



## OPTIMIZING HIGH-PERFORMANCE COMPUTING SIMULATION PROCESSES

	Project Source Code	Software Catalogue	Data Catalogue
Open Data Repositories			
zenodo	<u>Online</u> Documentation	<u>Model</u> <u>Repository</u>	<u>Workflow</u> <u>Registry</u>
Three thematic pillars			
<b>Digital Twins in</b> manufacturing	Validation of complex manufacturing models achieved New methods to develop Digital Twins of manufacturing processes contributing to the Industry 4.0		
بن ب	Improved climate models efficiency by reducing computing and storage resources AI enhanced extreme weather events prediction (tropical cyclones)		
Urgent computing for natural hazards	Improved response time to natural disasters and more accurate understanding of gephysical hazards Workflow malleability solutions to use less HPC resources		



This project has received funding from the European High-Performance Computing Joint Undertaking (JU) under grant agreement No 955558. The JU receives support from the European Union's Horizon 2020 research and innovation programme and Spain, Germany, France, Italy, Poland, Switzerland, Norway.