

# DIGITAL CONSTRUCTION INSPECTION WORKSHOP

## CONSTRUCTION ENGINEERING AND QUALITY ASSURANCE USING ADVANCED PRACTICES

SPONSORED/FUNDED BY:



U.S. Department of Transportation  
**Federal Highway Administration**

### ON-SITE WORKSHOP

August 22, 2019  
McClellan Park  
California State Parks  
4940 Lang Ave  
McClellan Park, CA 95652

### WORKSHOP OVERVIEW

This workshop will provide practical help to further the implementation of digital construction inspection in California by hearing from lead state transportation agencies on their implementation experiences.



Courtesy of New Hampshire DOT

### REGISTER NOW

You may register for the workshop online at  
[www.surveymonkey.com/r/McClellanPark](http://www.surveymonkey.com/r/McClellanPark)

### COST

There is no cost to attendees for this workshop. The workshop is sponsored by the Federal Highway Administration to further the national implementation of digital construction inspection.

### LUNCH

A box lunch consisting of a sandwich, chips, cookie, and drink is available for purchase for \$12.

### QUESTIONS?

Contact Gabe Nelson  
National Concrete Pavement  
Technology Center  
515-964-2020  
[gnelson@snyder-associates.com](mailto:gnelson@snyder-associates.com)

HOSTED BY:



For more information visit: [www.cptechcenter.org/workshops-on-advanced-survey-and-modeling-technologies-and-practices](http://www.cptechcenter.org/workshops-on-advanced-survey-and-modeling-technologies-and-practices)

# AGENDA

## TOPIC

## PRESENTATION SESSION



Courtesy of New Hampshire DOT

(Pacific Time)

8:30 a

### Registration

9:00

### Introduction and Welcome

David Unkefer, FHWA Resource Center;  
Jean Mazur - FHWA – California Division

9:30

### Overview of Digital Construction at Caltrans

Mark Turner, Jesus Mora, John Hancock – Caltrans

Mark, Jesus, and John will give an overview of the state of practice and future vision of digital construction at Caltrans in the areas of survey, design, and construction.

10:15

### Break

10:30

### Integrating Design & Construction

Robert Stewart – Utah Department of Transportation

Robert will discuss Utah DOT's implementation of model-based design and construction including how they create trust in the digital data, how the digital data is provided to contractors and inspectors, and how DOT inspectors are using digital data to more efficiently verify construction outcomes and measure pay quantities.

11:30

### How Survey and Design Can Change to Support Digital Construction

Gabe Nelson - Snyder & Associates, Inc.

Gabe will discuss workflow changes in design to provide products that are useful in construction. Gabe will discuss digital design information to help facilitate bidding, automated machine guidance, and construction inspection and specification changes that may be necessary to support digital construction.

12:00 p

### Lunch

1:00

### Digital Construction Inspection at Oregon DOT

Brett Murphy – Oregon Department of Transportation

Brett will discuss changes in procedures, implementation challenges, and lessons learned in Oregon's implementation of digital construction inspection.

1:45

### Digital Construction Implementation Plan

Mark Turner, John Hancock – Caltrans

Mark and John will discuss Caltrans' plan to implement digital construction in California including specification changes, equipment, and training. An overview of ongoing and upcoming pilot projects will also be presented.

2:30

### Break

2:40

### Panel Discussion – Q&A

Moderator: David Unkefer - FHWA Resource Center

This is an opportunity for the audience to ask questions of any of the presenters.

3:20

### Closing Remarks

David Unkefer, FHWA Resource Center

3:30

### Adjourn