Federal Highway Research Institute (BASt)

- Technical and Scientific Research Institute
- Responsible to the Federal Ministry of Transport, Building and Urban Development (BMVBS)
- Approximately 400 Employees
- Place of Training and Education

Responsibilities

- Scientifically Sound Decision Support on Technical Issues and Questions of Traffic Policy for the Ministry
- Drawing up of Regulations and Standards at National and European Level
Location and Tasks

• Founded in 1951
• Since 1983 in Bergisch Gladbach-Bensberg near Cologne
• Offices and Laboratories
• 10 Halls with Testing Facilities
• Research
• Advice
• Tests
• Standards
Behaviour and Safety

- Safety Concepts, Safety Communication
- Accident Statistics, Accident Analysis
- Traffic Psychology, Traffic Medicine
- Driver Training, Driver Improvement
- Assessment Agency for Bodies Providing Driving Licence Services
Traffic Engineering

- Highway Design, Traffic Flow, Traffic Control
- Traffic Statistics, BISStra
- Environmental Protection
- Highway Equipment
- Traffic Management and Road Maintenance
- Expert Centre Road Asset Management
Automotive Engineering

- Active Vehicle Safety, Emissions, Energy
- Passive Vehicle Safety, Biomechanics
- Vehicle-Pavement Interaction
- Co-operativ Traffic and Driver Assistance Systems
Bridges and Structural Technology

- Concrete Structures
- Steel Structures, Corrosion Protection
- Tunnel and Foundation Engineering, Tunnel Operation, Civil Security
- Maintenance of Engineering Structures
Highway Construction Technology

- Road Condition Registration and Evaluation, Measuring Systems
- Earthworks, Mineral Aggregates
- Innovation, Climate Change
- Dimensioning and Maintenance of Roads
- **Asphalt Pavements**
- Chemistry, Environmental Protection Issues, Laboratory Services
- Concrete Pavements, Low-noise Surface Textures
Section Asphalt Pavements – Permanent Activities

- Carrey out own projects
- National committees
  FGSV-committees Working Group 7 Asphalt pavements
- International committees
  CEN, bi- and multinational working groups
- Supervision of external research
- Setting up exploratory test sections on roads
- Statements for ministry (BMVBS) and third parties
Section Asphalt Pavements – Current research activities

- Project PAST (Prozesssicherer automatisierter Straßenbau (process-secured automated road construction))
- Performance-testing (lab - plant - layer)
- Multiple binder modification
- Use of rejuvenators
- Reduction of temperatures e.g. by using additives
- Low noise asphalt pavements
BASt Products

BASt divisions
- Distribution of Staff Capacity over Product Groups in 2009 -

- Research Initiated by the BMVBS: 33.3%
- Research Initiated by the BASt: 8.4%
- External Research: 6.0%
- Research with Third-party Resources: 12.8%
- Measuring and Quality Assessment: 16.8%
- Committees: 7.0%
- Expert Opinions and Knowledge Transfer: 12.6%
- Research Support Services: 3.1%
BASt Financial Resources

- Annual Budget of BASt 36.3 Million Euro
- Resources from the Research Budget of the Federal Ministry of Transport, Building and Urban Affairs 5.1 Million Euro

Total 41.4 Million Euro

As per: 2009