

Research project and supervisor team

Supervisory Team	Supervisor Name Fangfang Zhu - University of Nottingham Ningbo China Nicholas Dodd - University of Nottingham
Short introduction & description of research project	<p>Beach nourishment is an established technique for replenishing eroding beaches. It involves the deposition of large quantities of sand ($\geq 500,000 \text{ m}^3$) on the beach. The method is regarded as being environmentally friendly and sustainable, because it does not require the building of traditional, hard coastal structures.</p> <p>This research project aims to develop a novel numerical model that will simulate beach nourishments. The model will treat the nourishment and pre-existing profile distinctly, nourishment evolution can, to some extent, be decoupled from background profile, which is known not to be accurately simulated in existing numerical models. As a result, the model will reveal a more accurate, more fundamental understanding of beach nourishment behaviour. Furthermore, this numerical model will reveal the types of behaviours of nourishments that can exist, and therefore the likely evolution of nourishments at a particular site, including their life-span.</p>
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