

Radio Research & Development Institute (NIIR), Russian Federation

Improving the efficiency of the use of ICT to radically reduce losses in the event of emergencies

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Problems of the day

- 1. The paradigm of nonzero risk.
- 2. ineffective systems of management in Emergency situation for human rescue.
- 3. Inability to control in some Emergency situations, for example earthquake.

t0 Tk after before during **Emergency Emergency Emergency** situation situation situation forecasting coordination general warning of actions for rescuers

Content

- 1. The need to find new solutions to radically improve the predicative capacity of existing processes for global monitoring systems,
- 2. The need for multidisciplinary research,
- 3. The new paradigm for personalized management of disaster (9 TELMIN APEC Declaration -2012),
- 4. The possibility of using IoT (GeO IoT) for the monitoring and management of natural disaster

1. The need to find new solutions ...

- Every year, emergency situations of natural character (such as earthquakes and floods) are sources of excessively large material and human losses in different parts of the Earth. In this case the loss is equally high for both developed and developing countries.
- Therefore, the international community and individual countries pay great attention to the development and operation of the global processes of monitoring systems. Therefore, the international community and individual countries pay great attention to the development and operation of the global processes of monitoring systems.

1. The need to find new solutions ...

However, the measures taken can not yet improve the predictive capacity of existing systems to the economic value and each time another disaster is a catastrophic surprise for both the administration and for the entire population of the area in which emergency happened.

It should be noted that natural disaster is often accompanied by a man-made disaster. Particularly large losses - in large cities.

1. The need to find new solutions ...

It is necessary to take into account another cause large losses for countries that are exposed to shocks disasters of natural origin. The fact that the efforts of States in the development of tools for monitoring and prevention of emergency situations arise are often ineffective as citizens who find themselves in the emergency area, and even warnings about emergencies become helpless, immediately forget all the instructions and as a result, are often the victims of these emergencies.

This phenomenon, as a rule, the further analysis of disaster qualifies as a "human factor". Moreover, we emphasize again, this phenomenon is equally characteristic of both developed and developing countries.

Suffice it to recall the recent tragic events in Japan, the US, China, Russia, Repablic of Korea, Guatemala, Pakistan, Taiwan and others.



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