



# MINING INJURIES

## Effects of legislative changes

Photo : Hadži Miodrag Miladinović



## Original Study

- Study conducted in 2010 – 2011
- Covered all 8 mines of JP PEU and 10 years period
- ~ 5000 employees
- High risk compared to other (UG) mines
- Relatively high number of injuries
- Aim:
  - Identify weaknesses (organizational and technical)
  - Incidence (Injury) rates and distribution
  - Criteria: Severity, age, location, time, education...



## Results

- Injury – Unpredictable random event
- > 70% of injuries – limb injuries
- ~ 40 % during the morning shift ( 22% night)
- ~ 36 % of injured miners aged 31 – 40
- No feedback from medical institution
- No national agency



## In the meanwhile... Government

- \* Strategy on safety and health at work (2013)
- \* Action plan on the Strategy enforcement
  - \* Occupational safety and health act (2005, am. 2015)
  - \* Guide on risk assessment (2006, 2010, 2015)
  - \* Rulebook on the methods and procedures of risk assessment at workplace and work environment (2015)
  - \* Rulebook on pre-employment and periodical medical examination of employees at increased risk positions (2007, 2008, 2017)
  - \* Rulebook on composition and procedure of issuing occupational injury and professional illness report (2006, 2016)



## In the meanwhile... JP PEU

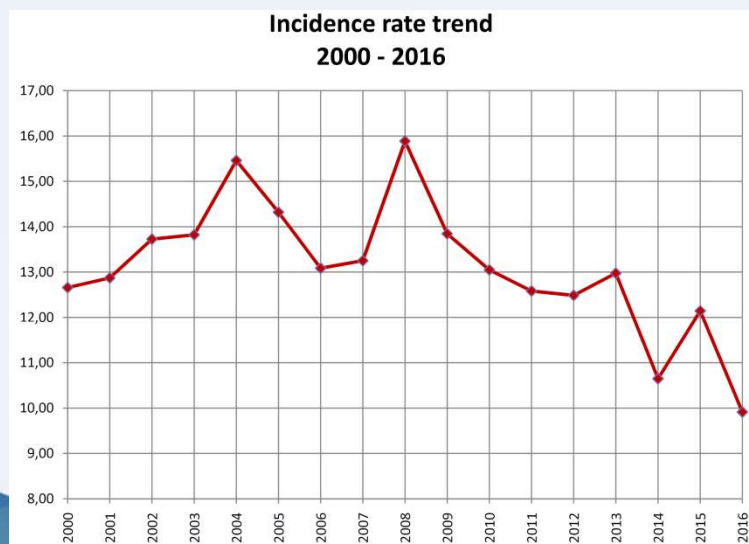
- Actively followed legislation changes
- ISO 14001 and OHSAS 18001 (2008 – 2009) certified by Lloyds in 2010
- Risk assessment at mines and definition of increased risk work positions
- Medical examinations in accordance to Risk assessment act
- Number of miners withdrawn from increased risk positions and allocated to lower risk or no risk workplaces.
- Training campaign, air quality and ventilation monitoring systems, equipment inspection etc.





## New study - comparative

- Covered shorter period: 2010 - 2016
- The same methodology
- Results (average over the period):

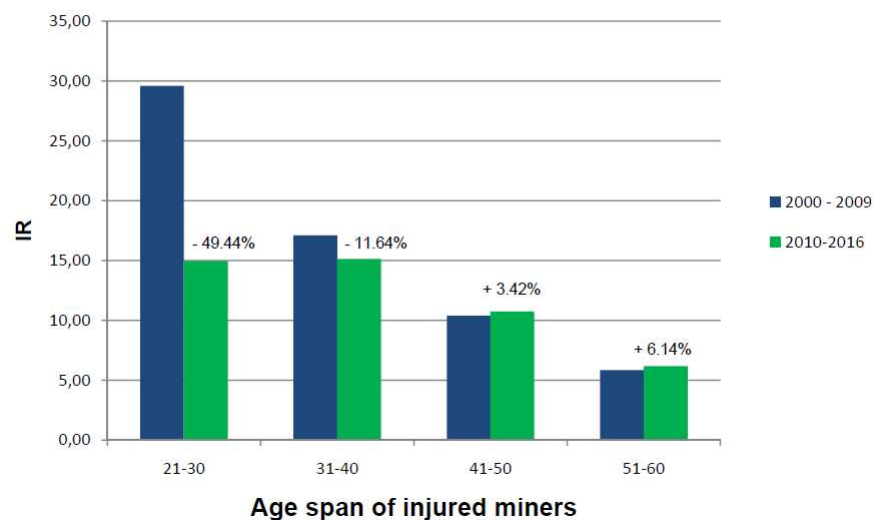


- In general, noticeable decreasing trend
- 18% drop in NDL injuries (NDL – 90% of all injuries)
- 46% drop in Fatal injuries



## New study – Instead of conclusion

Average IR according to age



- Still high number of limb injuries
- Still no clear and precise feedback from medical institution
- Still no data on days lost in reports
- Still no national agency/administration



Thank you