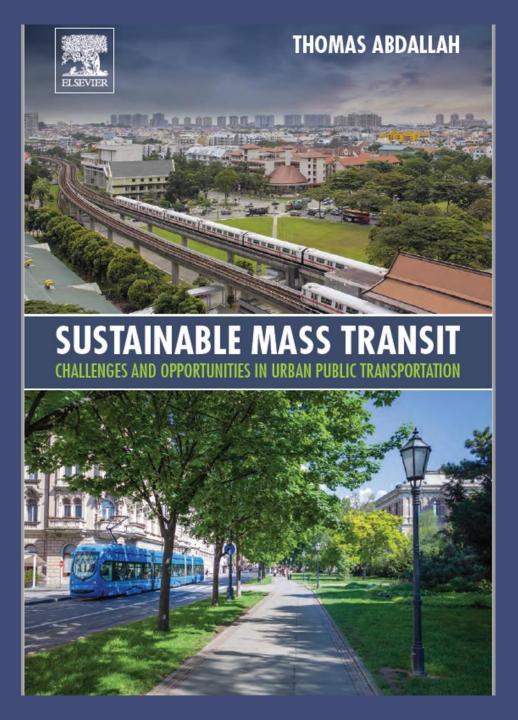
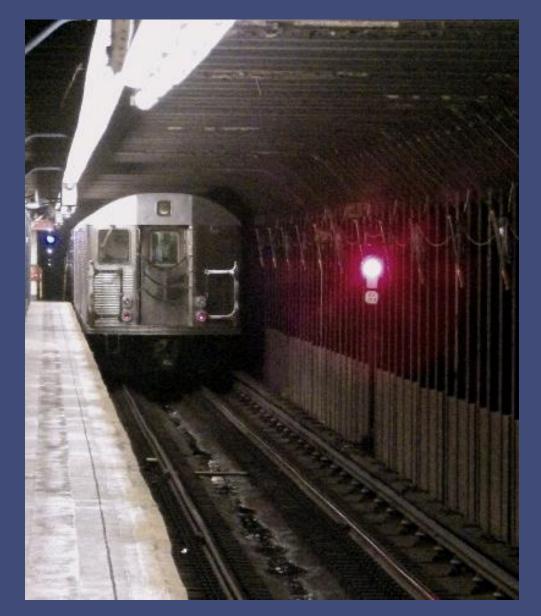
SUSTAINABLE MASS TRANSIT

Challenges and Opportunities in Urban Public Transportation By Thomas Abdallah, P.E. LEED AP ENV SP October 25, 2019



MASS TRANSIT



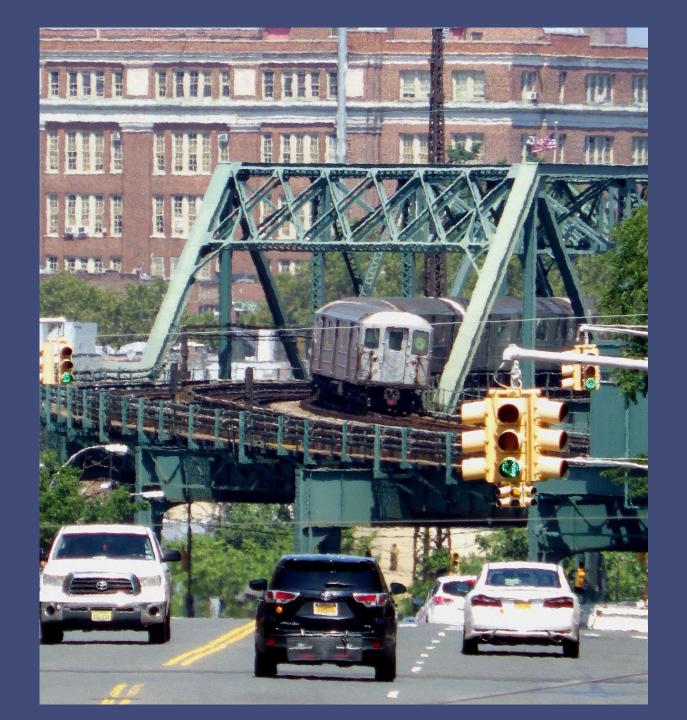














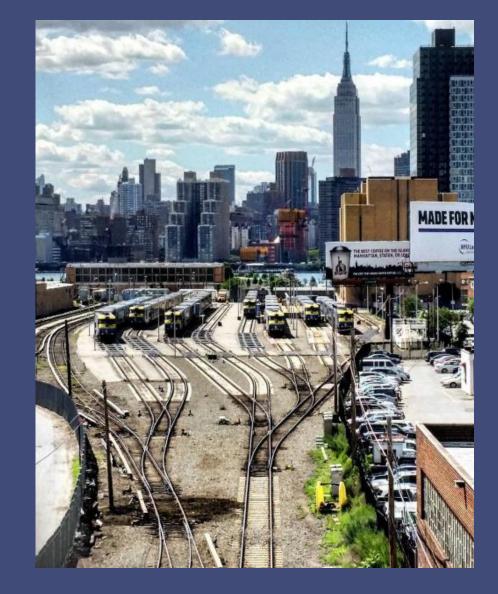


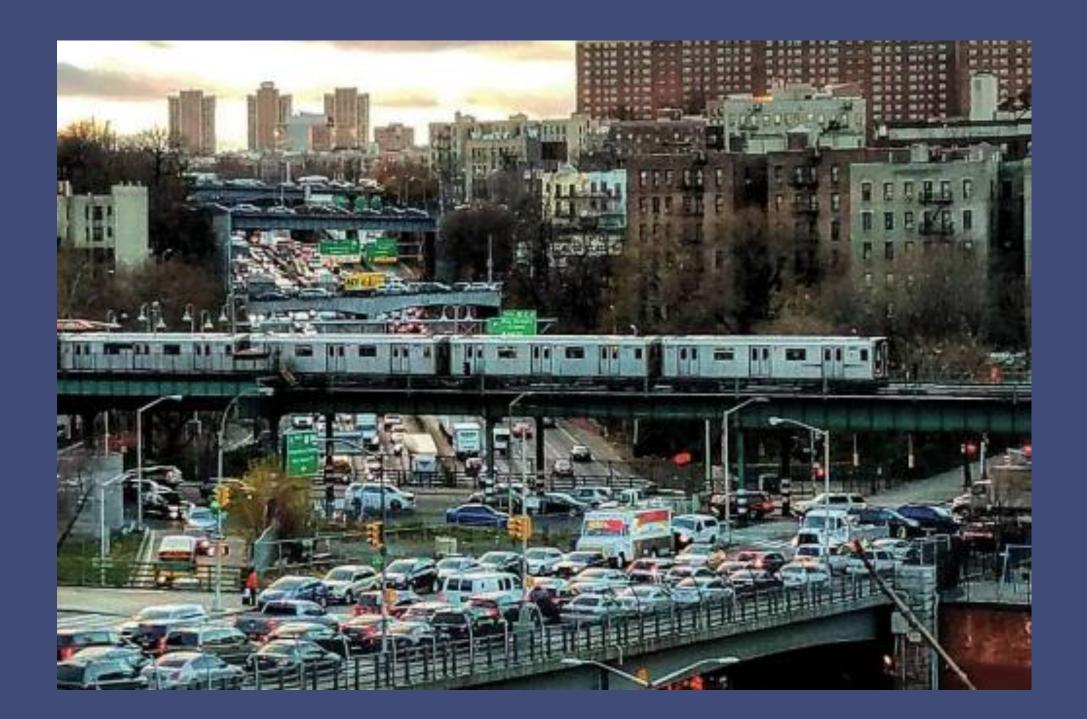






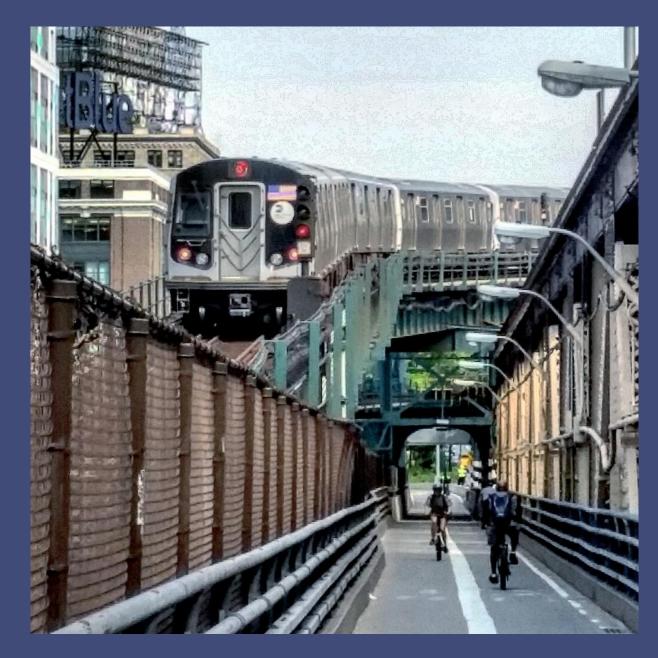






Sustainable Solutions

Regenerative Braking Energy Storage Renewable Energy Green Infrastructure **Air Pollution control LEED Buildings** Recycling **Natural Lighting** LEDs



Sustainable Initiatives that Prevent Pollution and reduce Green House Gases





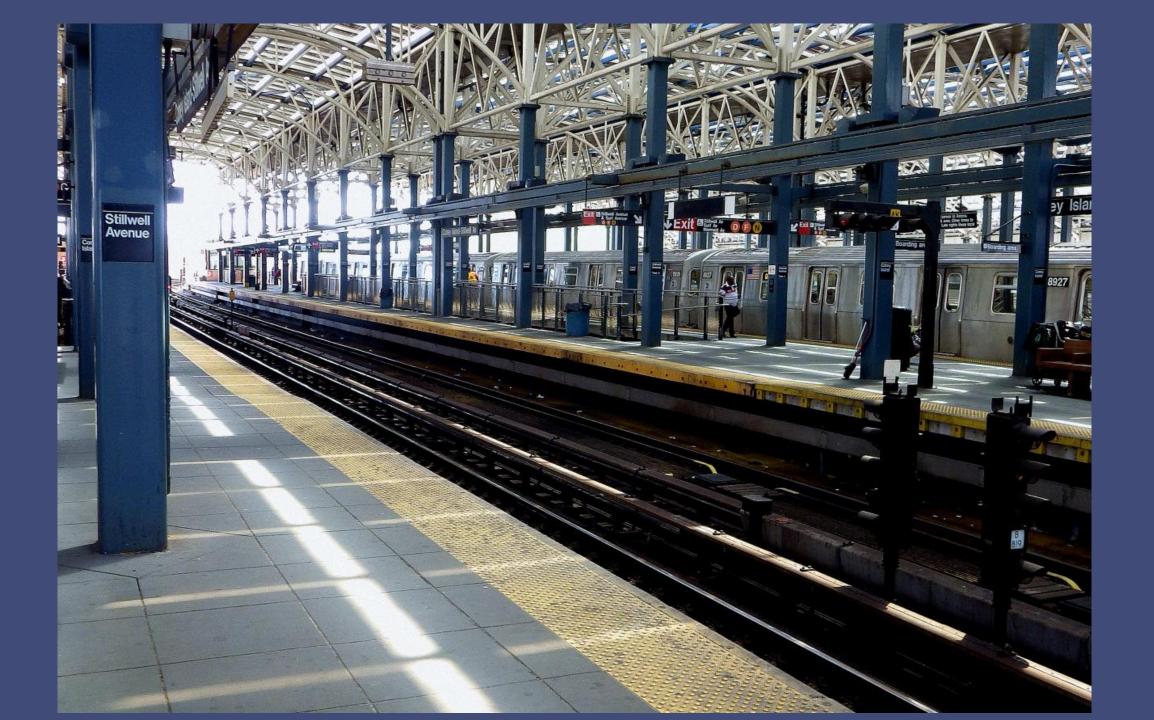






MTA New York City Transit



















Climate Adaptation

Mass transit infrastructure must adapt to changes in conditions based on a transformed climate, and it must anticipate more severe weather events, including hurricanes and blizzards, and more frequent flooding.













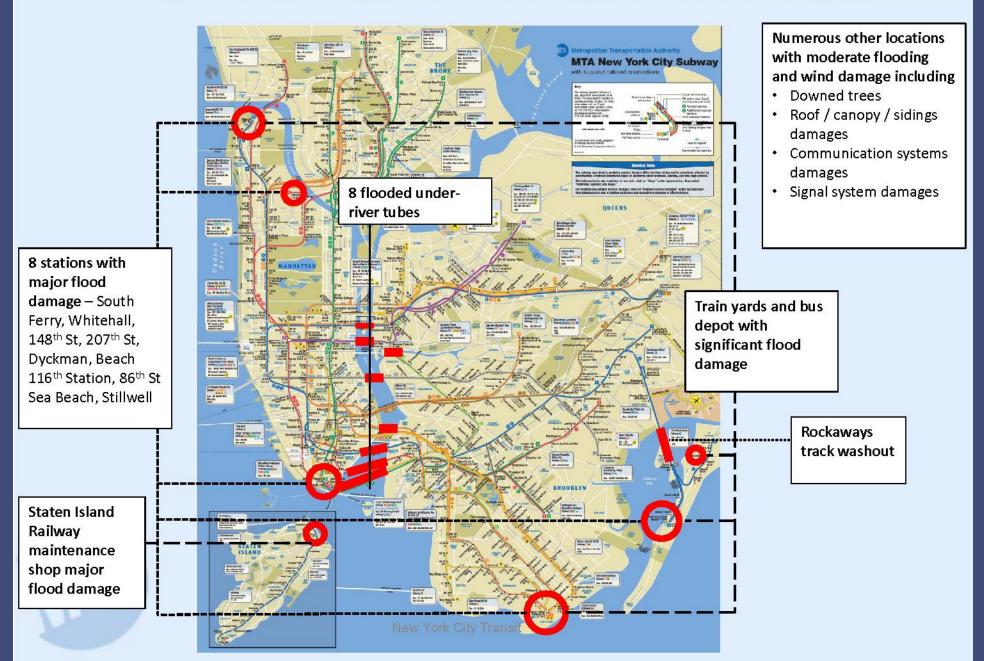








Sandy caused major flood damage across the system













Mother Clara Hale Bus Depot

Mother Clara Hale Bus Depot

KIN





















CPM WE BUILD WORLD CLASS TRANSIT



MIA New York City Transit Capital Program Management

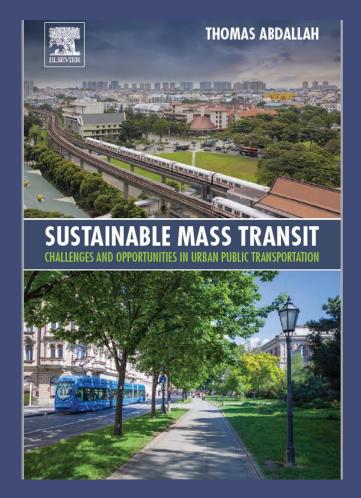


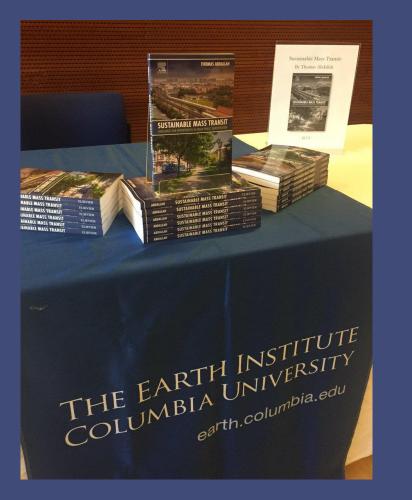
Certified

Moving Towards Environmental Excellence



Sustainable Mass Transit





SUSTAINABLE MASS TRANSIT CHALLENGES AND OPPORTUNITIES IN URBAN PUBLIC TRANSPORTATION

THOMAS ABDALLAH

Comprehensive averview on how to make public transportation systems worldwide less reliant on fassil fuels and more energy efficient.

- Explores how Environmental Management System frameworks improve the environmental performance in the operations, maintenance, design, rehabilitation, and expansion of a mass transportation system.
- Shows how teams from different fields, entities, agencies, and cities can work together to solve complex sustainability challenges.
- Numerous case studies from the United States, Canada, Mexica, South America, and Asia, including sustainable influences from Europe.

Sustainable Mass Transit: Challenges and Opportunities in Lirban Public Transportation provides a comprehensive overview of how to incorporate sustainable business practices into public transportation systems worklowide.

Every day, millions of people in the cities commute from home to work or school. Most do so though by getting into their own car and driving to where they need to be, cousing significant environmental damage to the earth's ecosystem. Cities with subways, train lines, light rail systems, and bus lines, however, contribute lines environmental damage overall fran cities that do not.

Sustainable Mass Transit: Challenges and Opportunities in Urban Public Transportation examines the numerous types of mass transit systems, looking closely at all their key functions, including operations, maintenance, development, design, building, and retrofitting. It examises the mitigation massures that reacture or eliminate negative environmental impacts, including green infrastructure, materials conservation, ecological conservation, and other sustainable initiatives.

Thomas Abdallah has more than 30 years of experience in the environmental and transportation fields. He is Deputy Vice President and Chief Environmental Engineer for New York City Transit and an Adjunct Professor of Columbia University's Sustainability Management graduate program.

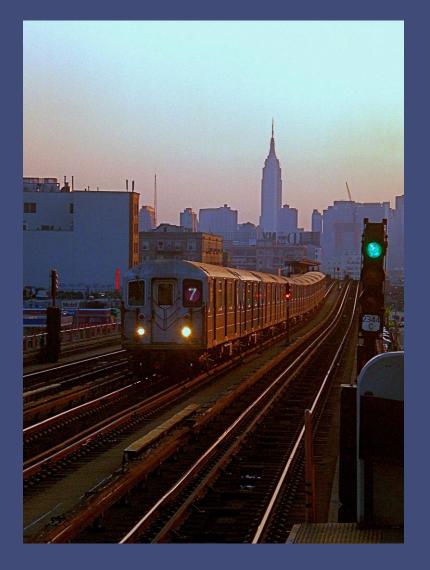
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