25th World Mining Congress
ASTANA 2018 • KAZAKHSTAN

Draft programme

bcsd Kazakhstan
Since 2003

Session: Delivering Business Solutions for Sustainable Mining

Section leader: Gulsara Edilbayeva, Chair of the Board of Directors, Kazakhstan Business Council for Sustainable Development (BCSD Kazakhstan, КАПУР)

General direction, goal: the world's leading manufacturers in the mining industry and international experts will share their knowledge and experience on sustainable development (SD). How does accounting for SD aspects support the stability of mining companies during the economic downturn? Global outlook of the Success Stories on SD specific aspects

Key points for discussion:

- Top-level mining corporation - is it only a commercial success?
- Business solutions for sustainable development in mining
- Circular Economy – the panacea for the criticality of mineral raw materials?
- Best practice approach for managing sustainable development in the mining sector.
- The introduction of sustainable development into the core of the business - what does this mean today?
- Innovative solutions for high-tech, efficient and environmentally sustainable mining
- Sustainable development impact on financial stability and risk management

PART I

TOP-LEVEL MINING CORPORATION - IS IT ONLY A COMMERCIAL SUCCESS?

10.00 - 10.15	Opening words and remarks Session Moderator: Topic for discussion: **Business solutions for sustainable development in mining**
10.15-11.30	Circular Economy – the panacea for the criticality of mineral raw materials? A European perspective. Speaker: **Roman Stiftner, Austrian Mining and Steel Association and Austrian Non-Ferrous Metals Federation** Panel discussion • Mining in Slovakia • Recycling - The future of the Mining Industry in India • Urban mining and sustainability: The reverse logistics of secondary resources in Brazil Speakers/ panellists: • **Juraj B. Durove, Technical University of KOSICE, the Slovak Republic**

	• **Mitra Ankan, Tata Steel Ltd India** • **Xavier Lucia Helena, Centre for Mineral Technology, Brazil**
11.30– 12.00	Coffee break
12.00-13.00	**Best practice approach for managing sustainable development in the mining sector. Case studies** Presentations of the following topics: • Legal Amazon: analysis of the socioeconomic performance of municipalities collecting Paraenses and non-collectors of royalties, year 2013 • Development of Sustainable Mining Framework: A Case Study of Goa Mining Region • The Development Partner Framework: a fresh approach and principles for mining companies to secure, nurture, and revitalize their social license to operate. • The ecological-economic assessment for open-pit coal mining process of Mongolia Speakers/ panellists: • **Oscar Borja, Vale S.A. Brazil** • **Gurdeep Singh, Indian Institute of Technology (Indian School of Mines), Dhanbad** • **Tyrrell Wendy, Development Partner Institute, UK** • **Shagdar Khattar, School of Geology and Mining Engineering, Mongolian University of Science and Technology**
13.00–14.00	Lunch

PART II

THE INTRODUCTION OF SUSTAINABLE DEVELOPMENT INTO THE CORE OF THE BUSINESS - WHAT DOES THIS MEAN TODAY?

14.00-16.00	Welcoming the second part of the session (a moderator) **Innovations** Panel discussion with presentations We will discuss how OECD and non-OECD countries with significant mining sectors are supporting the uptake of more sustainable technologies and practices in the mining sector: • Policies to support sustainable practices and green innovation in mining • Impact Analysis of mine development impact on national economy (computer) • Improving mining project development and operational performance through advanced simulation • Agromineria, agriculture and mining in Peru • Common factors and conditions for the transition to a new techno-economic paradigm of sustainable functioning of mining systems • The use of multisensor remote sensing data in the whole mining life cycle - from exploration of raw materials to sustainable development of mine sites • Involvement of poor ores in production. Extended resource base experience of the

	enterprise in Kazakhstan Speakers/ panellists : • **Guy Halpern, OECD Green Growth and Global Relations Division** • **Hosoi Yoshitaka, Japan International Cooperation Agency** • **Talikka Matti, Outotec, Finland** • **Mucho Romulo, PEVOEX CONTRATISTAS S.A.C., Peru** • **Rylnikova Marina, Institute of Comprehensive Exploitation of Mineral Resources, Russia** • **Glaesser Cornelia, Martin Luther University Halle, Germany** • **Oleg Telnoi, Kounrad copper company LLP, Kazakhstan**
16.00-16.30	Coffee break
16.30-18.00	**Sustainable development impact on financial stability and risk management** Panel discussion with Q&A session We give the voice to the companies, organisations and regions, where we may have little information on in regards of sustainable development. The lack of information does not mean that there are no success stories. How to expand the family of companies speaking the same language - the language of sustainable development of the mining industry? • Strategic Measures in Sangan Iron Ore Mines Based on Sustainable Development Indicators and Stakeholder Surveys • The quantitative impacts of royalties on a sustainable mine plan • UNECE develops a new standard for assessing raw material quantities from secondary sources • Comprehensive R&D services to enhance management of mining and post-mining resources linked to sustainability rules • Financial and non-financial reporting – do we achieve synergy? Case studies of mining companies in Kazakhstan Speakers/ panellists: • **Amiri Ravanbakhsh, Zarshouran Gold Mines and Mineral Industries Development Company, Iran** • **Rahmanpour Sanam, University of Tehran, Iran** • **Kral Ulrich, Technische Universitaet Wien, Austria** • **Jan Bondaruk, Central Mining Institute, Poland** • **Galina Artyukhina, Business Council for Sustainable Development for Kazakhstan, BCSD Kazakhstan**
18.00–18.30	Open discussion
18.30–19.00	Closing remarks and summary of the day

Contacts:

Gulsara Edilbayeva, BCSD Kazakhstan, Chair
+7-701-711-8998, g.edilbayeva@vistasia.kz

Galina Artyukhina, BCSD Kazakhstan, Executive director
+7-701-711-6785, gartyukhina@kap.kz