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Establishing a Disaster Response Support System based on Activities of Public-private Partnerships:

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Recently, drones have been widely used in public areas such as disaster relief and rescue, information collection and monitoring of disaster affected areas. In particular, drones are highly useful as a means to quickly identify the extent of disaster damages in the broader range. However specialized skills for drone's operation are required that means it takes effort and time to train human resources, and also need a budget to preparing equipment. Moreover it is difficult to monitor the disaster situation with government office's own personnel and equipment if the event were happened in a wide-scale disaster. In this regard, we believe that the cooperation system with activating private drone experts in local area is meaningful way, because they already have expertise and well trained – top level of drone's operation skills – to monitor the disaster situation in case of necessity. According to consciousness survey for civilian drone experts about the public-private cooperation, they are ready for action with a sense of duty to protect their family and neighbor's property and human life, and also well known the geographical feature and vulnerable area. Not only do those things help to disaster management, but those make an encouraging their active participation. In this perspective, the research aims at providing a new public-private cooperation model in order to support disaster response based on the expertise and initiative of private sector. We established the operation process with public-private cooperation, in this bottom line drone emergency operation team is effectively organized and activated to support disaster response for 19th Typhoon of Soulik in August 2018. In this presentation, we would like to share our experience and efforts about activating a model of public-private cooperation.