

# **SEACAP 019**

## **Development of Local Resource Based Standards in Cambodia**

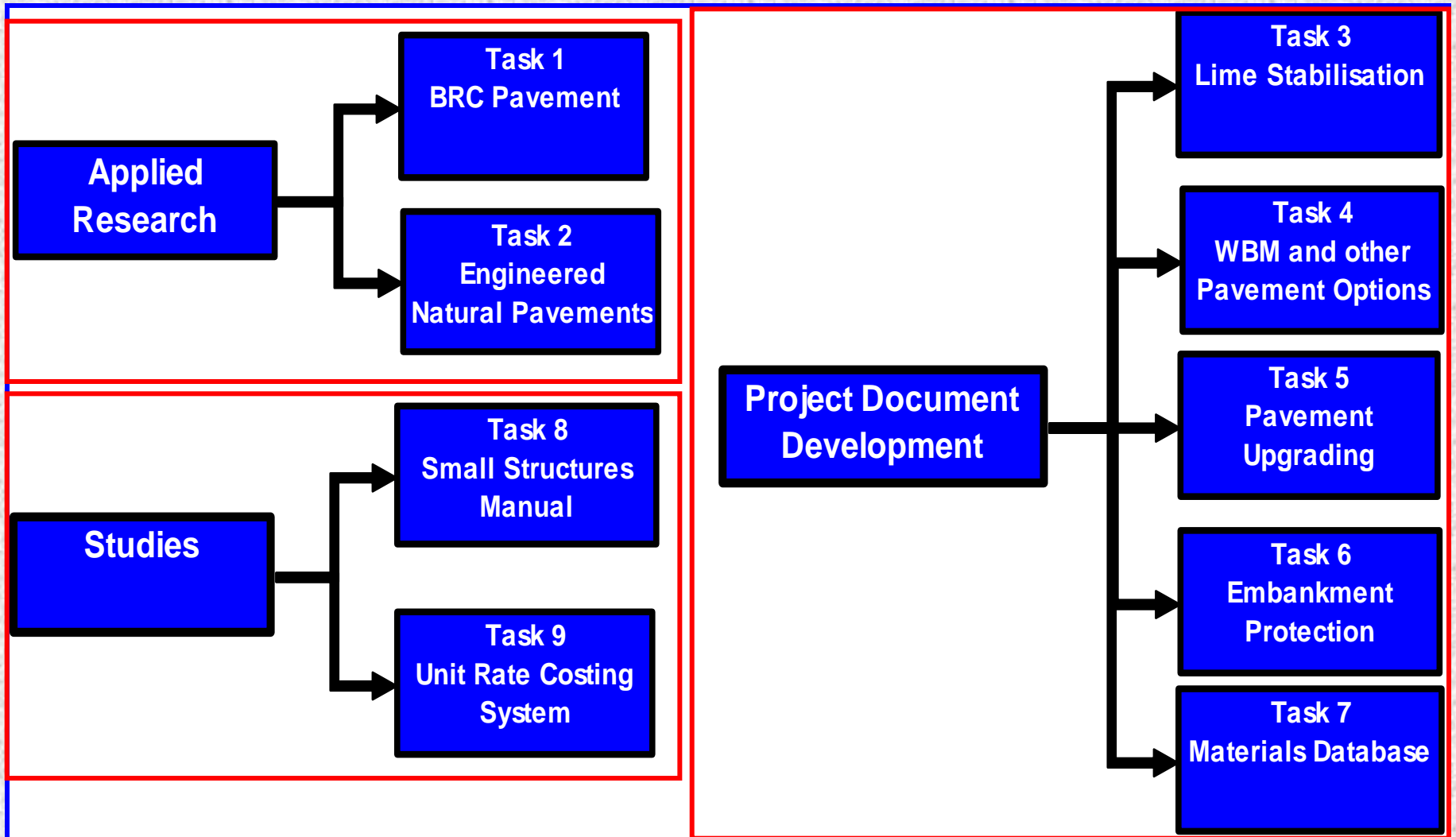
**TRL Ltd**

In Association with

**KACE and Intech Associates**



# SEACAP19 Components



# SC19 Outcomes

## Applied Research: Task 1 & 2

- ❑ Task 1: **“Technical Paper No 1 - Bamboo Reinforced Concrete Pavements”**
  
- ❑ Task 2:
  - ❑ **“Technical Paper No 2.1 – “Behaviour of Engineered Natural Surfaced Roads”**
  - ❑ **“Technical Paper No 2.2 – “Experimental Evidence in Cambodia”**
  - ❑ ENS Database “94 ENS sites in four provinces”
  - ❑ Tool for ENS Database management with link to GIS

# SC19 Outcomes

## Project Document Development Task 3 to 7:

Provide a sound basis for further research and indicate the way forward.

- ❑ **Technical paper No.3: LIME STABILIZATION TECHNIQUE**
- ❑ **Technical paper No. 4: RURAL ROAD PAVEMENT OPTIONS**
- ❑ **Technical paper No. 5: RURAL ROAD UPGRADING**
- ❑ **Technical paper No. 6: STUDY OF ROAD EMBANKMENT EROSION AND PROTECTION**
- ❑ **Technical paper No. 7: PILOT ROAD MATERIALS DATABASE**

# **SC19 Outcomes**

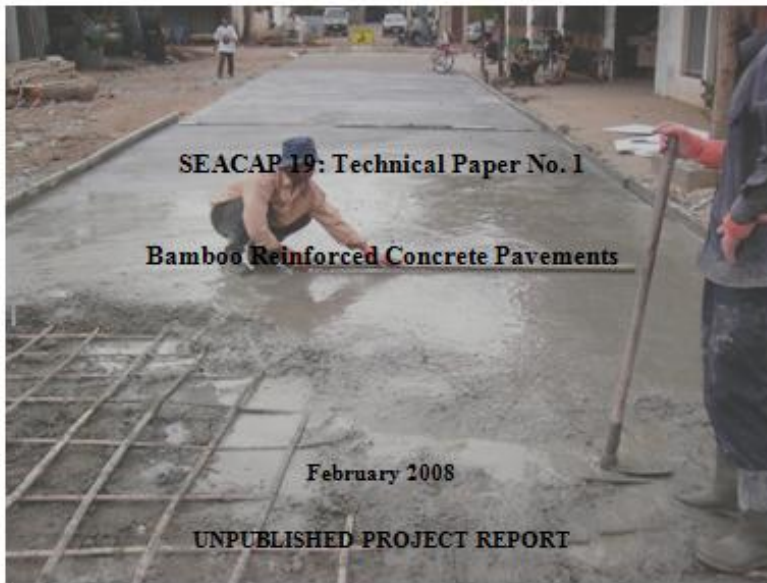
## **Studies: Task 8 & 9**

- ❑ **Technical paper No.8: Low Cost Structure Manual**
- ❑ **Technical paper No. 9: Unit Rate Costing System**

ROYAL GOVERNMENT OF CAMBODIA

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PROGRAMME

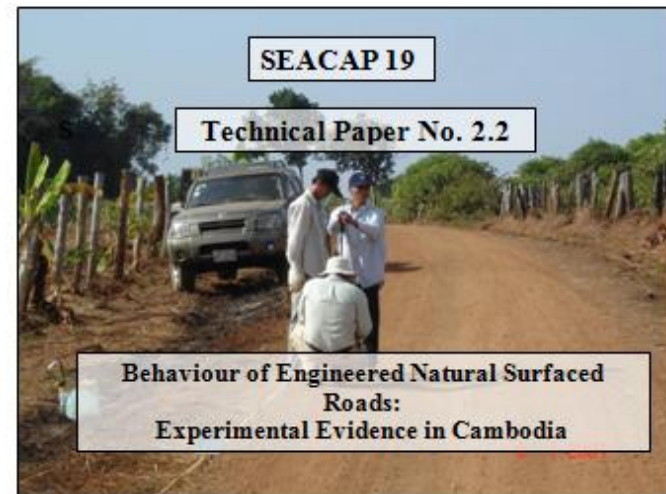
DEVELOPMENT OF LOCAL RESOURCE BASED  
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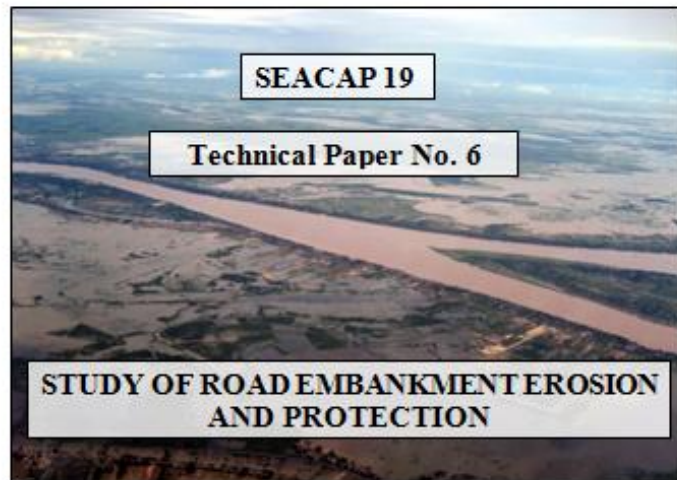
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May 2008

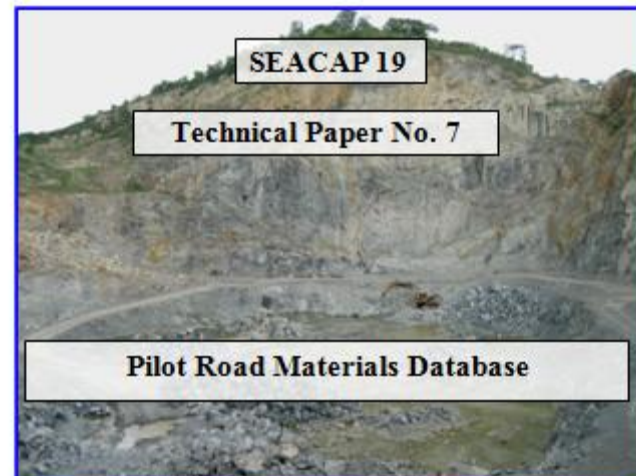
UNPUBLISHED PROJECT REPORT



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# SC19 Impact

- ❑ **Technical Paper No 1 (BRCP)** concluded that bamboo reinforcement is of no significant benefit in the construction of LVRRs made with concrete.
  - Key Rural Road practitioners were consulted and agreed on the finding of this paper. Some of them are taking action to stop promoting the use of thus BRCP technique.

- ❑ **Task 2 - ENS:**
  - ❑ Provides support to rural road engineers for the wider cost effective application of ENS instead of Gravel Surfaced Road.

**Further support in dissemination and training is essential.**



# SC19 Impact

## □ **Task 8 – Low Cost Structure Manual Review**

**Recommendations of this task was taken-up and the draft version of this Manual is now being reviewed to produce a Final version of the Low Cost Structures Manual.**

## □ **Task 3 to 7 and 9: Development of Project Documents**

**Provide a sound basis for further research and indicate the way forward.**

# Key Follow-Up Work

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**SC19 Final Workshop planned for December 2008**

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**Follow up on recommendations of Task 3 to Task 9**

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**Regionally disseminate: TP1, TP2.1**

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**Adapt and regionally disseminate: LCSM**

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**Monitor ENS Sites and past trials and projects.**

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**Dissemination via University Course Modules**

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**Standards and Specifications (as per SEACAP3)**

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**Integrate RRSR Knowledge with other Donor programmes (ADB etc)**



**Thank You**