

OPTIMIZING HIGH-PERFORMANCE COMPUTING SIMULATION PROCESSES



Open Data Repositories

zenodo



Project Source Code



Software Catalogue



Data Catalogue



Online Documentation



Model Repository



Workflow Registry

Three thematic pillars



Digital Twins in manufacturing

Validation of complex manufacturing models achieved

New methods to develop Digital Twins of manufacturing processes contributing to the Industry 4.0



Advancing climate modelling

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 geophysical hazards

Workflow malleability solutions to use less HPC resources