

## Airport Cooperative Research Program Problem Statement Index Fiscal Year 2024

Idea No.	Title
24-971	Wildland Fire Mitigation and Critical Infrastructure Mapping for Response
24-972	Airport Maintenance Handbook
24-975	Timeliness of the Approval Process for AIP Grants in Inclement Climates
24-976	Dealing with Contaminated Soil on an Airport Project
24-977	Change order games, document manipulation, facility life cycle delivery.
24-978	FAA Airport Design Standards Lookup and Computation Webportal
24-979	Accurate assessment of airport pavement and obstacles.
24-980	Accommodating Passengers with Alzheimer's or Dementia and Their Travel Companions
24-981	Detecting, Identify, and Managing Hazardous Goods in Passenger Air Transport
24-982	Vertiport: From the Planning, Design, Construction, to Operation/Maintenance
24-983	Operational Readiness and Testing (ORAT) for Airfield Infrastructure Projects- Guidelines and Practices for
	Implementation
	Selecting and Implementing appropriate Green standards and certification/rating system for Airport Capital
24-984	Improvement Projects - A Guide.
24.005	Estimating Embodied Carbon and Operational Greenhouse Gas Emissions from
24-985	Glycol Collection, Recovery, Recycling and Treatment Technologies
24-987	Potential for "airtags" to Enhance Baggage Operations
24-988	Assessing the Climate Footprint of Airport Ground Access
24-989	Planning for the Emergence of New Aviation Fuels and Energy Sources
24-990	ACRP Insight Event: Building Together Stronger Airside Safety
24-991	Impact of Mobility-as-a-Service (MaaS) at Airports
24-992	Accommodating Cognitive Diversity at Airports
24-993	Higher Airspace Operations (HAO): A Primer for Airports
24-994	Geotechnical Resilience of Airport Pavements on Soft Grounds
24-995	Planning for Spaceport Activities at Airports
24-996	Development of Design Elements of the Effect of Joint Sealants on Concrete Pavement Performance
24-997	Guidebook for In-Terminal Airport Concession Strategies and Business Models
24-1000	Virtual Queuing at Airport
24-1001	Value Engineering Applied to Airports
24-1002	Juneau Airport Wind System (JAWS)
24-1003	Adapt Juneau Airport Wind System (JAWS) for Other Airports
24-1004	Update on Preparing Airport Emissions Inventories for State Implementation Plans
24-1005	A Framework for ORAT: Approach and Lessons Learned
24-1006	Runway High Speed Exit Risk Analysis
24-1007	Aircraft Rescue and Fire Fighting (ARFF) Equipment Index Determination
24-1008	Developing a Rating Procedure for Runway Groove Condition and Recommended Maintenance Practice linked to
	Condition Triggers
24-1009	Manage ever-changing increase in air travel for optimal customer experience.
24-1010	Assessing Induced Air Travel Demand at Airports
	Methodology to Improve quantification of fugitive glycol and its contribution to airport stormwater runoff and
24-1011	ground water quality.
24-1012	Effect of Concrete Pop-Outs on Airfields

24-1014	Rapid Strength, Low Carbon Concrete Overlays for Airfield Pavement
24-1015	Emissions Reporting for Airports
24-1016	Dashboard for Airport Situational Awareness
24-1017	Opportunities for Increased Airport Capacity Through Improved Efficiency
24-1018	Airport Redundant or Backup Energy Systems Evaluation
24-1019	Improving Extreme Weather Resiliency of Airport Infrastructure
24-1021	Safety Implications of Hydrogen at Airports
24-1022	Advanced Air Mobility Airport Noise Estimation Tool
24-1023	Green Energy - Solar Farm Development at Airports
24-1024	Assessing the Impact of Avigation Easements on Property Values
24-1025	Trauma-Informed Design: Improving Airport Design for Trauma-Experienced Individuals
24-1026	Understanding Implications of Regional Curfews and Night Flight Bans on US Airport Operations
24-1027	Integration of Hydrogen-Powered Aircraft with Airports- Opportunities and Challenges
24-1029	Understanding the Impact of Climate Change on Forecasting Future Activity Levels
24-1030	Business Intelligence for Airports
24-1031	Spatial Data Maintenance Lifecycle
24-1032	Facilitating a Better Understanding of Water Quality Aspects of Stormwater Runoff at General Aviation Airports
24-1033	Integration of Next Generation SAF into Airports
24-1034	Vertical Integration of SAF Production at Airports
24-1035	Physical, Systems, and Policy Barriers Wheelchair Users Encounter at Airports
24-1036	To increase Level of Service (LOS) at bag claim areas and improve bag claim process at airports.
24-1037	Guidance for the Use of Autonomous Technology in Airports
24-1038	Guidance for Automation to Reduce and Optimize Airport Staffing
24-1039	Best Practices & Alternative Approaches to Maximize Commercial Airport Revenues
24-1040	Guidance for Smart Device Application-Based Support for Sensory Disabled Travelers at Airports
24-1041	Assessing, Testing, and Improving Airport Emergency Management Programs
24-1042	Implementation, Integration, and Support for Airport Climate Resilience and Adaptation Plans
24-1043	Economic Impact of Promoting Additional Aviation Services in Underserved Markets
24-1045	New Revenue Sources and Financing Alternatives for Small and Mid-Sized Regional Airports
24-1046	Runway Congestion Best Practices
24-1047	PFAS Containing Investigation-Derived Waste Inventory, Management, and Treatment
24-1048	Adding Embodied Carbon to Airport Decarbonization Goals
24-1049	Integrating Airport Information Systems (an Update)
24-1050	Nowcast System to Estimate Air Quality Around Major Airport
24-1051	Predictive Analytics and Integrated Asset Management Program Best Practices
24-1052	Assessing Community Annoyance of Noise from Unmanned Aerial Systems (UAS)
24-1053	Airport Energy Resiliency - ACRP Insight Event
24-1054	Environmental Impacts from Large UAS (L-UAS) and Electrical Vertical Takeoff and Landing eVTOL Aircraft
24-1055	Augmented Reality (AR) and Virtual Reality (VR) in the Airport Environment
24-1056	Effectiveness of Technology to Improve Airport Customer Experiences
24-1057	Promoting a Clean and Uncongested Environment for the Long-Term
24-1058	Planning and Design Guidance for Post-Security Corridors
24-1059	A Guidebook for Estimating Airport Traffic Leakage
24-1060	Update to ACRP 49: Collaborative Airport Capital Planning Handbook
24-1061	Review and Update of ACRP 'Operations' Products