

Smart Cities, Part 2: Land Development, Site Design, and Autonomous Vehicles

June 14, 2018

Agenda

- 7:30 a.m. Breakfast
- 8:15 a.m. Opening Remarks **Lisa Brothers, PE, ENV SP, LEED AP BD+C**
Chairman & CEO, Nitsch Engineering
- 8:30 a.m. Keynote Address **Lisa Nisenon**, Founder, GreaterPlaces
- 9:10 a.m. Table Exercises
- 9:40 a.m. Tables Report Out
- 10:00 a.m. Conclusion **Lisa Brothers, PE, ENV SP, LEED AP BD+C**
Chairman & CEO, Nitsch Engineering

Learning Objectives

In today's program, we will be discussing autonomous vehicles and the impacts that this growing technology could have on land development patterns and site design as AV technology advances and autonomous vehicles become more prominent. Participants will:

1. Learn the categories and status of trending, emerging, and future technologies related to smart cities and transportation.
2. Understand technology's potential impacts on land development, infrastructure, and real estate.
3. Be able to connect the details of automated vehicles as part of multi-modal transportation systems.
4. Understand how transportation technology can impact various elements of site design, through an interactive exercise.

Speaker Bios



Lisa Nisenon has 20 years of experience in sustainable city design and helping cities adopt innovation. She is an advisor to Alta Planning + Design on new mobility, and the founder of GreaterPlaces, an award-winning tech startup aggregating all aspects of city and transportation design and a cohort company in the Smart City Works accelerator.

Lisa holds leadership positions in the American Planning Association Sustainable Communities Division & Smart City Task Force. Previously she was a planner for Sarasota County Florida and a policy analyst in the US EPA's Smart Growth office. She is a graduate of Meredith College and Harvard University.

Other Presentations Offered

Nitsch Engineering is an AIA and ASLA provider offering continuous education units for various educational presentations. To help our clients learn more about site services and how they contribute to overall project success, we offer each of the presentations below to our clients as lunch and learns.

- **Innovative Water Management: Rainwater Harvesting and Alternate Water Reuse – 1 AIA LU/HSW; 1 LA CES PDH HSW**
Provides an overview of considerations for capturing and reusing rainwater to supplement non-potable water demands for buildings and sites. Discusses key considerations for evaluating and designing efficient systems, along with current regulatory and technological barriers, and shows how to evaluate the viability of rainwater harvesting systems to support sustainability and regulatory stormwater goals.
- **Sustainable Sites: Three Case Studies – 1 AIA LU; 1 LA CES PDH**
Provides terminology primer, site-related LEED review, and sustainable site strategies.
- **Green Infrastructure/Low Impact Development for Sustainable Sites – 1 AIA LU/HSW SD; 1 LA CES PDH**
Reinforces site sustainability principles by using LID to preserve sensitive resources, minimize adverse environmental impacts, and incorporate decentralized BMPs that mimic natural systems and control the peak rate of stormwater runoff, promote groundwater recharge, and provide water quality treatment.
- **Stormwater Master Planning – 1 AIA LU/HSW SD; 1 LA CES PDH**
Addresses stormwater as part of a master plan to identify opportunities to integrate stormwater within the landscape and site stormwater facilities in terms of phasing, environmental impact, capital costs, maintenance and operations costs, and aesthetics. Includes case studies of Princeton and UVA.
- **Sustainable Stormwater Solutions – 1 AIA LU/HSW SD; 1 LA CES PDH**
Reinforces the principles of sustainable site design and stormwater management, and demonstrates how stormwater measures can be applied in a large-scale city-wide program, to a campus-wide application, at a large urban park, on a single building site, in a city intersection and an alley, and for small infill projects.
- **Complete Streets – 1 AIA LU/HSW; 1 LA CES PDH**
Discusses the components of a “complete street,” and through case studies shows how streetscape design strategies, leading edge technologies, and green infrastructure/low impact development techniques provide viable sustainable urban infrastructure.
- **Traffic and Parking Impacts of Development Projects - Provides 1 AIA LU**
Outlines the factors that determine the parking demand and traffic impact of any land development project.
- **Demystifying the Permitting Process: Getting Projects Built in Boston – 1 AIA LU; 1 LA CES PDH**
Outlines the site-related permitting hurdles for building projects in Boston, including an overview of the BRA, BWSC, BCC, and PIC site-related permitting processes, including site and building design, permitting, and project schedule issues.
- **Land Surveying and GIS – 1 AIA LU; 1 LA CES PDH**
Educates non-surveyors about the various types of surveys and how to acquire those services, and what GIS is and how it works with survey and CAD-based applications to benefit clients.
- **Creating a Business Development Culture in your Firm – 1 AIA LU; 1 LA CES PDH**
Describes what a business development culture is, explains why having one is important to a firm’s success, and evaluates how to take steps towards creating one.