RUNOFF, REEF, REGULATION... and reality checks

2019 IECA Australasian Conference and Stormwater Queensland Conference
Tuesday, 1st – Thursday, 3rd October 2019 | Hilton Cairns, QLD

STORMWATER QUEENSLAND

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Erosion and Sediment Control and Urban Stormwater Capacity Building

Mr Adrian Crocetti[1]
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Biography:
Adrian Crocetti has been dedicated to the implementation of stormwater projects and practices for over 14 years working in several diverse roles ranging from technical roles as a stormwater engineer to policy and planning within local Government. Previous employment included Remediation Engineer and Operations Manager in the waste sector and 12 years in the construction industry as a fully qualified Plumber and Drainer and site supervisor.

He has delivered multiple stormwater and rainwater harvesting systems, devised efficient irrigation techniques for sports fields and streetscapes (including passively watered street trees) and incorporated his skills into numerous projects creating innovations, efficiencies and sustainable outcomes.

HIs unique skillset covers both practical and theoretical water quality areas which gives him an ability to fully comprehend projects from the initial planning and strategic phases, through to design, construction and maintenance. In his current role as Principal Engineer in the Water by Design team, he is able to share his extensive stormwater knowledge across Queensland and beyond through capacity building activities, guideline and policy development and advocacy roles.

Abstract:
The capacity of our regions to deliver best practice in urban water management is a complex and significant challenge both in Queensland and more generally across the county1. There are a myriad of interactions undertaken by a range of stakeholders that contribute to plan, maintain, grow and change these regions to ensure they are 'best placed' and resilient to face future challenges. Building the capacity of this myriad group of stakeholders and building a common vision is a key requirement to achieve liveable, resilient regions for the future that build on their environment, economic and social values. Through this State Government funded program we are systematically identifying the capacities and capabilities needed across multiple stakeholders to deliver these outcomes.

We do this through a model that see's us 'embed' with Councils across the State, understanding internal barriers and benefits to ESC and stormwater management, undertaking gap analysis and reporting and offering recommendations on a range of best practice solutions. involving a variety of techniques such as cross departmental engagement meetings, on-site field trips, workshops and trialling various techniques, management practices and devices that improve water quality and reduce sediment escaping from construction sites.

We have had the opportunity to learn and share innovations in design and processes together as an industry and promote the work that a wide range of partners are undertaking around common issues and leading best practice in designing solutions. This includes a trial HES Basin at the St John Water Treatment Plant, Townsville, is being tested and validated and together with the University of Queensland, developing metrics for a program logic model to further understand and drive capacity

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building in the sector. We have found is that innovations in design and capacity building that can achieve a wide range of benefits are complex, and therefore require new ways of delivery. Promoting an innovation mindset in capacity building requires a journey toward building communities of practice that feel it is safe to consider new ideas and solutions and who can learn together what does and doesn't suit. The ESC and USW networks in Queensland are getting stronger because they are strengthening their ability to communicate and collaborate through high level engagement has provided opportunities for meaningful interactions to discuss barriers and test scenario solutions to improve outcomes. They are able to refocus on being more holistic and learn collectively.