The Airport Cooperative Research Program

Terry Anderson, ACRP Ambassador
Transportation Research Board

- One of seven program units of the National Academies
- Promotes innovation and progress in transportation through research and information exchange
- Administers several Cooperative Research Programs, including ACRP
- Oversees 200+ standing committees and task forces
Organization

- National Academies of Sciences, Engineering and Medicine (NASEM)
  - 7 Program Units

- Transportation Research Board (TRB)
  - Cooperative Research Programs (CRP)
  - Technical Activities Division
    - (Standing Committees, Task Forces, Meetings)

- Airport Cooperative Research Program (ACRP)
  - Oversight Committee, Program Officers
  - Project Panels, Researchers
An industry-driven, applied research program that develops near-term, practical solutions to airport challenges

Driven by and for the airport industry

Authorized by Congress; sponsored by FAA

Research is conducted by contractors

Volunteer panels develop scope, select contractors, oversee research, and review results

The ACRP Oversight Committee reviews, selects, and funds projects
ACRP Research Areas

- Administration
- Environment
- Policy and Planning
- Safety
- Security
- Human Resources
- Design
- Construction
- Maintenance
- Operations

Special Projects
Year-round
Research ideas are collected and developed in IdeaHub

March 20th
Deadline for problem statement submissions via IdeaHub

April-June
Begin evaluation of problem statements

July-August
AOC selects new projects from problem statements

July-September
Open solicitation for new Synthesis and Legal topics

August-September
Solicit nominations for panel volunteers

October
Select new Synthesis and Legal topics

October-November
Begin forming project panels and Synthesis topic panels

November-December
Begin issuing RFPs for new projects

January
Begin synthesis meetings

February
Review proposals and select research contractors

ACRP Annual Research Cycle
IdeaHub is...

A web-based platform for collecting and exchanging research ideas

Research ideas are tagged, searchable, and open to comments and suggestions
ACRP IdeaHub

- IdeaHub fosters collaboration to help grow ideas into high-quality problem statements
- Anyone can add a research idea and view, vote, and comment on others’ ideas
- Idea Owners guide ideas through development and submit problem statements
- Subject matter experts can volunteer and serve as Idea Mentors
Idea Owners and the IdeaHub community refine ideas into problem statements.

ACRP “harvests” problem statements annually (on March 20th).

Problem statements undergo industry evaluation.

The AOC ultimately selects problem statements to fund that:

- Are relevant and valuable to many airports
- Are technically feasible
- Address a research gap
- Produce results that can be easily implemented
Do you have an idea for airport research or a synthesis of practice?

If you know an industry-wide problem that could use some attention, enter it into IdeaHub! To share your idea, click on the “Create New Idea” button at the top of the navigation sidebar on the right. You will then be asked to provide some information, including if you think your idea lends itself as a traditional research project or a synthesis of practice, a title, summary, objective, and background to help the industry understand the situation. You can also select tags to draw attention to any cross-cutting topics of your idea.

ideahub.trb.org
ACRP’s Research Process

1. A project panel is formed
2. Panel develops scope of work from original problem statement
3. Panel reviews proposals and selects a contractor
4. Panel oversees contractor’s progress through teleconferences and meetings
5. Panel comments on all reports and deliverables to improve value to industry
ACRP Today

wał 600+ research projects authorized since 2006
 More than 420 ACRP-produced resources are readily available to industry practitioners

 않은 700+ industry volunteers participating
 Participants come from airports, airlines, consulting firms, academia, state and federal government agencies, and industry associations
Five Ways to Get Involved

1. Join the ACRP IdeaHub community
2. Volunteer for a project panel
3. Prepare a research proposal
4. Answer an ACRP survey
5. Use the research results
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(1) Join the ACRP IdeaHub Community

- Visit ACRP’s website to register yourself in IdeaHub
- Submit your research idea(s)
- Collaborate with others to develop and refine idea(s) into problem statements
(2) Volunteer for a Project Panel

- Project panels provide technical guidance and counsel to projects from start to end
- Nominations to serve on project panels are usually due in August or September
- Using the MyACRP portal, nominate yourself or a colleague
(3) Prepare a Research Proposal

- Any individual, agency, or other entity may submit a proposal in response to an RFP

- Detailed instructions for proposers are available on [ACRP’s website](http://acrp.org)
(4) Answer an ACRP Survey

- *Researchers* need input from airport practitioners to identify best practices, create case studies, and complete research.
- *ACRP* needs input from industry stakeholders to improve the value and utility of its research products and programs.
(5) Use the Research Results!

- Comprehensive Reports and Guidebooks
- Syntheses
- WebResources
- Legal Research Digests
- Research Results Digests
- Impacts on Practice
- Tools

All are FREE at www.TRB.org/ACRP
Are You Using ACRP Research at Your Airport?

Did you use Report 146 to develop a new transportation plan?

Or maybe you used Synthesis 57 to plan for an unusual influx of air traffic for the Super Bowl?

ACRP WANTS TO HEAR HOW YOU USE THE RESEARCH!
Other Ways to Participate

Visit us online: www.trb.org/ACRP
Get Social

❖ Participate in online discussions with our LinkedIn group

❖ Share YOUR success
  #ACRPImpact

❖ Get program updates
  @ACRPambassadors
Research Results

Report 180: Guidebook for Quantifying Airport Ground Access Vehicle Activity for Emissions Modeling

» ACRP Project 02-62, published December 2017
» Research Agency: KB Environmental Sciences, Inc.
» Principal Investigator: Michael Kenney and L. Carrol Fowler
» Subcontractors: VHB, Sierra Research
» ACRP Project Manager: Joseph Navarrete
Research Results

Synthesis 84: Transportation Network Companies: Challenges and Opportunities for Airports

- ACRP Project 11-03, Topic S03-11, published September 2017
- Research Agency: InterVISTAS Consulting
- Principal Investigators: Peter Mandle and Stephanie Box
- ACRP Project Manager: Gail R. Staba
Model for Improving Energy Use in Airport Facilities

- Best practices for reducing energy use
- Implementing an energy tracking program
- Case studies
Legal Research Digests

Legal Research Digest 3

Survey of Law and Regulations of Airport Commercial Ground Transportation

- Listing of related statutory resources
- Web links to various resources
- Bibliography of notable articles
www.TRB.org/ACRP

Regular news and updates on...

- Upcoming and ongoing research projects
- New publications
- Success stories
- Announcements
- And more!