VISION ZERO.

The New Global Strategy for Safe Mining



Helmut Ehnes - BG RCI



















BUT MINING HAS OTHER FACES





















LET'S TALK ABOUT SAFETY



2 Million

work-related fatal diseases

340 Million

work accidents worldwide

360.000

fatal accidents at work

4.0%

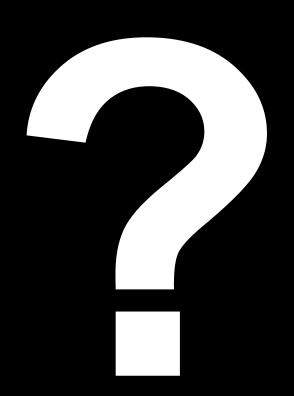
economic loss worldwide - annualy

Mining:

The fatality rate of miners is



higher



We need a strategy!



We need a strategy!





The Story of

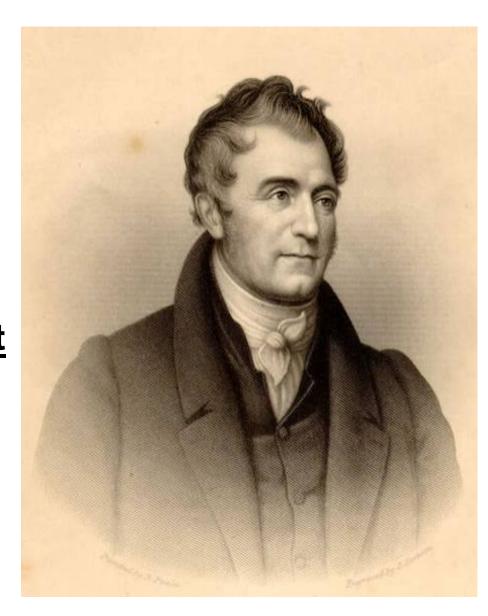
VISION ZERO.



<u>1811</u>

As consequence after severe explosions of his powder mills in Wilmington (USA), Eleuthère Irénée du Pont

- made his managers responsible!
- defined safety rules!
- improved technology!





VISION ZERO.

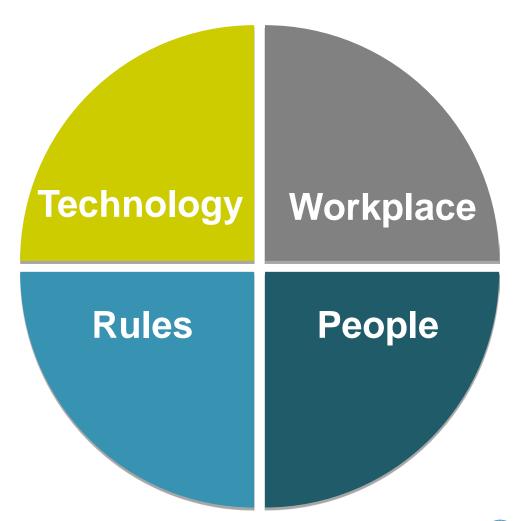
DEFINITION:

"Vision Zero is a prevention strategy for a safe future without fatal or serious occupational diseases, work accidents and traffic accidents in mining."

VISICA ZERO. Fields of Action



Fields of Action for VISION ZERO





VISION ZERO.

Illusion?
or
Mission possible?

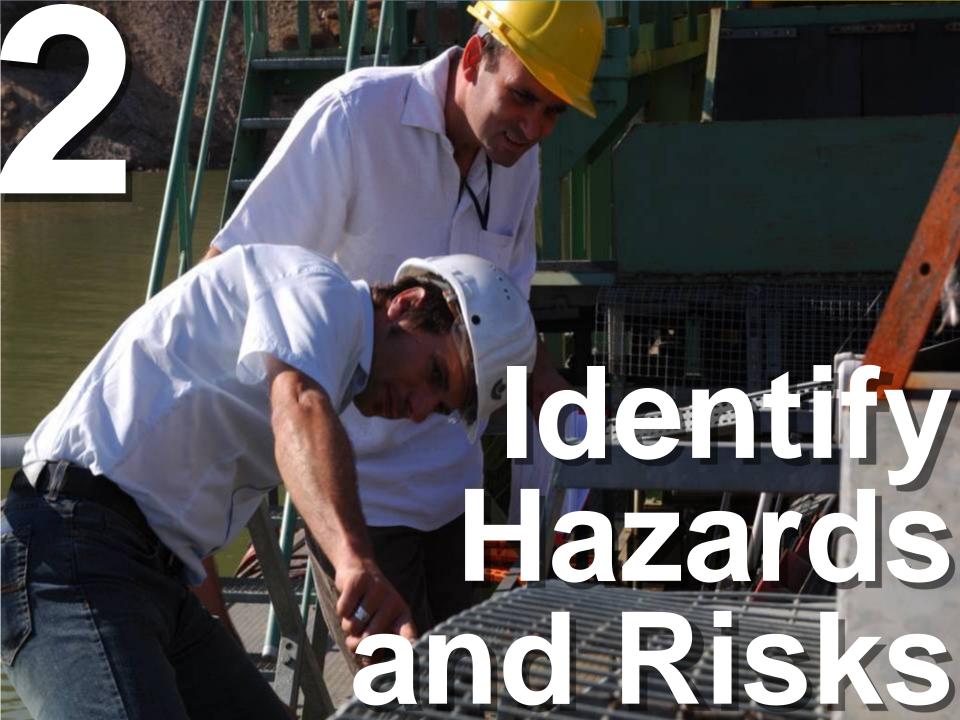




SEVEN GOLDEN RULES

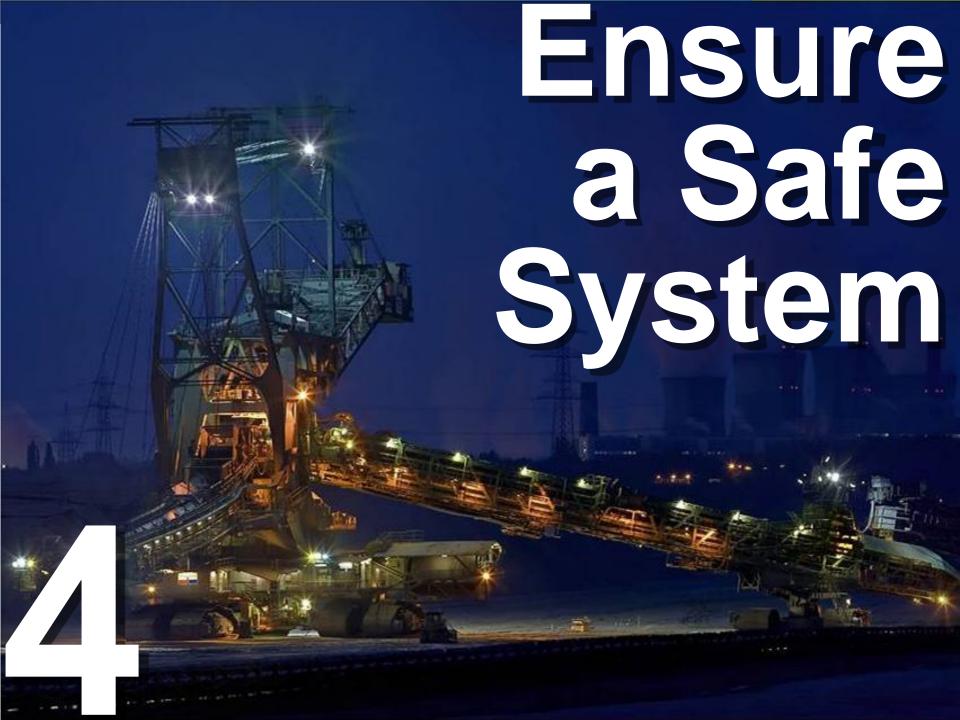
VISION ZERO.







Set Targets for Safety



Use Safe & Healthy Technology

















7 PEOPLE

6 COMPETENCE 6

5 TECHNOLOGY 5 TECHNOL

4 SAFE SYSTEM 4 SAFE SYSTEM 4

3 TARGETS 3 TARGETS 3 TARGETS 3 TAR

2 RISK ASSESSMENT 2 RISK ASSESSMENT 2 R

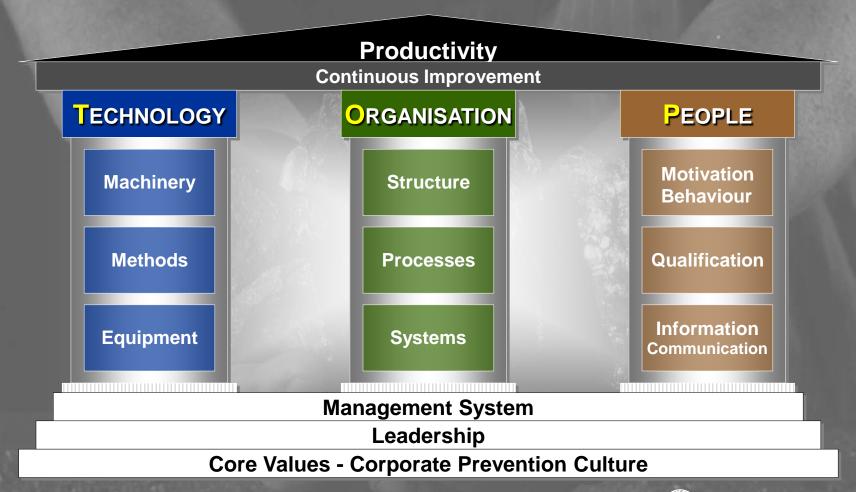
1 LEADERSHIP 1 LEADERSHIP 1 LEADERSHIP 1 LEA

VISION ZERO.

Success!



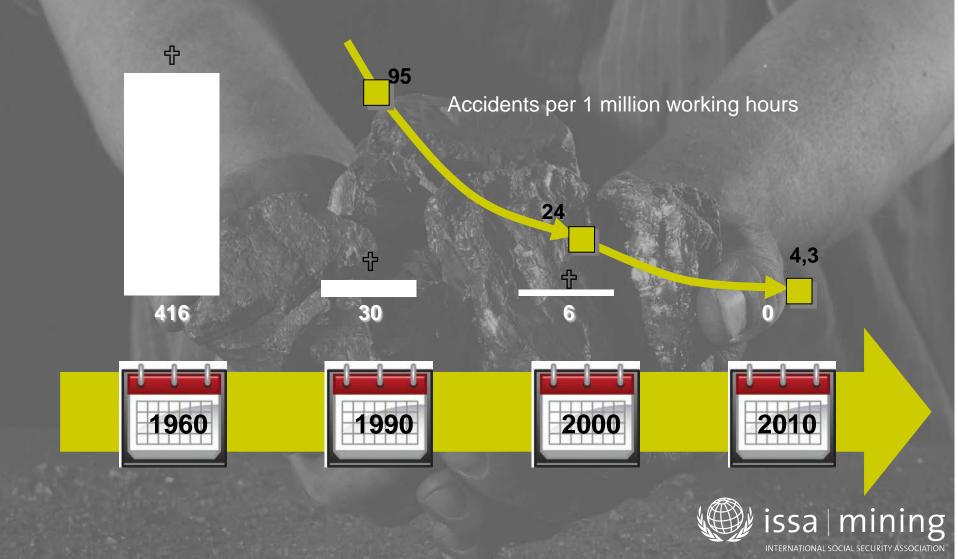
SUCCESS: RAG 3 Pillar TOP-Model





SUCCESS: TOP- Model of RAG

(German Hard Coal Mining Company, 30,000 employees)





SUCCESS: Value of Companies

(Results of a Study from German Universities and the Value Group GmbH)

"The value of companies, investing in people, is benchmarked by

40 %

better than that of others."



SUCCESS: Return on Prevention

(Results of an ISSA research project)

ROP = 2.2

Each Euro invested in occupational safety and health generates a potential for increased commercial success of 2.20 Euro.







CULTURE OF PREVENTION





International Sections for Prevention of ISSA



13 International Sections of ISSA on Prevention of Occupational Risks

- Financially independent
- Own membership
- Key actors of ISSA's prevention programme
- Organized in industrial branches







Chemistry



Culture of prevention



Construction



Education



Electricity



Health



Information



Iron and Metal



Machine and System



Mining



Research



Transport







13 International Sections of ISSA on Prevention of Occupational Risks

- Financially independent
- Own membership
- Key actors of ISSA's prevention programme
- Organized in industrial branches















Chemistry







Education

















Transport





- Safety and health in mining
- Independent and international
- Non profit organisation
- Worldwide platform
- All mining industries





Aims



Aims of ISSA Mining

- Protect miners from accidents and damage to their health.
- Support employers and managers in their responsibilities.
- Improve social security in mining.
- Care worldwide for acceptable working- and social conditions.
- Influence OSH politics on a global level.





Structure



Structure of ISSA Mining

BOCHUM OFFICE, GERMANY Membership

and accounting

BOARD

Vice Presidents President Secretary General

ADVISORY BOARD

SENIOR EXPERTS

MEMBERS

ORDINARY MEMBERS CORRESPONDING MEMBERS

LANGENHAGEN OFFICE, GERMANY

Media and communication

EXPERT MEMBERS

Structure of ISSA Mining: Board

President



Theodor Bülhoff

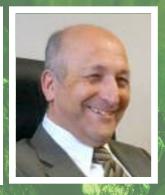
Vice-Presidents



John McEndoo



Bui Hong Linh



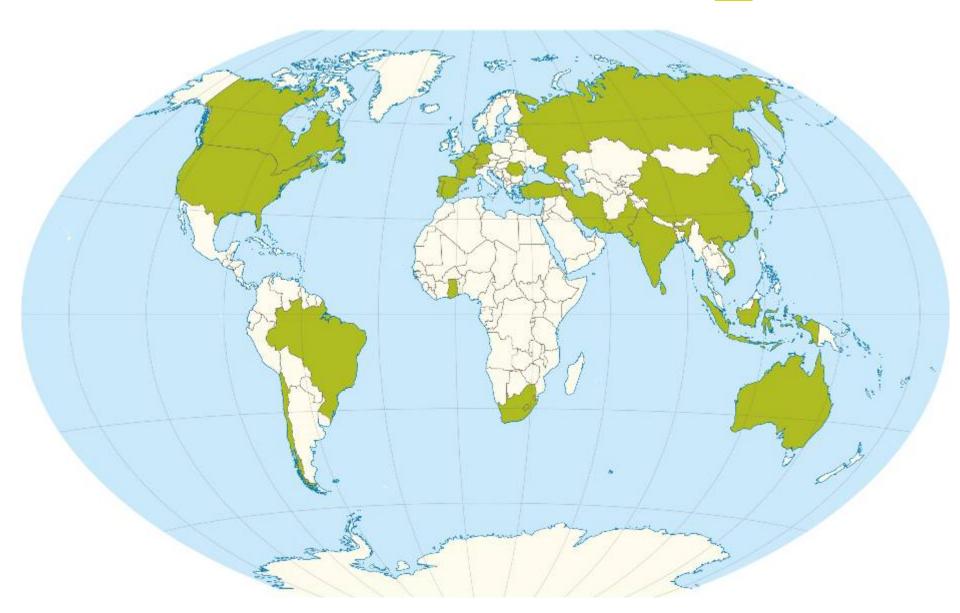
Peter Schrimpf

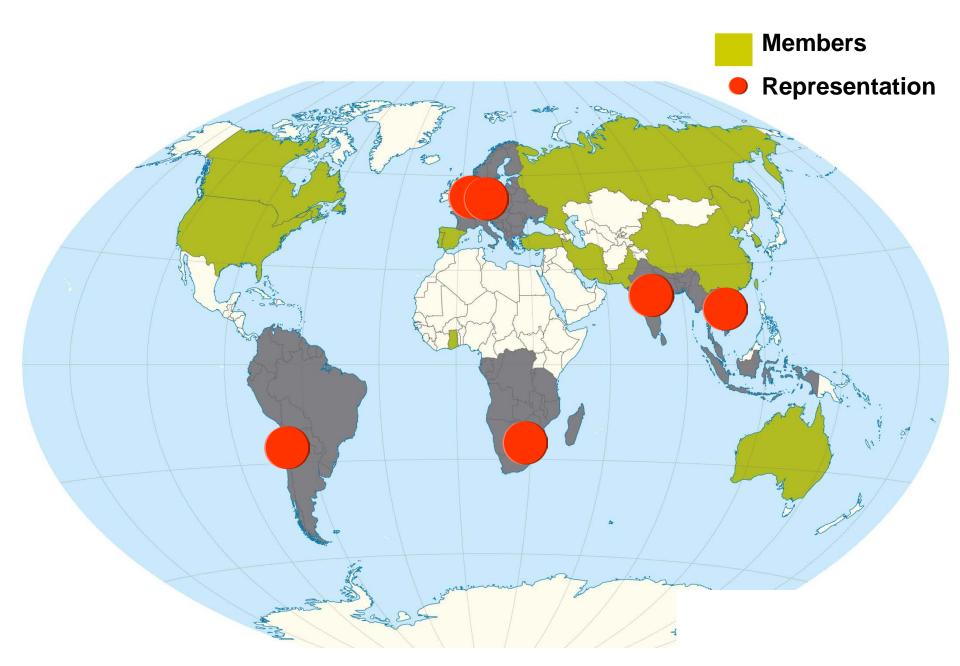
Secretary General



Helmut Ehnes

Members







Fields of Action



Fields of Action of ISSA Mining

OSH politics



OSH management system and OSH organisation

Safe mining technology

Dust, noise, vibration and chemical agents

Health protection





Education and training

Mine rescue

Risk assessment

Safe behaviour

Personal Protective Equipment (PPE)



Advice on Accident Insurance, Compensation, Prevention





Tools



























KAILUAN GROUP



ICMM International Council on Mining & Metals

GLOBAL NETWORK



Conferences and Workshops

- Da Lat, Vietnam
- Beijing, China
- Brussels, Belgium
- Hanoi, Vietnam
- Seoul, South Korea
- Xiamen, China
- Ankara, Turkey
- Yekaterinburg, Russia
- Zonguldak, Turkey
- St. Petersburg, Russia
- Lima, Peru
- Bytom, Poland

- Asunción, Paraguay
- Da Nang, Vietnam
- Johannesburg, South Africa
- Windhoek, Namibia







Emergency Escape Systems in Underground Mining International Symposium in Bejing - China 2011

ISSA MINING MINE RESCUE

Symposium on Emergency Escape Systems: Criteria of Comparison



Mine Rescue Self Rescue



Fire Protection











ISSA MINING NEWSLETTER



Feature

New representative for India region: ISSA Mining welcomes Mining Engineer Chetan Garg

As of November 2812, Mr Chetan Garg from Machya Pradesh, India, supports ISSA Mining's work in the India region. A graduate of the Indian School of Mines in Dhentsad and beneficiary of a full scholarship of the European Mining Commission, Mr Garg is currently working for Golder Associates in Gurgaron and brings experience from various international projects into ISSA Mining.

An initial meeting with ISSA Mining's team around board members Theodor Bülhoff and Helmut Ehnes on 5 November in Langenhagen/Germany, followed by a study tour with sentor maining experts formed the platform of Mr Garry's future work for the international network aiming to improve mine safety.

The consecutive day led the Mining Engineer from India to Ladenburg/Germany, where mine rescue manager Wolfgang Roefil introduced him to the task force rescue operations on the occasion of a line manager meeting. Mine Rescue, crucial for the life of many miners, particularly relies on dialogue on best practice in emergency response and transnational collaboration. A site visit to the Ladenburg facility of TOTAL Feuerschutz GmbH, producer af fire protection technology including a live demonstration, proved to be another informative change to enter exchange with suppliers of fire

protection equipment, respiratory devices and rescue equipment.

Hans-Joachim Kelter, Health and Safety Manager of Lafarge Cement in Wossingen gladly welcomed ISSA Mining Senior Espert Gerhard Czuck and Mr Garg on 7 November. Mr Kelter comprehensively presented the state-of-the-art health and safety concept of the internationally operating enterprise and led a guided tour through the plant along the material flow. The thermal use of recycling material found particular internal.

Meeting ISSA Mining Senior Expert Methias Stenzel, an introduction to mining in the Ruhr area was on the agends — the heart of

Mr Chetan Garg shares his background with the readers of the ISSA Mining Newsletter

Lam a Mining Engineer and MEA from India's Most prealigous mining across, the fession Bichock of Mines' with a vest exposure to Indian mining Industry, and international with variety of mining Niemetals, hard rock, theritail coel and colong coal. Currently farm working with Gridder Associates as a consultant and a associate of SME. My international experience includes working in Middle Est, Sortian, Jumbs, China, Turkay and Europe (around 12 countries). My area of Mining withing that been working from banks side for feasibility reports. Tenders consultant and safety audits (internal and external). My interest areas are policy, rules and regulations for the mining Industry along with technic commercial devisionment.

German coal mining. This included a plant tour to the Garzweller open cast lighte mining operations, run by RAKE Power AG and a visit to the Auguste Vicoria underground mine of RAG with their internationally acclaimed high standards on safety and health.

Looking at the level of every miner's qualification and the commitment of RAG's management in aspects of safety, the outstanding safety record did not come as a surprise!

"Our exchange on mine safety has been very insightful for both sides," surmarized Matthias Svenzel, who is looking back on decades combine his mining expertise and regional touch in this important mining region with our well established network. Our future collaboration bears a vast potential for increasing safety by learning of each other." the Secretary General expressed his optimism.

"After intense discussions on ISSA Mining tools and strategies, I am not returning only to represent this important organization in my home area, but also will take with me important impulses on modern safety management," Mr Garg commenced on his stay.



heoder Bizhni the future larg.

issa

MICHARDONA SDOM SECRETA MISCORTON

Section on Prevention in the Mining Industry

NEWSLETTER | # 5 | March 2013

Vietnam: MoU extended, conferences on high risk industries PAGES 2+ 10

Closer ties to Turkish mining PAGE 9

00

Focus on Indial PAGE &

PAGE

PAGE

shirg:







A recommendation by



Safety and Health in Underground Mining Operations











A recommendation by



Organisation of Occupational Safety and Health







A recommendation by



INTERNATIONAL SOCIAL SECURITY ASSOCIATION

Section on Prevention in the Mining Industry

ISSA MINING RECOMM



IMSA - Independent Mine Safety Audits

Aims

- Feedback and consulting from international expert team
- Improve safety and health in mines
- Increase economic performance

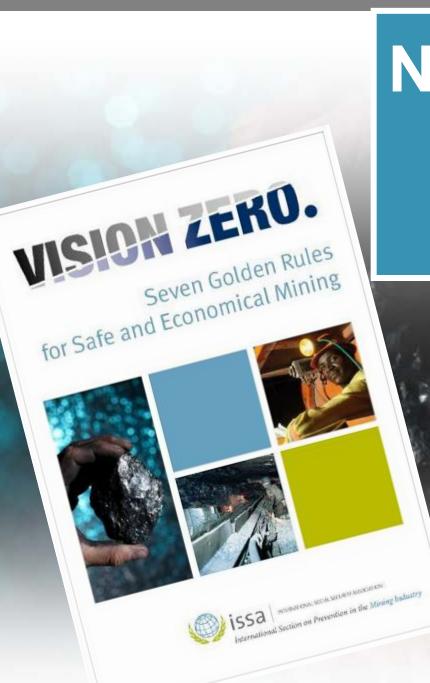
Partners of the Pilotproject

Türkiye Taşkömürü Kurumu TTK, Turkish Ministry of Labour and Social Security, ISSA Mining









New: Seminars on Vision Zero 7 Golden Rules





New: Seminars on Vision Zero 7 Golden Rules

Structure

- Principles
- Arguments
- Implementation
- Good Practice
- Checkpoints



Promoting and Devel Social Security World

ISTANBUL 2011 - TURKEY

Site map | Advanced

aty and Health a

ABOUT ISSA

www.issa.int/prevention-mining Homepage / About ISSA / International Prevention Sections / Section or ABOUT ISSA

Mission Governance and leadership

ISSA Secretariat ISSA Members

Liaison Offices and Technical

Advisers

Technical Commissions International Prevention

Sections

ISSA History

Join the ISSA

Contact ISSA

Partner Websites

Chemistry

Construction Industry Education and Training

Agriculture





E EMAIL



I PRINT A A TEXT SIZE

International Section of the ISSA on Prevention in the Mining Industry

The aim of the International Section of the ISSA on Prevention in the Mining Industry is to further and to improve social security in mining worldwide.

External links Announcements About Events Membership Resources

XIX Wong Corres



The International Section of the ISSA on Prevention in the Mining Industry publishe newsletter. If you would like to subscribe this free service, please register by send e-mail to us.

Members of the Section on Prevention in

ISSA MINING



TURKEY

MOU with Turkish Ministry of Labour and Social Affairs on Mine Safety,

January 2013



MONGOLIA

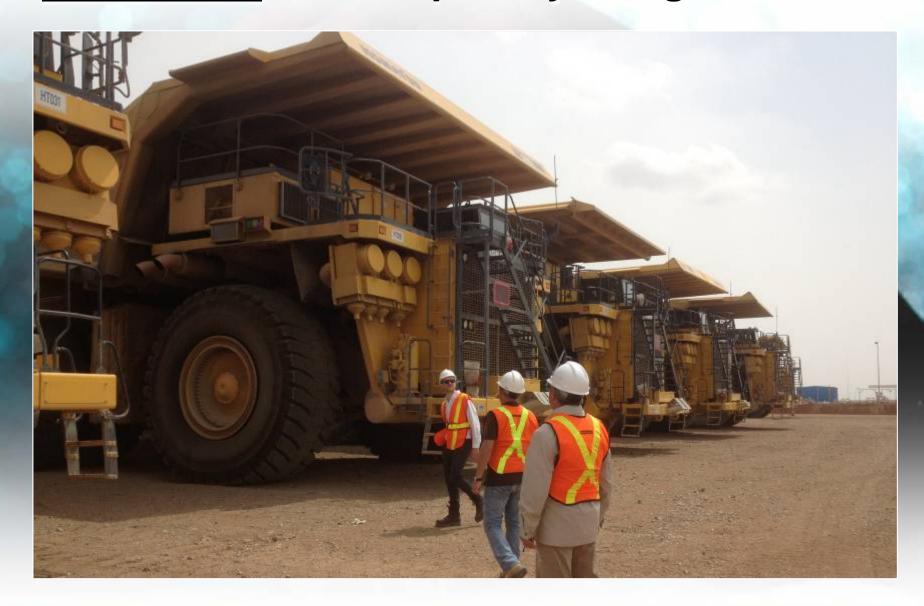
OSH Conference & Exhibition

German – Mongolian Corporate Days Ulaanbaatar, 6 and 7 May, 2013



23 exhibitors, 340 expert visitors

MONGOLIA: Field trip to Oyu Tolgoi



VIETNAM

Workshop: The Role of Labour Inspectors for Promoting Proactive Prevention

Da Nang, 16 – 17 July 2013





Exponor Antofagasta





GERMANY

Study Tour: Delegation of Turkish Mining University Soma, July 2013



GERMANY

Study Tour for a Delegation from Vietnam



CANADA World Mining Congress Montreal August 2013



CANADA

International Mine Rescue Board Biannual Conference

Niagara Falls & Sudbury, October 2013

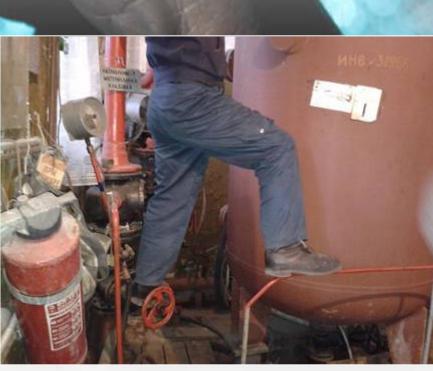


UKRAINE

Workshop: Vision Zero & 7 Golden Rules

with ILO - October 2013







Future Plans



Extend and intensify our Global **Network on all Continents** Future Plans

Future Congresses and Events:

- Co-Organizing XX. World Congress on OSH, Frankfurt, Germany, August 2014
- Strategy Workshop & Study Tour, Germany, August 2014
- International Mine Rescue Conference, Hannover-Lübeck-Berlin, Germany, September 2015

Future Plans

Analyze Possibilities and Create a

Global Mining Award

for Best Practice in Safety and Health

Future Plans



www.issa.int/prevention-mining helmut.ehnes@issa-mining.org

