**Slide 8 Disaster response:**

IoRT has been widely used in many fields and the machine learning concept is undoubtedly one of the key links. Disaster response is a good example.

A lot of major disasters happen on Earth every year. When a calamity of this magnitude happens, the time is very precious. The most urgent task to achieve is to save as many people as possible in the shortest time. Robots can offer a lot of help after they have received a deep learning training. The scheme of this process is represented as the picture in the slide. the first step is to use mobile robots to collect data from the local environment. A remote network elaborates these data to build an AI model which is evaluated by the internal system. The model is also distributed from the cloud to the local workstation for further performance testing. After it has reached a certain level of reliability, the model is ultimately deployed into the robots.

The robots can now help during this type of scenarios and this will lead to an increasing of the overall success rate of the operations and of the survival rate of the victims.

**Slide 9 Precision Agriculture:**

Another example is precision agriculture. The goals of this application is to develop appropriate agricultural plan during climate changes and hazard situations. The sketch of the IoRT system is presented in the slide. First of all, the mobile robots in the environment collect data using on-board sensors which contain information about temperature, humidity, pressure and light measurement. The server can retrieve these data from the mobile robots using cellular communication or Wi-Fi so that it can process them. After that, the data will be deployed to web applications and the user is able to visualize them through a web interface.

This will help the development of proper agricultural plan saving time and resources as well as an increasing of the productivity. However, further work are focusing on the subsequent application of the processed data. For example, the users could assign additional instructions to the mobile robots through web applications after the data acquired have been collected and analyzed so that they can perform these extra operations helping to deliver the final output of the system, which in this case is the harvest.