

The 2020 Intelligent Water Challenge: Judging Criteria

An Opportunity for Vendors, Civic Hackers, and Students

Today's water industry operates complex treatment, collection, and distribution systems to protect public and ecological health. These systems are increasingly instrumented to monitor key process indicators and other parameters to facilitate operations. The Water Research Foundation and Water Environment Federation is holding the Intelligent Water Challenge to **demonstrate the value to utilities of these "intelligent water systems"**. The Challenge seeks to foster the adoption of smart water technologies by showcasing **the ability of intelligent water systems to effectively leverage data for better decisions**.

Solution Goals:

- Demonstrate the value of intelligent water systems
 - Leverage data using the best available tools to better understand and make decisions
-

The Intelligent Water Systems Challenge will work with water utilities around the world to identify individual challenges. Teams will work to address these individual challenges through innovative analytics applied to data from utilities' intelligent water systems. Some utilities may have capacity and interest to participate directly on teams, while other utilities may limit their involvement to furnishing a problem statement and relevant data.

Teams will select a Challenge problem statement provided by a utility and develop and implement a solution approach with minimal interaction with the utility.



Intelligent Water Systems Challenge Judging Sheet

TEAM NAME	<input style="width: 100%;" type="text" value="(team name)"/>	
JUDGE	<input style="width: 100%;" type="text" value="(judge name)"/>	
SCORE	<input style="width: 50px;" type="text"/>	out of 140
Raw (0-10) x Weight = Score		
TEAM		
1 Team includes necessary skills and has appropriate utility input representation.	<input style="width: 50px;" type="text"/>	x 1.0 = <input style="width: 50px;" type="text"/> out of 10
PLAN		
2 Problem Statement that shows understanding of how analytics can address utilities' challenges in utilities' terms.	<input style="width: 50px;" type="text"/>	x 2.0 = <input style="width: 50px;" type="text"/> out of 20
3 Characterization of the Intelligent Water System by describing the existing system or its salient parts.	<input style="width: 50px;" type="text"/>	x 1.0 = <input style="width: 50px;" type="text"/> out of 10
4 Plan that lays out a realistic timeline and approach for achieving the intended solution.	<input style="width: 50px;" type="text"/>	x 1.0 = <input style="width: 50px;" type="text"/> out of 10
IMPLEMENT		
5 Data streams are clearly identified and QA/QC appropriately discussed.	<input style="width: 50px;" type="text"/>	x 2.0 = <input style="width: 50px;" type="text"/> out of 20
6 Analysis & Interpretation deliver results that clearly support the intended solution.	<input style="width: 50px;" type="text"/>	x 2.0 = <input style="width: 50px;" type="text"/> out of 20
7 Communication & Use provide actionable results supporting decisions.	<input style="width: 50px;" type="text"/>	x 2.0 = <input style="width: 50px;" type="text"/> out of 20
8 The Solution meets utility expectations using appropriate tools.	<input style="width: 50px;" type="text"/>	x 2.0 = <input style="width: 50px;" type="text"/> out of 20
JUDGE'S IMPRESSIONS		
9 Recognition of alignment with IWS Challenge goals, scalability and sustainability, lessons learned, and more.	<input style="width: 50px;" type="text"/>	x 1.0 = <input style="width: 50px;" type="text"/> out of 10
COMMENTS		