Paper / Proposal Title:
Innovation in research & education pedagogies: the Transitional Territories Studio three years’ experience on the North Sea

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Abstract (300 words):
This paper presents the educational approach embedded in research developed within the framework of the Transitional Territories graduation Studio at the Delft University of Technology, Faculty of Architecture and the Built Environment. Transitional Territories is a cross-domain research and design studio working on the notion of territory as a constructed project across scales, subjects and media. In particular, the studio focuses on the agency of design in territories at risk between land and water (maritime, riverine, delta landscapes), and the dialectical - or inseparable - relation between nature and culture. At the core of the Delta Urbanism Research Group (Section of Urban Design), the studio is embedded within and supported by the interdisciplinary TU Delft Delta Futures Lab, working in close collaboration with the Faculties of Civil Engineering and Geosciences and Technology, Policy and Management (TUD). Delta Urbanism is an interdisciplinary research program at the Delft University of Technology, which investigates the possibilities to combine flood protection, soil and water management strategies with urban design, landscape design and spatial planning, aiming to improve spatial forms and structures and innovate urban systems in delta regions. By challenging the constrains of disciplinary boundaries as well as the frontiers between research and education, the Transitional Territories Studio explores through cross-
disciplinary knowledge (theory, material practice, technology, landscape urbanism, architecture, art, engineering, design and representation) pathways of inquiry and action by building upon Delta Urbanism research tradition, yet moving beyond conventional methods and concepts. The theoretical discourse to which the studio refers includes notions of critical zones, territorialism, infrastructure space, (landscape) ecology, environmental risk and transition theory. Founded on an interdisciplinary approach, in which designing and engineering disciplines activate innovation in design, technology and governance, the ambition is to develop projects that contribute to the making of more sensible and informed decisions within the fragile context of urban delta landscapes.

**Author(s) Biography:**
Dr. ir. Luisa Maria Calabrese is an architect, urbanist, curator and senior lecturer at the Delft University of Technology, Faculty of Architecture and the Built Environment. She graduated as architect and urban designer from IUAV University of Venice, Italy and obtained a PhD in Urbanism from Delft University of Technology in 2003. She works in the fields related to urbanism, curatorial thinking, and the visual/literary cultures around them. She has been teaching and lecturing internationally during the past 24 years, and practiced professionally in urban design and architecture, as well as in more cross-disciplinary forms of design, editing, publishing and curating. Her recent work focusses on the critical role Urban Design can play in constructing a post-anthropocentric vision of the world we inhabit. In particular, she is working at developing a line of research on cross-domain narrative approaches to urbanism. Her work focuses on exploring the transformations of a territory through the multiple narratives of which it is made of, so to inform the Urban Design project on the dynamic spatio-temporal relationships among spatial systems, environment, society, culture, economy and politics. Her work has been exhibited at the Venice Architecture Biennale 2006 and 2018. In 2003 she has been director of research of the 1st International Architecture Biennale in Rotterdam (NL), Mobility, a room with a view (Curator: Francine Houben). Since 2018 she joined the Make Move Think foundation as creative developer.

Dr.ir. Taneha Kuzniecow Bacchin is an Assistant Professor at the Section Urban Design and Research Programme Leader Delta Urbanism, Faculty of Architecture and the Built Environment, Delft University of Technology. She graduated as architect and urban designer from IUAV University of Venice, Italy and the University of Brasilia, Brazil, later further specialising in territorial/ landscape planning and design with an advanced master in territorial planning and geomatics from IUAV, Italy. In 2015 she obtained a PhD (double degree) in Landscape Architecture and Water Science & Engineering from Delft University of Technology jointly with UNESCO-IHE after a year of doctoral education at The Bartlett School of Architecture, Centre for Advanced Spatial Analysis. Her research and projects focus on the relationship between landscape
architecture, infrastructure and urban form. She has expertise in water sensitive/nature-based design and environmental risk. Her current work deals with the changing nature of the territorial project, addressing spatial, political, and economic aspects of extreme weather and resource scarcity, particularly focusing on the North Sea Region and the Arctic. Her work has been funded internationally and exhibited at the Venice Architecture Biennale 2002 and 2018, and São Paulo Architecture Biennale 2013. Before starting her academic carrier, she worked for architecture and urban planning practices in Brazil, Italy and Denmark.