



Università  
di Genova

DICCA DIPARTIMENTO  
DI INGEGNERIA CIVILE, CHIMICA  
E AMBIENTALE

# COASTAL RESILIENCE PLANNING

*The Australian experience*

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Australia has been at the forefront of climate resilience research for the past decade, funding a range of research projects and initiatives, such as the South East Queensland Climate Change Adaptation Research Initiative (2009-2012) and CoastAdapt (2014-2016). These have paved the way for widespread application of innovative policies, programs and actions at the local scale, many of which are reflected in coastal engineering solutions of different sorts. In the coastal policy sphere, the QCoast2100 program (2016) in Queensland, and the updated NSW Coastal Management Framework (2017) have been recently driven by a new wave of proactive government thinking. This reflects coastal population growth and demand for coastal space and amenity on one hand, and the increasing cost of managing current and future hazards. These government-led programs widely employ research outcomes from earlier research carried out mostly in Australia. Using a coastal engineering lens, in this presentation we will discuss how these approaches are being implemented at different locations in Queensland and New South Wales.

**MARCELLO SANO** is an Environmental Science graduate from the University of Genoa and holds a PhD in coastal planning and engineering from the University of Cantabria, Spain (2009). In 2009 he joined the Griffith Centre for Coastal Management in Australia. He is the lead author of the Guidelines for the preparation of Coastal Hazard Adaptation Strategies for Queensland Coastal Councils (2016). Recently, in 2018-19 he worked for the Office of Environment and Heritage of the New South Wales Government supporting the development of Coastal Management Programs.