

Bilateral & Multilateral Cooperation Experience of the Republic of Korea

2011. 10. 11, Changwon

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KOREA FOREST SERVICE

Contents



1. Background

2. Efforts to Rehabilitate Northeast Asia

3. Future Plan



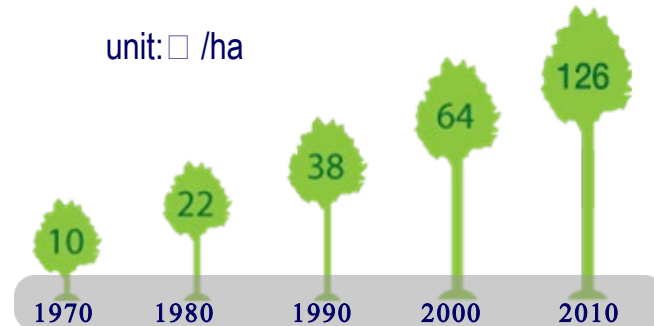
1. BACKGROUND

◆ History of reforestation in Korea

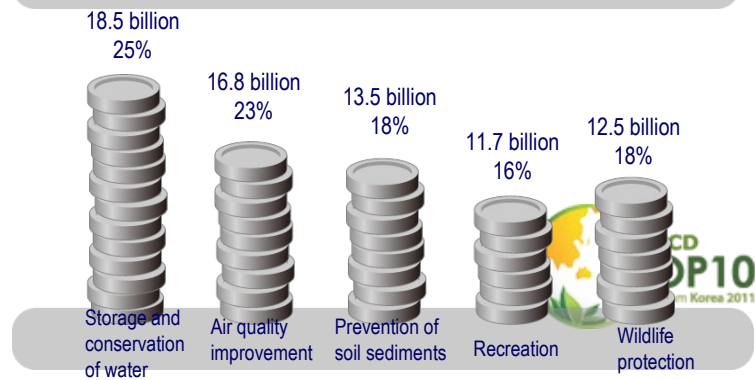
- We planted **12 billion trees** at degraded area from 1962
- Forest resources have increased up to **13 times**, with public benefit worth of **US\$ 73 billion/year** for the last four decades



Forest Growing Stock (Quantity of trees)



Public Benefits on Forest (US\$ 73 billion)





◆ **Dust and sandstorm (DSS) in Korea**

▪ **Continuous increase of various damages caused by DSS in Korea**

- Phenomenon of DSS per year (Seoul):
1980's: 3.9 days → 1990's: 7.7 days → 2000's: 12.2 days
- Increased illness, air pollution, disruption in social activities and reduced productivity in business sector

☞ **Korea has promoted international cooperation projects of afforestation and rehabilitation to combat desertification and dust and sandstorm in Northeast Asia since 2000.**



2. EFFORTS TO REHABILITATE NORTHEAST ASIA

I. Bilateral Cooperation Projects

◆ For last decade(2000~2010), **Korea planted 12,225ha** in east asia region for **combating desertification and forest rehabilitation**

- Mongolia : 879 ha, China : 10,746ha, Myanmar : 600ha

◆ **Three projects** for combating desertification in **Northeast Asia** are **currently in process** by **Korea Forest Service.**



I. Bilateral Cooperation Projects

1. Completed Projects

1-1. Plantation Project in Western China

1-2. Forest Rehabilitation of Arid Region in Central Myanmar

2. On-going Projects

2-1. Greenbelt Plantation Project in Mongolia

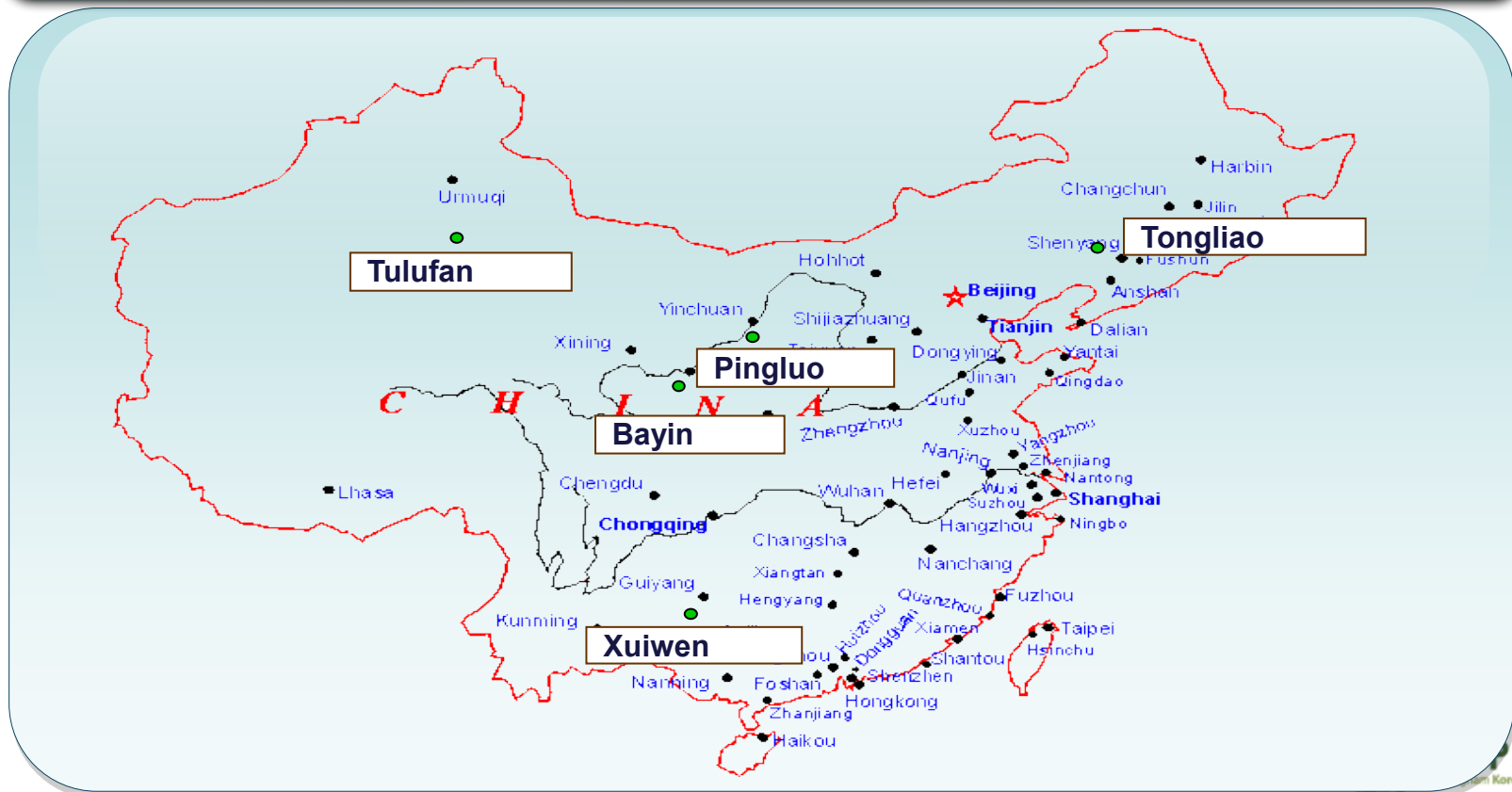
2-2. Small-scale A/R CDM Pilot Project of Mongolia

**2-3. Plantation Project in Kubuqi Desert of China
(Private Support on Plantation for Desertification)**

1. Completed Projects

1-1. Plantation Project in Western China

Plantation to combat desertification
8,040ha (2001-2005, 5M USD, KOICA fund)



1. Completed Projects

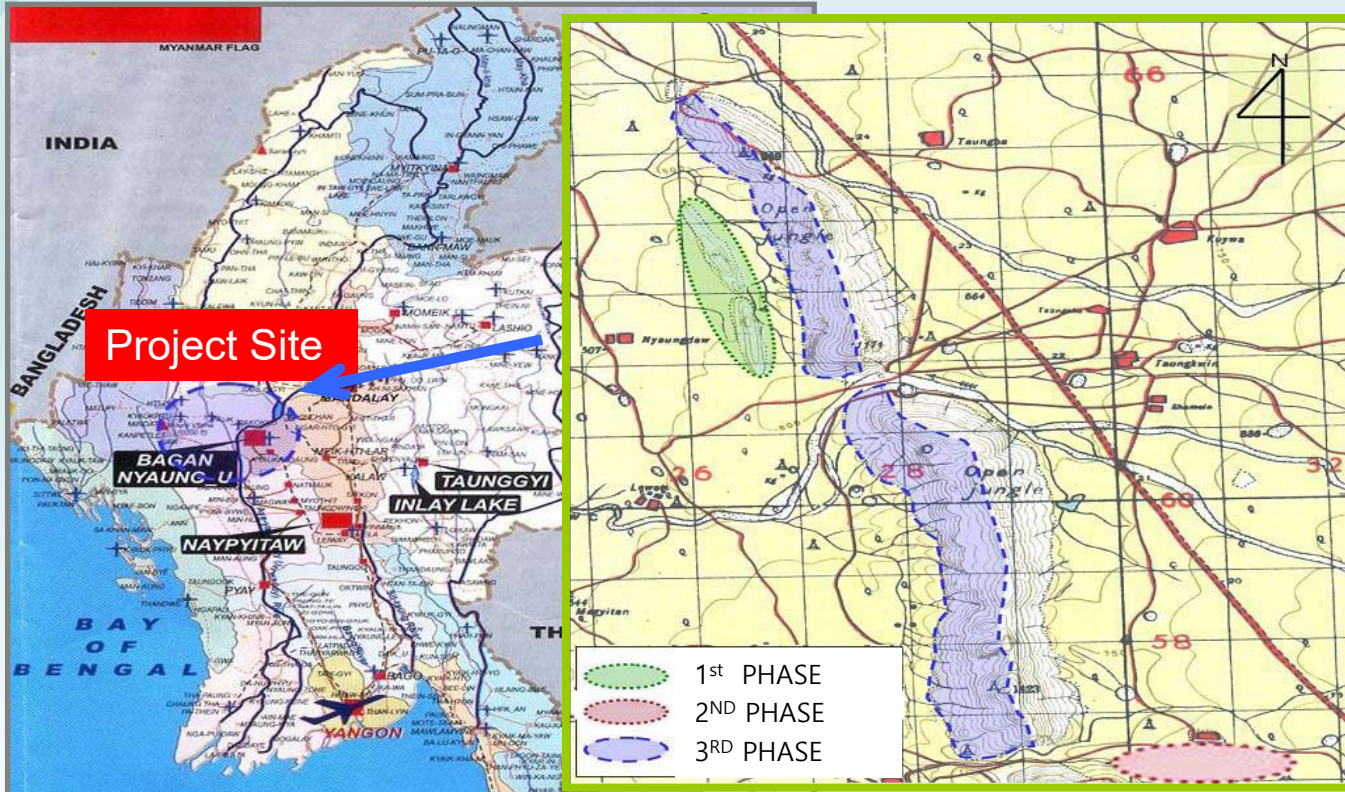
1-1. Plantation Project in Western China



1. Completed Projects

1-2. Forest Rehabilitation of Arid Region in Central Myanmar

Forest rehabilitation and management
600ha (2000 – 2010 2M USD, KOICA Fund)



1. Completed Projects



- **Period** : 2001~2010
- **Location** : Nyaung-U Township, Mandalay Province
- **Budget** : 2M USD
- **Activities**
 - Forest rehabilitation (600ha) and post management
 - Office building construction
 - Expert dispatch
 - Training programs
 - Providing equipment

1. Completed Projects



Site for office



Fire control facilities in Nyaung-U



Phase 1 project site



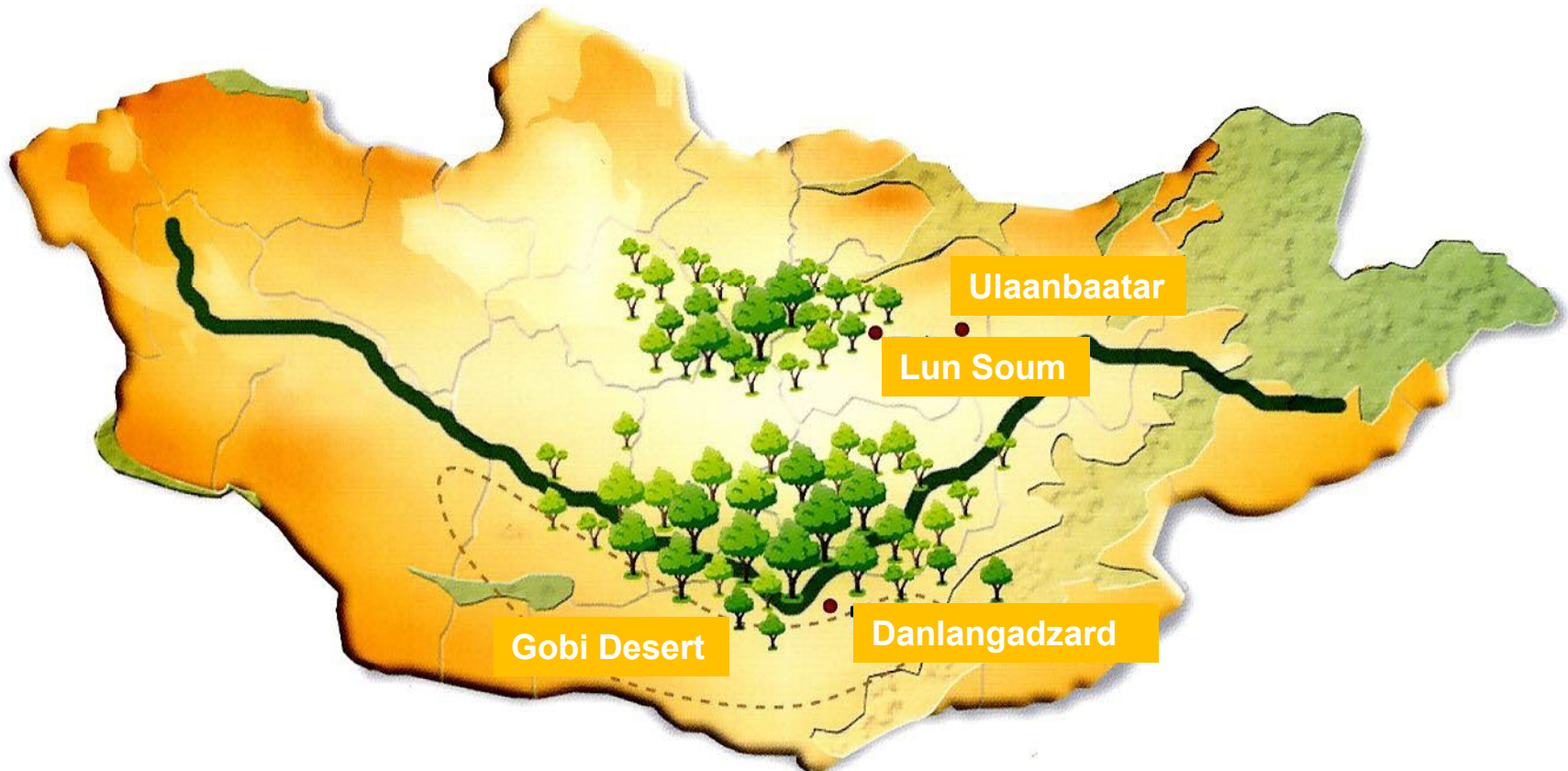
Phase 2 project site

2. On-going Projects.

2-2. Greenbelt Plantation Project in Mongolia

PLANTATION PROJECT

- Mongolian Government
- Long Term Greenbelt Plan
- Korean-Mongolian Greenbelt Plantation Project



2. On-going Projects.

2-1. Greenbelt Plantation Project in Mongolia

◆ **Period** : 2007 ~ 2016

◆ **Budget** : 10M USD

◆ **Purpose**

- Prevention of desertification and dust sandstorm through plantation (3000ha)
- Enhancement of contribution to international society by sharing successful experiences and forest rehabilitation technologies of Korea

◆ **Achievements**

- Built up the foundation of the project and established tree nurseries for production of saplings (2007)
- 651ha of arid area was planted for 3 years
200 ha ('08), 223 ha ('09), 228 ha ('10), 250 ha ('11 plan)



2. On-going Projects.

2-1. Greenbelt Plantation Project in Mongolia

◆ Main Activities

▪ Forest rehabilitation in desert area

- Plantation for combating desertification and management of planted area
 - ※ KFS project manager was dispatched and directly implemented the project since 2007
- Establishment and management of tree nurseries

▪ Capacity building

- Dispatch of Korean experts (once a year)
- Training course for local people on plantation, pest control, etc. (more than twice a year):
- Establishment of education center (2009)

▪ Others

- Joint research
- Provide equipments and materials
- Reinforcement of cooperation between local communities and NGOs

2. On-going Projects.



2. On-going Projects.

2-2. Small Scale A/R CDM Pilot Project

◆ **Period** : 2010 ~ On-going

◆ **Purpose**

- To develop new model of desertification prevention project in connection with small scale Afforestation and Reforestation Clean Development Mechanism (A/R CDM)
- To enhance sustainability on combating desertification and participation of private sector through the acquisition of carbon credit

◆ **Progress**

- Development of work plan (2010)
- Implementation of feasibility study and selection of project site (2010)

◆ **Future Plan**

- Prepare Project Design Document (PDD) and register it to CDM Executive Board (EB) of UNFCCC(~ 2012)
- Conduct the project and implement monitoring and assessment (2012~)



2. On-going Projects.

2-3. Plantation Project in Kubuqi Desert (China)

Developing Great Green Wall In Kubuqi Desert (2007 – on going)



2. On-going Projects.

2-3. Plantation Project in Kubuqi Desert (China)

◆ Purpose

- To combat desertification and prevent dust and sandstorm (DSS) through supporting private sector's activities (Implemented by CSO - Future Forest)

◆ Main Activities

- ① Sand fixation to prevent shifting of sand and plantation of drought resistant trees
- ② Installation and maintenance of forest road
- ③ Technology transferring and dispatching green volunteers

◆ Achievements

- 804 ha of desert area was rehabilitated for 4 years ('07- '10)
- ※ Main species of trees are white poplar, poplar and desert willow trees.
- Dispatched Green Volunteers (100 person/yr) to the project site for raising awareness on desertification and dust and sandstorm.

2. On-going Projects.

2-3. Plantation Project in Kubuqi Desert

Signboard for Plantation Project



White Poplar Plantation Area



Green Volunteers' Commemorative Planting



Plantation after Sand Fixation Work



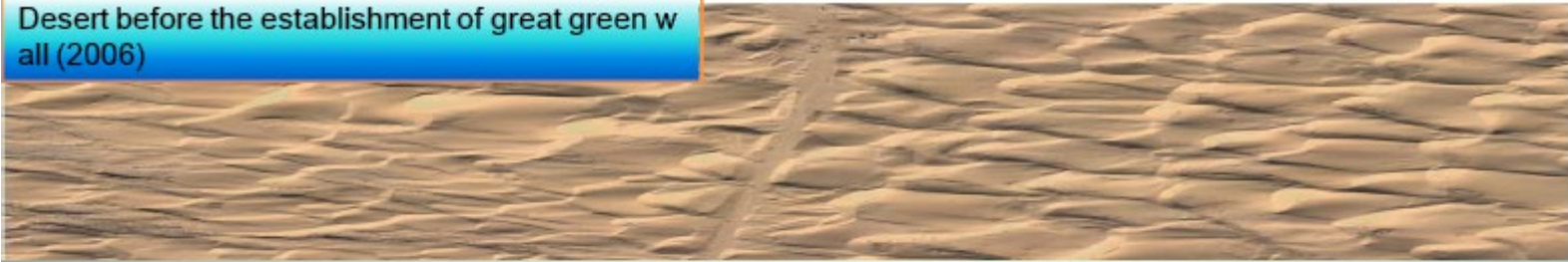
Construction of Forest Road



2. On-going Projects.

2-3. Plantation Project in Kubuqi Desert

Desert before the establishment of great green wall (2006)



Great green wall (2007)



Great green wall after 3 years of planting trees (2009)



II. Multilateral Cooperation

1. Cooperation Projects with UNCCD

1-1. Assessment of Plantation Projects carried in China and Mongolia

1-2. Publishing “Combating Desertification and Land Degradation; Proven Practices from Asia and the Pacific”

2. Northeast Asia Forest Network (NEAFN)

2-1. NEAFN History and Activities in Past

2-2. Improvement from NEAFN to DLDD-NEAN

1. Cooperation Projects with UNCCD

1-1. Assessment of Plantation Project carried in China and Mongolia

◆ **Period** : 2009 ~ 2010

◆ **Budget** : 18,000 USD

◆ **Purpose (Achievements)**

- Investigation of plantation sites to combat desertification that have been established by the Korean side including the KFS
- Production of an advanced model through technical measures and policy approaches for addressing land degradation and desertification in the affected regions
- Suggestion of a demonstration project proposal for A/R CDM under UNFCCC to combat desertification

1. Cooperation Projects with UNCCD

1-2. Publishing “Combating Desertification and Land Degradation; Proven Practices from Asia and the Pacific”

◆ **Period** : 2010 ~2011

◆ **Budget** : 56,000 USD

◆ **Purpose (Achievements)**

- Production of useful and valuable documents on DLDD mitigation in the region
- Application of the best practices and know-how in DLDD mitigation in other affected areas of the region
- Improvement of research and development of affected ecosystems' services through information-sharing and technology transfer
- Generation of global benefit, awareness-raising and capacity-building in addressing the DLDD issues



2. Northeast Asia Forest Network

2-1. NEAFN History and Activities in Past

◆ **The first meeting** on establishment of the NEAFN was held in Seoul, Sep 18th, 2007

※Korea Forest Service made a proposal on establishment of Northeast Asia Forest Network.

- **Purpose** : Enhancement of cooperation in forest sector in northeast Asia region
 - Combating desertification and dust & sandstorms
(information sharing and experience exchange in desertification)
 - Measures on prevention and mitigation of forest invasive pests and diseases spread and transfer
- **Members** : China, Mongolia, Republic of Korea and the UNCCD Asia Regional Coordination Unit



2. Northeast Asia Forest Network

2-1. NEAFN History and Activities in Past

- ◆ **The second meeting was held in Beijing, China on Dec, 2008.**
 - The draft of NEASRAP was delivered by UNCCD ARCU and members endorsed it to function as a framework plan for the network operation

- ◆ **The third meeting was held at Seoul, Korea on Jun, 2011.**
 - Information sharing (presentation) of member's policies, researches, works on combating desertification
 - Discussions on reforming the network and plan of enhancement of former cooperation

2. Northeast Asia Forest Network

2-2. Improvement from NEAFN to DLDD-NEAN

- ◆ **Title** : Northeast Asia DLDD Network (DLDD-NEAN)
- ◆ **Purpose** : Promoting implementation of SRAP under UNCCD and 10-year Strategy to resolve DLDD matters including dust and sand storm
- ◆ **Participant** : Diverse stakeholders including NGOs, academia, research institutes and company
- ◆ **Main Activities**
 - Sharing member's policies, information, technology about DLDD
 - Enhancement of collaboration project for reducing DLDD under SRAP
 - Promoting implementation of NAP and Capacity building for reducing DLDD
 - Strengthening cooperation with other international organizations

2. Northeast Asia Forest Network

2-2. Improvement from NEAFN to DLDD-NEAN

◆ **Future Plan**

▪ **The signing of the MOU between members**

- Signing the MOU on improvement and management of the network between ministers of member countries

(The signing ceremony will be held during UNCCD COP 10)

▪ **Regular conference meeting and development of projects with organization of a steering committee**

▪ **Enforcement of various cooperation projects to reduce DLDD**

- Enforcement of demonstration projects linked to SRAP
- Cooperation with other international organizations

(Like as NEASPEC, UNEP, ADB)





3. FUTURE PLAN

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- ◆ **Facilitate** a way to expand cooperation project
 - ◆ **Resource mobilization** to support the affected country Parties in the sub-region
 - ◆ **Encourage** CSOs and private sectors' involvement
 - ◆ **Focus on** action-oriented field activities related with local people and sustainable development



Thank You !

