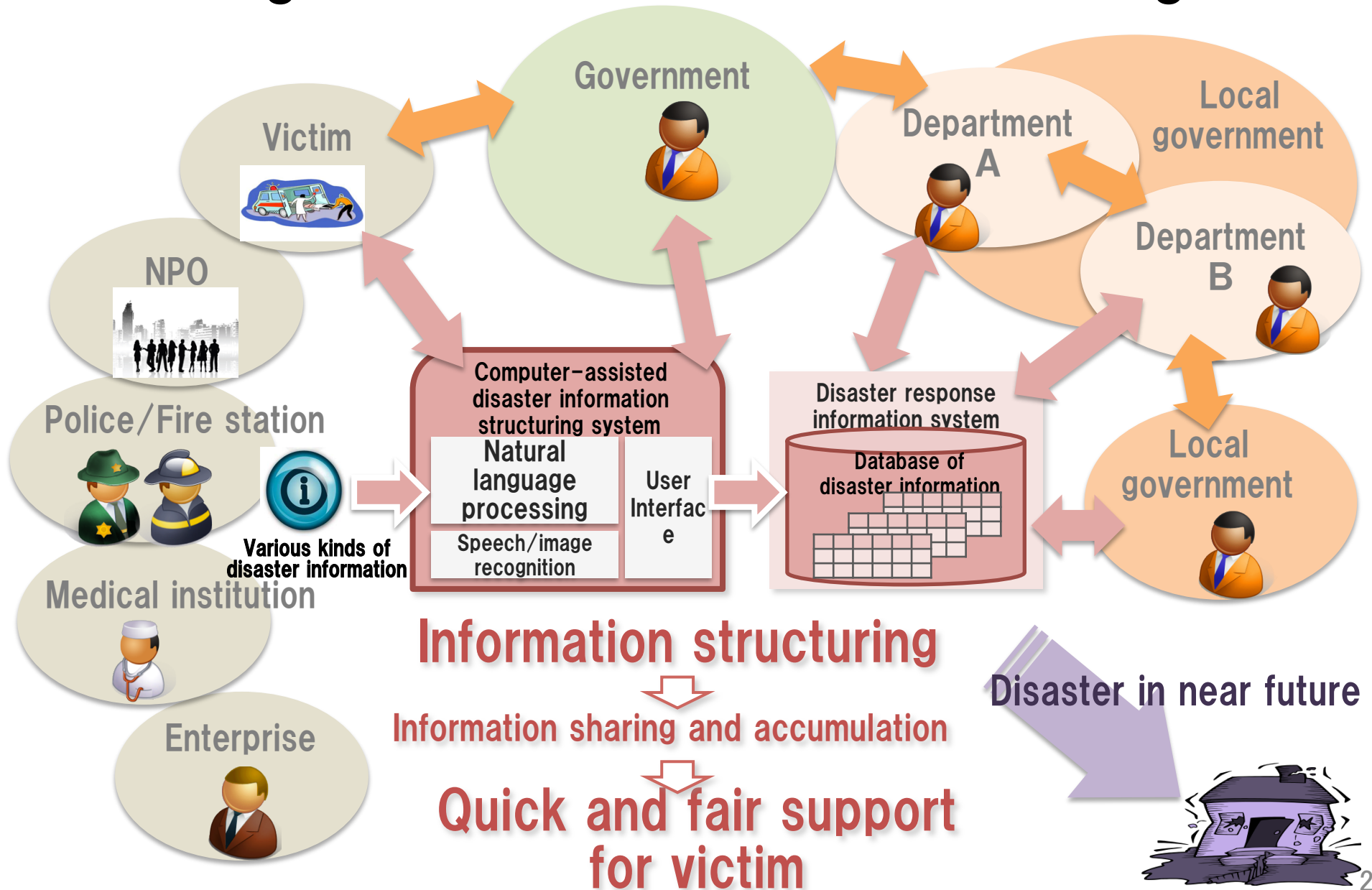# Outline

A current problem with disaster-information gathering and sharing, especially in the case of the Great East Japan Earthquake, is that it is highly inefficient. In preparation for the predicted Tokyo Metropolitan earthquake and Tokai, Tonankai, and Nankai earthquakes, the development and integration of supportive information systems for disaster response and recovery is extremely vital. Therefore, this projects aims to utilize both natural language processing and speech recognition technologies in order to semi-automatically assist with the construction of various kinds of disaster and response information. This solves the bottleneck for inputting disaster information into the database and enables the quick and accurate recognition of a current disaster. A database of this information can also serve as fundamental data for learning lessons in the future.

Linking the disaster-management community together with information sharing

Government

Victim

NPO

Police/Fire station

Medical institution

Enterprise

Various kinds of disaster information

Computer-assisted disaster information structuring system

Natural language processing

User Interface

Speech/image recognition

Disaster response information system

Database of disaster information

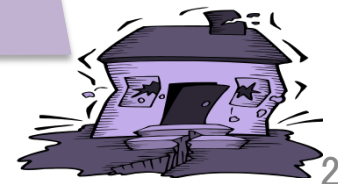Department A

Local government

Department B

Local government

Information structuring

Information sharing and accumulation

Quick and fair support for victim

Disaster in near future

2

Interdisciplinary and industry–academia–government collaboration

NPO・Citizen

Local government in Tohoku area

Disaster Science

Information Science

Natural language processing

Disaster response
Hazard prediction

System Engineering

Social implementation

Tohoku University

Kyoto University

NTT Labs.

Management of system utilization

Structuring of information

Design of schema

Various kinds of disaster information

Computer–assisted disaster information structuring system

Natural language processing

User Interface

Speech/image recognition

Disaster response information system

Database of disaster information