



**Asia-Pacific
Economic Cooperation**

2009/SOM2/MTF/CON/007

Section: II (8)

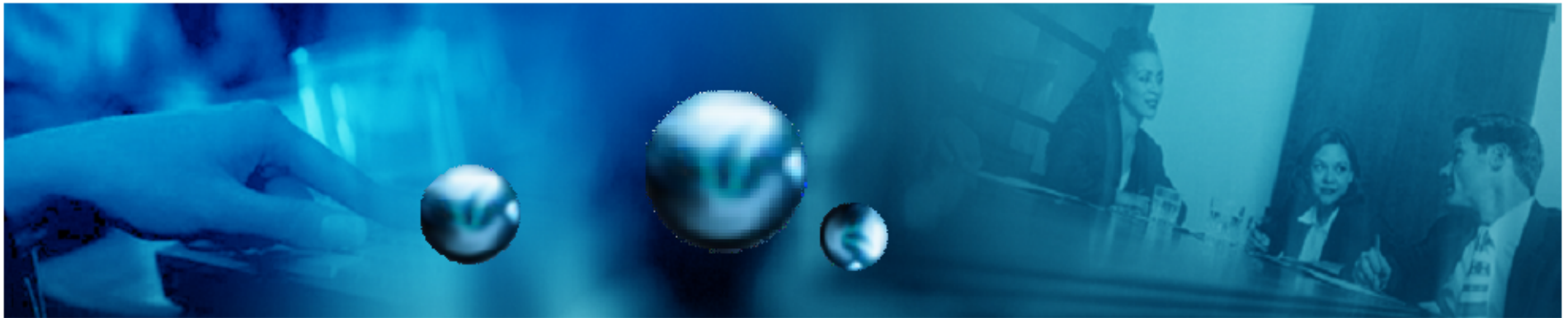
Sustainable Mine Development

Submitted by: Korea Mine Reclamation Corporation (MIRECO)



**APEC Conference on Sustainable
Development of Mining Sector in APEC
Singapore
23-24 July 2009**

Sustainable mine development



Korea Mine Reclamation Corporation

MIRECO





What is the mine hazards?

Mining hazards occurred in the course of mine development can cause physical and chemical damages that are harmful to the environment and human beings



<Case 1> Waste rocks and tailings



<Case 2> Ground Subsidence



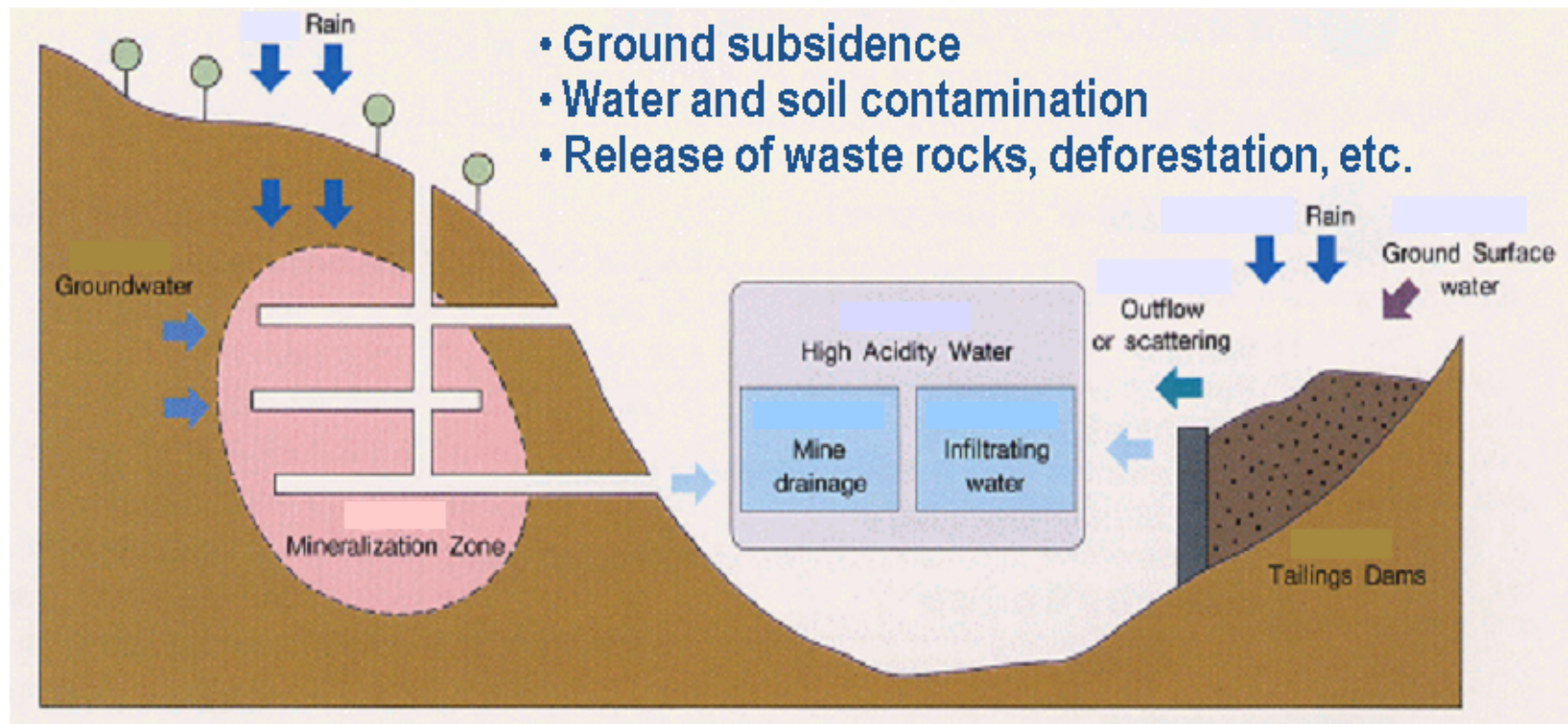
<Case 3> Acid mine drainage



<Case 4> Deforestation



Mechanism of mine hazards occurrence



- Even after mine closure, mine hazards occur widely and continuously causes for large casualties, resulting in social problems
- thus, the initial plan of mine reclamation in the initial step of mine development is very important to have a sustainable mine development



Cases of mine hazards

Huge waste rock pile



Water contamination



Water contamination



Mining hazards



Hazards for environments and health



Acid mine drainage

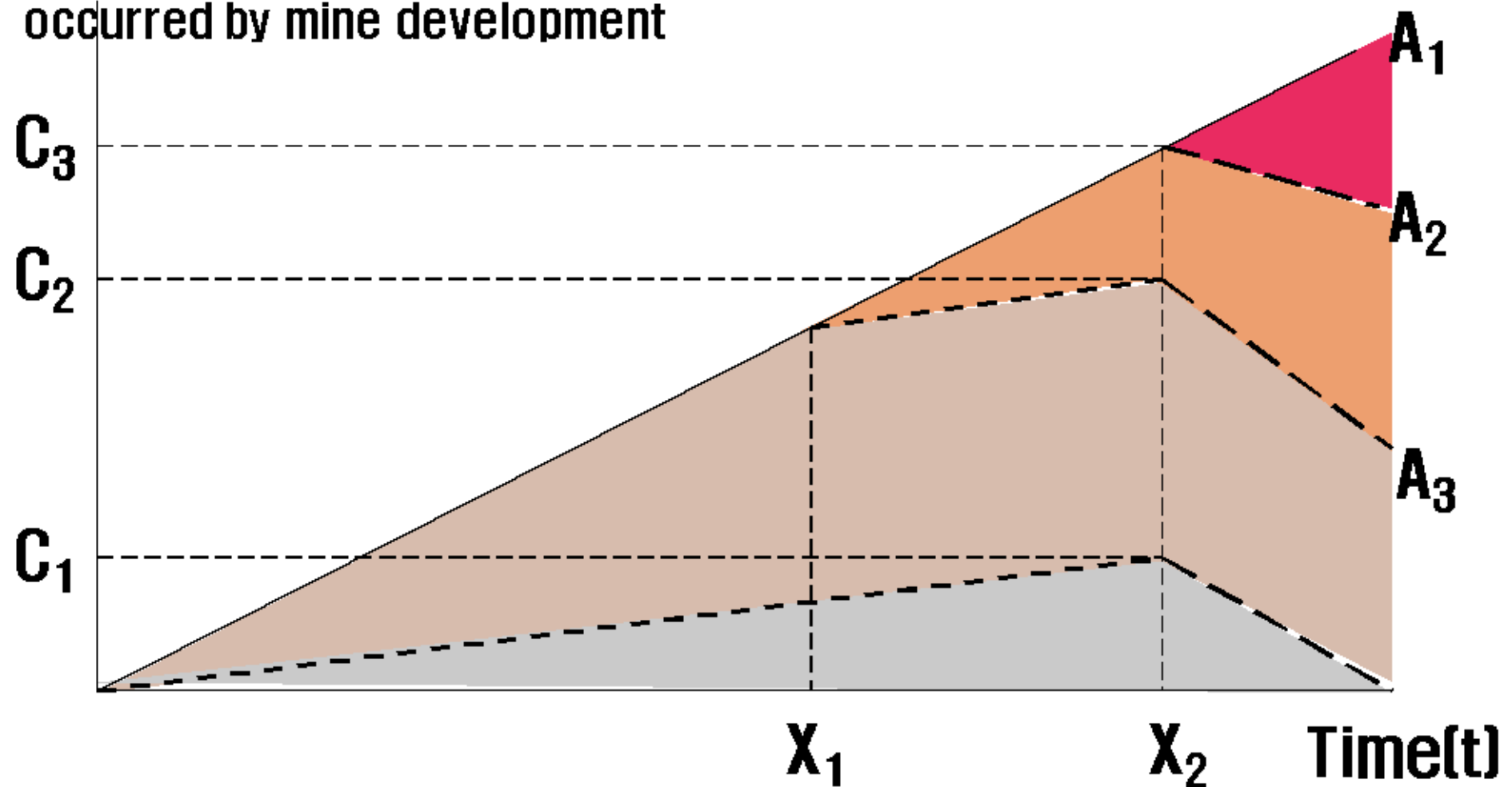


Huge dumps of waste rocks



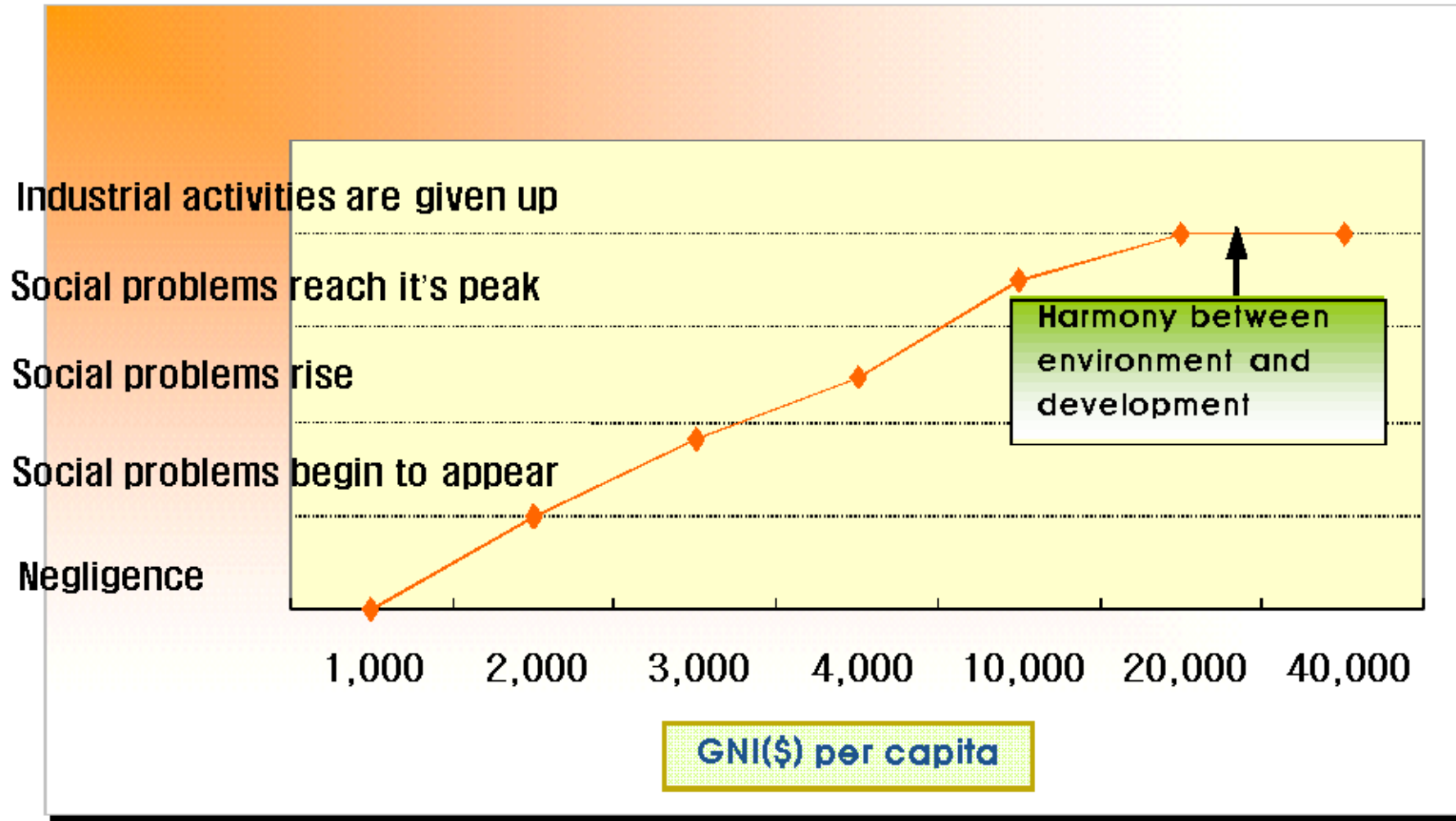
Change of cost for environmental pollution with the conductance of mine reclamation

Cost for environmental pollution occurred by mine development





Change in governmental policies for mine hazards according to the change of GNI per capita





Acts of government for mine hazards

- Nation has a responsibility to improve the environment in order to keep the people on living in safe and clean environments
- Nation has a responsibility to improve the product activity of company and individual in order to keep the people on living in a good quality
- Therefore, while making the mine development in a free way, we should make and operate a system to prevent mine hazards and quickly treat the occurred

- <upbringing system for mine industry> : the mining act, coal industry act
- <system of mine reclamation> : the mining safety act, Act on the prevention and restoration of mining damages



Mine reclamation business of MIRECO

(Unit : ea)

Class.	Coal mine	General mines			Total
		Metallic mine	Non-metallic mine	Sub-total	
Sub-total	349	988	669	1,657	2,006
Ongoing mines	9	52	669	721	730
Abandoned mines	340	936	0	936	1,276

MIRECO accomplishes mine reclamation businesses in an appropriate and systematic way



Cases of Mine Reclamation Business

Water treatment



Soil remediation



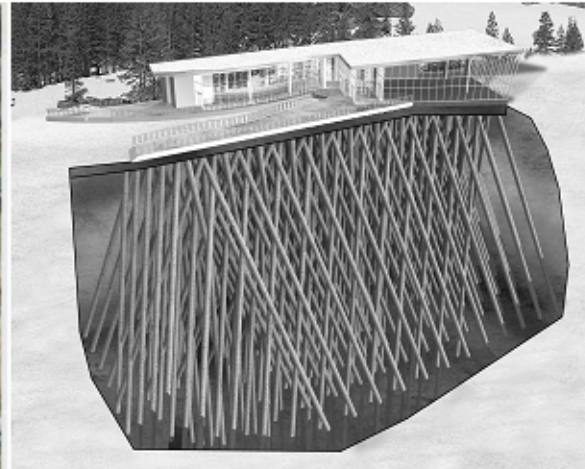


Cases of Mine Reclamation Business

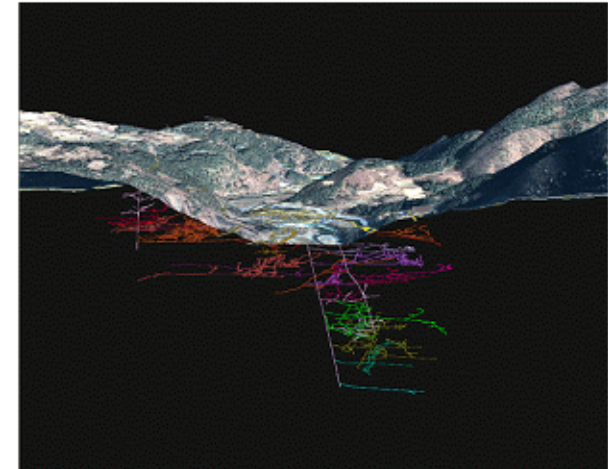
Reforestation



Prevention of ground subsidence

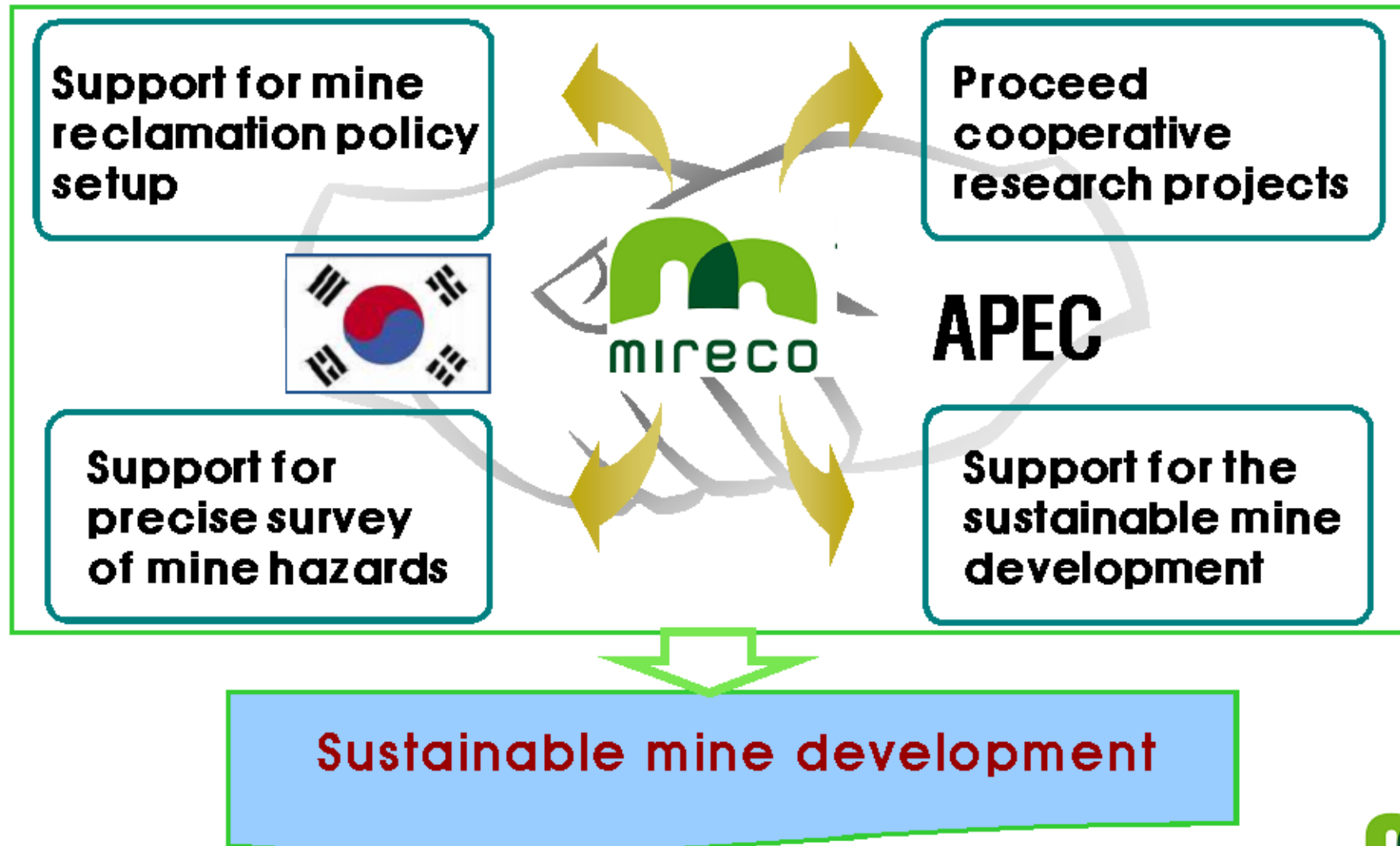


GIS





APEC-Korea Cooperation I





Contents of APEC-Korea Cooperation I

Survey of mine hazards



Pilot-scale tests



Slope stabilization



Reforestation

Survey, assessment, GIS



Soil remediation

Water treatment



APEC-Korea Cooperation II

- enhancement of mine reclamation technology through training, education and symposium



ASEAN international training program on mine reclamation (2008, 2009)



CHINA training program on mine reclamation (2008)



International symposium on mine reclamation (2007)

2009 International Symposium on Mine Reclamation

September 24-25, 2009
Kangwon Land, Gangwon-do, Korea

ORGANIZING COMMITTEE

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VENUE

The Symposium will be held at Kangwonland located at Gangwon-do, South Korea.
For further information, please visit Kangwonland's web-site at <http://www.kangwonland.com/kangwon/index.asp>

Co-organized by
Korea Mine Reclamation Corporation (MIRECO)
Kangwon Land (Gangwon-do)
Ministry of Knowledge and Economy (MKE)

www.2009minereclamation.or.kr

International symposium on mine reclamation (2009)



Thank you!!

감사합니다