

## Sound Practice No.2

### SIRE

#### Integrated System for Disaster Management and Emergency

<http://www.sire.gov.co>



**SIRE** is an information system composed of several elements: Equipment (hardware), Programs (software) and essentially Information (data). It is a resource that FONDO DE PREVENCIÓN Y ATENCIÓN DE EMERGENCIAS (FOPAE) serving the citizenship of Bogotá. SIRE was designed and developed altogether with INGEOMINAS from October of 1998 to November of the 2000.

SIRE's intention is to contribute to the mission and goals of DPAE, facilitating access to risk management information and emergency attention. The information is presented in several digital formats such as maps, text, images, tables, videos, etc. The entrance of the information does not require special program or hardware at the end user.

- The objectives of SIRE are summarized as follow:
- Store, integrate and maintain adequately the information related to DRM
- Facilitate the access or the query of existing information in the quickest

- way;
- Help the promotion of a disaster prevention culture; and
  - To assure the security, integrity, recuperation and privacy of information for all The Information System (IS) working in two environments: Public environment in Internet ([www.sire.gov.co](http://www.sire.gov.co)) and a restricted environment (User and Password) in Intranet/Internet.

On the public environment, under Internet, it is possible to get access to the Information Product using the Data Warehouse (Library) or the maps using a Geographical Information System for Internet (GIS-WEB). Similarly, could get access to electronic documentation in digital format. At the restricted environment, it counts on several modules for consultation, which can be accessed if the user profile is allowed.

The main modules (components) of the system are: Administration, Security, Metadata Entry, Data Warehouse, Requests, Reports, Projects, Hole Survey, Directories, Inventories, Events and Monitoring, Emergencies and a Geographic Information System module.

The design and implementation of this system responds to an initiative of the scientific sector and the interest and decision of FOPAE who provides the necessary funding to keep the system updated. It is a practice that can be replicated attending to specific local needs, nevertheless, the own dynamics of rapid IT advances and limited resources can generate obsolescence in the short run. Lack of a robust and redundant system of Internet connection that guarantees the service in extreme conditions is a problem that needs to be solved.

SIRE requires permanent attention to handle large databases, with thematic and heterogeneous diversity in presentation, diverse sources and target groups, different updating periods and different scales.

Availability of information and data collection is difficult due to different institutional policies or because part of the information is found in analogous formats requiring additional conversion processes.

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**Knowledge Base Coding Reference:**

Name of the Practice: Integrated System for Disaster Management and Emergency  
SIRE

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information available at SIRE web page