

Proposal Acronym	RAGBICOM
Proposal Title:	Resilience of artificial gravel beach and implication for coastal management
Surname:	Pikelj
First name(s):	Kristina
Research area:	Environment and geosciences ENV
Sub-discipline of research area:	Earth System Science Physical Geography
Category of research:	applied
[REDACTED]	[REDACTED]
Abstract:	<p>Coastal erosion is one of the major global environmental problems, resulting in beach loss. Natural and artificial gravel beaches have great significance in preventing beach erosion and enhancement of tourism. Proposed project will assess the resilience of artificial gravel beaches to significant storm events by novel application of computer vision techniques (structure-from-motion – multiview stereo -SfM-MVS). The overall aim of the project is to improve understanding of artificial gravel beach resilience to significant storm events by comparing it to natural gravel beaches under the same climate and wave conditions. To assess the resilience of both beaches, 3D beach morphology reconstruction will be derived using SfM-MVS method. Field trials will start in UK and a case site is located in Croatia. Obtained results will serve as first guidelines for strategic coastal monitoring to enable coastal management in Croatia.</p>
Does this proposal possess any of the sensitive ethical issues detailed in ethical issues table?:	No