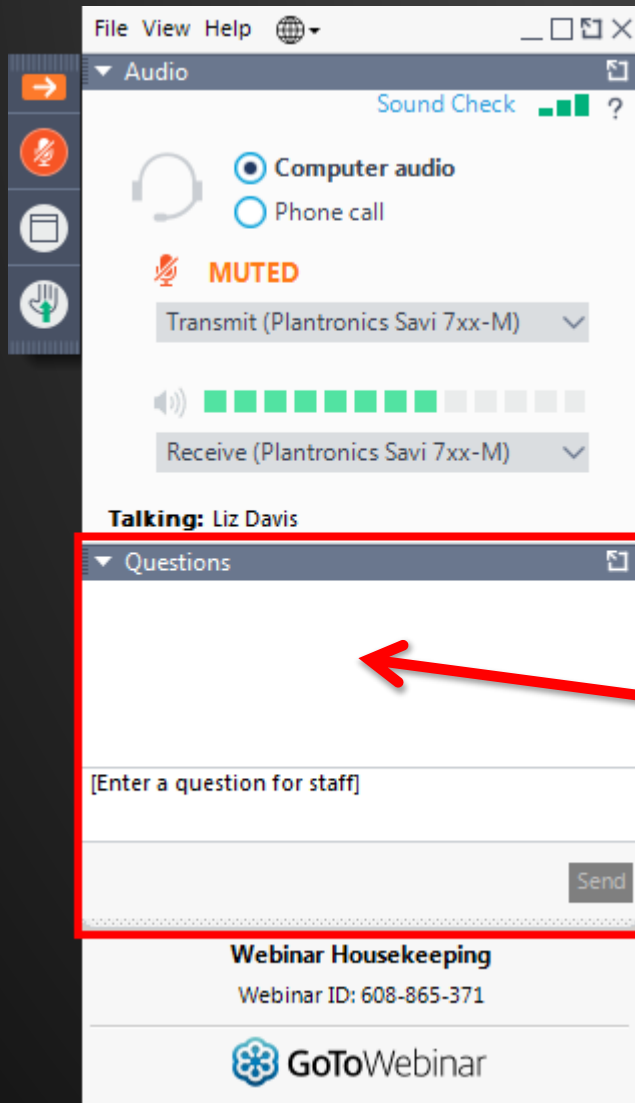




**Water Environment  
Federation®**  
the water quality people®

# How to Participate Today



- **Audio Modes**
  - Listen using Mic & Speakers
  - Or, select “Use Telephone” and dial the conference (please remember long distance phone charges apply).
- **Submit your questions using the Questions pane.**
- **A recording will be available for replay shortly after this webcast.**

# Nutrient Smart Recognition Program

Overview

# Nutrient Smart



NSmart is a proposed voluntary program recognizing nutrient reductions by water resource recovery facilities (WRRFs), and potentially industries and other entities in partnership with them, through educational outreach, technology, and innovative methods

# Who is eligible?



- Any WRRF looking to be recognized for their nutrient removal efforts

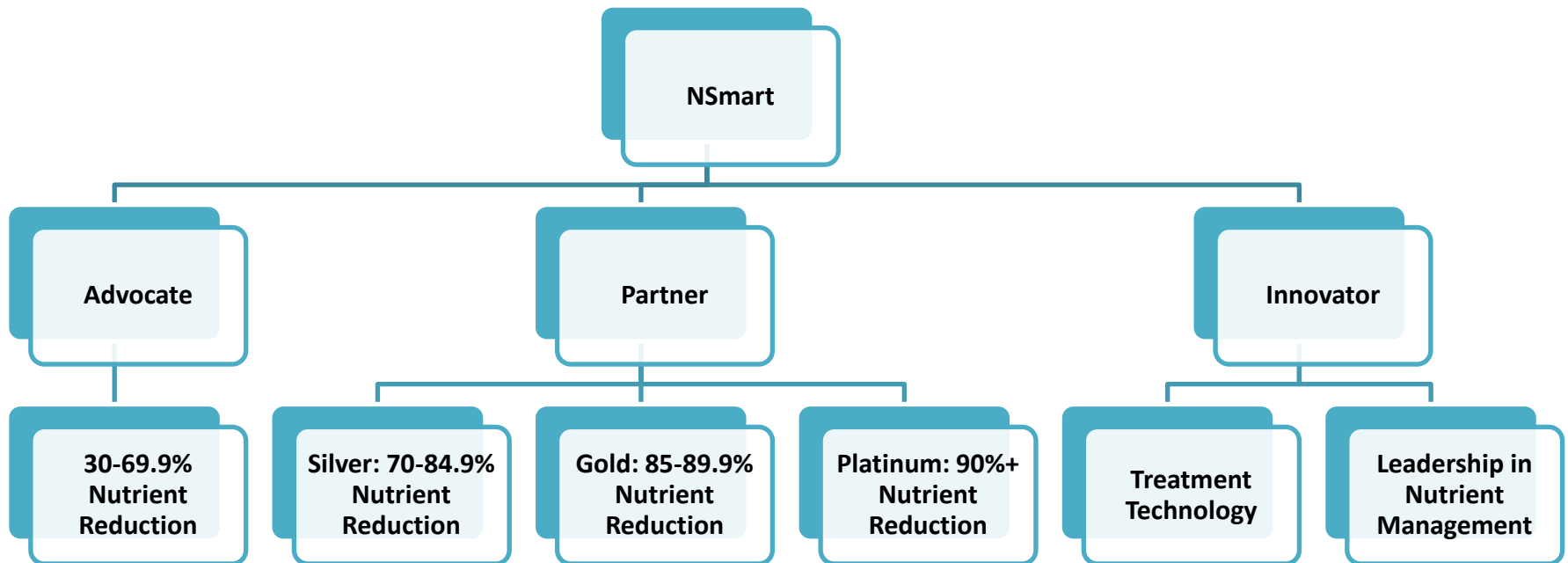


# Program Overview



- The program has two components
  - (1) utility-community engagement through outreach and
  - (2) reduction of total nitrogen (TN), total phosphorus (TP) or both (TN & TP)
- NSmart will use percentage reduction (influent to effluent) to calculate a facility's reduced nutrient loadings and determine acceptance into the appropriate recognition level/tier.

# Program Overview



# Advocate

- Participants working to establish outreach programs AND/OR reduce nutrients 30-70%
- Outreach Program
  - Participants may describe utility-community activities in your organization that are significant, unique, comprehensive, efficient, effective, noteworthy, or otherwise worthy of highlighting.



# Partner

- Participants have an outreach program in place AND are actively reducing nutrients (TN, TP or both):
  - Silver: 70-84.9% nutrient reduction
  - Gold: 85-89.9% nutrient reduction
  - Platinum: 90%+ nutrient reduction



# Innovator

- Participants have achieved Partner and have successfully implemented an innovation that reduced nutrient levels. Innovation falls into 2 categories:
  - Treatment Technology
  - Leadership in Nutrient Management
- Innovation categories are sub-divided into classes based on average design flow rate of Partner facility
  - < 1 million gallons per day
  - 1-10 million gallons per day
  - > 10 million gallons per day

# Innovation: Treatment Technology



- Treatment Technology innovations demonstrate a significant advancement in nutrient removal and/or recovery over existing technologies or processes including nutrient management projects resulting in:
  - Reductions in capital costs
  - Reductions in operation and maintenance costs
  - Reductions in volume/footprint
  - Innovative recovery of water, energy, or nutrient

# Innovation: Leadership



- Leadership in Nutrient Management innovations are designed to encompass a broad range of topics
- Facility makes case for why their innovation deserves recognition
- Some possible projects that would fall under this catch all category include:
  - Robust utility research program, mentoring and sharing knowledge with other utilities
  - Community outreach
  - Coupling green infrastructure, watershed activities, and storm water with nutrient reduction
  - Innovative technology testing or demonstration

# Innovator Application



- Treatment Technology
  - In 1,500 words or less describe the innovation and demonstrate the facility's percent of nutrient reduction.
  - In 1,000 words or less demonstrate the environmental impact. Those applications that show demonstrated, measured impacts (e.g., reduced benthic algae, improved aquatic indices, reduced suspended algae, improved instream DO or pH profiles, additional nutrient load reduction achieved, etc.) will receive enhanced consideration.
- Leadership
  - In 1,500 words or less describe how your utility demonstrates leadership in nutrient management.

# Judging



Treatment Technology	Leadership in Nutrient Management
50 pts: Describe the innovative technology (give examples – e.g. new technology; energy reduction; energy recovery, nutrient recovery; water reuse; etc.)	35 pts: Transferability- how easy would the innovation be to replicate or apply to another water resource recovery facility?
25 pts: Percent of nutrients reduced	30 pts: Percent of nutrients reduced
15 pts: Evaluation of the ancillary environmental impact (could be any or all the following: reduced GHG, reduced footprint, etc.)	30 pts: Scope of impact – what was the innovation?
10 pts: Evaluation of the time, operation, length of innovation longevity, performance and (must include minimum 12 consecutive months of data (can submit up to 3 years) to support case)	5pts: Provide outside documentation of the innovation (possible examples: news report, pictures, website hits/likes, third party independent verification, etc.)
<b>Total Points: 100</b>	<b>Total Points: 100</b>

# Recognition



- Advocate
  - Letter and certificate
  - Once qualified, participants do not need to renew
- Partner
  - Use of NSmart program identifier
  - Recognition lasts for 3 years - can renew or apply for another Level/Tier
- Innovator
  - Award ceremony at peer attended conference
  - One time recognition - can apply for multiple awards in both innovation categories

# FAQ



**Q: How do I apply?**

A: Visit [wef.org/Nsmart](http://wef.org/Nsmart). Please download the [NSmart 2022 Application](#). Complete the application and upload the application to the Open Water online platform by February 28, 11:59 PM EDT.

**Q: Is there a cost to apply for recognition?**

A: The Recognition Program is free of cost to participants.

**Q: When are the 2021 applications due?**

A: Applications must be received by February 28, 2022, 11:59 PM EDT



# FAQ



**Q: When will applicants be informed if they are selected?**

**A:** Applicants will be notified of judging decisions by April 1, 2022.

**Q: What recognition will successful applicants receive?**

**A:** Honorees for 2022 will be recognized in May in a format TBD.

# Questions?



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