NEP2071D-Pilot Study to Investigate a Participatory Approach for Roadside Protection of Rural Roads in Nepal

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WELCOME TO THE AUDIENCE!
Pilot Study to Investigate a Participatory Approach for Roadside Protection for Rural Roads in Nepal

- **Applied Research** over 3 Years

- **Participatory:** Local level Involvement

- **Rural Roads:** > 60’000km District + Village Roads

- **Protection:** Protective + Productive land-use
Involved Partners

- Govt of Nepal / DoLIDAR + 75 District Tech Offices
- Represented by SDE Mr. Mohan Chapagain
- Future Local Government
- Local Road User Committees
- Helvetas-Swiss-IC-Nepal, iNGO: Service Provider
- Pilot Study Team
  - Team Leader, 1 Civil Engineer, 2 Social Mobilisers, 3 Field Assistants
Key Figures of Nepal

- Between Indian Subcontinent & Tibetan Plateau
- **Elevation: Range** 100 – 8850 masl (Mt.Everest)
- **Size:** 147,000 sq km
- **District Roads Core Net:** of ca. 26,000 km &
- **Village Road Net:** of ca. 32,000 km
- **Population:** of ca. 26 mio cap
- **Federal State:** with a **new Constitution** since Sept. 2015
- **Future LGA:** 7 provinces & 753 municipalities
- **Productive utilisation** of under-utilised local road boards
- **Protective bioengineering** plantation
- **Optimal Plant Species Selection** in different climates
- **Clarification** of indefinite Term “**RIGHT of WAY**” in view of **Nepal Rural Road Standards 2055 BS (1998 AD)** within RoW of 20m / 15m width
- **Poverty Alleviation**: Integration potential of local Poorest
Pilot Study Organisation

Phase 1: 3 months exploration and compilation

Phase 2: 3 years verification and pilot implementation

Phase 3: Future nation-wide replication.
Outcome of Initial Phase 1 (Jan-Mar 2016)

- **Preselection**: representative Study Areas = Districts

- **Identification**: 2 representative study roads and sections

- **Pre-Selection**: Productive & protective plant species
Execution of Implementation Phase 2  
(July 2017–July 2020)

- **Start-up** and introduction of partners
- **Inception** including reconfirmation from Phase 1
- **Adjustment** of work plan
- **Field implementation** i.e. baseline surveys, road board clearing, field preparations for plantation
- **Human & physical protection** fencing, harvesting marketing/sale, profit sharing.
- **Trainings**, field exposure visits, local & national level workshops
Reconfirmation of Condition of Pilot Study Areas

KAILALI District
plane area
100-300 masl

DHANKUTA District
Mid-mountains
300-2000 masl
Selection of Plant Species

Terai Planes
Banana (Kera) - Benefit Cost Ratio (BCR) = 1.15
mixed with Lemon Bushes BCR = 1.13

Mid-mountains
Broom Grass (Amlisso) BCR = 2.05
mixed with Bamboo (Malbans) BCR = 1.23
Current Status of Ongoing Phase 2 (Oct-Dec 2017)

- Inception Phase II completed.
- Field visit investigation ongoing.
- Current engineering condition
- Socio-economic status baseline survey.
- Inclusion of poorest/landless strata and local migration.
- Identification of land owners within RoW.
- Land loss versus increasing land values.
- Formation of Local Roadside User Committees
Forthcoming Activities

- Organisation of roadside clearance works
- On-site labour training for plant propagation
- Field plantation works in the beginning of monsoon
- Seedling protection and growth supervision
Expected Overall Outcome

- Planted roadside **protective & productive** plants
- Clarification of RoW definition
- Recommendations of plant species.
- Training local residents / stakeholder
- User manual,
- Workshops at local and national level
Challenges

- Indiscriminate rural road widening damaging roadsides

- Reorganisation of the new Government Administration

- Staff transfer at both national and local level

- Delayed legal road ownership transfer

- Delayed Rural Road Fund flow system
Risks & Mitigation Measures

- Landowner resistance of site clearance within RoW

- New legal applications, acts, rules & regulations of RoW

- Increasing monsoon floods (Climate Change)

- Election preparations

- New political & official representatives leading to changes
Opening the Audience for Q&A
Thank you for your attention

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