Pioneering Innovative Mobility Solutions

Advanced Mobility Group (AMG) is your strategic partner for the future of transportation, specializing in planning, design, delivery, operations, data analytics, and program management for connected and automated vehicle (CAV) and smart infrastructure. We stand out due to our innovative funding, strategic visioning, and system integration, coupled with extensive public sector experience in consensus building, guiding policy development and legislative approvals. Through AMG's Exploration Lab and GoMentum Station, we swiftly test and implement advanced technologies to navigate complex transportation challenges and shape the next generation of mobility.

SHARED AUTONOMOUS VEHICLE PROGRAM

AMG EXPLORATION LAB

AUTOMATED DRIVING SYSTEMS (ADS)-COUNTY HOSPITAL ACCESSIBLE TRANSPORTATION

CONNECTED AUTONOMOUS VEHICLE SIGNAL LAB

DYNAMIC PERSONAL MICROTRANSIT

GOMENTUM STATION

OUR VISION

Leading the way in autonomous mobility, we are your strategic partner in planning, design, operations, and data analytics, driving the future of mobility services.

YOUR STRATEGIC INNOVATION PLANNING PARTNER

At AMG, we lead the way in transforming transportation through Strategic Innovation Mobility Planning. Our approach integrates cutting-edge technologies, such as autonomous vehicles, smart infrastructure, and zero-emission mobility, ensuring sustainable, efficient, and accessible solutions.

We align innovative projects with public policy goals and navigate the complexities of funding and regulatory approvals, enhancing their feasibility and impact. Through partnerships with the Federal Transit Authority (FTA), Federal Highway Administration, and the State of California, we secure funding and support for deploying advanced transportation technologies and obtain the necessary permits and approvals, thereby improving safety, accessibility, and sustainability.

As your strategic partner, we engage deeply with stakeholders, fostering collaborative partnerships and leveraging innovative financing to develop robust, scalable solutions. Our expertise includes feasibility studies, operational design and stringent compliance with regulatory standards to seamlessly integrate advanced technologies with existing systems.

ADAPTING INNOVATION ACROSS ALL TRANSPORTATION MODES

At AMG, our team of talented engineers, programmers, and data scientists excels in developing and adapting emerging technologies for various modes of transportation. We don't just specialize in shared autonomous vehicles (SAVs); our expertise spans the entire mobility spectrum. Whether it's integrating advanced technologies into public transit, enhancing bicycle and pedestrian safety systems, or developing smart infrastructure solutions, AMG's holistic approach ensures that our innovative solutions are versatile and scalable. We are committed to transforming the future of mobility through cutting-edge research, rigorous testing, and practical deployment, addressing the unique needs of diverse transportation modes and creating sustainable, efficient, and accessible systems for all.

MULTI MODAL OPTIONS

- Bus Rapid Transit, Shared Autonomous Vehicles (SAV), and Bus on Shoulder
- Bicycle and Pedestrian
- Transportation Demand Management (TDM)
- Highway Infrastructure, Integrated Corridor Mobility (ICM), and Dynamic Pricing
- Smart Signals
- Dynamic Personal Micro Transit
- Ferry Service

GRANT WRITING EXCELLENCE

Grant writing secures essential funding and resources needed to develop and deploy cutting-edge transportation solutions. Over the last six years, AMG has been extremely successful in grant writing, securing over $300 million in project funding from various grants. This financial support enables the implementation of advanced technologies and infrastructure improvements that might otherwise be unattainable. Our success stems from our deep understanding of state and federal funding processes, mastery of NOFO structures, and expertise in application development and financial and progress reporting requirements. At AMG, our proven track record in grant writing has significantly contributed to advancing innovative transportation solutions, making us a strategic partner in building sustainable and intelligent infrastructure for the future.

Our qualifications extend beyond securing funding to efficiently delivering projects. We have robust capabilities in grants administration and financial management, ensuring accurate and timely financial reporting that aligns with grant requirements.

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AMG ADVANCED MOBILITY GROUP

CORE TRANSPORTATION INNOVATION SERVICES

BEST PRACTICES IN PROGRAM MANAGEMENT AND PROJECT DELIVERY

AMG excels in managing project deliverables, adhering to deadlines, and ensuring that all required documentation is completed and submitted on time. Our comprehensive project management approach includes meticulous planning, execution, and monitoring to meet all grant and contractual obligations, thereby ensuring the successful implementation and sustainability of innovative transportation solutions.

LESSONS LEARNED

Lessons learned from innovative deployments and proof of concepts highlight the importance of rigorous testing, real-world application, and stakeholder engagement in refining and scaling new technologies. This process is crucial for identifying potential challenges, optimizing performance, and ensuring that solutions are both practical and effective for broader implementation.

AGILE DESIGN AND IMPLEMENTATION

Expert operational design for route mapping, stop placement, and integration with public transit systems. We employ an agile process to ensure rapid iteration and improvement, adapting to changing needs and challenges efficiently. Our vehicle procurement expertise involves selecting and deploying suitable autonomous vehicles (AV) and SAVs, including electric, zero-emission options. We provide comprehensive infrastructure support, offering guidance on charging infrastructure, fleet management, and safety requirements for AV deployments.

OPERATIONS MANAGEMENT

Efficient fleet operations through real-time monitoring, scheduling, and system integration; ensuring passenger security with safety oversight and compliance with local, state, and federal regulations for AV deployments.

DATA ANALYSIS AND REPORTING

Strong capabilities in aligning data management and real-time processing with decision-making goals. The ADS program collects data to inform performance measures, safety standards, and rulemaking in the AV environment.

SUSTAINABLE AND SCALABLE SOLUTIONS

Promoting zero– and low-emission mobility partnering with manufacturers to advance SAE Level 4 autonomy in public transportation, we ensure that projects are well-funded, collaboratively developed, and expertly managed. These practices enable the creation of transportation systems that can be replicated and expanded to benefit broader regions and communities.

PROFESSIONAL AUTONOMOUS VEHICLE SERVICES

- Planning and Consulting
- Design and Implementation
- Operations Management
- Data Analysis and Reporting
- Sustainability and Future

PARTNER WITH AMG TO REVOLUTIONIZE MOBILITY

AMG IS COMMITTED TO ADVANCING TRANSPORTATION TECHNOLOGIES

SAV SOLUTION– THE LOW-SPEED ELECTRIC AUTONOMOUS SHUTTLE

SAV service with low-speed electric autonomous shuttles can enhance first- and last-mile connectivity, improving safety and exposing users to new technology. AMG's work in the AV environment focuses on data gathering, fostering economic development, and building capacity to inform and integrate mobility technologies across various transportation modes.

SAVs that use advanced sensors and GPS for navigation, make them ideal for short-distance transportation at campuses, business parks, and city centers, reducing traffic and emissions.

The PRESTO initiative, led by CCTA with AMG's support, integrates AVs into public transportation to improve connectivity. Key projects include zero-emission autonomous vehicles in Walnut Creek's Rossmoor senior community, free on-demand service around Contra Costa County hospital, and connected vehicle tests along the I-680 corridor.

These deployments, part of a federal ADS grant program, gather AV data to inform public policy, advance transportation safety, and develop comprehensive future mobility solutions through state and federal collaboration.

EXPLORATION LAB

AMG's Exploration Lab in Walnut Creek is a hub for testing AV interactions with vehicle-to-everything (V2X) infrastructure, including adaptive traffic signals and emergency vehicle preemption (EVP), in a controlled environment. This allows us to rapidly transition tested concepts to regional deployments.

Our skilled team of engineers, programmers, and data scientists has extensive hands-on experience in developing and adapting emerging technologies into real-world applications. The lab enables us to advance prototypes through planning, designing, testing, and deployment phases.

Importantly, the work we do in AV can be adapted to other modes of transportation, showcasing our versatility and commitment to innovation across the entire mobility spectrum.

EXPERTISE AND ADDED VALUE

- Unparalleled CAV industry knowledge with hands-on deployment experience: ADS, CAV, vehicle-to-vehicle (V2V), vehicle-to-infrastructure (V2I), V2X, and DSRC
- Expertise in holistic system operational improvement strategies: ICM, ATSPM, ARM, Smart Signals, TSP, and Incident Management
- Fiber master plans, communication roadmaps and Transportation Management Centers
- Expert in Agile methodology for innovative transportation systems planning
- Experts in MaaS, bus on shoulder, and Transportation Demand Management deployment strategies
- Access to GoMentum Station test facility and AMG Exploration Lab where the team rigorously tests and refines these technologies.
- Familiar with Caltrans project delivery and innovative highway improvements like express lanes and coordinative adaptive ramp metering

TECHNOLOGY FACILITATION

PROGRAM MANAGEMENT

MOBILITY OPTIONS

INNOVATIVE TRANPORTATION SOLUTIONS

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