

Thematic Core Service Anthropogenic Hazards, history, activities, EPOS - the way to the research excellence

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The EPOS Thematic Core Service Anthropogenic Hazards (TCS AH) was established as a response to the scientific community's need in the anthropogenic research field. The TCS AH Consortium has been created within the framework of the European Plate Observing System, a solid earth science European Research Infrastructure Consortium (ERIC). TCS AH is an open consortium of 15 European institutions. TCS AH provides access to a novel e-research infrastructure, the EPISODES Platform, to foster both research and training on induced seismicity and geo-hazards related to the exploration and exploitation of geo-resources. The core of the TCS AH infrastructure, the EPISODES Platform connected to international data storage nodes offers open access to large grouped datasets, comprising geoscientific and associated data from industrial activity along with a large set of embedded applications for their efficient data processing, analysis, and visualization. The EPISODES Platform is connected to international data nodes that offer open access to multidisciplinary datasets called episodes. Episodes comprise geoscientific and associated data from industrial activity along with a large set of embedded applications for their efficient data processing, analysis, and visualization. The EPISODES Platform also opens the possibility of creating new applications and combining implemented applications with the user's codes. The team-working features of the EPISODES Platform facilitate collaborative and interdisciplinary scientific research, public understanding of science, citizen science applications, knowledge dissemination, and the teaching of anthropogenic hazards related to geo-resource exploitation. This study presents the current results of the integration of the TCS AH research infrastructure and also indicates the benefits of their usage in science, education, and innovation. TCS AH provides the framework for the global-scale investigation of AH related to georesource exploitation, achieved through open-access data and applications following FAIR (Findable, Accessible, Interoperable, Reusable) data principles.

Presenter: LEŚNODORSKA, Anna (Institute of Geophysics of the Polish Academy of Sciences)

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