IHEEP CONFERENCE AGENDA

SCDOT

2025

IHEEP

66th International HEEP Conference
Myrtle Beach, South Carolina - October 5-9, 2025

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

Draft IHEEP 2025 UAS Schedule

Sunday, October 5th - UAS Vendor Data Collection

Time	Session
8:00am - 8:45am	Propellar
8:45am – 9:30am	Interra
9:30am – 10:15am	Skydio
10:15am - 11:00am	Frontier Precision
11:00am – 11:45am	RDO
11:45am – 12:30pm	Carlson
12:30pm -1:15pm	Seiler
1:15pm –2:00pm	Duncan Parnel
2:00pm – 2:45pm	Harris & Reigl
2:45pm - 3:30pm	Censys
3:30pm - 5pm	Construction Roundtable\ UAS Attendance

Monday, October 6th

Time	Session
2:45pm - 3:30pm	Pooled Fund
3:30pm - 5:00pm	UAS Roundtable

Tuesday, October 7th

Time	Session
8am - 8:05am	JD - IHEEP UAS Welcome
8:05am - 8:35am	FHWA
8:35am - 9:00am	FAA Industry Update on UAS
9:05am - 9:45am	Panel Discussion: The Importance of Training for BVLOS RPAS Operations
9:45am - 10:15am	Break
10:20am -10:40am	Scaling Shielded UAS Operations: Alaska DOT&PF's SOAR SMART Grant Initiative for Remote Infrastructure Inspection
10:45am -11:05am	The Benefits of Non-Profit State Coordination Groups (AIRT)
11:10am - 11:30am	How Several DOTs Are Benefiting from UAS (CalTrans and FreeFly)
11:35am - 11:55am	Advanced AI Solutions for Airport Inspections (TDOT and gNext)
12:15pm - 12:50pm	Lunch
1pm - 1:20PM	The Calm Before the Storm: Streamlining Drone Workflow for Emergency Response (ALDOT, Live U, Skydio)
1:25pm - 1:45pm	Nebraska DOT's UAS Program (NDOT)
1:50pm - 2:10pm	Proving ROI with Drones: How KYTC is Saving Millions (KYTC and Skydio)
2:15pm - 2:35pm	Ohio UAS Center Overview (ODOT)
2:45pm - 3:15pm	Break
3:15pm - 3:55pm	Panel Discussion: Advanced Digital Solutions to Support Effective Bridge Inspection (ALDOT, NDOT, RIDOT, gNext)
4pm - 4:20pm	MassDOT Aeronautics Data Hub (MassDOT)
4:20pm - 4:25pm	Break
4:25pm - 5pm	Free Time
5pm - 7pm	Vendor Reception
7pm - 8pm	Night Illumination Drone Demo (Pegapod and FreeFly)

Wednesday, October 8th - DOT and Vendor Data Presentations

Time	Session
8am - 8:20am	Implementing eVTOL Fixed-Wing sUAS Technology to Improve Roadway Data Acquisition (TxDOT and Frontier Precision)
8:25am - 8:45am	Advancing Digital Delivery: How Iowa DOT is unifying GIS and Survey Data with Propeller (Iowa DOT and Propeller)
8:50am - 9:10am	Using the Right Tool for the Right Job: UAS and System Selection for DOT Projects (UDOT)
9:15am - 9:35am	Wingtra's End-to-End Aerial Insights Solution (NCDOT and Wingtra/Duncan-Parnell)
9:45am - 10:15am	Break
10:20am -10:40	Thermal Scanning of Bridge Decks: WisDOT Pilot Study (WisDOT)
10:45am - 11:05am	Graffiti Removal and Infrastructure Documentation Using Drones (WSDOT)
11:10am - 11:55am	Panel Discussion: Taming Disaster via Public Safety sUAS State Coordination Groups (AIRT, TxDPS, FHP, DRONERESPONDERS)
12:15pm - 12:50pm	Lunch
1pm - 1:20pm	Propellar
1:20pm - 1:40pm	Interra
1:40pm - 2pm	Skydio
2pm - 2:20pm	Frontier Precision
2:20pm - 2:40pm	RDO
2:40pm - 3pm	Break
3pm - 3:20pm	Carlson
3:20pm - 3:40pm	Seiler
3:40pm - 4pm	Live U
4pm - 4:20pm	Harris & Reigl
4:20pm - 4:40pm	Censys
4:40pm - 5pm	gNext

Thursday, October 9th - Vendor Demonstrations - Pete Vaught Sr. Boat Landing - 8am - 12:30pm

Time	Session
8:10am - 8:30am	Propellar - GPS Targets
8:30am – 8:50am	Interra - GPS Targets
8:50am – 9:10am	Duncan Parnel -
9:10am - 9:30am	Frontier Precision - Alta X2/Yellowscan Navigator and Astro/Hovermap STX
9:30am – 9:50am	RDO - Wingtra Ray
9:50am – 10:15am	Carlson - Bathy Drone
10:15am – 10:35am	Seiler - Freefly System
10:35am – 10:55am	Skydio - X10 Dock
10:55am-11:15am	Harris & Reigl - Harris H6/with LIDAR Sensor
11:15am - 11:35am	Censys - Sentaero 6/with LIDAR Sensor
11:35am - 11:55am	FotoKite - Teathered Drone
11:55am - 12:15pm	Live U - Live video streaming/Skydio X10

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	Grand Ballroom
	Cadd Workshop - Item Types	Room 102/103
	Digital Workflow from Design to Construction	Room 106/107
6:00pm - 9:00pm	Icebreaker Reception	RipTydz

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 - HNTB - Trimble	IHEEP UAS Welcome	TxDOT: Developing 4D Models in Synchro Control for the Austin I-35 CapEx Project WSP	Data Transfer File Types Within Digital Delivery Software Applications - AECOM - DOT	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 - ESRI - NMDOT	Industry Update	Digital Quality Management for Design Build - Horrocks - UDOT	Civil Schema Indexer: Exposing Civil Schema Version - KDOT	Leveraging MALD Contracts in Construction with 3D Models - Illinois Tollway & WSP	Michael Baker
9:05-9:35AM	Building a Plan for Establishing a Digital Delivery Program Part 2 - ESRI - NMDOT		Montana DOT: Cougar Creek - 7mi N West Yellowstone Bridge Replacement	Open Data for Open Industry Solutions - Brown	Making the Transition to Model Based Design - RS&H	Michael Baker
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 - TxDOT - Kimley-Horn	#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	InfoTech
10:50-11:20AM	TxDOT DDP Program Update: Part 2 - Technology Enhancements - TxDOT - Kimley-Horn	#2 UAS Presentation	Digital, But Dependable: KYTC's Efforts to Ensure Model Accuracy Before Construction	Inside the Box: Parametric Modeling of Maine's Box Culverts	Michigan DOT - IFC and BIM Research Project	InfoTech
11:25-11:55AM	TxDOT DDP Program Update: Part 3 - TxDOT's First Pilot Project - FM 1977 - TxDOT - Kimley-Horn	#3 UAS Presentation	From Design to Dirt: Maximizing the Value of 3D Models in KYTC's Highway Construction	GDOT: Workspace Turbo Chargers: Utilites, Title Block Editor, and PW	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 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 IV & LeapThought	#4 UAS Presentation	Developing Better Models with Construction and Machine Control in Mind - Kimley-Horn	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	Bentley
1:35-2:05PM	UAS Lidar with Machine Learning and Feature Extraction - SCDOT - Carlson	#5 UAS Presentation	Piloting Geospatial Construction Documents to Streamline As-Builts and Asset Integration - Illinois Tollway - WSP	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	Bentley
2:10-2:40PM	Data Fusion: Woolpert	#6 UAS Presentation	A Radical Approach to Scalable Digital As-Builts and Safer Smarter Delivery - Mach9 - Caltrans	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	Autodesk
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 - AtkinsRealis - ODOT	UAS - Vendor Roundtable	Open by Design: How PennDOT is Evolving Standards for a Broader Project Community - PennDOT - Autodesk	Smarter, Faster, Connected: End-to-End Digital Delivery for Precast Girder Bridges - AllPlan	Storm Water Design w/ IFC Input/Output following DOT and FHWA Parameters - Carlson & KYTC	Autodesk
3:50-4:20PM	Practical AI-Highway Inspection in Digital Transformation - AECOM	UAS - Vendor Roundtable	Design Software Standards Integration at Wisconsin DOT	From Guesswork to Ground Truth: How DOTs are Rethinking Stockpile Measurement - Idaho	Storm Water Design w/ IFC Input/Output following DOT and FHWA Parameters - Carlson & KYTC	Autodesk
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 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 Vermont - VTrans - VHB	IHEEP UAS Welcome and $7 Presentation	Merging of Data from Multiple Acquisition Platforms - AECOM	Digital Delivery at Ground Level - NMDOT - WSP	From Model to Field: Leveraging openBIM IFC and Open Common Data Exchange (CDX) - Zachry - Datumate	
8:30-9:00AM	Digital Delivery Journey: A Collaborative Approach to Modernizing Project Delivery - Oklahoma	#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	Advancing IFC Integration in Construction: Iowa DOT's Black Hawk Bridge Pilot - HNTB - Iowa DOT	
9:05-9:35AM	Advancing Digital Delivery in Indiana through Partnership - INDOT -Parsons	#9 UAS Presentation	Leveraging LIDAR for Improved Design and Roadway Reconstruction - Topcon - Banks Construction	Harmonizing ASCE 38 & 75 Standards for Lifecycle Driven SUE and Utility As-Built	3D Model Management for Transportation Projects: Federating Data from Different Softwares - AECOM	
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 - Construction Panel	#10 UAS Presentation	Achieving Collaboration in the Field with Owners, Contractors, and Consultants - OnStation, - SCDOT	Area V - Resilience Needs for Road Infrastructure - Extreme Weather Events - Croatia and U.S.	Streamlining Model Based Storm Sewer Network - SCDOT - Autodesk	HDR
10:50-11:20AM	Follow the Money: Advancing Model as Legal Document - Construction Panel	#11 UAS Presentation	Integrated Infrastructure Inspection: Leveraging BIM, Augmented Reality, and Mobile Tools - InfoTech - Trimble	Area V	Streamlining Model Based Hydraulics for Bridge Design - SCDOT - Autodesk	HDR
11:25-11:55AM	Follow the Money: Advancing Model as Legal Document - Construction Panel	#12 UAS Presentation	Finding Success with Digital Construction Tools - ESRI - UDOT	Area V	Civil3D Dynamo and Subassembly Composer - Macer Technolgies	
12:15-12:50 PM	**Lunch Keynote: A Short Memoir of 37 Consecutive IHEEPs - Rande Robinson - NCDIT**					

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 - PennDOT - HDR	Vendor Presentation - Field Data Collection	WSDOT: Creating a Digital Lifecycle for Traffic Signs - Washington DOT	Maintaining Momentum: Data & AI Initiatives in Utah - UDOT - HNTB	Digital Delivery Stakeholder Group	
1:35-2:05PM	Advancing Bridge Digital Models: The Nation's First IFC Contractual Model - PennDOT - Michael Baker	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	Trimble
2:10-2:40PM	Advancing IFC Integration in Construction: Iowa DOT - HDR	Vendor Presentation - Field Data Collection	Pavement Critic Assesses How Trimple MX6O - Withers Ravenel	Revolutionizing Infrastructure Design & Construction with Generative AI: Turning Powerful Insights into Action	Digital Delivery Stakeholder Group	Trimble
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	Leveraging Existing Job Site Data for Real-Time Safety - Iowa DOT - Haulhub	Nevada DOT & Aurigo	Digital Delivery Stakeholder Group	Carlson
3:50-4:20PM	Advancing Fully Integrated Model Delivery - PGA - FLDOT	Vendor Presentation - Field Data Collection	Smarter, Faster, Safer Infrastructure with Advanced Utlity Risk Mitigation - 4M Analytics -GDOT	Transportation Infrastructure: Data Collection to AI Analysis to Asset Management - Trimble	Digital Delivery Stakeholder Group	Carlson
4:25-4:55PM	Developing Modeling QA/QC Policy and Procedures - RS&H	Vendor Presentation - Field Data Collection	Smarter, Faster, Safer Infrastructure with Advanced Utlity Risk Mitigation - 4M Analytics -GDOT	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 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	Alabama DOT: Using Digital Delivery on the West Alabama Hwy Progressive DB Project	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 - AECOM - DOTs	Accelerating Disaster Recovery with AI: Automating Damage and Assessments to Speed Recovery Efforts - Blyncsy	Building a Future Ready DOT: A Practical Application to TOGAF
8:30-9:00AM	Digital Project Lifecycle - Below the Surface to Above - CDOT & HDR	Streamlining Civil Infrastructure Workflows: From Design to Closeout with a Common Data Environment - Builterra	IHEEP Technology Showcase at Boat Landing	Working Digital Delivery with GIS and BIM Frameworks - AECOM - DOTs	Accelerating CAD with AI: Power Up York Workforce - SCDOT, VHB, RS&H	Workforce Adaptation to the Digital Delivery Revolution
9:05-9:35AM	Operationalizing the Model Throughout the Entire Project Lifecycle - WSB - Bentley	MICKEY - Two Centuries of Acronyms and Programs - NCDIT	IHEEP Technology Showcase at Boat Landing	Working Digital Delivery with GIS and BIM Frameworks - AECOM - DOTs	Accelerating CAD with AI: Power Up Your Workforce - SCDOT, VHB, RS&H	Leveraging Roads and Highways Project Location Data in STIP
9:45-10:15 AM	**Break**					
	LOD/LOIN	**State Specific**	**IHEEP Technology Showcase**	**GIS and Asset Workshop**	**Project Delivery**	**Geotechnical, Bridge**
10:15-10:45AM	CTDOT: A Year in the Life of Workspace, Training and Loin	Roundabouts - Transoft - SCDOT	IHEEP Technology Showcase at Boat Landing	Working Digital Delivery with GIS and BIM Frameworks - AECOM - DOTs	Bridging Platforms and Standards - A Real-World Digital Delivery Use Case - Oklahoma & Pencil 9	Geotechnical - GeoDin and Autodesk
10:50-11:20AM	Panel Discussion of Level Development (LOD) - PennDOT, Michael Baker, HNTB, TxDOT	Progressing Digital Delivery in Tennessee - TDOT - WSP	IHEEP Technology Showcase at Boat Landing	Working Digital Delivery with GIS and BIM Frameworks - AECOM - DOTs	Bridging Platforms and Standards - A Real-World Digital Delivery Use Case - Oklahoma & Pencil 9	From Manual to Automated: Streamlining Load Rating Workflows - SCDOT
11:25-11:55AM	Panel Discussion of Level Development (LOD) - PennDOT, Michael Baker, HNTB, TxDOT	GDOT: Automated Feature Detection - An AI Application	IHEEP Technology Showcase at Boat Landing (until 1 pm - lunch provided)	Working Digital Delivery with GIS and BIM Frameworks - AECOM - DOTs	Fundamentals of Construction Management & Digital Delivery Considerations for Design Professionals	Geotechnical - 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**					