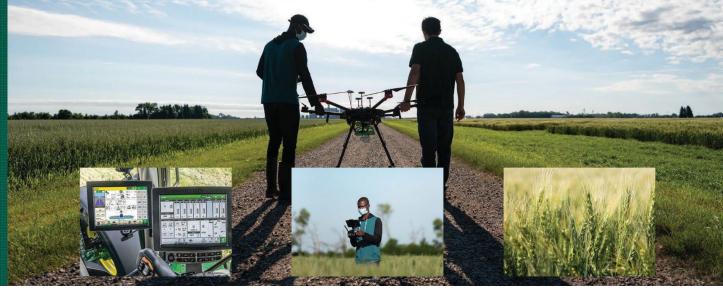
## Digital Agriculture in Today's Classroom



## **Day 1 - June 13, 2023**

8:30 a.m 9:30 a.m.	Welcome Dr. Greg Lardy, NDSU VP for Agricultural Affairs; Dean, College of Agriculture, Food Systems, and Natural Resources; Director, ND Agricultural Experiment Station; and Director, NDSU Extension Dr. Leon Schumacher, NDSU Department Chair, Ag and Biosystems Engineering Intro to Precision Ag – The beginnings: 1991 - John Nowatzki and Mike Ostlie	LOCATION  Ladd 114
	GIS basics and its application to precision agriculture – Dr. Dave Kramar, International Water Institute	Ladd 114
10:30 am – 10:40 am	Snack Break	Ladd 114
10:40 a.m 11:30 a.m.	Utilizing Today's Digital Ag Tools in a Research Setting – Crop and Livestock – Dr. Rex Sun	Ladd 114
11:30 a.m 12:30 p.m.	Working Lunch - Lesson Plan Project	Nueta in Student Union
12:30 p.m 1:50 p.m.	Digital Agriculture Data from a Farmer's Perspective - Sarah Lovas, Farmer/Agronomist — CK Technology - Carmel Miller, Farmer/Associate Professor of Agriculture, Technology & Natural Resources - Bismarck State College	Ladd 114

## **Day 1 – June 13, 2023 (continued)**

2:10 p.m. – 3:40 p.m.	Tour RDO	LOCATION
	Product Showcase: What is the Latest Software/Hardware in Digital Ag Today?	RDO
	• John Deere - RDO - Tony Kramer, RDO	RDO
	• My Operations Center – Tony Kramer, RDO	
	• 2960 34th St S, Moorhead, MN	
4:00 p.m. – 5:00 p.m.	Profit Strategies for Precision Agriculture	Ladd 114
	- Dr. Erik Hanson, Agribusiness and Applied Economics - Extension	

## **Day 2 – June 14, 2023**

7:45 a.m.	Welcome Back & Review	LOCATION
	Dr. Leon Schumacher	Ladd 114
8 a.m 9:30 a.m.	Tour at Appareo/IntelligentAg – Brenda Wyland  • 1810 NDSU Research Cir N	Appareo
10:00 a.m 11:30 a.m.	Tour Titan Machinery Product Showcase: What is the Latest Software/Hardware in Digital Ag Today?  • Case IH – Sam Christianson and Brett Swenhaugen, Titan Machinery • 3314 70th St S, Glyndon, MN	Titan Machinery, Moorhead Store
11:30 a.m.	Travel to Grand Farm	
11:30 a.m 1 p.m.	Working Lunch at Grand Farm – Lesson Plan Project	Grand Farm
1:30 p.m 3:30 p.m.	Drone flying/image data collection/data review at Grand Farm	
Participants will be split up into 3 Groups - 30 minutes at each station	<ol> <li>Introduction by Grand Farm staff</li> <li>Rob Proulx - Drone regulations and setup (Include aspects of Part 107 requirements. Demonstration of setup of several drone types, practice taking off and landing).</li> <li>Paulo Flores - Monitoring crops using drones (Demonstrate drone mapping mission setup, talk about sensors and their purpose. Demonstrate a flight to collect data, show results from previous flight, and discuss how the information can be used.</li> <li>Rex Sun - Drone use in weed management. (Show results of weed mapping. Explain what a prescription map is and how it helps, and demonstrate sprayer droneflight). Robotics in the field - weed identification. Big Weedbot.</li> </ol>	
3:30 p.m.	Wrap up	