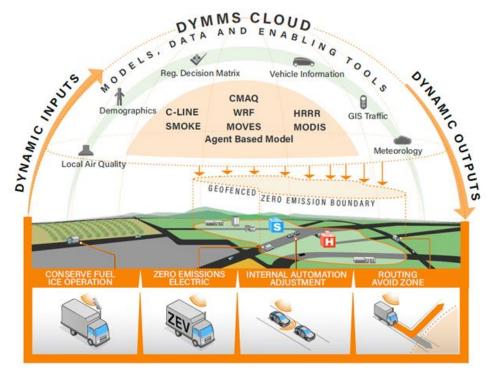
Bourns College of Engineering Center for Environmental Research and Technology Dynamic Mobility Management Systems (DyMMS) Consortium

UCR's College of Engineering - Center for Environmental Research and Technology (CE-CERT) DyMMS Consortium will gather experts in industry, academia, and regulatory agencies to revolutionize operation of our vehicle and transportation system in order to maximize public health, mobility, cost efficiency and environmental benefits. The consortium wil leverage emerging revolutions in automation, connectivity, electrification and shared mobility together with advances in on-board sensing and distributed computing.

DYNAMIC MOBILITY MANAGEMENT SYSTEMS (DyMMS)

The DyMMS Consortium will re-engineer the relationship between mobility, quality of life, environmental protection, and public health and safety. Outcomes will include reduced congestion, air pollutant emissions and exposure, and lower cost technology.



DyMMS will create an innovation ecosystem in which researchers from academia, industry, and government can work collaboratively to:

- Overcome fundamental challenges with monitoring vehicle activity and emissions;
- Integrate advances into models and systems for a new generation of tools to manage mobility within an urban setting;
- Demonstrate solutions in testbeds and real-world settings consider societal implications, including emerging transportation modes, maximizing safety, environmental justice, and regulatory strategies.

WE INVITE YOU TO JOIN THE DYMMS CONSORTIUM AND PARTAKE IN CHAMPIONING THE WAY TOWARDS IMPROVED PUBLIC HEALTH AND ENVIRONMENTAL SUSTAINABILITY.

UCR College of Engineering- Center for Environmental Research & Technology Dynamic Mobility Management Systems will collect data from vehicles, the transportation system, and the atmosphere and use these inputs to implement realtime decisions on vehicle behavior and energy management.



BENEFITS OF MEMBERSHIP

Key benefits to DyMMS industry members will include:

- First access to new technology
- Ongoing access to multidisciplinary innovations via workshops & research reviews
- > 1:1 collaborations with faculty, researchers and graduate students
- > Branding opportunities for members

OBJECTIVES

- Integrate advances into models and control systems for a new generation of tools to manage mobility within an urban setting
- > Generate cutting-edge research and technology
- > Maximize safety, environmental justice, and regulatory strategies
- Overcome fundamental scientific and engineering challenges with monitoring vehicle activity and emissions
- Seed Graduate Student Fellowships for relevant and expert work force development to support successful careers in industry and government
- Direct policy engagement and the education of our future scientists and engineers with policy leaders
- > Encourage directed research agreements through a fast track process
- Host Visiting Industry Fellows (VIF)

POSSIBLE PROJECTS FOR YEAR 1 CONSORTIA RESEARCH

One of the first objectives of the DyMMS Consortium will be to discuss and refine the objectives of the consortium and identify projects of interest to its members. Initial discussions have yielded the following suggestions:

- Develop a prototype distributed multiscale management (control) systems, which will act on real-time data and modeling outputs to instruct vehicles and transportation infrastructure to dynamically adjust their operating modes, local behavior, and regional activity to optimize safety, mobility, efficiency, and air pollution exposure for sensitive populations.
- 2. Explore continuous feedback management strategies i.e. incentivizing hybrid-electric vehicles to switch to battery power when passing schools or hospitals.
- 3. Explore the barriers and potential policy solutions to the implementation of DyMMS.

For more information about DyMMS Consortium membership, upcoming meetings or for general inquiries, please contact Mike Allen at (951) 827-6569.

DyMMS Consortium Team

Consortium CEO and Research Director Matthew Barth, Ph.D.

Consortium Industry Liaison Mike Allen mrallen@engr.ucr.edu

Anticipated participation will include members from:

Industry

Regulatory Agencies

Academia

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