



NORTHERN RURAL INFRASTRUCTURE DEVELOPMENT SECTOR PROJECT (NRIDSP) NEWS LETTER No.3

December 2012

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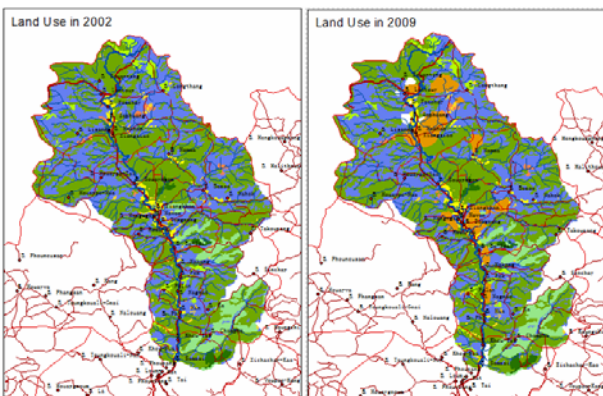
Land Use Planning and GIS in NRI Project

In NRI, there are 27 subprojects distributed in Northern 4 provinces, Phongsaly, Louang Namtha, Bokeo and Oudomxay. Most of them are irrigation rehabilitation project. In each Irrigation Project, the target land is separated by weir point, the upstream catchment land, and the downstream irrigation field land.

Upstream Land Use Planning

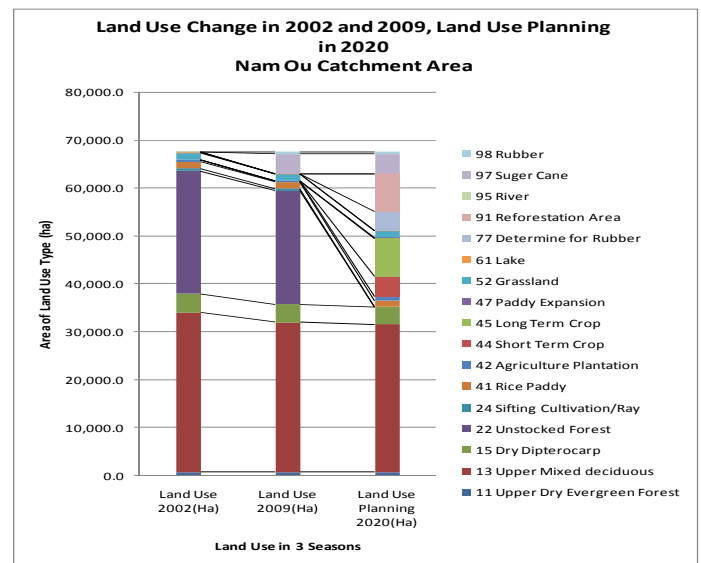
In upstream Land Use Planning, NRI concentrated to detect Land Use Changes between 2000 and 2010; Land Use Planning conflicts in each catchment, and Kumban. In some subproject, a special Development Activity Zone (DAZ) is also defined, and the Land Use Changes in DAZ is checked carefully.

Land Use Changes Detection in Catchment



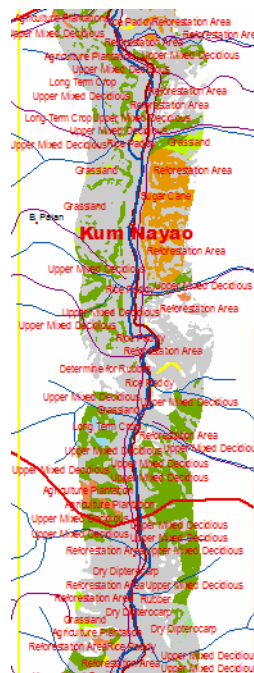
Sample Map of Land Use Changes between 2002 an 2009 in Nam Ou Catchment.

Trough the GIS analysis, it is easy to find the Land Use has significantly changed along with the main road, especially changed from forest to agriculture use. When we look into the Land Use Planning in 2020, it is found the Land Use will change more from forest to agriculture use. Almost all unstocked forest will be disappear, instead of the forest, there are several new type agriculture Land Use.



Sample Graph of Land Use Changes and Land Use Planning in 2002, 2009 and 2020 in NamOu Catchment

Land Use Planning Conflicts in DAZ



When we check more carefully through GIS analysis in the catchment, it is not difficult to find some conflicts in the Land Use Planning. Here, a new concept of DAZ are involved into NRI project. A DAZ can be any people activity area, sort of main road buffer, build up area buffer, development project point buffer and so on.

This sample map shows the Land Use Planning in DAZ of 1 km road buffer with SLOPE more than 25 degree mountain land. The Yellow area shows the land changed from forest to agriculture land, and it is SLOPE more than 25 degree land that will be not suitable for agriculture.

Therefore, it is a type of Land Use Planning conflict.



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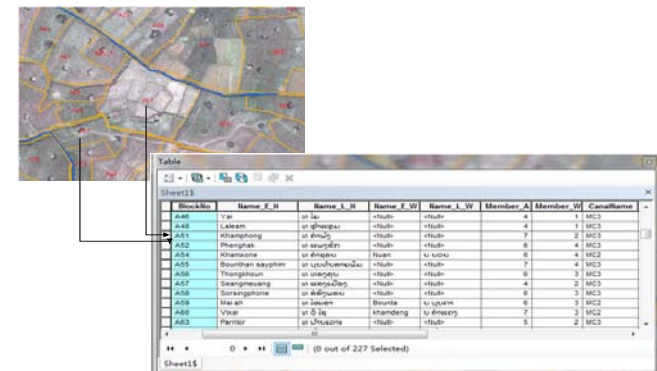
What is Irrigation Block Mapping?

The Irrigation Block Mapping is not a map. It is a GIS system. It can be used to any applications which connect with irrigation field, sort of Irrigation Paddy Management, Water User Group Management, Agriculture and Marketing Management and so on.

GIS Data in Irrigation Block Mapping

- (1) Google Earth Image.
- (2) Handy GPS Survey data
- (3) Cadastral Map Survey data
- (4) WUG Inventory Survey data and other table data

Google&GPS Inventory Survey Cadastral Survey



Irrigation Block Mapping System

Public Consultation and System Update

After establishment of initial system, a public consultation should be implemented by DCOs and PPOs. the purpose of the public consultation are explanation of the system to farmers and confirmation of geographic data and inventory table data.



Confirm data on computer display



Confirm data in the field by using handy GPS

Technology Training to PPOs and DCOs

All the training involved in 3 DCOs, 3 PPOs and 2 NPMOs. Through the training, DCOs, PPOs and NPMOs mastered the processes of Irrigation Block Mapping and Land Use

Planning in Catchment Management. Especially, DCOs and PPOs can establish the initial Irrigation Block Mapping system and update it in their daily work.

Training Program	Contents	Training Type	Schedule
Irrigation Block Map(1)	GPS&Google Image	Lecture& OJT	Mar. 2012
CatchmentManagement	Catchment Zoning	OJT	Jul. 2012
Irrigation Block Map (2)	System Establishment	Lecture, & OJT	Nov.2012
CatchmentManagement	Land Use Planning	Lecture	Dec. 2012

Technical Supporting Team Setup

A technical supporting team in each PPO, DCO and NPMO is setup. the team members will not only support their own system but also implement a group training program within each province. the group training activities will be held in every month for upgrading their technical levels, GIS knowledge and solve the technical problems.

English Name	Responsibility/Org	Title
Mr. Bounsong Matthouchanh	NMPO, Coordinator/LUP-	Team Leader
Mr. Sonexai Udom	Project Manager (PPO,	PPO Manager
Mr. Chansanom Samsaenna	PPO, LNT (Irrigation)	Technical
Mr. Bounkhong Samnorvanh	PPO, LNT (Irrigation)	
Mr. Thavisak Lorbanhdith	PPO, LNT (Forest)	
Mr. Anouphone Bounthavisai	PPO, LNT (Irrigation)	DCO Leader
Mr. Sengliith Somsy	DCO, Namtha (Irrigation)	
Mr. Chanthala Thammavong	DCO, Sing (Irrigation)	
Mr. Silick Khamphavong	DCO, Sing (Irrigation)	DCO Leader
Mr. Ingthong Thongsavanh	DCO, Sing (Forest)	
Mr. Asoun Phounlorkham	DCO, Long (Irrigation)	DCO Leader
Mr. Soulasith Douangmano	DCO, Long (Irrigation)	
Mr. Phout Keo Amphone	DCO, Long (Forest)	
Mr. Bounthavy Tansouphan	PPO,PSL (Forest)	
Mr. Chanthavy Phimmasing	PPO,PSL (Irrigation)	Technical
Mr. Touysomchai Chansavath	PPO, PSL (Irrigation)	
Mr. Bounthavy Soukthavong	DCO, BounTai (Irrigation)	DCO Leader
Ms. Bouachai Tanthaon	DCO, BounTai (ENV)	
Mr. Phongsavath Vongxaiyalath	DCO, BounTai (Forest)	
Mr. Somchan Phommavongsa	DCO, Yothou (Irrigation)	DCO Leader
Ms. Chomsy Ounkeo	DCO, Yothou	
Ms. Chanseng Senesoulath	DCO, Yothou	
Mr. Khonesavanh Vongsa	DCO, PSL (Road Eng)	DCO Leader
Mr. Chanthavone	DCO, PSL (Extension)	
Mr. Khamchanh Souksan	DCO, PSL (Irrigation)	
Mr. Somsanith Onchan	PPO, BoKeo	PPO Manager
Mr. Dakhom Vilayvanh	PPO, BoKeo (Forest)	Technical
Mr. Bounliep Outyaxai	PPO, BoKeo (Irrigation)	
Ms. Manivanh Phetmany	PPO, BoKeo (Admin)	
Mr. Phetsamone Inthongxai	DCO, HauyXai (Irrigation)	DCO Leader
Mr. Soumsanith Vannasy	DCO, HauyXai (Agriculture)	
Mr. Bounpheng	DCO, Houayxai (Agriculture)	
Mr. Mong Syamphone	DCO, PakTha (Irrigation)	DCO Leader
Mr. Phonesak Thongthilath	DCO, PakTha (Extension)	
Mr. Amphone Phetsavanh	DCO, PakTha (Irrigation)	
Ms. Sengkham Keodala	DCO, PakTha (Dev)	
Mr. Oudomphone Phomlichanh	DCO,Phaoudom (Irrigation)	DCO Leader
Mr. Khamphet Thonemanyong	DCO,Phaoudom (Irrigation)	

(Land Use Planning/GIS Specialist:
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