New Road Construction Concept (NR2C)

From 2003-12-01 to 2007-11-30

Project details

<table>
<thead>
<tr>
<th>Total cost:</th>
<th>Topic(s):</th>
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<tbody>
<tr>
<td>EUR 5</td>
<td>SUSTDEV-2002-3.2.2.2.6 - Design and manufacture of new construction concepts for road, rail and inter-modal infrastructures</td>
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<tr>
<td></td>
<td>SUSTDEV-2002-3.4.1.4.3 - Road infrastructure safety</td>
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<tr>
<th>EU contribution:</th>
<th>Call for proposal:</th>
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<tbody>
<tr>
<td>EUR 2</td>
<td>FP6-2002-TRANSPORT-1</td>
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<tr>
<th>Coordinated in:</th>
<th>Funding scheme:</th>
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<tbody>
<tr>
<td>France</td>
<td>STREP - Specific Targeted Research Project</td>
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Objective

European countries contain a large amount of surface transport infrastructure, which sometimes appears inappropriate to meet societal demands. Road-building techniques have developed slowly, due to a limited number of significant technical breakthroughs, poor coordination among stakeholders and a focus directed primarily on resolving current problems. No global European road concept has yet come to the fore; the upcoming enlargement of the European Union should heighten the acute need for a sustainable integrated European surface transport network. Road-related budgets have been steadily decreasing while user expectations become more demanding and contradictory: increased transit capacities, higher safety levels, pollution mitigation (sound, air), aesthetic integration. Creating a global vision for the road of the future and confronting both technological and societal problems within a single research process have thus taken on urgency; such is the objective behind the NR2C proposal. Based on a large survey among road stakeholders, this project is aimed at selecting safe, environment-friendly and subtle concepts in order to strike a compromise between reduced global construction/maintenance costs, safety and environmental criteria. A number of innovations targeted for different social and geographical environments will be selected to achieve pilot applications in support of a long-term perspective. NR2C will consider urban and interurban areas as well as needs specific to Western and Central Europe; bridges, considered as single network nodes, will be studied separately. FEHRL (Forum of European National Highway Research Laboratories) will perform a decisive clustering role in addition to conducting major dissemination actions. Moreover, the management function will be given special attention via a dedicated work package. Special efforts will be made to avoid duplication with ongoing projects backed by either previous FPs or other European and international bodies.

Related information

**Result In Brief**
Lowering the volume on noise pollution

**Report Summaries**
Development of new concepts for the road of the future
Final Report Summary - NR2C (New Road Construction Concept)
Innovations for civil engineering structures
## Coordinator

<table>
<thead>
<tr>
<th>LABORATOIRE CENTRAL DES PONTS ET CHAUSSEES</th>
<th>France</th>
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<tbody>
<tr>
<td>Boulevard Lefebvre 58</td>
<td>PARIS</td>
</tr>
<tr>
<td>France</td>
<td></td>
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Administrative contact: Brigitte MAHUT, (Deputy Technical Director)
Tel.: +33-1404-35091
Fax: +33-1404-36520

## Participants

<table>
<thead>
<tr>
<th>MINISTERIE VAN VERKEER EN WATERSTAAT</th>
<th>Netherlands</th>
</tr>
</thead>
<tbody>
<tr>
<td>Van der Burgweg</td>
<td>5044 DELFT</td>
</tr>
<tr>
<td>Netherlands</td>
<td></td>
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Administrative contact: R. VAN DER VELDEN

<table>
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<tr>
<th>ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE</th>
<th>Switzerland</th>
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<td>LAUSANNE</td>
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Administrative contact: Jean-claude TURTSCHY
Tel.: +41-216932343
Fax: +41-216936349

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<tr>
<th>MSC MAGYAR SCEAURROUTE LTD ENGINEERS AND CONSULTANTS</th>
<th>Hungary</th>
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<tr>
<td>Hungary krt 113</td>
<td>BUDAPEST</td>
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<td>Hungary</td>
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</tbody>
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Administrative contact: György DUMA
Tel.: +36-12522559
Fax: +36-12513325

E-mail
FORUM OF EUROPEAN NATIONAL HIGHWAY RESEARCH LABORATORIES
Boulevard de la Woluwe 42, Boite 3
BRUXELLES
Belgium

Administrative contact: Stephen Mark PHILLIPS
Tel.: +32-27758238
Fax: +32-27758254
E-mail

OPZOEKINGSCENTRUM VOOR DE WEGENBOUW
Bd de la Woluwe 42
BRUXELLES
Belgium

Administrative contact: Ann VANELSTRAETE
Tel.: +32-7660402
Fax: +32-7671780
E-mail

AUTOstrade PER L' ITALIA S.P.A.
Via A. Bergamini 50
ROMA
Italy

Administrative contact: Marcello LUMINARI
Tel.: +39-0643632845/64
Fax: +39-0643632864
E-mail

GREISCH INGENIERIE
Parc Scientifique du Sart-Tilman - Allée des Noisetiers, 25
LIEGE
Belgium

Administrative contact: Vincent DE VILLE DE GOYET
Tel.: +32-43661616
Fax: +32-43661618
E-mail

EUROVIA MANAGEMENT SNC
Place de l' Europe 18
RUEIL MALMAISON
France

Administrative contact: Jean-pierre MARCHAND
Tel.: +33-147164679
Fax: +33-147163801
E-mail