MINISTRY OF INTERIOR

DIRECTORATE COMMUNICATION AND INFORMATION SYSTEMS
National System for Early Warning and Announcement (NSEWA)

The system consists of:

1. System for early warning and announcement of the authorities and the components of the Unified rescue system.

2. System for early warning and announcement of the population
The system for early warning and announcement of the executive authorities and of the components of the Unified Rescue System

• The system is designed for individual announcement and announcement via a telephone.
• **Scope** – 29 control centers on the territory of the country

• **Capacity** - 28 000 officials for the whole country
The purpose of the system

• Early warning for a forthcoming event;

• Transmitting information for organization prevention activities;

• Organization of reaction activities in a given event;

• Forming departmental, regional and municipal headquarters;
**Functionalities:**

- Priority distribution of officials included in the groups;
- Making calls up to 4 telephone numbers;
- Identification of officials via personal identification number (PIN);
- Recording results from the announcement;
- Archiving the data from the announcements.
Main Functions

**Alarm** - sending pre-recorded message to the groups in case of disaster

**Announcement** – sending a message to the persons in the groups with additional information prepared at the moment of occurrence of the disaster with concrete data from the event and instructions for action.
Conference - realizing conference call among the groups independently of their location aiming to co-ordinate the actions in order to be able to take urgent decisions for reaction.
Benefits:

- Fats and reliable distribution of important information with minimum expense of time;

- Rapid mobilization of the teams and sending informing to a large number of departments, agencies and organizations simultaneously.
The System for Early Warning and Announcement of Population

**Purpose:**

- simultaneous warning and announcement of large number of people on the given territory for a disaster which is upcoming or already occurred;
- Giving instructions for the necessary measures and actions via acoustic signals and voice information.

**Benefit:**

- fast and reliable warning and announcement of population aiming to provide opportunely and adequate reaction and to limit or overcome the consequences from disasters and accidents.
**Scope of the system:**

- The territory of the country is covered by Automated System for Announcement, using sirens type C-40 and “Signal 2” with possibility for centralized and local activation.

- The modern siren system is installed in 11 regional cities;

- The new system covers 34,3 % from the population of the country.

Cities with new siren system:
Sofia, Pazardzhik, Plovdiv, Burgas, Kyrdzhali, Smolyan, Varna, Ruse, Pleven, Montana, Vratsa
Control Centers

National Control Center (NCC) - monitoring and control of the whole system.
Alternative Control Center (ACC) - Duplicate the NCC functions and provides system redundancy. The location of ACC is chosen based on preliminary seismic survey.
District Control Centers (DCC) and Regional Control Centers (RCC)

- Alarm activation of a single siren from the siren cabinet via authorized access.

- Monitoring and control of sirens on the territory of the control center.

- Control of selected groups of sirens according to the disaster’s scale and the territory affected.

- Possibility for voice live messages.
Using TETRA communication in the siren warning system
Early warning and announcement of the population in the Zone of Preventive Protection Measures of NPP “Kozloduy”:

• Project for modernization and integration of the National system for early warning and announcement and the systems for warning and announcement of NPP “Kozloduy” within the zone as well as building unified radio communication system for rescue activities in order to improve the interaction between NPP “Kozloduy”, Nuclear Regulatory Agency, Bulgarian Energy Holding, Ministry of Interior, Ministry of Economy, Ministry of Health;

• The project provides the possibility for announcement of the population in the ZPPM via electronic sirens which can be activated from: RCC NPP “Kozloduy”, RCC Vratsa, NCC, ACC and locally from each siren;
Early warning and announcement of population in the Zone for Preventive and Protection Measures:
Planned announcements via the systems for early warning and announcement

The system for early warning and announcement of the population:

• the first working day of April;
• July 2nd;
• the first working day of October;

The system for early warning and announcement of the executive authorities and the components of URS:

• twice a year according to government decree No. 48 from 1 March 2012;
• twice a year for acquiring the announcement order according to an External emergency plan of NPP “Kozloduy”
Summary:

• The national system for early warning and announcement is realized with the latest technologies in IT sector and is produced by a leading company;

• NPP “Kozloduy” is the first project in Europe realized with TETRA communication and transmitting voice in real time;

• Implementing the National system for early warning and announcement, MoI fulfills its obligations according to the Bulgarian Law and the country covers the requirements of 18 European documents concerning such systems;

• Republic of Bulgaria have implemented a modern national system which fulfills its obligations towards the citizens in terms of providing an opportunity for warning and giving instructions in the first minutes of an occurred disaster.
**Perspectives for development:**

- Based on the experience from the NPP “Kozloduy” project, Communications and Information Systems Directorate will continue to upgrade the national system for early warning and announcement together with the radio communication system TETRA standard for co-ordination and interaction of the reaction forces;

- Building the NSEWA for the whole territory of the country is set in the national program “Bulgaria 2020” aiming national and European financing;

- MoI participates in different OP and financial instruments in order to provide resources for upgrading the system;

- Designed projects: Concept for development of communication and information systems in MoI for the period 2014-2020 and Strategy for reducing the risk of disasters, which shall define the directions for development in the period 2014-2020.
THANK YOU FOR THE ATTENTION!