Opportunity name: NERC TWINE demonstrators: digital twins for environmental science

Meeting Date: 9 November 2023

Application Reference	Project Title	Research Organisation	Outcome
11577	A digital twin of Svalbard's 21st Century Cryosphere (SvalbardCryo-DT)	University of Aberdeen	Unsuccessful
		UK Centre for Ecology &	
12516	Digital Twin 4 East African Flooding	Hydrology	Unsuccessful
12644	Creating a digital twin of soil moisture storage from Remote Sensing (Twist-RS)	University of Edinburgh	Unsuccessful
	InterTwinES - Interoperable, Interdisciplinary, Interconnected, Integrated		
12716	Digital Twins for Environmental Science	University College London	Unsuccessful
12772	Near Real-Time Global Carbon Budget (NRT-GCB)	University of Exeter	Unsuccessful
12787	SPLASH: digital approaches to predict wave hazards	University of Plymouth	Successful
	Synchronising Earth Observation and Modelling Frameworks Towards a Digital		
12879	Twin Ocean (SyncED-Ocean)	Plymouth Marine Laboratory	Successful
13438	Forest Resilience Digital Twin Demonstrator (FReDo)	Bangor University	Unsuccessful
13526	FLOODTWIN	University of Hull	Successful
13833	Virtual Integration of Satellite and In-Situ Observation Networks (VISION)	University of Cambridge	Successful
14075	A digital twin of Antarctic ice shelves (DT-Ice)	Lancaster University	Unsuccessful
14156	A Novel Multisource Data Integration Framework for Digital Twinning Forests	University of Southampton	Unsuccessful
14868	MAS-DT	National Oceanography Centre	Successful
	DIGItal twin COAST: Monitoring, Measuring and Modelling coastal processes		
15262	under a changing climate (DIGICOAST-M3)	Imperial College London	Unsuccessful
	Modelling environmental variation and animal landscape use in recovering		
15435	tropical forests	Bournemouth University	Unsuccessful
	TwinTurtle: demonstrating the potential for digital twins in precision		
15671	conservation.	University of Aberdeen	Unsuccessful

	Digital twin of the lower Dnipro river following the loss of the Nova Kakhovka		
16686	Dam		Unsuccessful
	DeltaGuard: Advancing Resilience through Integrated Digitals Twins for Water		
16749	Hazard Management of the Vietnamese Mekong Delta	Middlesex University	Unsuccessful
	A digital twin for invasive pest control in a changing climate: a case study of		
16933	oak processionary moth	Newcastle University	Unsuccessful
	AquaTwin: Unleashing the Power of Digital Twins for Water Quality	UK Centre for Ecology &	
17142	Management	Hydrology	Unsuccessful
17245	VALID: aVian hAbitat digitaL twln Demonstrator	Durham University	Unsuccessful
17542	Digital Twins PiSL	University of Nottingham	Unsuccessful
17599	Catchment InSights	The Alan Turing Institute	Unsuccessful
	FArm-Bespoke Digital Twins for risk informed farm monitoring and investment:		
17947	FAB-DT	Rothamsted Research	Unsuccessful
18130	SWiFT-DT: Surface Water Flood Forecasting Digital Twin Demonstrator	University of Edinburgh	Unsuccessful
	HESTIA: Human-Digital Twins Teaming for NetZero and Decarbonisation Debts		
18178	Analysis of Thermal Insulations Inefficiencies of Urban Premises	University of Birmingham	Unsuccessful
	Enhancing climate-resilient drinking water: a digital twin integrating nature-		
18348	based solutions and Earth Observations	University of Exeter	Unsuccessful
	Developing a Predictive City-Wide-Scale Digital Twins System to Mitigate the		
18766	Impact of Climate Change	Queen's University Belfast	Unsuccessful
	Metrological Prediction Of Land Cover and temperature changes In Space and		
18840	time (MetroPOLIS)	Brunel University London	Unsuccessful
19016	Leveraging AI and satellite imagery for building agricultural digital twins	The Alan Turing Institute	Unsuccessful