growth in global chemicals trade, production and use.
- Need for prioritisation of risk management activity.
- Improved coordination at global, regional, national levels.
- Assistance for developing countries.

UN Members agreed there was a need for a Strategic Approach to International Chemicals Management.

Different regions/organisations developed key functions/interests in this respect:

- **Specific countries:** development of chemicals management programs (including risk assessments on priority chemicals)
- **OECD:** platform for discussion and exchange of existing national chemicals risk assessments
- **UN:** publishing the outcome of risk assessments
- Existing conventions need better co-ordination and efficiency

The EU has become the main international driver in risk assessment and chemicals management, utilising the OECD and UN mechanisms to globalise the outcome of the assessments/policies

- Strategic Approach to International Chemicals Management (SAICM) adopted at the International Conference on Chemicals Management (ICCM) in Dubai
- An overarching goal:
 - “...to achieve, by 2020, that chemicals are used and produced in ways that lead to the minimization of significant adverse effects on human health and the environment.... “(WSSD Plan of Implementation 2002)
- The agreed strategic approach includes:
 - High level ministerial declaration
 - Overarching policy strategy
 - Global plan of action (273 possible activities that may be voluntarily undertaken in implementing the SAICM)
- The ICCM will become a standing forum and will meet again in 2009, 2012, 2015 and 2020 to assess progress

- A (voluntary) policy framework to promote chemical safety around the world
- The Dubai Declaration - expresses the commitment to SAICM
 - Chemical Industry (ICCA) has built commitment
- The Overarching Policy Strategy - sets out the scope of SAICM
 - Risk reduction
 - Knowledge and information
 - Governance
 - Capacity-building and technical cooperation
 - Illegal international traffic
- A Global Plan of Action - sets out proposed “work areas and activities”
 - a working tool and guidance document.

- No formal procedures agreed
- Quick Start Programme – facilitates activities through “project funding”
- References to metals limited to “Mercury and other chemicals of concern”
- ICCM2 will develop procedures, examine reporting modalities and discuss emerging issues
- ICMM is committed to developing an “Action Plan”

- **A worldwide approach**
 - Aids efficient management of risks by industry and others
 - Avoids duplication, creates synergies, greater coherence
- **Based upon principles of Sustainable Development**
 - Ensure respect for environmental, economic and social issues in risk management.
- **A life cycle approach**
 - Creates appropriately weighted regard for production, use and end-of-life risks
- **Based on sound science**
 - Underpin all chemicals management policy and require risk based approaches
 - Principles behind MERAG / HERAG

Global Mercury Assessment

- General agreement that further long-term international action regarding mercury is required to reduce risks to human health and the environment
- Identified “Priority Areas” including
 - non-ferrous metals mining
 - atmospheric mercury emissions
- Examining scope for “legally binding” measures
- Strengthening of the UNEP Global Mercury Partnerships

Lead and Cadmium Assessment

- In progress – Final reports expected February 2009

Controls and restrictions imposed by customers as well as regulators

- Users of minerals and metals are looking further upstream
 - Examining life cycle impacts / burdens of materials
 - Pollution
 - Energy consumption
 - Codes of practice
- Examples include construction industry and electronics sector

Stewardship is the attribute (activity) of a steward who is:

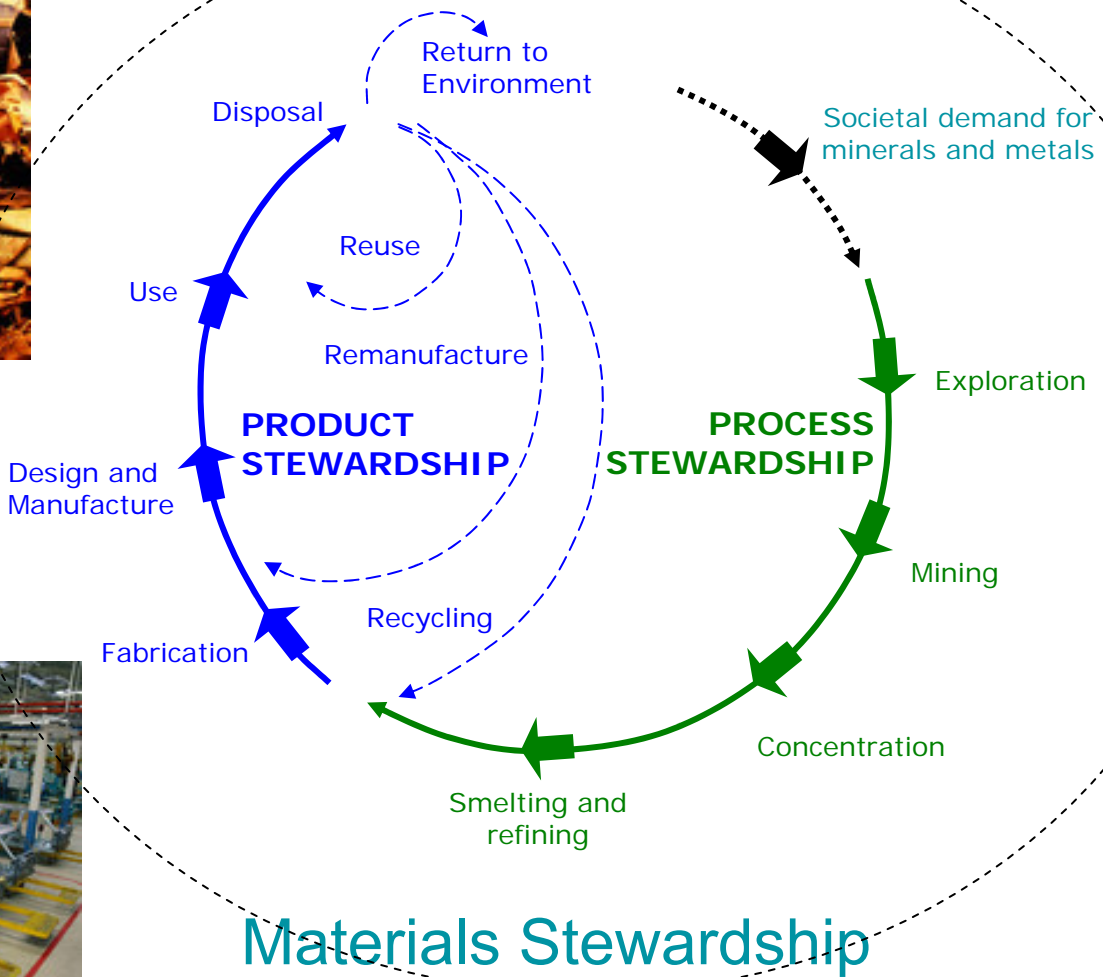
“One who actively directs affairs or one appointed to supervise provision and distribution of ... goods”

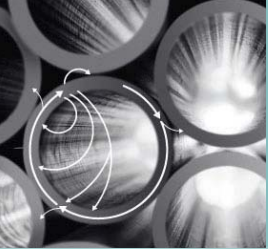
Materials stewardship is:

“The responsible supervision of material flows and their impacts on man and the environment”

“A shared responsibility for the performance of the whole materials cycle we are a part of, well beyond our direct operations”

Scope

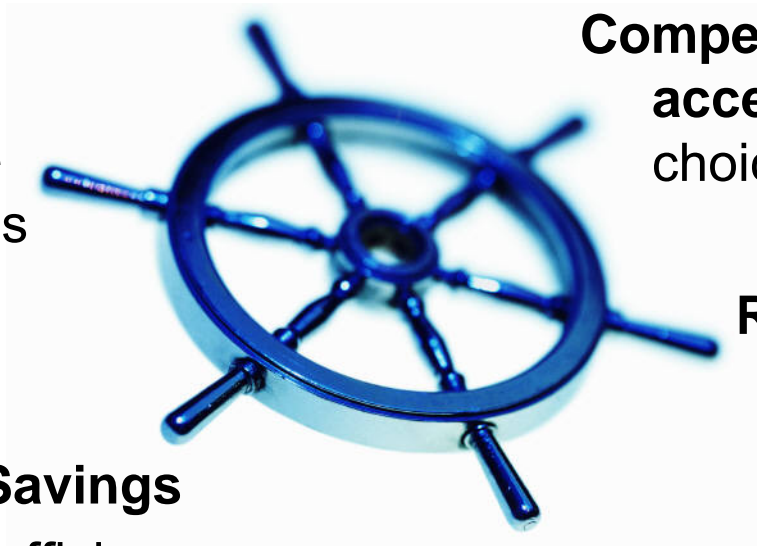




Public commitments ICMM - SD framework

Market Development
- sustainable materials

Cost Savings
- eco-efficiency



Competition and market access – materials of choice

Reputation –
Maintaining license to operate

Regulatory Compliance – stay in front of trends

- Materials stewardship means responsibly providing materials and supervising material flows to create maximum societal value and minimum impact on humans and the environment.
- 4 Key Themes »»»»

1. Take a Systems Perspective
 - Understanding material flows and life cycle benefits
2. Build new and strengthen existing relationships
 - Interacting with other players in the value chain
3. Optimize the production and application of minerals and metals
 - Implementing Eco-efficiency
4. Contribute to a robust, accessible base of information to support decision making
 - Transparent sharing and reporting of data and information

promote decisions, choices that lead us to

- use materials sustainably
- reduce negative environmental impacts through life cycle of materials
- preserve natural capital through lifecycle of materials
- account for economic efficiency
- improve social equity

MERAG: Metals
Environmental risk
assessment
Guidance

HERAG: Health Risk
Assessment
Guidance for
metals



THANK YOU

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