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TOMORROW'S ROAD RESEARCH
MONITORING AND MANAGEMENT

7th Framework Programme
Call: SST.2011.5.2-2.
Theme: Advanced and cost effective road
infrastructure
construction, management and maintenance
Starting date: 1 December 2011
Duration: 36 months

<http://trimm.fehrl.org>



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WHY IS TRIMM NEEDED?

Effective, fair and sustainable road management requires streamlined objectives and up-to-date information. Advances in sensing technologies and information processing have the potential to implement new monitoring techniques that deliver key information for road management. Traditional monitoring techniques suffer from deficiencies in cost efficiency, time and spatial coverage, etc, which means that road management lacks widespread objective materials and condition data to be an effective and proactive tool for the improvement of road network performance.

Means of feedback of data into road management systems for future decision making should be integrated. Barriers to the implementation of new monitoring techniques range from insufficient knowledge on actual measurements to ways of utilising information in decision making on strategic, network or object levels, as well as costs.

TRIMM WORK PACKAGES (WPS)

WP 1 - Project Management (VTI)

WP 2 - Asset Management (TNO)

WP 3 - Advanced Bridge Monitoring Techniques (AIT)

WP 4 - Advanced Road Monitoring Techniques (TRL)

WP 5 - Dissemination and networking (VTI)

WORK PACKAGE DIAGRAM TO COME HERE

TRIMM METHODOLOGY

The overall idea behind TRIMM is to map the needs for monitoring data and develop a means of cost-benefit analysis of monitoring techniques and utilisation in asset management. The identified key technologies for monitoring pavements and bridges will then be investigated to improve data processing, interpretation and indicators. Finally, aspects of implementation of indicators in road asset management will be investigated to provide information on application areas, added values, and procedures.

The project will focus on:

- New and emerging technologies for road and bridge monitoring
- High speed monitoring of road pavements
- Multi-purpose monitoring for application across all levels of road asset management
- Enhancing the role of condition data in asset management
- Reducing costs and environmental impact, increasing efficiency and safety