



Clifford R. Bragdon, Ph.D., FASA V.P. of Strategic Initiatives & Economic Development



MS⁵ Solutions

Florida Atlanta New York

Holistic Planning and Simulation Solutions for Today's World

PROFESSIONAL QUALIFICATIONS:

Cliff bragdon 2014, 8 page CV: <https://db.tt/JUzHkvUY> & www.ms5solutions.com & Team

Professor Emeritus - Florida Institute of Technology

Former Vice President, Office of Strategic Initiatives

Executive Director of the Florida Tech Research Park

Dean, University College and Distinguished Research Professor

Florida Institute of Technology

Founder and President, Global Center for Preparedness and Resilience

President, MS5 Solutions

Transportation, Environmental, Simulation, Planning and Resilience Expert

Dr. Clifford Bragdon is an international authority on the subject of transportation systems, including planning, logistics, resilience-sustainability, safety-security, 4-D simulation and intermodal integration. The United Nations retained Dr. Bragdon on strategic transportation planning issues and projects in seven different countries, along with NATO. Within North America, especially in the United States, he has been involved working through the FAA, EPA, DOT and Department of Defense on over 70 different airports (commercial, military and heliports), sea ports (including the proposed 30 world ports), MagLev and highspeed rail, both for transit and commercial freight. Frequently Dr. Bragdon has addressed the necessary integrated process of multiple modes of transportation to enhance the efficient mobility of goods, services and people. He conducted the first intermodal transportation study for the New York region and the development of a new MTA transit line connected to LaGuardia Airport. Working with Drs. Danby and Powell, who invented the MagLev system in 1983, he created the first motion-based passenger simulator (ridden by Governor Jeb Bush and Governor George Pataki) initially designed for Japan, New York and Florida. A fully operational system now serving Japan generates speeds of approximately 300 miles per hour carrying passengers.

The U S Congress established and awarded Dr. Bragdon \$10,000,000 as creator and Executive Director of the first Center for Intermodal Transportation, Safety and Security. The Center's studies on seaports (Port Everglades and Port Jacksonville) and rail/transit (Washington METRO, Tampa and LIRR) included the first 4-D transportation simulation in the world whose results were coordinated with the Office of the President, George Bush. Other work was done by Dr. Bragdon to plan and support the 1996 Summer Olympic venues and, pre and post analysis of 9/11 shared with the Mayor's Office. Dr. Bragdon developed a spatial management system to examine city spatial resources in three interrelated plains: aerial, surface and subsurface, rather than one-dimensional, land. His work involves "space-use planning and development", not traditional "land use

planning". He has established the first three dimensional master plans for cities and military installations, so they can optimize their physical, natural and social resources (subsurface, air rights, water rights, joint use, adaptive use, etc.),in a resilient based manner.

His consultative services have included over 200 government clients (federal, state and local), and 150 businesses (more than 75 Fortune 500 companies) coast to coast, as well as internationally. Dr. Bragdon has appeared on every major television network (CBS, NBC, ABC, FOX, CNN) and print media, and as an expert up to the U S Supreme Court. In terms of applied research he has been a principal investigator on over \$60,000,000 worth of funded projects. He has also written 12 books and contributed chapters, with his most recent area writing addressing transportation security and global resilience, beside authoring over 100 articles and invited presentations throughout the world. Dr. Bragdon is the founder and president of the Global Center for Preparedness and Resilience, and MS5 Solutions. Academically he was V-P, Dean and Distinguished Research Professor of Florida Institute of Technology, and for 21 years Associate V-P, Dean and Professor at Georgia Institute of Technology. He holds his Master Degree and Ph.D. degrees from Michigan State University and the University of Pennsylvania respectively.