



Virginia Department of Transportation

# VDOT'S ORD MIGRATION

OpenRoads Designer Migration for Virginia Department of Transportation

Scott Speight, Sam Perkins, & Kevin Takala

April 15, 2021

# Today's Presenters

**Scott Speight**

**Assistant CADD Program Manager**

[Scott.Speight@VDOT.Virginia.gov](mailto:Scott.Speight@VDOT.Virginia.gov)

**Larry S. (Sam) Perkins, Jr.**

**CADD Support Specialist**

[Larry.Perkins@VDOT.Virginia.gov](mailto:Larry.Perkins@VDOT.Virginia.gov)

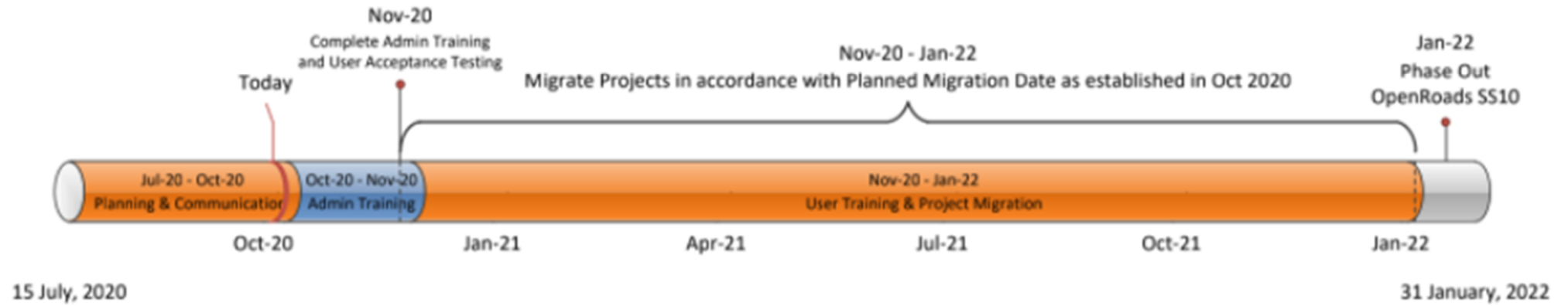
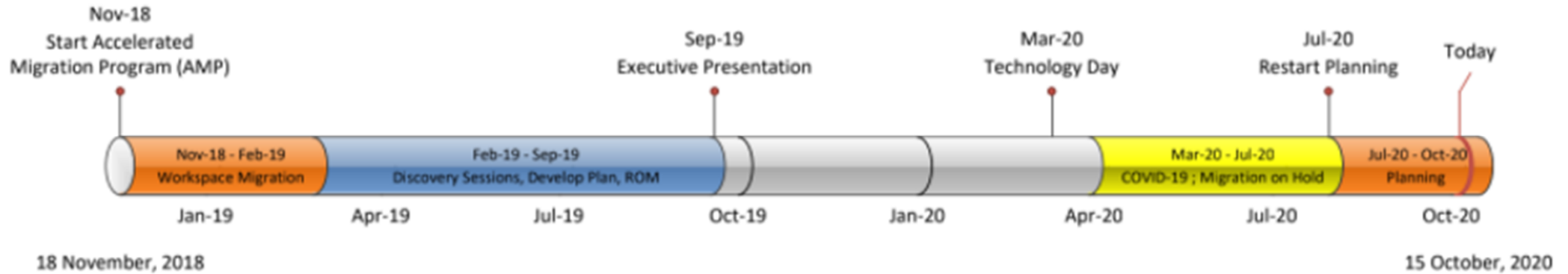
**Kevin Takala**

**CADD Support Specialist**

[Kevin.Takala@VDOT.Virginia.gov](mailto:Kevin.Takala@VDOT.Virginia.gov)

# ORD Migration Timeline

OpenRoads Designer (ORD) Connect Edition Migration Timeline



# Training

**We began training for ORD in October of 2020**

**Classes are offered on VDOT University**

**<https://virginiadot.csod.com/client/virginiadot/default.aspx>**

**Classes are offered to internal & external users**

**Classes do fill up quick**

# Bentley Specific Training

## Classes Currently offered:

- **MicroStation Connect for Existing Users**
- **OpenRoads Designer Connect Edition – Road**
- **OpenRoads Designer for Survey**
- **OpenRoads Designer Connect Edition – Draining**
- **OpenRoads Designer Connect Edition – Utilities**
- **MicroStation CONNECT for New Users**

# **VDOT Specific Training**

## **Classes Currently offered:**

- **OpenRoads Designer – Civil Cells**

## **Classes beginning in April 2021:**

- **Navigating VDOT's Workspace / Plans Production**
- **OpenBridge Designer Connect Edition**

# What classes do I need to take?

## OpenRoads Designer - Learning Paths



	MicroStation Connect for Existing Users	OpenRoads Designer for Survey	OpenRoads Designer Connect Edition - Road	OpenRoads Designer Connect Edition - Draining	OpenRoads Designer Connect Edition - Utilities	Navigating VDOT's Workspace / Plans Production	OpenBridge Designer Connect Edition	OpenRoads Designer – Civil Cells	2D & 3D Civil Design Review (iTwin)
Survey	X	X				Optional			
Road	X		X	Optional		X		X	
Drainage	X		Optional	X	Optional	X			
Utilities	X			Optional	X	X			
Traffic	X					X			
Bridge	X						X		
Right of Way	X					Optional			
TMPD	X					Optional			
Geotechnical	X					Optional			
Environmental	X					Optional			
Construction	X					Optional			
Senior / Project Managers	Optional					Optional			X

 Bentley Training Material

 VDOT Specific Training Material

4/12/2021



# Preparations for Migration

Some of the task we have done in preparation:

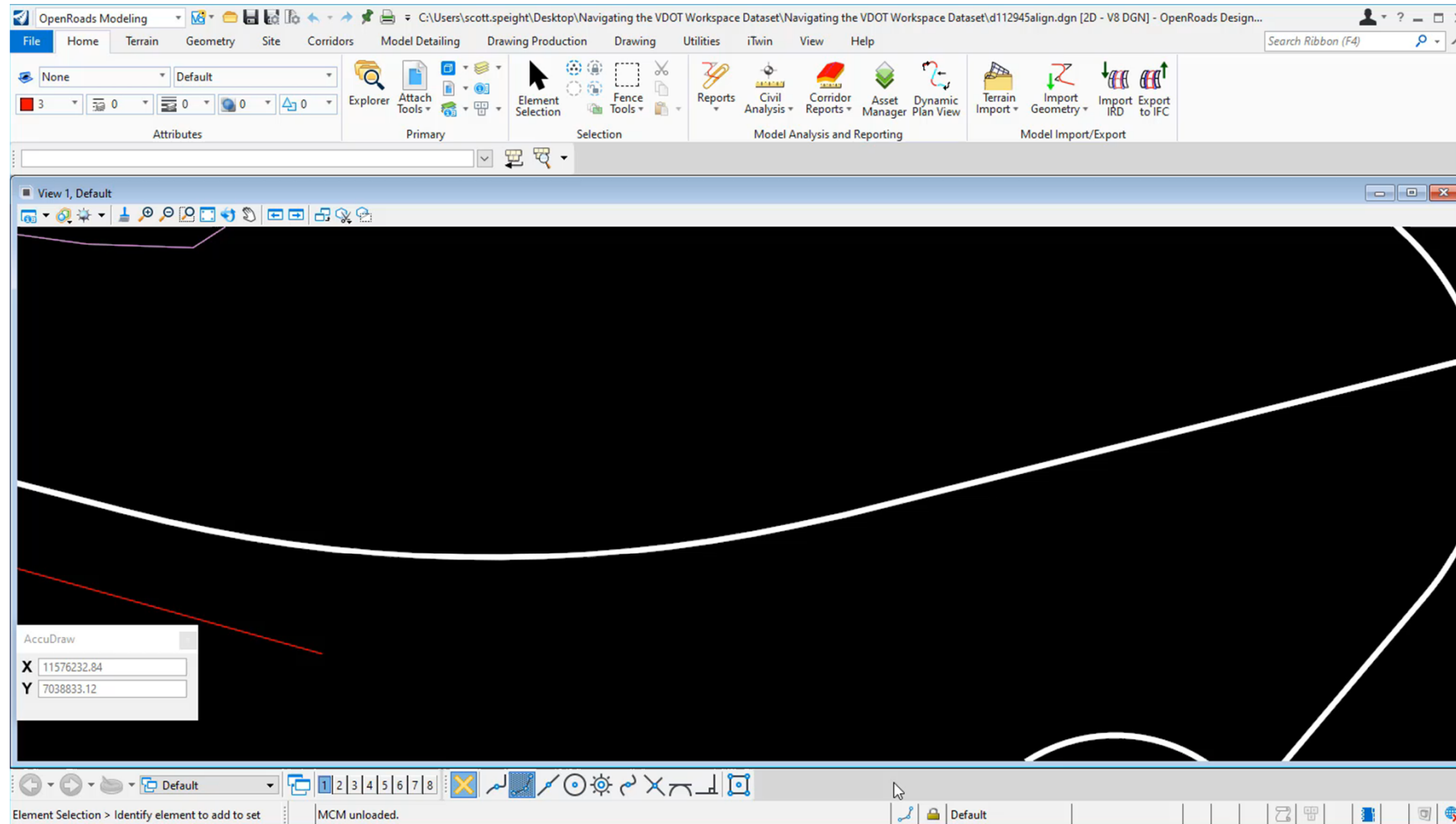
- Converted all cell libraries and template libraries to ORD
- Converted dgnlibs to ORD
- Converted and updated civil cell libraries
- Created sheet seed dgnlibs for creating plan, profile, and cross section sheets
- Set up annotation groups for automatic labeling

# Project Conversion

**Bentley has provided us with a tool to convert entire projects.**

- **We export the entire project to a local hard drive**
- **Run the conversion tool on all files**
- **Import the files back into ProjectWise**
- **The design team then checks the files for accuracy**

# Element Template Commander



# 3D Model Development Manual

## 3D MODELS IN THE PROJECT DEVELOPMENT PROCESS

Applicability

Level of Detail to Develop Model

Level of Effort to Develop Model

Model Development Best Practices

Frequently Asked Questions

## MODEL DEVELOPMENT THROUGH PROJECT DEVELOPMENT MILESTONES

Scoping Phase

Establish the Scope of the 3D Model

Preliminary Design Phase

Establish 3D Model Uses for Public Engagement

LOD for Public Hearing Milestone

Detailed Design Phase

LOD for Field Inspection Milestone

Final Design and R/W Acquisition Phase

LOD for Right-of-Way Milestone

[http://www.virginiadot.org/business/resources/LocDes/3D\\_Model\\_Development\\_Manual.pdf](http://www.virginiadot.org/business/resources/LocDes/3D_Model_Development_Manual.pdf)

# Reviewing the Model



iTwin Design Review

Tech Preview

*Added access to the iTwin Design Review application.*

*This facilitates collaboration by allowing users to create and participate in an Adhoc review session from within the product.*

5 | WWW.BENTLEY.COM | © 2018 Bentley Systems, Incorporated



# Stay Up to Date on VDOT's Progress

**We are updating our web page frequently adding information on the migration.**

[http://www.viriniadot.org/business/locdes/openroads\\_designer\\_rollout.asp](http://www.viriniadot.org/business/locdes/openroads_designer_rollout.asp)

**Internally, we have a Microsoft Teams Page.**

**This is used for announcements, messages, topic discussions, information, etc.**

**We are currently looking to add external users to our Teams page as well. Hopefully we can get this set up soon.**

# Questions

