

66th INTERNATIONAL HEEP CONFERENCE



South Carolina 2025

Oceans of Opportunity



Myrtle Beach, SC

October 5-9, 2025



SCDOT

WEEK AT A GLANCE

Sunday, October 5

6:00 - 12:30pm	Sunday morning networking
12:00 - 5:00pm	Vendor Set Up
12:00 - 5:00pm	Registration and Information Booth
2:00 - 5:00pm	DOT Roundtables
6:00 - 8:00pm	Dinner on your own

Monday, October 6

7:00 - 8:00am	Breakfast
8:00 - 12:00pm	General Sessions
12:00 - 1:00pm	Lunch
1:00 - 5:00pm	General Sessions
6:00 - 9:00pm	Icebreaker Reception (RipTydz)

Tuesday, October 7

7:00 - 8:00am	Breakfast
8:00 - 12:00pm	Technical sessions
12:00 - 1:00pm	Lunch
1:00 - 4:30pm	Technical sessions
5:00 - 7:00pm	Vendor Reception
7:00 - 8:00pm	Nighttime Illumination Demonstration

Wednesday, October 8

7:00 - 8:00am	Breakfast
8:00 - 12:00pm	Technical sessions
12:00 - 1:00pm	Lunch
1:00 - 5:00pm	Technical sessions - (Vendor Breakdown @ 3:15 pm)
6:00 - 10:00pm	Awards Banquet and Dinner (Pirates Voyage)

Thursday, October 9

7:00 - 8:00am	Breakfast
8:00 - 12:00pm	Technical sessions and IHEEP Technology Showcase (until 1:00 pm)
12:00 - 12:30pm	Lunch to-go
1:00 - 5:00pm	Technical tours

SUNDAY

Sunday at a Glance

6:00am - 12:30pm	Morning Networking	Golf Deep Sea Fishing
8:00am - 3:30pm	Vendor Data Collection	Boat Landing
12:00pm - 5:00pm	Vendor Set Up	Ballroom ABCD
2:00pm - 5:00pm	DOT Round Tables	Ballroom E
5:00pm - 5:30pm	Educator Student Program Meeting	Ballroom E
6:00pm - 8:00pm	Dinner On Your Own	Broadway at the Beach

Draft Schedule

Please Note: All time slots and presentation selections are subject to change to align similar topic blocks and accommodate state DOT travel schedules. If you plan to present, please ensure you are available for the full duration of the conference.

For Consultant or Vendor-Sponsored Presentations: All presentations should be partnered with a DOT and reflect the ***spirit of IHEEP*** —highlighting technology applications, case studies, and success stories within DOTs. Submissions containing overt promotional content will be removed from the agenda at the discretion of the Technical Committee.

For updates to your abstract, presenter list, or if you are no longer able to present, please contact us at PlanStorage@scdot.org

Monday

Monday at a Glance

7:00am - 8:00am	Breakfast	
8:00am - 9:15am	SCDOT & IHEEP Welcome Keynote Address	Grand Ballroom
9:15am - 9:30am	Break	
9:30am - 12:00pm	DOT Roll Call Vendor Recognition Area V Report	Grand Ballroom
12:00pm - 1:00pm	Lunch	Grand Ballroom
1:00pm - 2:45pm	Resiliency and UAS: NC, SC, TN, CA, PR	Grand Ballroom
2:45pm - 3:00pm	Break	
3:00pm - 5:00pm	ESP Student Presentations	Room 202/204
	UAS - DOT Roundtables	Room 206/208
	IHEEP Panel - Past/Present/Future	Room 106/107
	Cadd Workshop - Item Types	Room 102/103
	Digital Workflow from Design to Construction	Room 104/105
6:00pm - 9:00pm	Icebreaker Reception	RipTydz

Tuesday

Tuesday at a Glance

	Room 202-204	Room 206-208	Room 106-107	Room 102-103	Room 104-105	Room 203
	Digital Delivery	UAS	State Specific	Open Data	MALD/Modeling	Board Room
8:00 - 8:30AM	How Digital Workflows Change How We Do Business	IHEEP UAS Welcome	WSDOT: Rapid Response in Solving Critical Infrastructure Needs - SR 165 Carbon River	Data Transfer File Types Within Digital Delivery Software Applications	Ohio DOT: Trailblazing Ohio DOT's Digital Project Delivery with a MALD Pilot Project	
8:30-9:00AM	Building a Plan for Establishing a Digital Delivery Program Part 1	Industry Update	UTAH DOT: Innovative, Digitally Delivered, Cost Effective Quality Management	Civil Schema Indexer: Exposing Civil Schema Version - KDOT	Leveraging MALD Contracts in Construction with 3D Models - Illinois Tollway & WSP	
9:05-9:35AM	Building a Plan for Establishing a Digital Delivery Program Part 2		Montana DOT: Cougar Creek - 7mi N West Yellowstone Bridge Replacement	Open Data for Open Industry Solutions	Making the Transition to Model Based Design - RS&H	
9:45-10:15 AM	Break					
	Digital Delivery	UAS	Survey and Construction	Bentley/Drainage	MALD/IFC/BIM	
10:15-10:45AM	TxDOT DDP Program Update: Part 1 - Overall Program Update	#1 UAS Presentation	Development of a Surveying and Mapping Guide for Transportation Projects - Oregon	PennDOT's Approach for a Smart Infrastructure Solution: Modeling Drainage & Utilities in ORD	How We Actually Delivered the First IFC Bridge Project in the US - OpenBriM - Michael Baker	
10:50-11:20AM	TxDOT DDP Program Update: Part 2 - Technology Enhancements	#2 UAS Presentation	Model Handoff to Contractors - KYTC	Inside the Box: Parametric Modeling of Maine's Box Culverts	Michigan DOT - IFC and BIM Research Project	
11:25-11:55AM	TxDOT DDP Program Update: Part 3 - TxDOT's First Pilot Project - FM 1977	#3 UAS Presentation	Construction Useability of KYTC Models	Operationalizing the Model Throughout the Entire Project Lifecycle	Nebraska DOT: Refining Digital Delivery with GIS, MALD, and e-ticketing projects	
12:15-12:50 PM	Lunch Keynote: Winning the War on Productivity - Tara Blythe - Infotech					

Tuesday

Tuesday at a Glance

	Room 202-204	Room 206-208	Room 106-107	Room 102-103	Room 104-105	Room 203
	Artificial Intelligence	UAS	Construction and Digital As-Builts	3D Model Viewer Workshop	BIM/CADD/GIS	Board Room
1:00-1:30PM	The Future is Here: Unleashing the Power of the 'One Model' - Area V & LeapThought	#4 UAS Presentation	Developing Better Models with Construction and Machine Control in Mind	Shaping the Future: Collaborative Insights on 3D Model Viewers - PennDOT & HDR	Use of Computer Vision and AI Techniques in Extracting Real World BIM Data - Transoft	
1:35-2:05PM	Smarter, Faster, Safer Infrastructure with Advanced Utility Risk Mitigation - 4M Analytics	#5 UAS Presentation	Advancing Digital Delivery: Piloting Geospatial Construction Documents to Streamline As-Builts and Asset Integration	Shaping the Future: Collaborative Insights on 3D Model Viewers - PennDOT & HDR	Tapping the Pipeline: How Versatile CADD to GIS Tools Can Meet Data Needs Across the Enterprise - Sanborn	
2:10-2:40PM	Data Fusion: Woolpert	#6 UAS Presentation	Caltrans: A Radical Approach to Scalable Digital As-Builts and Safer Smarter Delivery	Shaping the Future: Collaborative Insights on 3D Model Viewers - PennDOT & HDR	Enhancing Transportation Workflows through BIM and GIS Integrations at the Project Level - HDR, LA Metro	
2:45-3:15PM	Break					
	AI/Data Management	UAS	Cadd Standards/Open Standards	3D Model Viewer Workshop	Drainage/IFC	
3:15-3:45PM	ODOT's Bridge to the Future: AI, ML, and GIS for Efficient and Scalable Asset Data Analytics	UAS - Vendor Roundtable	PennDOT: Open by Design: How PennDOT is Evolving Standards for a Broader Project Community	Smarter, Faster, Connected: End-to-End Digital Delivery for Precast Girder Bridges	Storm Water Design w/ IFC Input/Output following DOT and FHWA Parameters - Carlson & KYTC	
3:50-4:20PM	Practical AI-Highway Inspection in Digital Transformation	UAS - Vendor Roundtable	Design Software Standards Integration at Wisconsin DOT	From Guesswork to Ground Truth: How DOTs are Rethinking Stockpile Measurement	Storm Water Design w/ IFC Input/Output following DOT and FHWA Parameters - Carlson & KYTC	
4:20-5:00PM	Break					
5:00-7:00PM	Vendor Reception at Hotel					
7:00-8:00PM	Night Illumination Drone Demo - Pegapod and Free Fly in the Parking Lot					

Wednesday

Wednesday at a Glance

	Room 202-204	Room 206-208	Room 106-107	Room 102-103	Room 104-105	Room 203
	Digital Delivery	UAS	Mobile Lidar/Data Management	SUE/Utilities	Open Data (CDE)	Board Room
8:00 - 8:30AM	Contractor Input in Digital Delivery at VTrans	IHEEP UAS Welcome and \$7 Presentation	Merging of Data from Multiple Acquisition Platforms	Digital Project Lifecycle - Below the Surface to Above - CDOT & HDR	From Model to Field: Leveraging openBIM IFC and Open Common Data Exchange (CDX)	
8:30-9:00AM	ODOT - Digital Delivery Journey: A Collaborative Approach to Modernizing Project Delivery	#8 UAS Presentation	Caltrans - Advancing Pavement Assessment and Precision Repair through Mobile Mapping and Machine Learning	Taming the Wild, Wild West - CDOT's Evolving Approach to SUE Modeling - EnvisionCAD	Building a Cloud-Based CDE at Caltrans	
9:05-9:35AM	Advancing Digital Delivery in Indiana through Partnership - INDOT, Parsons	#9 UAS Presentation	Leveraging LIDAR for Improved Design and Roadway Reconstruction	Harmonizing ASCE 38 & 75 Standards for Lifecycle Driven SUE and Utility As-Built	3D Model Management for Transportation Projects: Federating Data from Different Softwares	
9:45-10:15 AM	Break					
	MALD Construction Panel	UAS	Construction Tools	Area V	Drainage/Civil 3D/SCDOT	
10:15-10:45AM	Follow the Money: Advancing Model as Legal Document	#10 UAS Presentation	Achieving Collaboration in the Field with Owners, Contractors, and Consultants - OnStation, WVDOT	Area V - Resilience Needs for Road Infrastructure - Extreme Weather Events - Croatia and U.S.	Streamlining Model Based Storm Sewer Network at SCDOT	
10:50-11:20AM	Follow the Money: Advancing Model as Legal Document	#11 UAS Presentation	Integrated Infrastructure Inspection: Leveraging BIM, Augmented Reality, and Mobile Tools	Area V	Streamlining Model Based Hydraulics for Bridge Design at SCDOT	
11:25-11:55AM	Follow the Money: Advancing Model as Legal Document	#12 UAS Presentation	Finding Success with Digital Construction Tools - UDOT	Area V	Civil3D Dynamo and Subassembly Composer	
12:15-12:50 PM	Lunch Keynote: A Short Memoir of 37 Consecutive IHEEPs - Rande Robinson - NCDIT					

Wednesday

Wednesday at a Glance

	Room 202-204	Room 206-208	Room 106-107	Room 102-103	Room 104-105	Room 203
	IFC	UAS: Field Data Collection	Lidar/Machine Learning/AI	AI & Quality Control	Digital Delivery Workshop	Board Room
1:00-1:30PM	Advancing Digital Construction through IFC: PennDOT ADCMS Grant	Vendor Presentation - Field Data Collection	UAS Lidar with Machine Learning and Feature Extraction - SCDOT & Carlson	Maintaining Momentum: Data & AI Initiatives in Utah	Digital Delivery Stakeholder Group	
1:35-2:05PM	Advancing Bridge Digital Models: The Nation's First IFC Contractual Model	Vendor Presentation - Field Data Collection	WSDOT: Extracting Assets from LiDAR with Imagery - Washington DOT	Revolutionizing Infrastructure Design & Construction with Generative AI: Turning Powerful Insights into Action	Digital Delivery Stakeholder Group	
2:10-2:40PM	Advancing IFC Integration in Construction: Iowa DOT	Vendor Presentation - Field Data Collection	Pavement Critic Assesses How Trimble MX60 - Withers Ravenel	Revolutionizing Infrastructure Design & Construction with Generative AI: Turning Powerful Insights into Action	Digital Delivery Stakeholder Group	
2:45-3:15PM	Break					
	Modeling/Quality Control	UAS Field Data Collection	State Specific	Digital Workflows	Digital Delivery Workshop	
3:15-3:45PM	Bluebeam - SCDOT - Quality Assurance and Quality Control	Vendor Presentation - Field Data Collection	Iowa DOT: Leveraging Existing Job Site Data for Real-Time Safety	Nevada DOT & Aurigo	Digital Delivery Stakeholder Group	
3:50-4:20PM	Advancing Fully Integrated Model Delivery - PGA, FLDOT	Vendor Presentation - Field Data Collection	WSDOT: Creating a Digital Lifecycle for Traffic Signs	Transportation Infrastructure: Data Collection to AI Analysis to Asset Management	Digital Delivery Stakeholder Group	
4:25-4:55PM	Developing Modeling QA/QC Policy and Procedures - RS&H	Vendor Presentation - Field Data Collection	Alabama DOT: Using Digital Delivery on the West Alabama Hwy Progressive DB Project	Beyond the Initial Dig: Unearthing the Gems of PTC's Digital Delivery Evolution	Digital Delivery Stakeholder Group	
6:00-10:00PM	Dinner and Awards at Pirate's Voyage					

Thursday

Thursday at a Glance

	Room 202-204	Room 206-208	Peter Vaught Sr Boat Landing	Room 106-107	Room 102-103	Room 104-105
	Open Standards/State Specific	ISO 19650	IHEEP Technology Showcase	GIS and Asset Workshop	Artificial Intelligence	Workforce Development / STIP
8:00 - 8:30AM	Bridging Platforms and Standards - A Real-World Digital Delivery Use Case - Oklahoma & Pencil 9	Arizona DOT: Proposed Application of ISO 19650 Standards	IHEEP Technology Showcase at Boat Landing (leave at 7:45 am)	Working Digital Delivery with GIS and BIM Frameworks	Accelerating Disaster Recovery with AI: Automating Damage and Assessments to Speed Recovery Efforts	Building a Future Ready DOT: A Practical Application to TOGAF
8:30-9:00AM	Bridging Platforms and Standards - A Real-World Digital Delivery Use Case - Oklahoma & Pencil 9	Streamlining Civil Infrastructure Workflows: From Design to Closeout with a Common Data Environment	IHEEP Technology Showcase at Boat Landing	Working Digital Delivery with GIS and BIM Frameworks	GDOT: Workspace Turbo Chargers: Utilites, Title Block Editor, and PW	Workforce Adaptation to the Digital Delivery Revolution
9:05-9:35AM	Fundamentals of Construction Management & Digital Delivery Considerations for Design Professionals	MICKEY - Two Centuries of Acronyms and Programs - NCDIT	IHEEP Technology Showcase at Boat Landing	Working Digital Delivery with GIS and BIM Frameworks	GDOT: Workspace Turbo Chargers: Utilites, Title Block Editor, and PW	Leveraging Roads and Highways Project Location Data in STIP
9:45-10:15 AM	Break					
	LOD/LOIN	Area V	IHEEP Technology Showcase	GIS and Asset Workshop	Artificial Intelligence	Geotechnical, Bridge
10:15-10:45AM	CTDOT: A Year in the Life of Workspace, Training and Loin	Area V	IHEEP Technology Showcase at Boat Landing	Working Digital Delivery with GIS and BIM Frameworks	Accelerating CAD with AI: Power Up York Workforce - SCDOT, VHB, RS&H	Geotechnical - GeoDin and Autodesk
10:50-11:20AM	Panel Discussion of Level Development (LOD) - PennDOT, Michael Baker, HNTB, TxDOT	Area V	IHEEP Technology Showcase at Boat Landing	Working Digital Delivery with GIS and BIM Frameworks	Accelerating CAD with AI: Power Up Your Workforce - SCDOT, VHB, RS&H	From Manual to Automated: Streamlining Load Rating Workflows - SCDOT
11:25-11:55AM	Panel Discussion of Level Development (LOD) - PennDOT, Michael Baker, HNTB, TxDOT	Area V	IHEEP Technology Showcase at Boat Landing (until 1 pm - lunch provided)	Working Digital Delivery with GIS and BIM Frameworks	Accelerating CAD with AI: Power Up Your Workforce - SCDOT, VHB, RS&H	BoreDM, SCDOT
12:00 - 12:30 PM	Grab and Go Lunch					
1:00 - 4:30 PM	Ecological Boat Tours - Boat 1 at 1:00 pm and Boat 2 at 2:45 PM					