



**DEVELOPING A SKILLED WORKFORCE FOR ADVANCING RAS
THROUGH SUPPORT FROM A NATIONAL COLLABORATIVE EFFORT
UTILIZING STRONG INDUSTRY ENGAGEMENT**

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University of Wisconsin Sea Grant Institute



University of Wisconsin-Stevens Point Northern Aquaculture Demonstration Facility



Mission: Support sustainable aquaculture through public education and advance the discovery, dissemination and application of knowledge for aquaculture in a northern climate

WORKFORCE DEVELOPMENT PROGRAM

- **Outreach, Extension, Training and Technology Transfer**
- **Applied Research and Demonstration Projects**
- **Cooperative Partnerships with Private, State, Federal and Tribal Agencies**



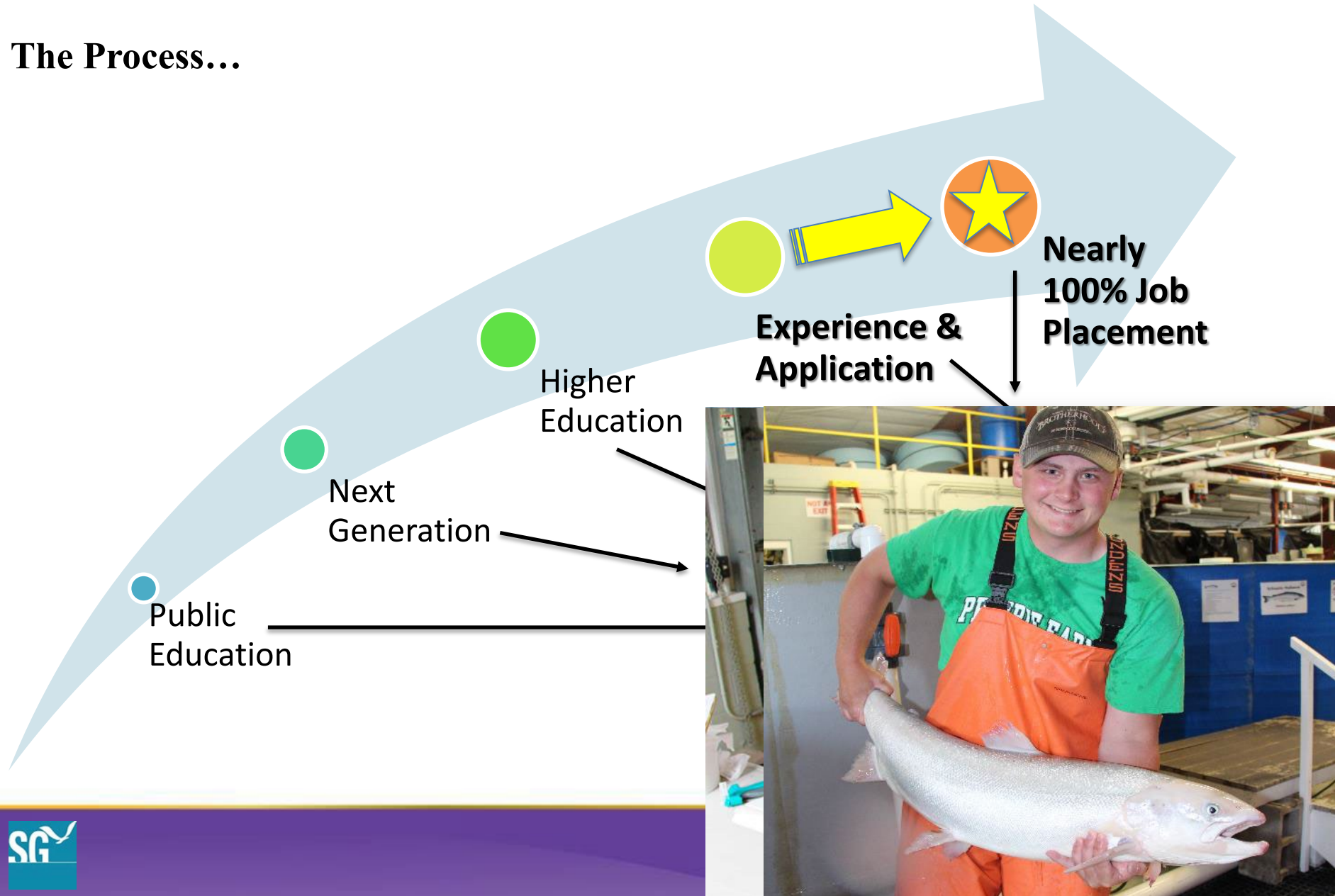
WHAT MAKES UWSP NADF UNIQUE?

- ✓ **Aquaculture Experience** Expert staff and skilled experience available at the facility working with variety of species/systems
- ✓ **Commercial Scale & Industry Applied** Research and Demonstration (23,000 –44,000L RAS grow-out systems)
- ✓ **Over 15 Species of Freshwater Fish Researched** at various life stages including food fish, bait fish and conservation species
- ✓ **Various Production Systems** showcasing RAS, flow-through, outdoor pond, cold_water and cool_water incubation, and larval systems
- ✓ **Strong Partnerships** with private industry, state, federal, and Tribal hatcheries, and organizations
- ✓ **Hands on Technician Positions and Internships** for important aquaculture skill development
- ✓ **Aquaculture Minor & Aquaponic Certificate** offered at UWSP
- ✓ **Public, Hands-on Tours** for all audiences and ages

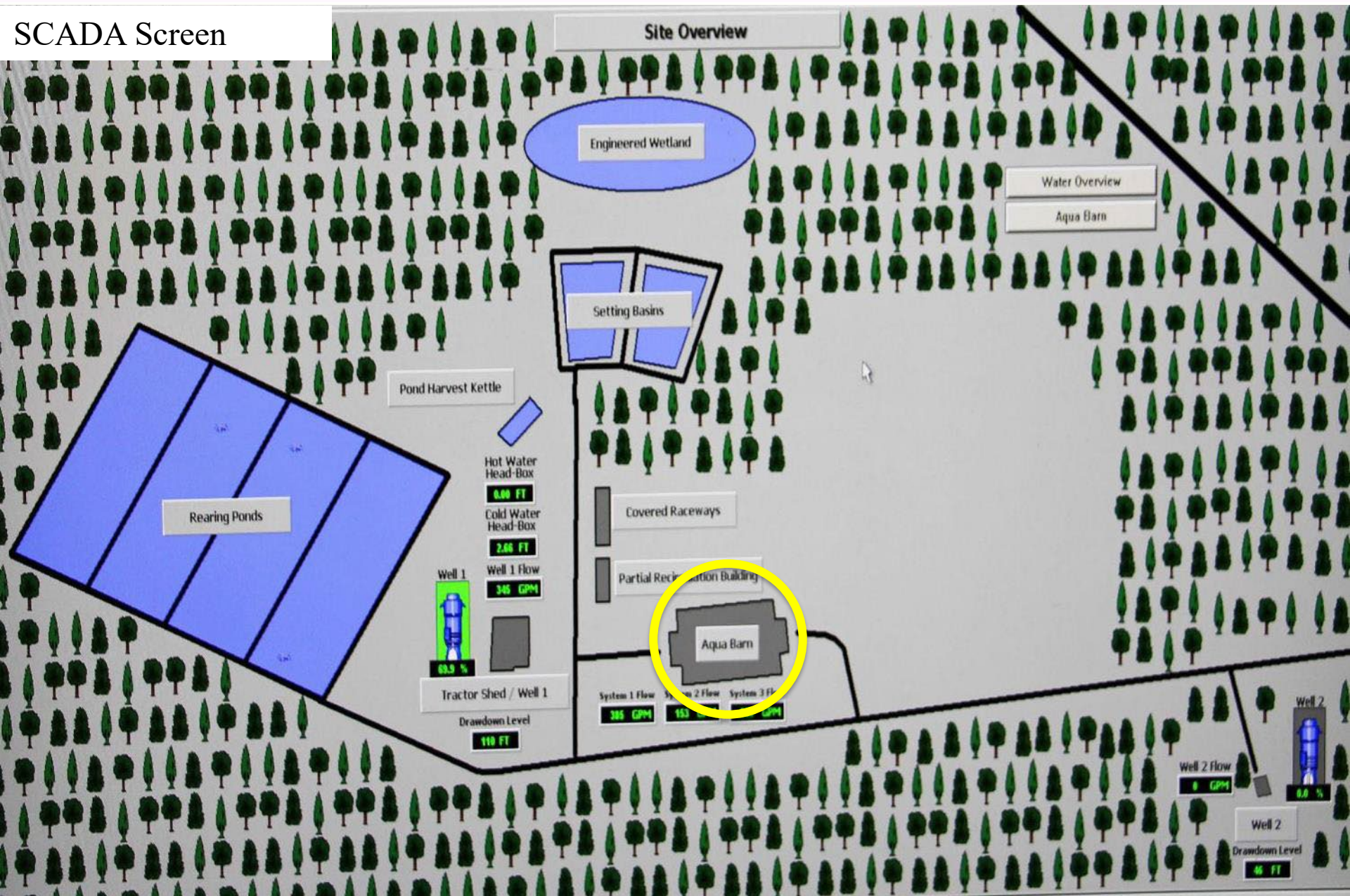


UWSP NADF WORKFORCE DEVELOPMENT

The Process...



SCADA Screen





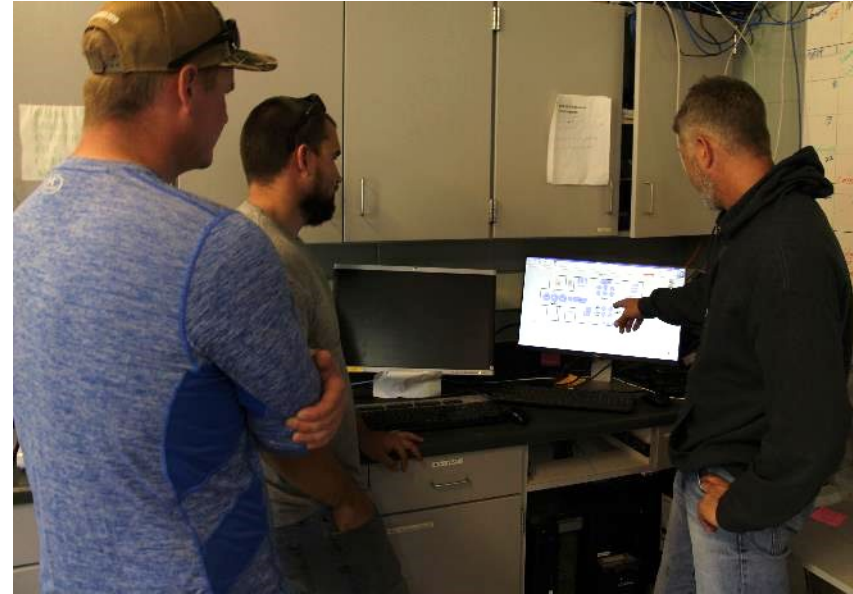
SKILL DEVELOPMENT IN SALMON RAS: FISH HUSBANDRY EGG TO BROOD



SKILL DEVELOPMENT: SYSTEM & MAINTENANCE



SKILL DEVELOPMENT: MONITORING AND RESPONSE



INTO THE FUTURE- Recirculating Aquaculture Salmon Network (RAS-N) leads to Sustainable Aquaculture Systems- Supporting Atlantic Salmon (SAS²) PD: UMBC

Research Universities



Government and NonProfit



Industry Partners



Industry Supporters



Image Credit: Melissa Cormier at UMBC



University of Wisconsin-Stevens Point
College of Letters & Science

Extension CO-Project Director: Catherine Frederick (University of Maryland)

UWSP NADF Contributions:

- ✓ **Increase awareness** and literacy of land-based salmon farming- video production
- ✓ **Transfer technology** and science-based Atlantic salmon RAS sustainability knowledge to producers, consumers, and community stakeholders- Publications, webinars, field days



GEARS DRIVING SUCCESS





Thank you!
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Questions?