



3. IDENTIFICATION OF CRITICAL INFRASTRUCTURE OBJECTS

3.1 PROJECT STRUCTURE FOR INTERACTIVE RISK ASSESSMENT

Authors:
dr. Iztok PREZELJ
Igor LOGAR



- **CONTENT**
- **Process of identification and protection of CI**
- **Model of integrated computer architecture of the project**
- **Model of risk assessment of CI**
- **Basic features of computer software solutions**



● **PROCESS OF IDENTIFICATION AND PROTECTION OF CI**

1. IDENTIFICATION OF CI

- **Criticality assessment**

expected negative impact due to particular threat or disturbance(number of victims, economic damage, affected environment...) that includes identification of interdependencies – level of integration and interactive complexity of CI

- **Vulnerability assessment**

identification of weakness points

- **Risk assessment**

overall rating of previous phases – identification of factors and causes can have adverse consequences with a purpose to prevent and eliminate risk

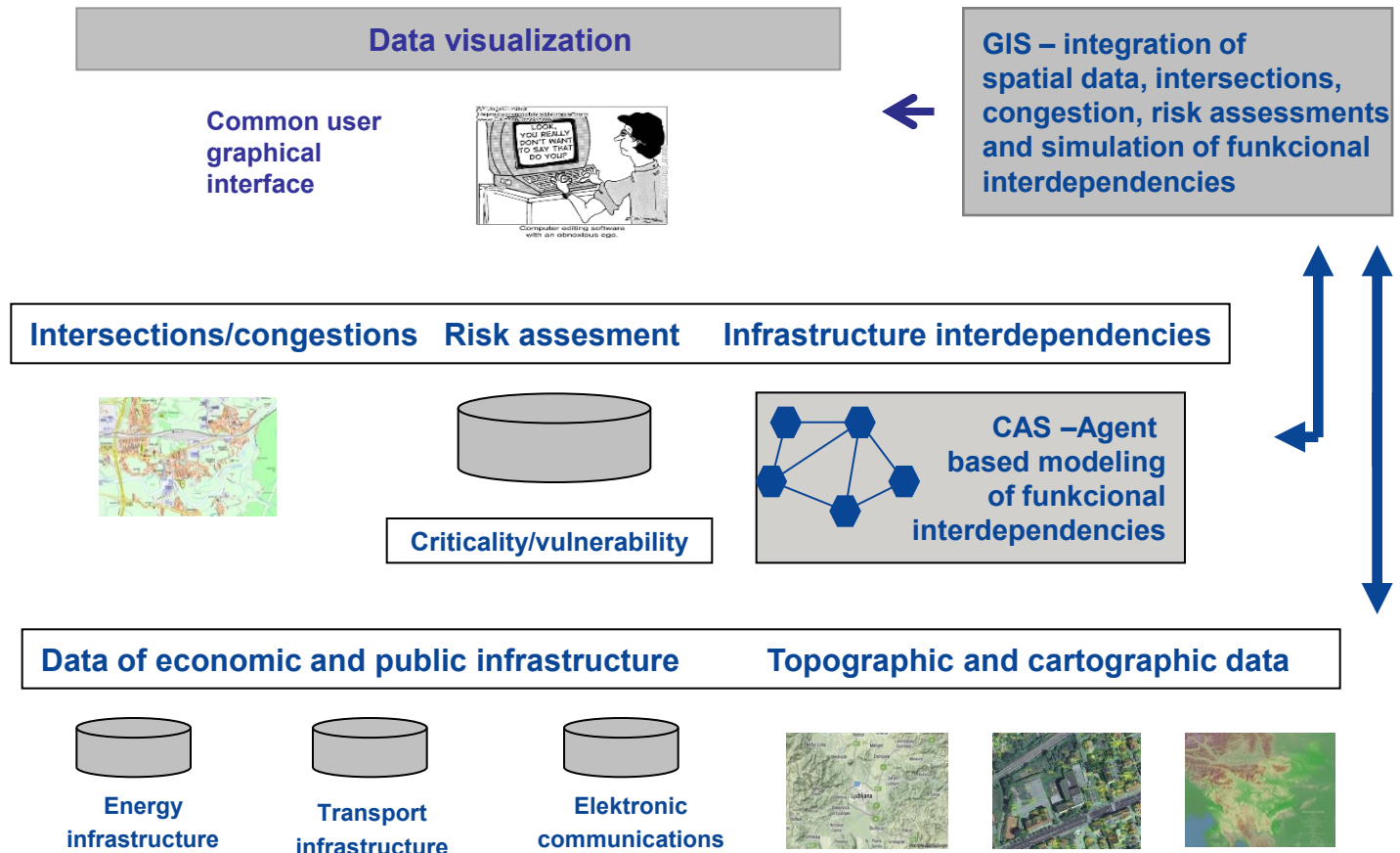
2. PROTECTION OF CI

- **Development of strategies for risk management**

- **Planning measures and capabilities for protection of CI**



INTEGRATED COMPUTER ARCHITECTURE FOR INTERACTIVE RISK ASSESSMENT AND MODELING INTERDEPENDENCIES OF CRITICAL INFRASTRUCTURE





- **RISK ASSESSMENT CI - BASIS**
- **Legislation of EU and RS** – Council Directive on the identification and designation of European critical infrastructures and the assessment of the need to improve their protection, Regulation of European CI in Republic of Slovenia, Basic and sectoral criteria criticality of CI in Republic of Slovenia
- **General theoretical and methodological recommendations** – It doesn't exist common and standardized methods but different approaches and methods are being used
- **Research and development projects** – Definition and protection of CI in RS, Safety of road infrastructure: most important objects on the Slovenian road network
- **Used methods and techniques** – Method to identify key targets – developed in US army, widely used since 2001 on civil area (crisis management, economy), some approaches in EU and widely



STRUCTURE AND PROCESS OF RISK ASSESSMENT AND MODELING INTERDEPENDENCIES OF CRITICAL INFRASTRUCTURE

