D2K Information Pty Ltd | Complete Urban Swim Solution
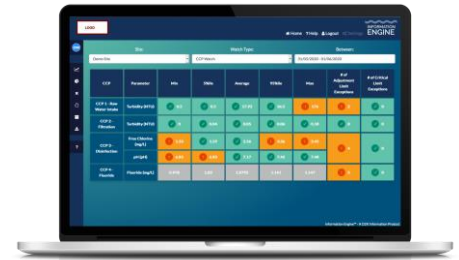**Country of Origin**: Australia
Technology Readiness Level: 7

Description: D2K offers a complete solution for Urban Swim projects, from concept to operation, incorporating expert water quality and governance risk advice, innovative QualitEye® configured online water quality monitoring hardware, cyber-secure Information Engine™ Cloud-based water quality intelligence software, and electronic communication of swimming safety information. In-situ, near real-time monitoring of specific microbiological contamination is a central feature of the D2K solution, via ColiMinder technology. Additional water quality parameters are also monitored in real-time using the SwanBot autonomous drone to provide deeper insights into water quality dynamics. Water quality data acquired by the QualitEye® hardware is automatically analysed by Information Engine™ and converted into actionable information and insights that facilitate timely and evidence-based swim site management decisions.

Applicability to Urban Swim sites: D2K's Complete Urban Swim Solution is a one-stop shop that provides everything needed from concept design through to data acquisition, information and knowledge management. Real time alerts and messaging create transparency and risk awareness, allowing managers and swim site users to make sound decisions, on the spot. With its quality data inputs, advanced software, intuitive user interface, and future-proofed configurability, D2K's Complete Urban Swim Solution helps improve monitoring resilience and efficiency while reducing costs and risks at every step of the process – from inception to operation.

Technical Risk and Case Studies: ColiMinder has been successfully implemented in a range of urban swimming sites in Europe, Asia and North America. ColiMinder is the technology of choice for the 2024 Olympics in France. It will monitor and alert on "swimmability" in the Seine River. Remote acquisition of data and information management are undertaken via Ayyeka cyber-secure remote telemetry system, coupled with innovative software, Information Engine™. Information Engine has helped reduce reporting time by more than 99% and improved performance at a regional water utility in NSW (publication here).

Cost and Business Case: The capital cost of implementation of a recent D2K complete urban swim solution, is in the order of A$150,000, with ongoing annual operational costs of approximately A$30,000, including software subscription. The largest contribution to operating cost is monitoring microbiological contamination. The solution operates at a fraction of the cost of manual sampling and laboratory analysis and delivers results in a fraction of the time. D2K's system dramatically reduces the risk of adverse public health outcomes, improves the transparency of information, and helps protect organisations offering urban swim facilities.

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