MINISTRY OF EMERGENCY SITUATIONS OF THE KYRGYZ REPUBLIC

NEW INFORMATION TECHNOLOGIES IN EMERGENCY MANAGEMENT, THE STATE AND PROSPECTS OF DEVELOPMENT
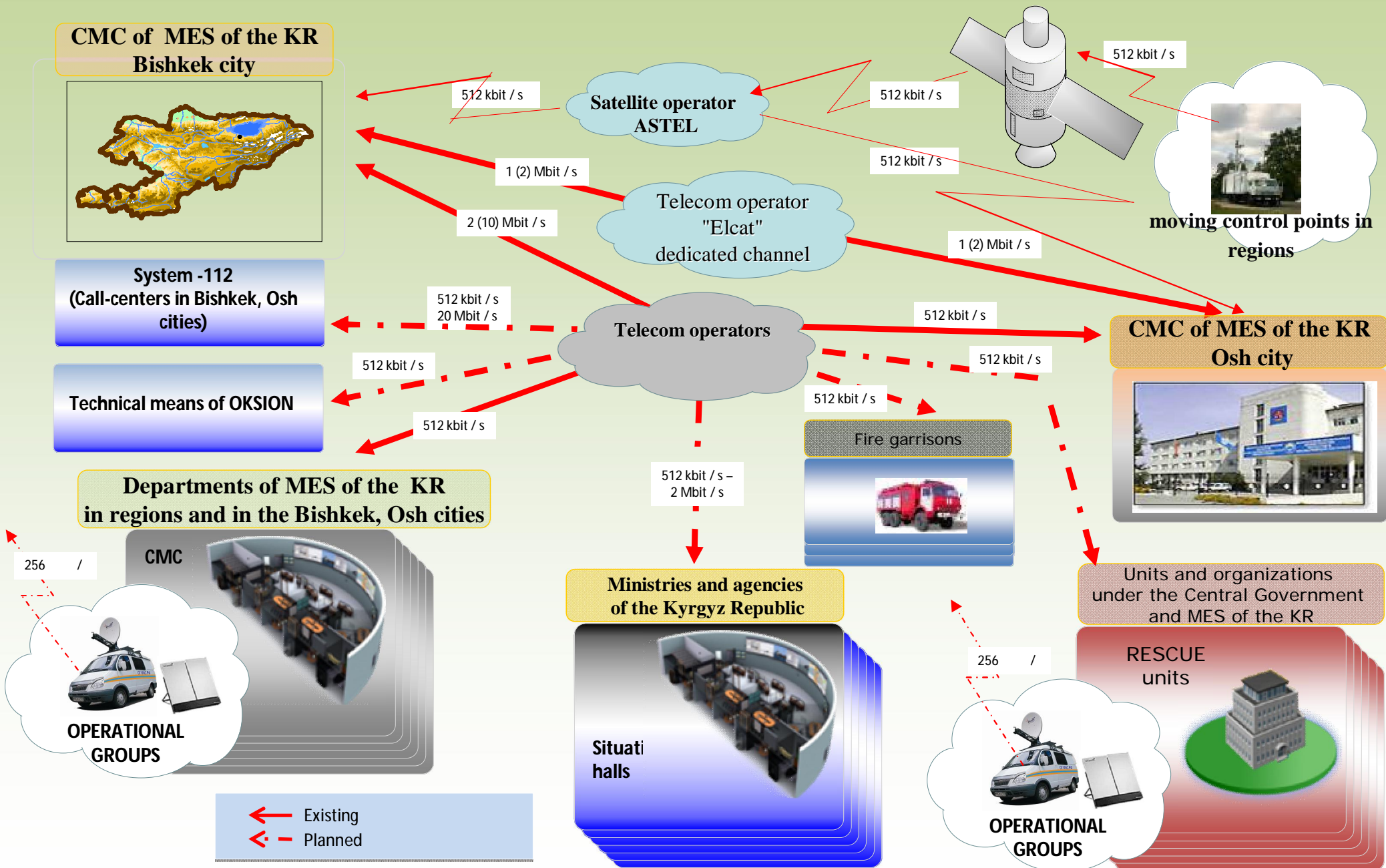
Thailand, Bangkok
2014y.

INFORMATION TECHNOLOGIES USED IN MES OF THE KR:

Ø **Telecommunication technologies;**

Ø **Information Technology on the basis of modern database management systems;**

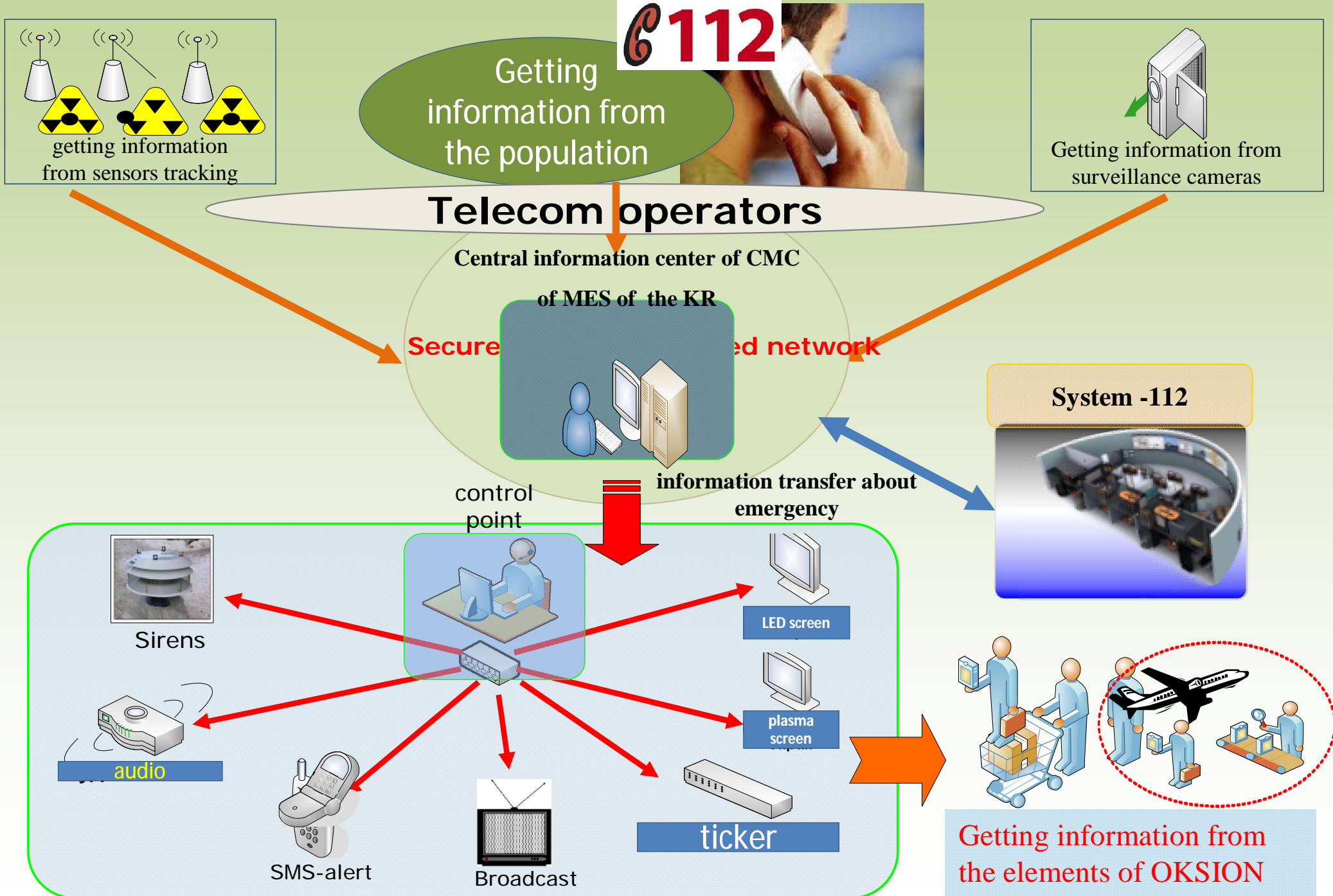Ø **Geoinformation technologies;**

Ø **Internet technologies.**

Development and creation of a joint information management system for forecasting, early warning, prevention and mitigation of emergency and crisis situations in the Kyrgyz Republic

Development of CMC 1st COMPONENT

CMC of MES of the KR Bishkek city

Satellite operator ASTEL

512 kbit / s

512 kbit / s

512 kbit / s

512 kbit / s

512 kbit / s

moving control points in regions

1 (2) Mbit / s

2 (10) Mbit / s

Telecom operator "Elcat" dedicated channel

1 (2) Mbit / s

System -112 (Call-centers in Bishkek, Osh cities)

512 kbit / s
20 Mbit / s

Telecom operators

512 kbit / s

CMC of MES of the KR Osh city

512 kbit / s

512 kbit / s

512 kbit / s

Technical means of OKSION

512 kbit / s

Fire garrisons

Departments of MES of the KR in regions and in the Bishkek, Osh cities

256 /

CMC

512 kbit / s – 2 Mbit / s

Ministries and agencies of the Kyrgyz Republic

Units and organizations under the Central Government and MES of the KR

OPERATIONAL GROUPS

256 /

RESCUE units

Situati halls

OPERATIONAL GROUPS

Existing
Planned

Creation and development of the national integrated system of informing and alerting the population (OKSION)2nd COMPONENT

112

getting information from sensors tracking

Getting information from the population

Getting information from surveillance cameras

Telecom operators

Central information center of CMC
of MES of the KR

Secure network

System -112

control point

information transfer about emergency

Sirens

audio

SMS-alert

Broadcast

LED screen

plasma screen

ticker

Getting information from the elements of OKSION

Creation and development of the Unified State duty- dispatching service EGDDS-112 (system-112)
3rd COMPONENT

Diagram of the system-112

CMC of MES of the KR Bishkek city

Call Centers of ministries and agencies of the Kyrgyz Republic

C 112

Getting information from the population

contact

Telecom operator KyrgyzTeleCom

Secure Internet IP-based network

Call center in the northern region in Bishkek city

Call center for the southern region in Osh city

dispatching services of cities (districts)

101
102
103
Managers
at city halls
(Regional State Administrations)

Mutual redundancy (interchangeable)

dispatching services of cities (districts)

101
102
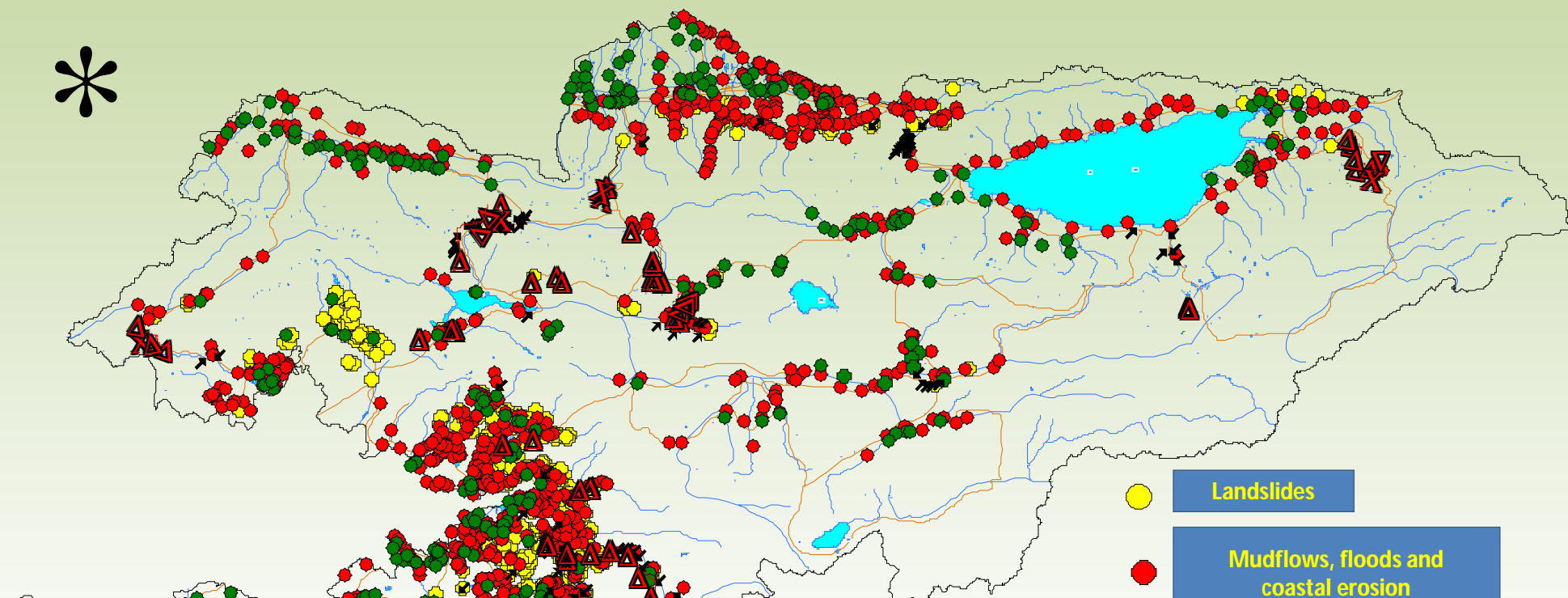103
Managers
at city halls
(Regional State Administrations)

Technologies of Geoinformation Systems in the management of emergency

Schematic map of the spread of dangerous natural phenomena and processes in the territory of the Kyrgyz Republic

Landslides

Mudflows, floods and coastal erosion