



COMMITTEE FOR MINERAL RESERVES
INTERNATIONAL REPORTING STANDARDS



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CRIRSCO activities UNECE Committee on Sustainable Energy

Roger Dixon

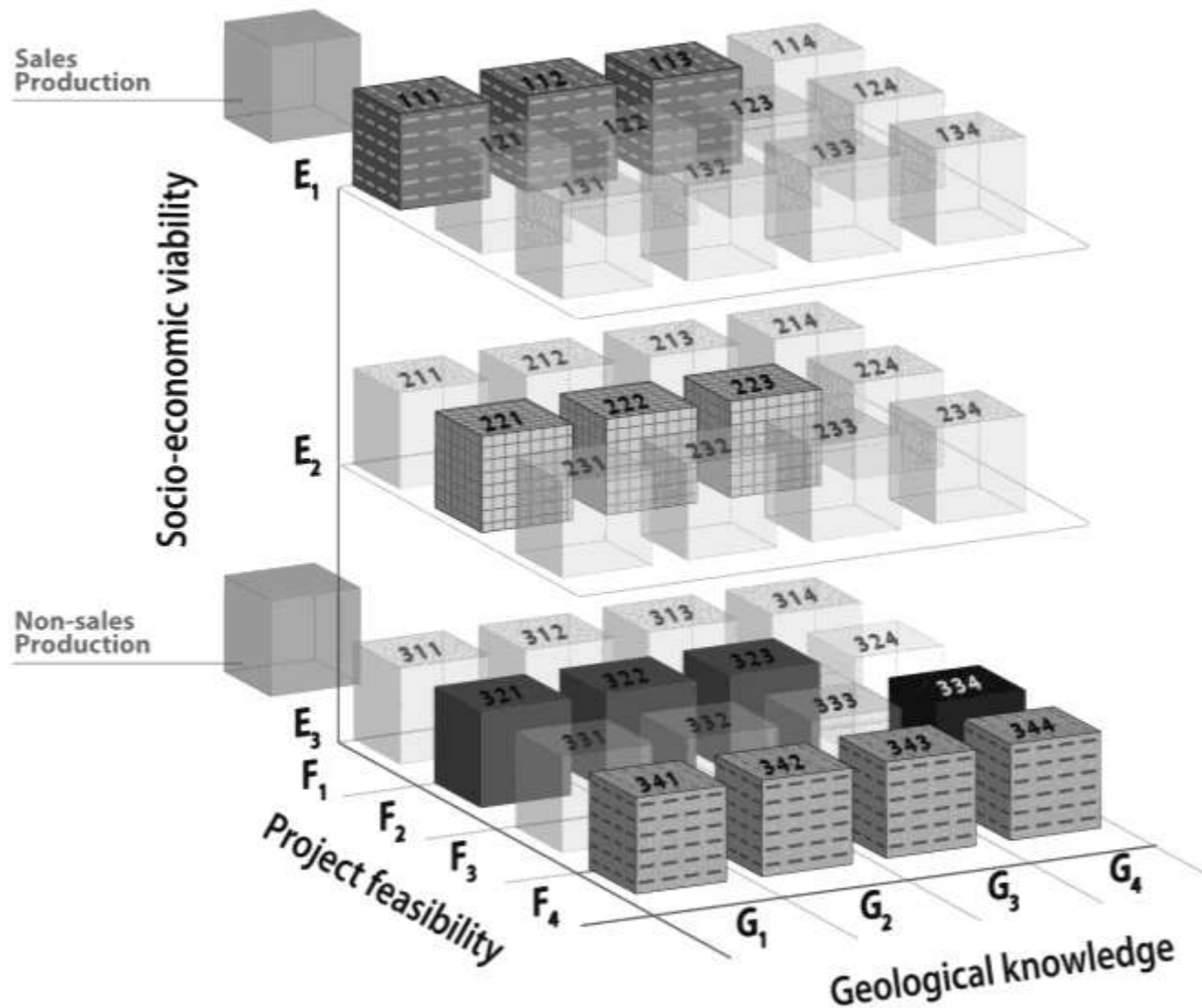
South Africa Representative, CRIRSCO

Bogota, Nov 20 2013



- Expert Group on Resource Classification (EGRC)
JR Dixon bureau member P Bankes alternate, S Henley Communications sub committee;
- Specifications Task Force (STF2) initiated in 2010;
- Attendance 4th Session EGRC Geneva April 2013
- Monthly telecon with bureau of EGRC
- Participation in UNECE workshops Santiago, Delhi

- Finalised April 2013 at Fourth Session of EGRC
- To be ratified November 2013
- Main Issue; duplication of commodity specific specifications CRIRSCO Template/PRMS;
- Effective Date and Reference Point in particular



Generic, Principle based

3 Axis

Economic,

Feasibility,

Geological

Numerical code

Applied directly or as harmonizing tool

CRIRSCO Template		UNFC-2009 “minimum” Categories			UNFC-2009 Class
Mineral Reserve	Proved	E1	F1	G1	Commercial Projects
	Probable			G2	
Mineral Resource	Measured	E2	F2	G1	Potentially Commercial Projects
	Indicated			G2	
	Inferred			G3	
Exploration Results		E3	F3	G4	Exploration Projects

G Axis

2004 - Stage of Exploration plus level of confidence

2009 – level of confidence in the estimate only

F Axis

2004 - Reserves F1 or F2

2009 - Reserves F1

Feasibility or pre-feasibility definitions dropped in 2009

- Environmental and Social Impact emphasis;
- IAEA Task Force mapping to Red Book;
- Renewable Energy Task Force;
- Technical Advisory Group (TAG); and
- Possible Financial Reporting Task force.

Funding of activities remains an issue

Ministry of Mines Government of India

Ministry of Coal Government of India

Federation of Indian Mineral Industries (FIMI)



Jointly in association with;

United Nations Economic Commission for Europe



United Nations Economic and Social Commission for
Asia and the Pacific



World Bank

Acknowledgements

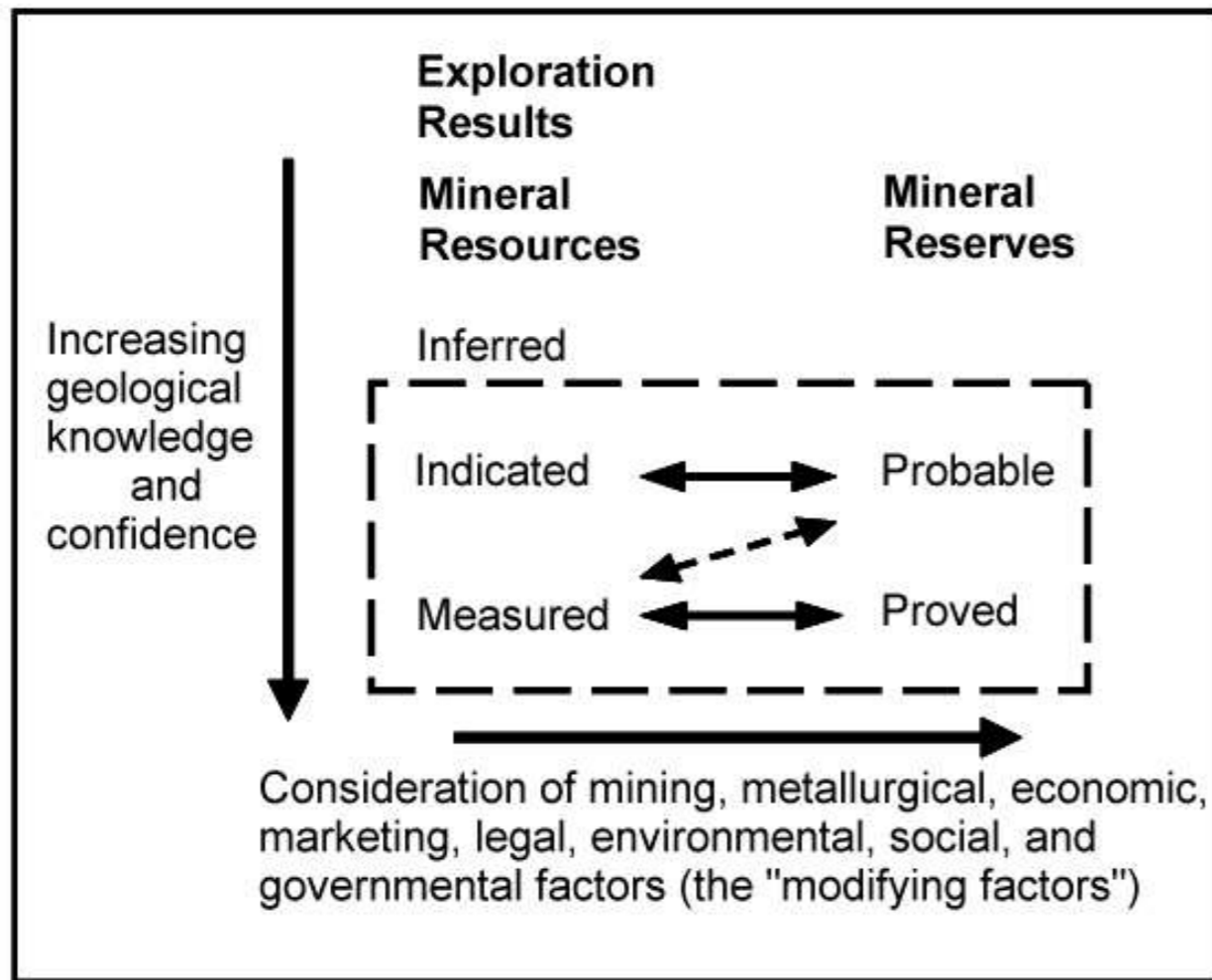


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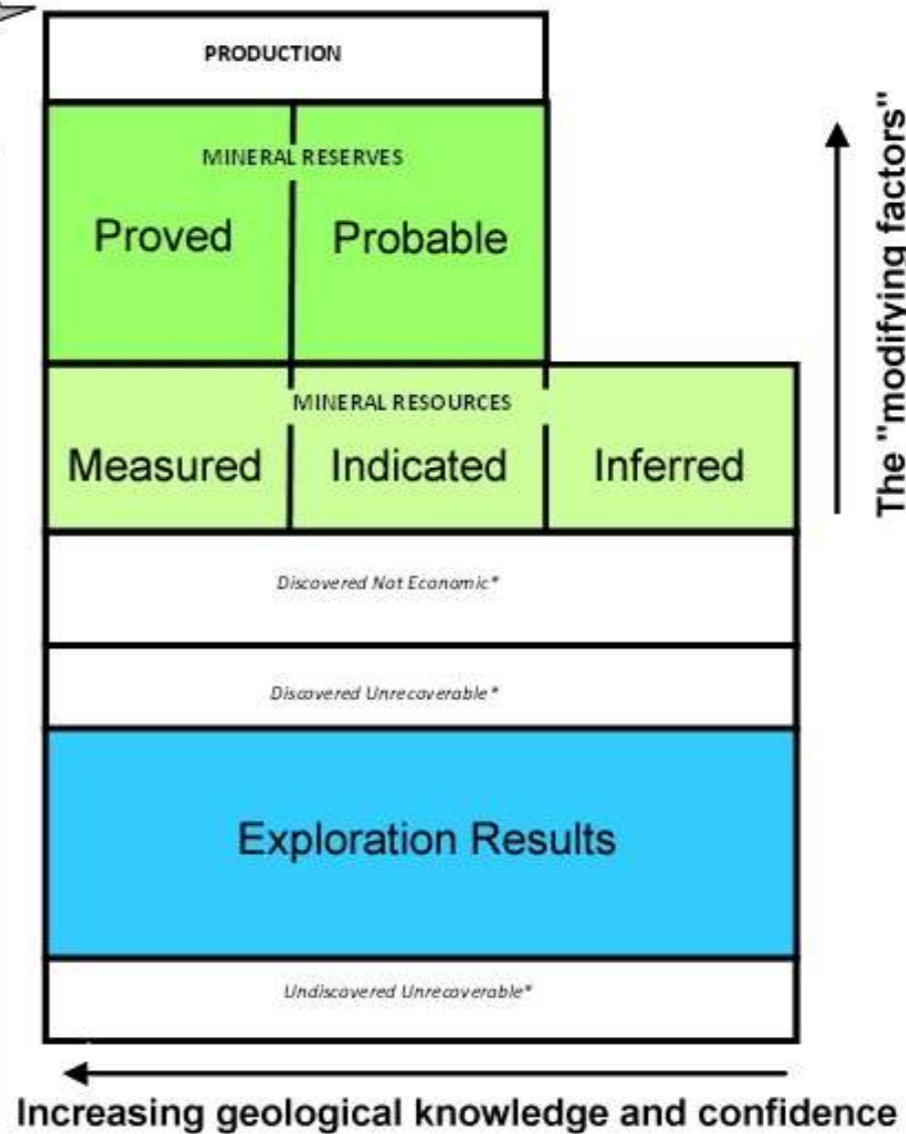
WWW.CRIRSCO.COM

CRIRSCO classification

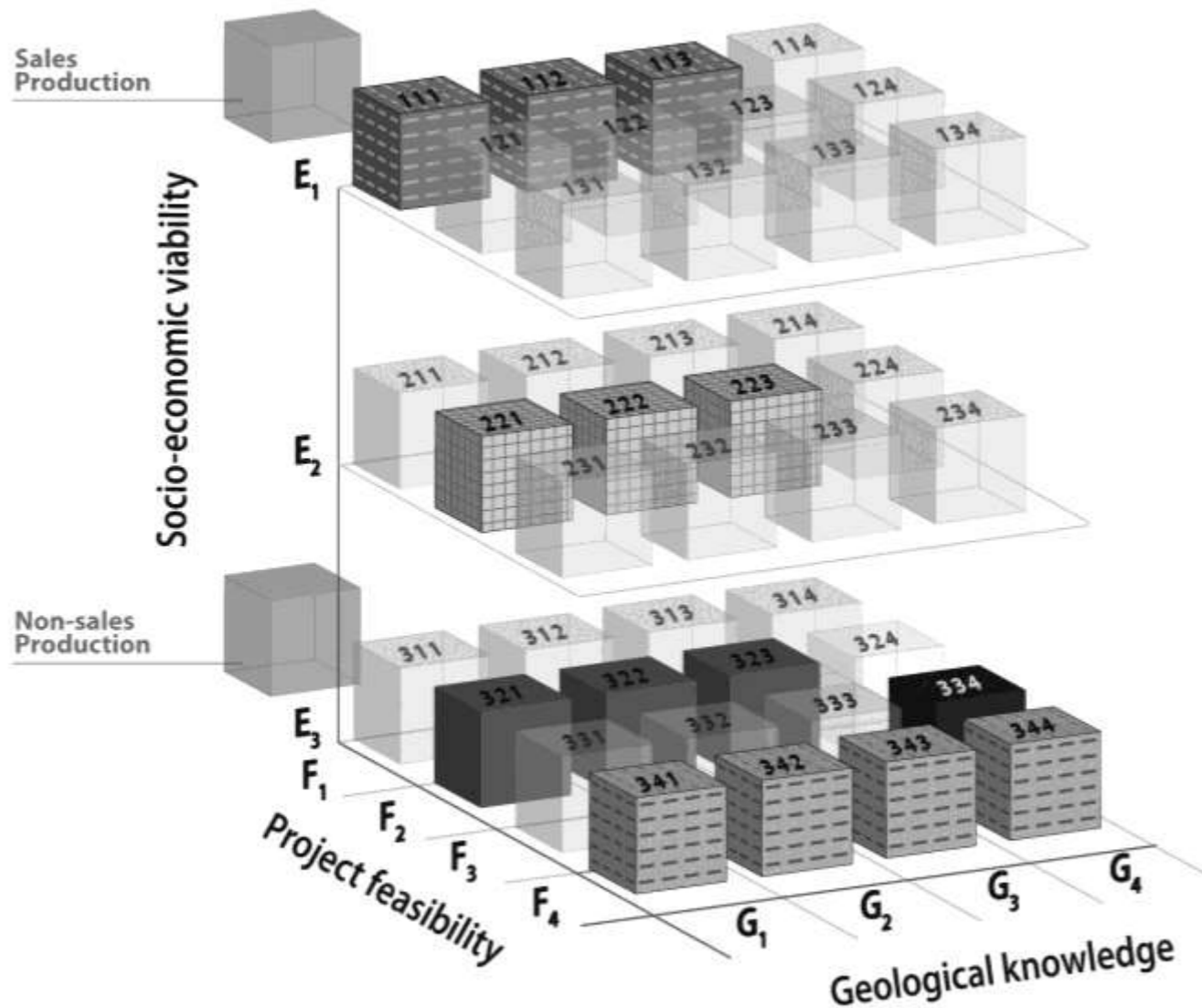
Re-oriented to align with Petroleum and UNFC



(a)



(b)



Generic, Principle based

3 Axis

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Total commodity initially in place	Production	Sales Production			
		Non-sales Production			
		Class	Categories		
			E	F	G
	Future recovery by commercial development projects of mining operations	Mineral Reserves	1	1	1,2
	Potential future recovery by contingent development projects or mining operations	Mineral Resources	2	2	1,2,3
		Discovered Not Economic	3	2	1,2,3
	Discovered Unrecoverable		3	4	1,2,3
	Potential future recovery by successful exploration activities	Exploration Results	3	3	4
	Undiscovered Unrecoverable		3	4	4