SISNET/EGNOS AS A TOOL IN CRISIS MANAGEMENT

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Crisis management can be studied on many aspects of our modern societies. Many of public services are involved in dealing with it more often. The paper covers fire-brigade operation. The case was examined in Polish cities Chełm and Warszawa. Fire brigade deals daily with many emergency situations such as fires, floods, earthquakes, accidents occurring during transportation of hazardous materials or traffic accidents. Every mentioned situation can result in injuries and even loss of lives. It means that all possible means have to be used for the most efficient dealing with an unpredictable event that occurred - the best technologies should be used on every stage of crisis management to minimize negative consequences.

In this case SISNeT/EGNOS data implemented and used for dealing with crisis is considered. The fundamental purpose of the task is to develop and test monitoring platform based on GNSS and data from SISNeT/EGNOS corrections, which fulfils following conditions: accuracy, reliability and continuity of service at a level required by a highly demanding user (fire service unit). The project identifies benefits and potential of SISNeT/EGNOS system especially for user like public forces who have to assess, understand, and cope with a serious situations. The Crisis Management part of SISNeT Application project is aimed at an experimental augmentation of the positioning and monitoring system used by fire-brigade units with EGNOS/SISNeT corrections: defining the enhanced system, implementing and testing it in real operational conditions.

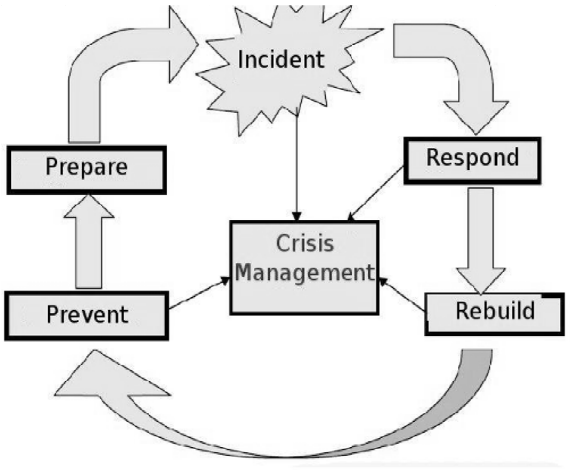

Fig. 1. Crisis management cycle.

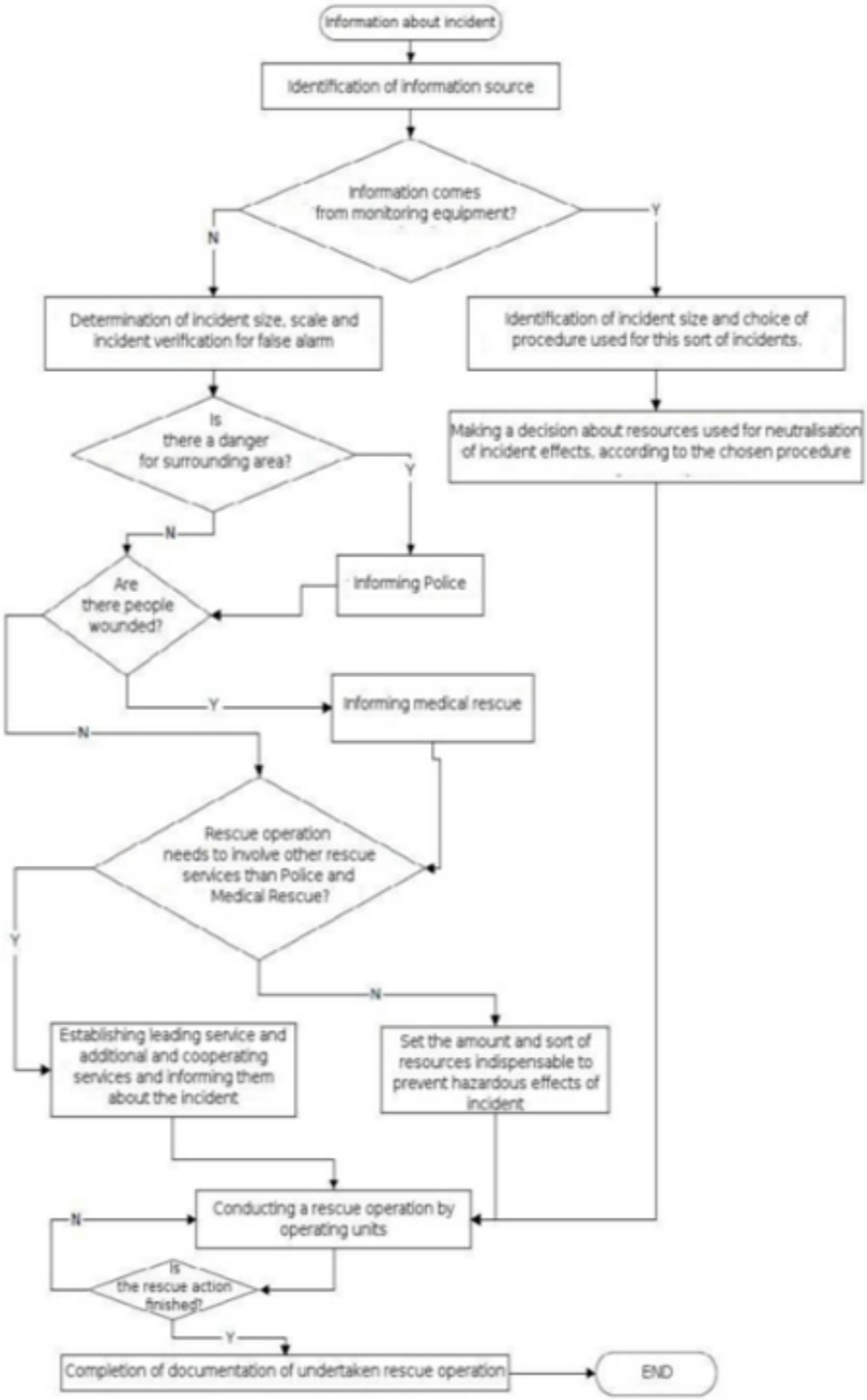

Fig. 1. General procedure used In case of incident requiring conducting a rescue operations.

Fig. 2. Mobile devices used in tests.

Fig. 3. Mobile client software.

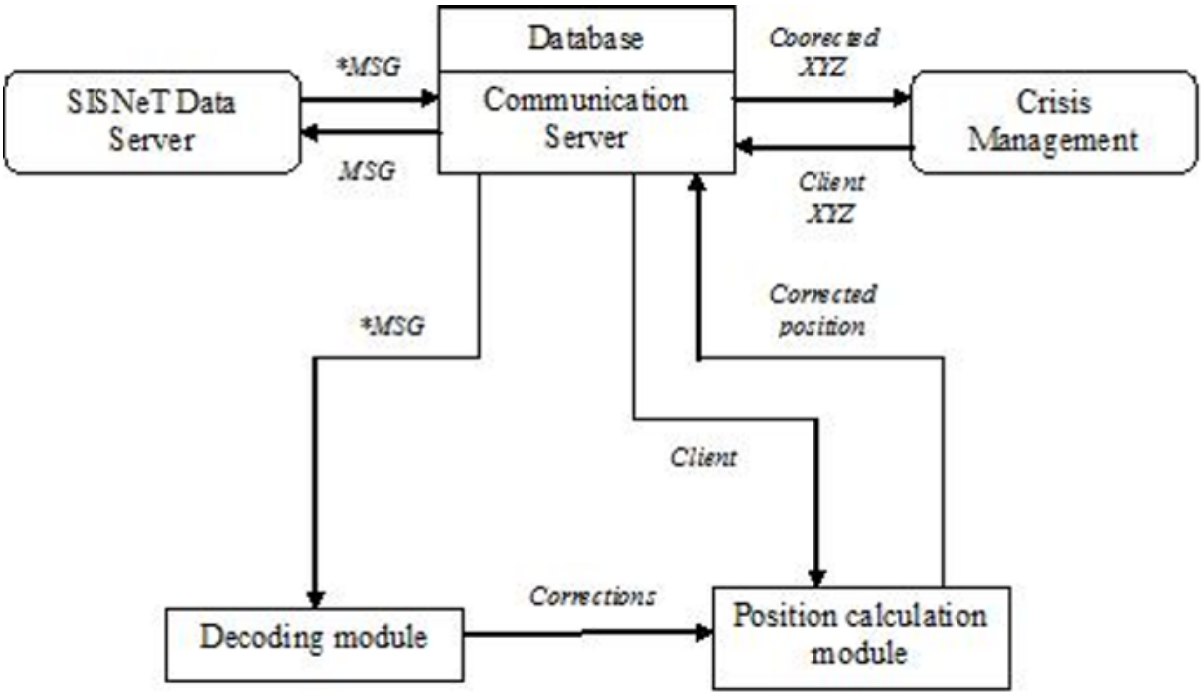

Fig. 4. Application model.

Fig. 5. Activity performed.

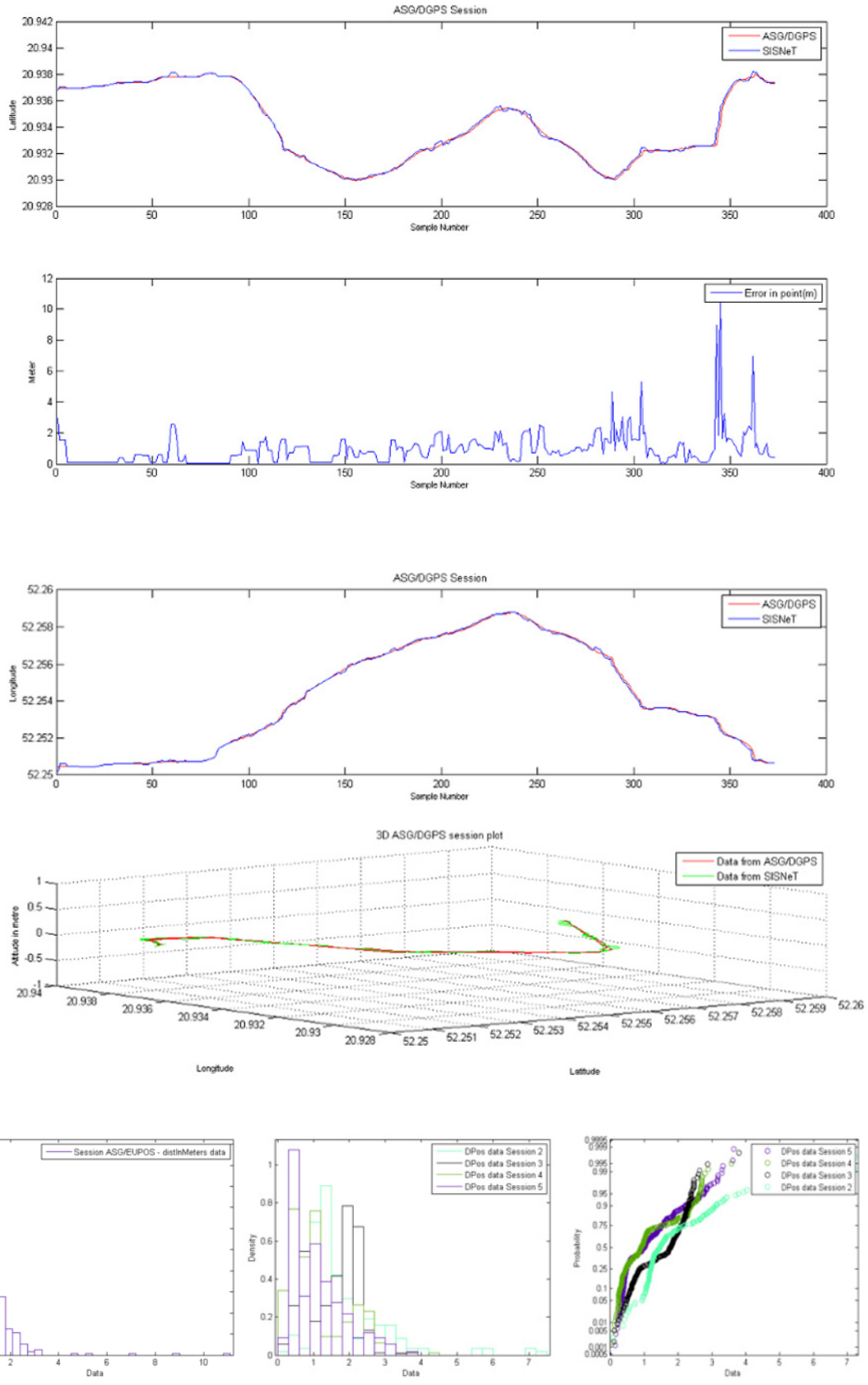

Fig. 6. GPS/ASG-EUPOS – SISNET Tour.