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Nam Mang 3 Dam impact: on Water management and Land use in the Nam Nyam Valley, Lao PDR

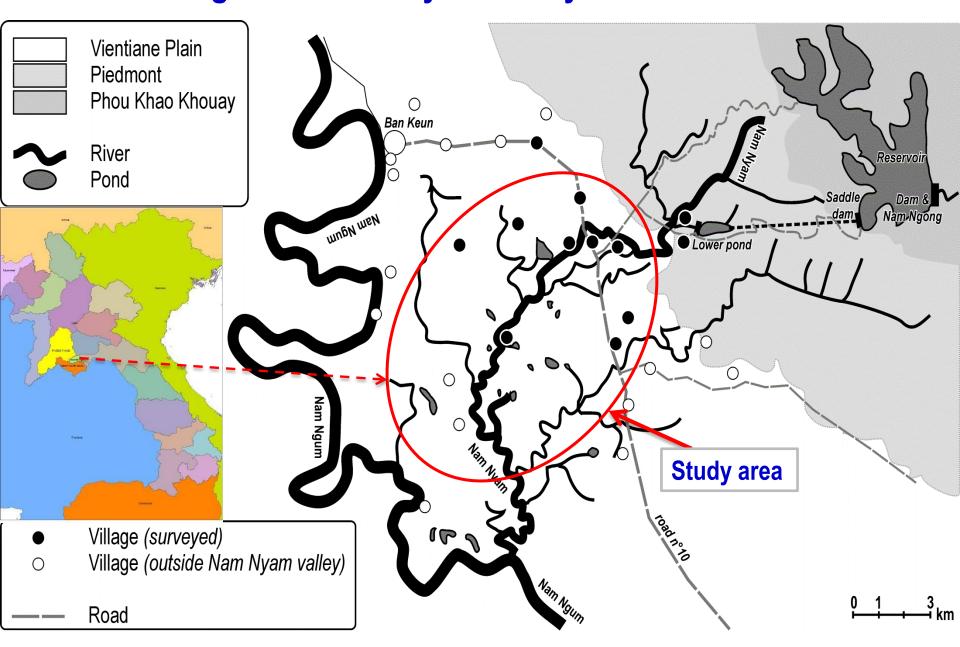


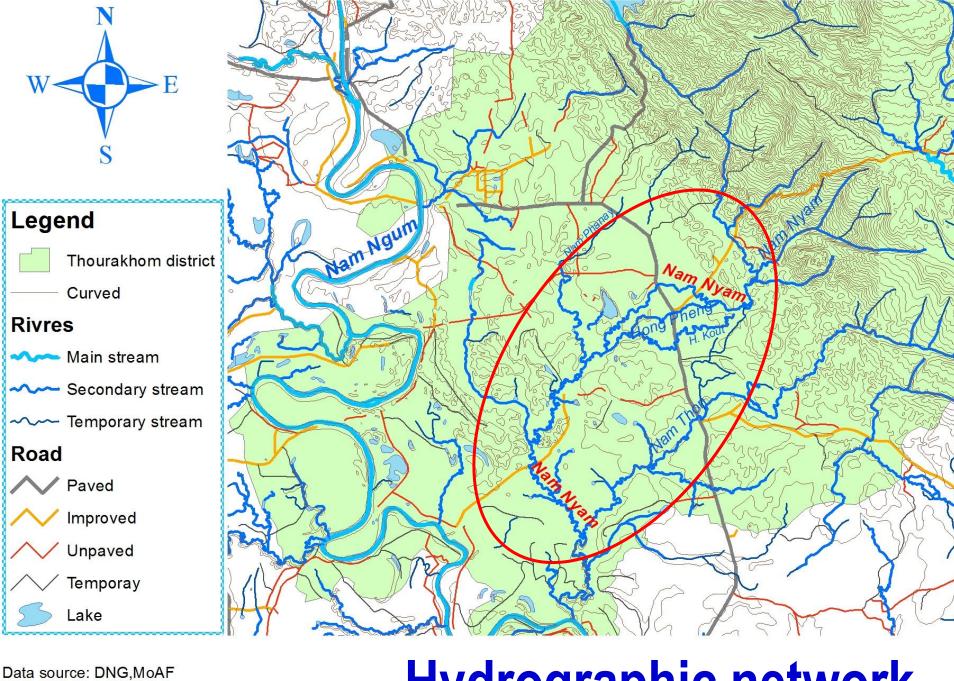


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Nam Mang 3 and Nam Nyam Valley in the Vientiane Plain





FoA/NUOL

Created by: Phimthong Kouangpalath

Hydrographic network





Shifting cultivation in the hillocks zone

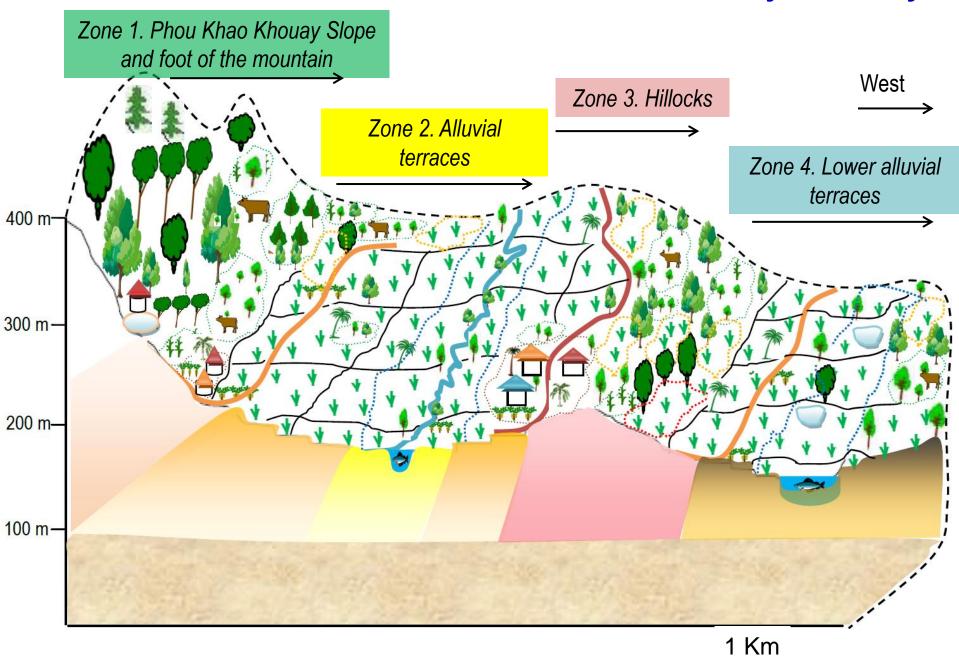
Young rubber trees in the foot of the mountain zone

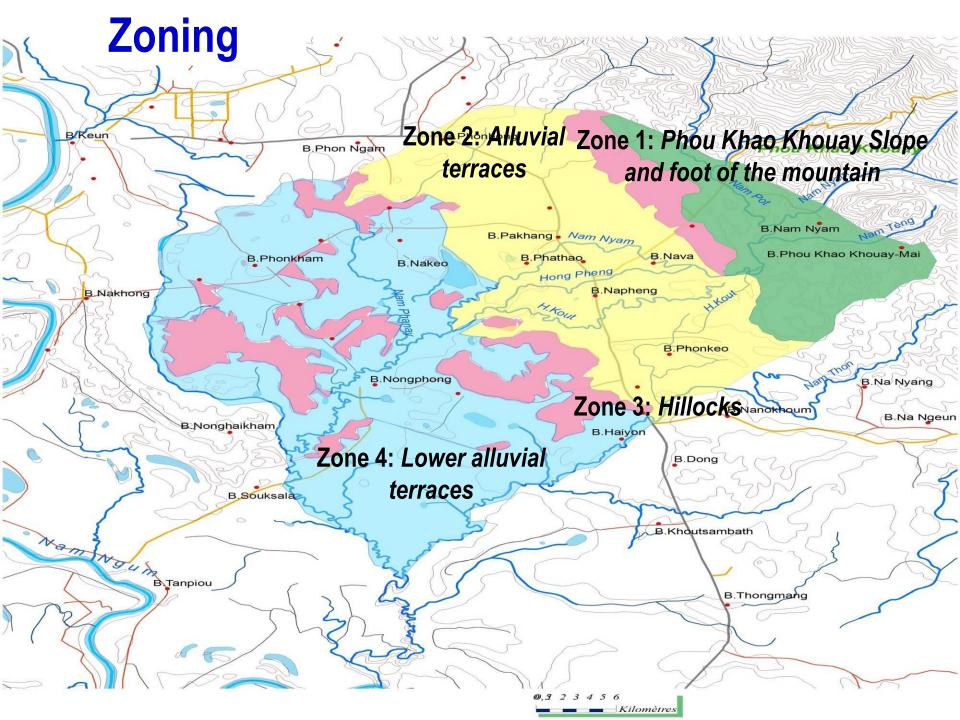
Phou Khao Khouay in the background





Transect of the Nam Nyam Valley





Rice seeding for dry season in the Nam Nyam Valley



Diversionary weir for irrigation





Draining canal from natural pond to the Nam Nyam



Nam Nyam village (Hmong village, created 1973)

Irrigation canal from the Nam Nyam diversonnary concrete weir



Shifting cultivation in the hillocks zone

Floodable areas in lower alluvial terraces near the Nam Ngum bank



dam in (1970s)





One year after of shifting cultivation on foot of the mountain of Phou Khao Khouay





Resettled village from the Nam Mang 3 reservoir area to the

Nam Nyam Valley

Concrete canal irrigation from the regulation pond of the Nam Mang 3 dam



Nam Mang 3: Infrastructure



Operator : EDL

Detail Study: 1992-2000

Construction : 2002-2004

COD: January 2005

Investment: US\$ 63 M

(80% CWE, 20% EDL)

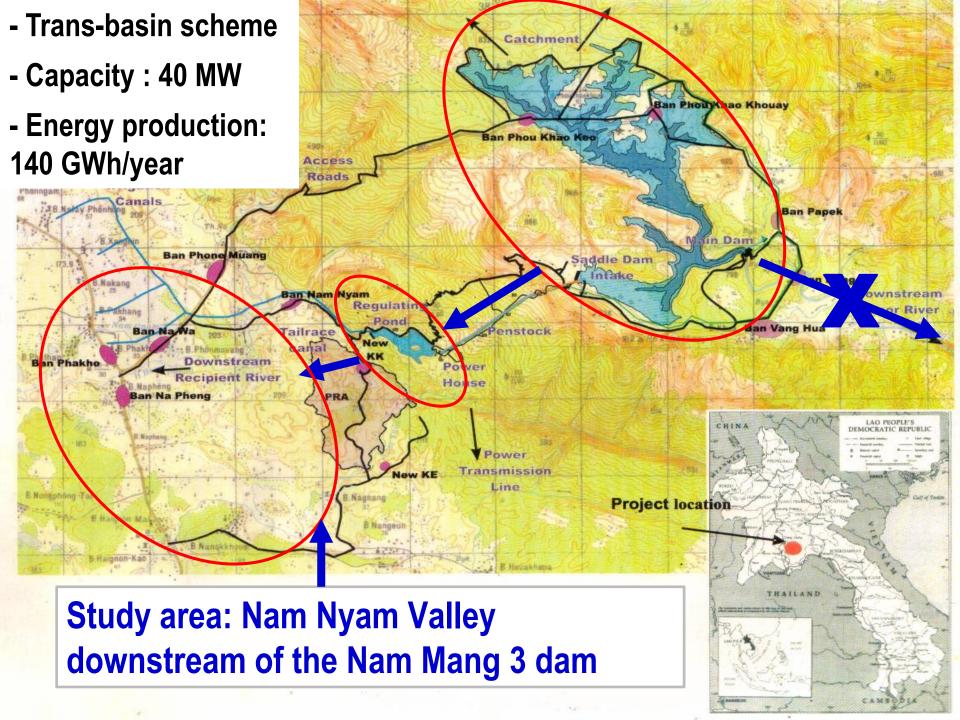
Capacity: 40 MW

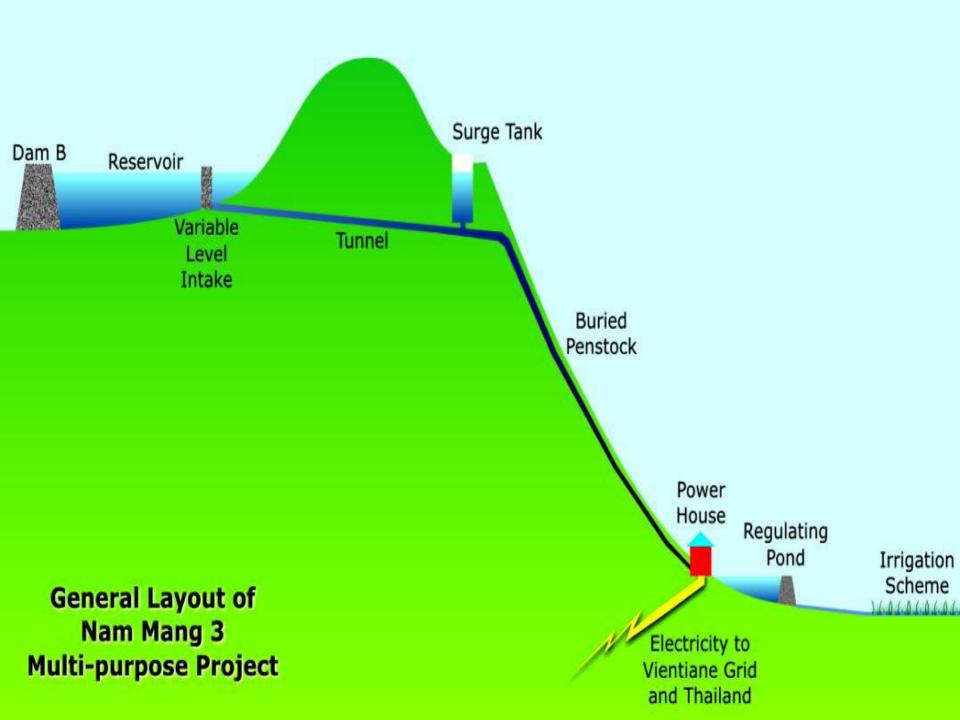
Energy production: 140 GWh/year

• 1/3 of electricity Export to Thailand

• 2/3 Domestic market (Vientiane)







Canal bank garden in dry season



Rice field in dry season





Operation control system

