

NCHRP Process

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Operational Strategies

- Transportation Agency ITS Infrastructure Decisions Considering V2I Deployment (NCHRP 20-07/376, final report received)
- Planning and Evaluating Active Traffic Management Strategies (NCHRP 03-114, 2018 Q4)
- Integrating Freight, Transit, and Incident Response Stakeholders into ICM (NCHRP 03-121, 2019 Q2)
- Effectiveness of Work Zone Transportation Management Plan (TMP) Strategies (NCHRP 03-111, 2019 Q2)
- Operational Standards for Highway Infrastructure (NCHRP 03-126, RFP in Oct)

Performance Management

- Performance-Based Management of Traffic Signal Systems (NCHRP 03-122, 2018 Q4)
- Analyzing Data for Measuring Transportation Performance by State DOTs and MPOs (NCHRP 20-05/48-14, 2018 Q4)
- Business Intelligence for Transportation System Management and Operations and Agency Decision Making (NCHRP 03-128, RFP in Oct)
- Benefits and Best Practices in Implementing Decision Support Systems for Real-time Transportation Management (NCHRP 03-131, RFP in Oct)

Traffic Incident Management

- Guidance for Implementation of TIM Performance Measurement (complete)
- AASHTO TIM Business Plan (complete)
- Guidance on Quantifying Benefits of TIM Strategies (NCHRP 03-108, publication pending)
- Leveraging Big Data to Improve TIM (NCHRP 17-75, 2018 Q2)

Connected & Automated Vehicles

- Presented yesterday

NCHRP Report to AASHTO TSO

<http://www.trb.org/nchrp/Pages/775.aspx>

NCHRP: AASHTO's Research Program Since 1962

Responsive to state DOTs

- Sole source of funds (5.5% of State Planning & Research)
- Largest submitter of problem statements
- Select which projects to fund

Focus on applied research

- Shared issues, usually nationally

Contract research

- Oversight/guidance by expert panels
- Research by contractors
- Facilitation by staff

Partnership between AASHTO, FHWA, & TRB

Typical NCHRP Projects

- ◎ Recommended AASHTO Guides and Specifications
- ◎ Guides for practitioners
- ◎ Software products
- ◎ New or improved models/tools
- ◎ New or improved operations and services
- ◎ New or improved testing/evaluation techniques
- ◎ Fact finding (white papers)

Typical Project Process

- State DOTs, AASHTO Committees, & FHWA submit problem statements by **OCT 15**
 - Technical Committees cannot submit
 - Design Committee's deadline is ~SEP 1
- NCHRP and FHWA staff review submittals by December
- State DOTs ballot on problems by February
- AASHTO Standing Committee on Research selects projects in March
- AASHTO Board of Directors approves program

Synthesis Project Process

- Anyone submits simple problem statements in February on website
- NCHRP 20-05 Panel selects ~12 projects
- NCHRP announces program and solicits nominations for panel members in May
- Prospective contractors submit letters of interest

Highway Quick Response Process

- AASHTO Highway Subcommittees submit simple problem statements (\leq \$100,000) before AASHTO Spring and Annual Meetings
 - Tech. Committees submit through SCOD
- Chairs of AASHTO Highway Subcommittees select during AASHTO Meeting
- Panel usually drawn from Subcommittee
- Panel usually requests a sole-source proposal

Future Quick Response Process (Task Force Recommendations)

- Highway, Planning, Environment, Public Transportation funds pooled (\$3M)
- Any Committee will be able to request projects
 - Urgent requests at any time
 - Non-urgent requests should be part of a plan that may include several projects
- Products should be publicly available, disseminated, and archived
- To be further developed in Aug. SCOR meeting
- **Current processes will continue until a new one is developed**