

# **Rural Road Surfacing Research (RRSR) SEACAP 1 Trials Dissemination Workshop**

## **Outputs, Future Work and Outstanding Issues**

by

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# Re-view: Where are we now?

Identify need

Construction research/compile knowledge

**NOW**

Initial Recommendations



Long Term Monitoring

Disseminate



Final Recommendations



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Mainstream



- Specifications, Norms & Standards
- Road Authority practice
- Academic Institutions
- Training-Mentoring
- Practicing Engineers
- Donor Programmes
- Contractor enabling environment
- International forums

# RRSR Outputs

The RRSR has allowed the following conclusions and recommendations to be made regarding rural road surfacing in Vietnam:-

- ❑ A substantial and valuable database of rural road surfacing knowledge has been established for the wide range of (challenging) Vietnamese conditions, complementing previous rural road research,
- ❑ The Rural Road design approach should be improved to incorporate issues of road task, road environment, local materials available and maintenance regime,
- ❑ Gravel is inappropriate for many locations – its use should be restricted,

# RRSR Outputs, Continued

- ❑ A wide range of proven alternatives to gravel is available – with expected better Whole Life Cost, local resource use & maintenance attributes,
- ❑ Some paving techniques are robust; others carry more risk,



# RRSR Outputs, Continued

- ❑ **A range of improvements to practices is required to achieve more cost-effective & sustainable investment in rural roads,**
- ❑ **Improved design of shoulders & earthwork slopes is also desirable,**
- ❑ **A requirement has been identified for more appropriate technical standards,**
- ❑ **Greater emphasis on appropriate surface selection is desirable at PDoT level,**
- ❑ **A Cost Model, Cost Norms and Standard Specifications have been developed for future management and technical application on rural roads in Vietnam.**

# Currently in process

## Development of :-

- ❑ **Guidelines on long term pavement condition monitoring**
- ❑ **Guidelines on supervision and contractor construction**
- ❑ **Recommendations for maintenance technical guidelines**

**Guidelines and training material: available February 2007**

# The Way Ahead?

**Substantial gains in Knowledge have been achieved by RRSR.**

**However, in general there is now a need for:**

- ❑ **Dissemination & Mainstreaming of this construction knowledge,**
- ❑ **Long term monitoring of the trials performance,**
- ❑ **Development of performance, maintenance and WLC knowledge.**

***This requires continuing commitment from the stakeholders.***

# Future Initiatives Required - 1

- ❑ **Implement performance and maintenance monitoring of the trial roads to develop Whole Life Cost guidance (planned since project inception),**
- ❑ **Develop realistic VoC relationships for the Vietnamese types of transport and conditions, to assist surface option and road investment decision making,**
- ❑ **Develop further the RRST Cost Model to incorporate the full range of surface options and road environments, .....**

## Future Initiatives Required - 2

- ❑ **Develop comprehensive rural road maintenance guidelines and Cost Norms for the range of surface options and environments,**
- ❑ **Revise the MoT Rural Design Guide,**
- ❑ **Plan National programme of dissemination and mainstreaming of RRSR outputs, and maintenance of the web knowledge portal:**

**<http://www.mt.gov.vn/ruraltransport/rrsr/>**

# Desirable Initiatives

**Further desirable initiatives include:-**

- ❑ **Repeat surveys of RRGAP,**
- ❑ **Rural Sealed Road Assessment Programme (RSRAP),**
- ❑ **International Dissemination of RRSR knowledge:**

**e.g. <http://www.gtkp.org/>**

# Future Key Actions

Initial Recommendations:  
Workshop & Report



Long Term  
Monitoring



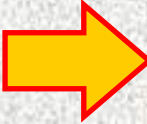
Final  
Recommendations



Disseminate

+

Mainstream



THIS ALL  
REQUIRES  
PLANNING +  
RESOURCES

- Specifications, Norms & Standards
- Road Authority practice
- Academic Institutions
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