



**О процессе внедрения
международных стандартов публичной отчетности о
результатах геологоразведочных работ,
минеральных ресурсах и
минеральных запасах в Казахстане.**

**Implementation of international standards for public
reporting of exploration results, mineral resources and
mineral reserves in Kazakhstan.**

OVERVIEW OF CRIRSCO DEVELOPMENT

Chile/
 Certification Code
 for Exploration Prospects,
 Mineral Resources and
 Ore Reserves

Mongolia/
 The MRC
 Code

Kazakhstan/
 The KAZRC
 Code

**China
 India
 Argentina**

1994

2003

2013

2014

2015

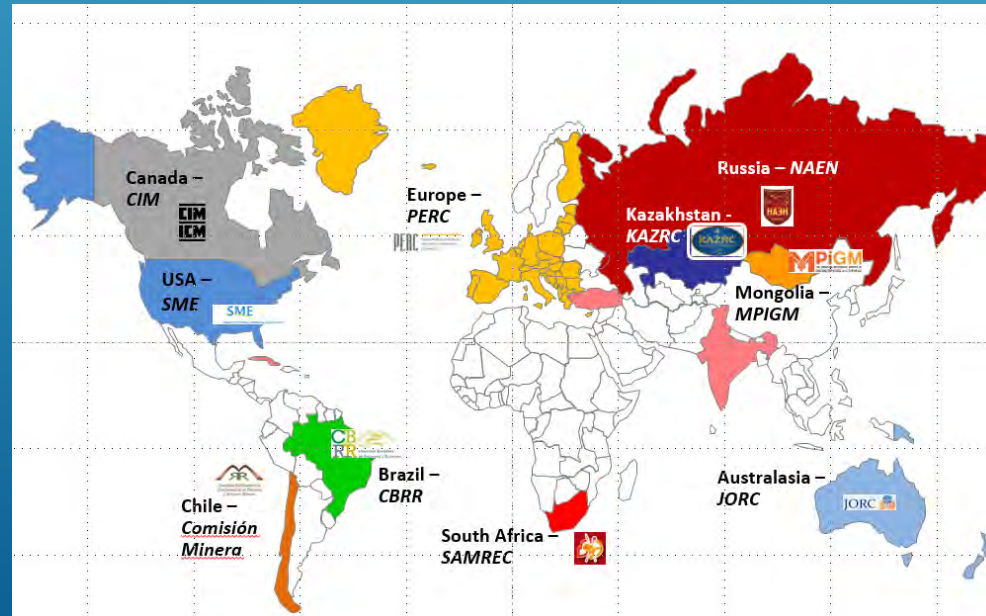
2016

CRIRSCO
 founding
 members:

Russia/
 The NAEN
 Code

Brasilia/
 The CBRR
 Guide

Australasia/
 The JORC Code
Canada/
 CIM Definition
 standard
South America/
 The SAMREC
 Code
United States/
 The SME Guide
Europe and UK/
 The PERC
 Reporting
 standard



CRIRSCO- ICMM



CRIRSCO formed an alliance in 2007 with the International Council for Mining and Metals and became a Task Force of that organization charged with promoting and maintaining best practice reporting.

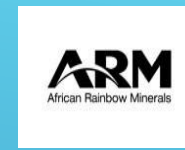
In October 2009, CRIRSCO became a Strategic Partner of ICMM.

ICMM is a CEO-led industry group that addresses key priorities and emerging issues within the sector. It seeks to play a leading role by promoting good practice and improved performance internationally and across different commodities.

ICMM provides a platform for industry and other key stakeholders to share challenges and develop solutions based on sound science and the principles of sustainable development. Its vision is for a respected mining and metals industry that is widely recognized as essential for society and as a key contributor to sustainable development

ICMM member companies operate in more than 950 sites in 58 countries around the world.

ICMM Member companies



The ICMM currently has 23 Member companies, representing most of the largest mining companies in the world, and 34 Member associations, including regional mining associations and regional and global commodity associations. Through members associations ICMM is connected to another 1,500 mining companies worldwide.

CRIRSCO Membership/Requirements for NRO

Reporting Standard

- Produce and maintain a reporting standard
- *Compatible with CRIRSCO template*
- *Recognized as the standard for Public Reporting or has wide support of local professional bodies*

**KAZRC
Code**

Consultation

- Consult other NROs before amending a reporting standard
- *Maintain alignment and consistency*

**KAZRC
Association**

Self-regulation

- Include credible self-regulating professional bodies
- *Provide codes of ethics and discipline*
- *Govern the behavior of Competent Persons*

PONEN

Engagement

- Active support for CRIRSCO activities
- *Two Representatives on CRIRSCO*

**KAZRC
Association**

PONEN

NRO STRUCTURE

Australasia



Australian Securities Exchange (ASX)

The Financial Services Institute of Australasia (FinSIA)

Kazakhstan



MICROMINE

PK Petro
Kazakhstan
Kumkol Resources

KAZZINC

Implementation CRIRSCO standard in Kazakhstan

**National Plan of 100
steps:**

**Step 74-
Implementation
CRIRSCO standard in
Kazakhstan**

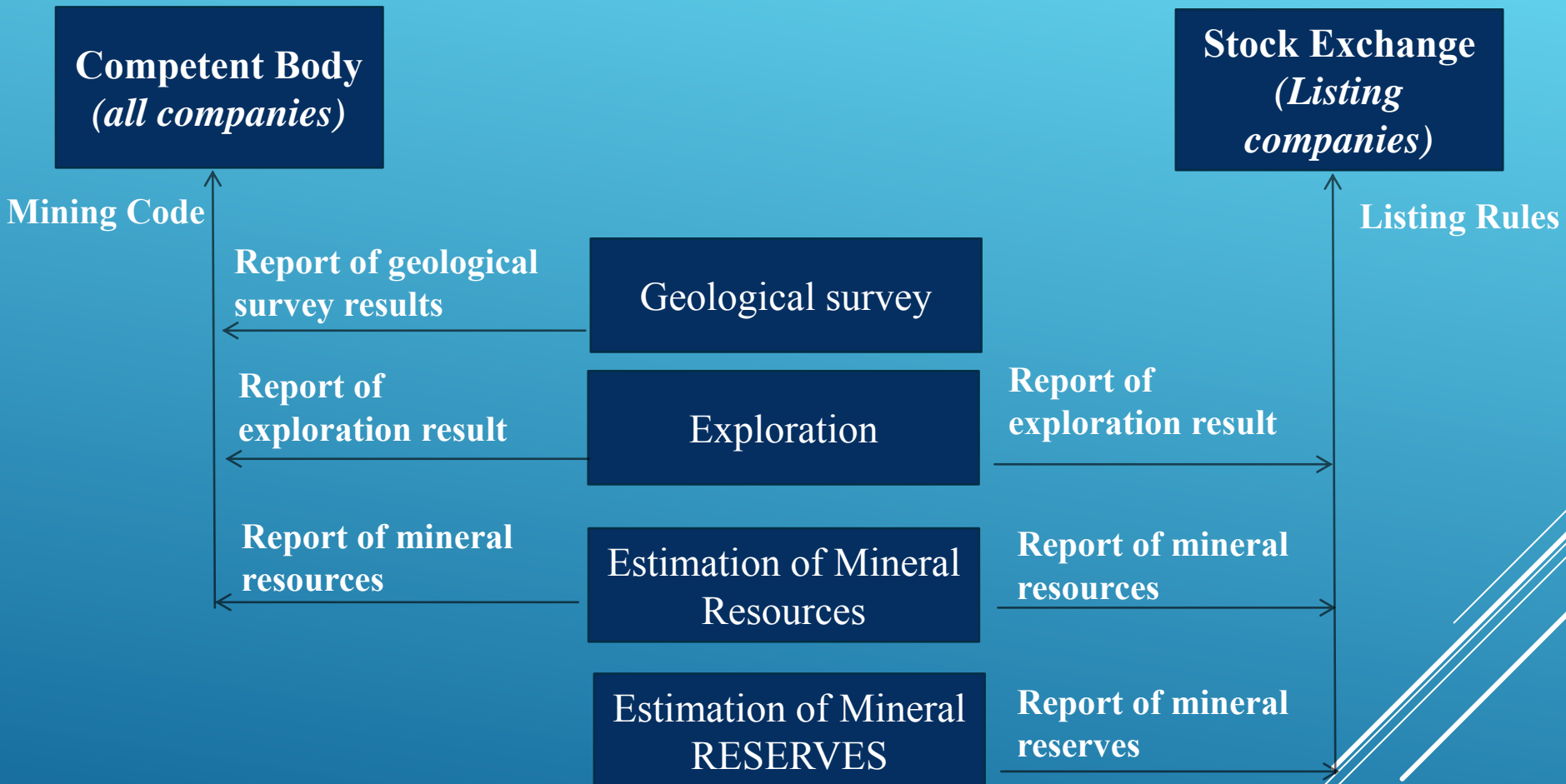
Step 75- Mining Code

**KAZRC Code
KAZRC Association
PONEN**

Training

KASE

Reporting of exploration results, mineral resources and reserves



Reporting definitions and classifications must be consistent for reporting and inventory for:

- Company level
- Country level
- Global level

TRAINING

- ▶ **Cooperation of KAZRC Association, PONEN, Kazakh Research Technical University**
- ▶ **Training program approved by KAZRC Association**
- ▶ **Trainers are PONEN members or members of foreign recognized professional organizations**
- ▶ **Companies should be focused on professional development of their specialists.**

44 specialists have been trained by the KAZRS standards since January 2017

Listing requirements for public reporting of mineral resources and reserves


Stock Exchange	CODE	NRO
AMEX, NYCE	SEC	SME, AIPG, MMSA, ASBOG, ROPO
TSX	Canadian National Instrument NI 43-101	CIM, APEG, PEG NAPEG, APEGM, ROPO
ASX	JORC	AusIMM AIG, MCA, ROPO
JSE	SAMCODE (SAMREC, SAMVAL)	SAIMM, GSSA, SACNASP, ECSA, PLATO, ROPO
LSE, AIM, FSA, CESR	PERC, JORC, CIM, SME, SAMCODE NAEN (AIM)	EFG, IOM3 IGI, GSL, ROPO
HKEx	JORC Canadian National Instrument 43-101 SAMCODE	ROPO для JORC, CIM, SAMREC
KASE	KAZRC, all CRIRSCO codes	ПОНЭН, ROPO

Recognized Professional Organizations (RPOs)

Australasian Institute of Mining and Metallurgy	AusIMM
Australian Institute of Geoscientists	AIG
Canadian Council of Professional Geoscientists	CCPG
European Federation of Geologists	EFG
The Geological Society	GS
Institute of Geologists of Ireland	IGI
Institute of Materials Minerals and Mining	IMMM
Mining and Metallurgical Society of America	MMSA
Society for Mining Metallurgy and Exploration	SME

CONCLUSION

Successful implementation of KAZRC / CRIRSCO standards in mining sector of Kazakhstan will contribute to investments inflow, technology transfer, professional development, increase of exploration work and discovery of new deposits.



THANK YOU
FOR ATTENTION!

