ResTO-TerRiN Project: Towards Territorial Resilience to Complex Disasters

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This paper presents a brief summary of work being carried out under the Franco-Japanese research project ResTO TerRiN. The main goal of the project is to produce relevant knowledge and effective methods and tools to improve the resilience of a territory against Natech accidents (chemical accidents triggered by natural hazards) especially those due to flood / tsunami. The work is based on a posteriori (in Japan and France) and a priori analysis of the industrial as well as the local governments’ emergency management to the Natech accidents during the Great East Japan earthquake and tsunami (GEJET) and during severe flooding events in France. Survey questionnaires in Japan and France are being applied to chemical facilities, to government agencies, and to citizens in France and Japan. The data collected are used to model the impact of the natural hazard events on the facilities and the safety barriers, as well as the community and overall social impacts. These results are then used to understand societal and territorial resilience to these complex disasters and propose a Natech resilience model. In this paper we present the preliminary results of the ongoing work in Japan.