

Realtime GIS, Realtime Surveying

Prof. Dr. Chalermchon Satirapod

Department of Survey Engineering

Faculty of Engineering

Chulalongkorn University, THAILAND

Contents

- 1. Introduction
- 2. Multiple Terminals Interconnection
- 3. Realtime Data Surveying APP

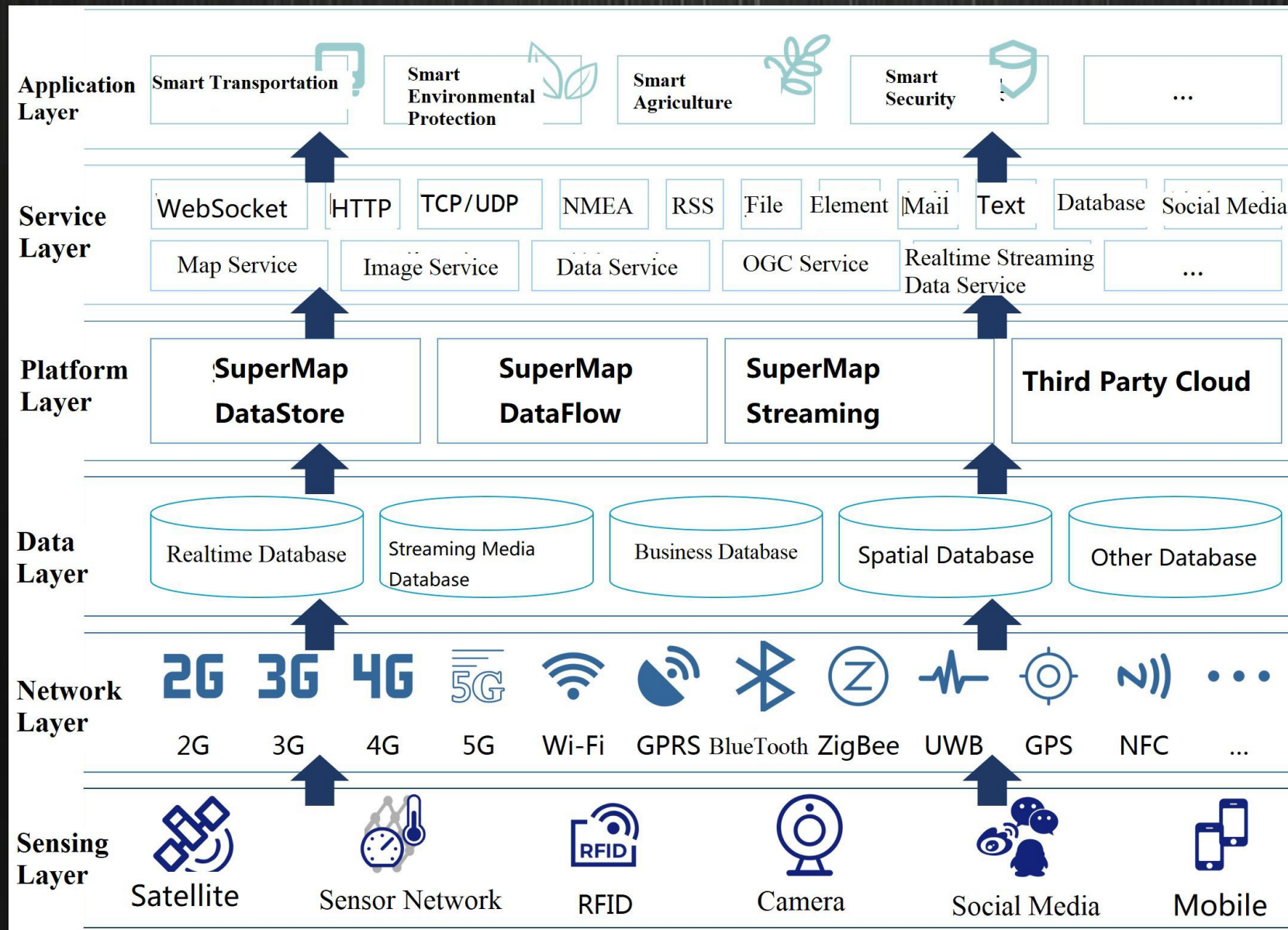
Introduction

About myself and my department

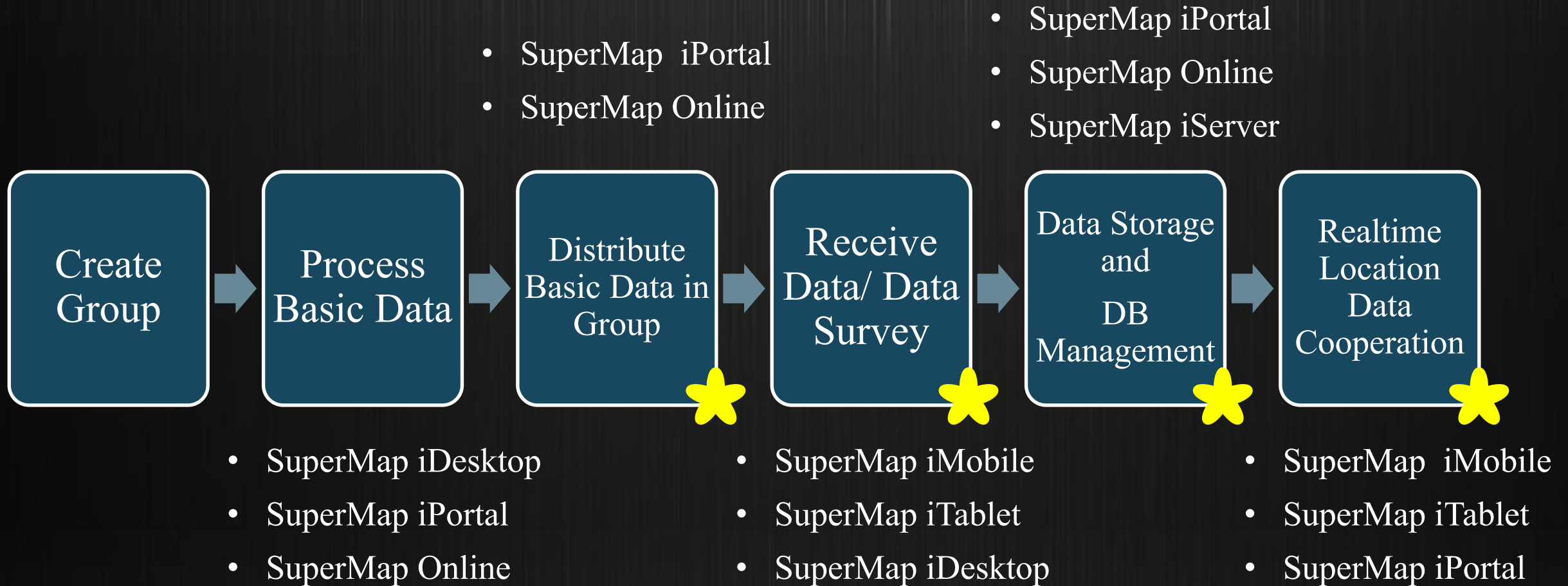
- Professor and Head of Survey Engineering Department, Chulalongkorn University, THAILAND
- The department is the only one in Thailand issuing Bachelor, Master and Ph.D. degrees in surveying.
- Specialize in Surveying, Mapping and GNSS Surveying
- Our department has a MOU with SuperMap and use the product for teaching and researching.

Multiple Terminals Interconnection

Structure of Multiple Terminals Realtime Interconnection

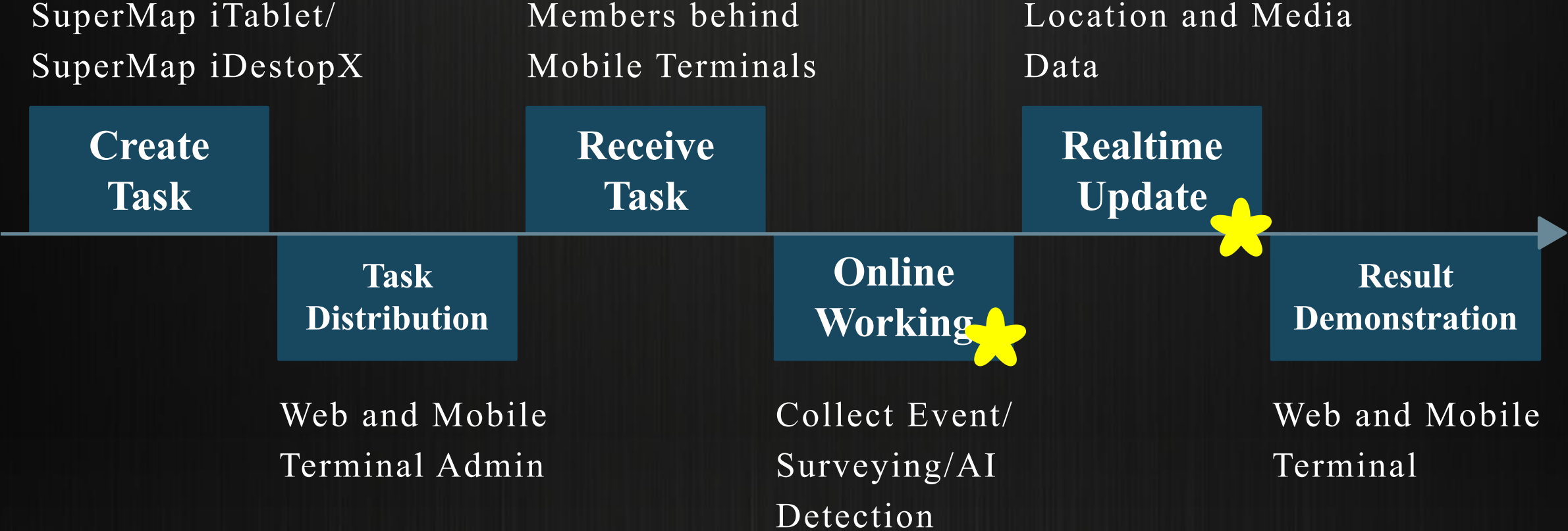


Multiple Terminals Interconnection Core Flow



★ Requires user to build up server in order to proactive receive message

Online Work Flow



Offline Work Flow

SuperMap iTablet/
SuperMap iDestopX

Members behind
Mobile Terminals

Vector, Form, Media,
etc.

**Create
Task**

**Receive
Task**

**Update in
Batch**

**Task
Distribution**

**Offline
Working**

**Result
Demonstration**

Web and Mobile
Terminal Admin

Collect Event/
Surveying/AI
Detection

Web and Mobile
Terminal

Capabilities of Multiple Terminals Interconnection



Terminal- Terminal Cooperation

- ◆ Multiple Users Terminal to Terminal Collection
- ◆ Multiple Users and Terminals Data Interconnection
- ◆ Mission Realtime Uploading and Querying
- ◆ Appointed User/ Group Cooperation Under Mission

Capabilities of Multiple Terminals Interconnection



Terminal- Cloud Cooperation

- ◆ iPortal Group Connecting with iPortal in Realtime
- ◆ Realtime Data Storage Connecting with iPortal
- ◆ Realtime Flow Data Connecting with iPortal
- ◆ Batch Mission Distribution Connecting with iPortal
- ◆ Cooperation with Third Party Cloud

Realtime Multiple Terminals Interconnection Functions

Group Management

- Create Group
- Join Group
- Invite Members
- Delete Group
- Quit Group

Task Management

- Upload Task
- Distribute Task
- Data Making
- Data Processing

Message Management

- Confirm Message
- Distribute Message
- Accept Message
- Message Alert

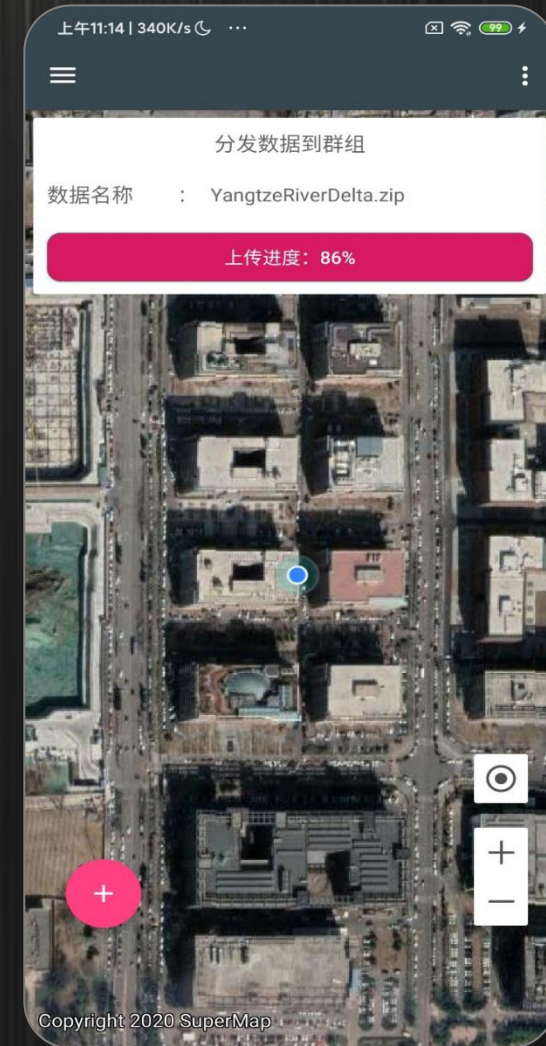
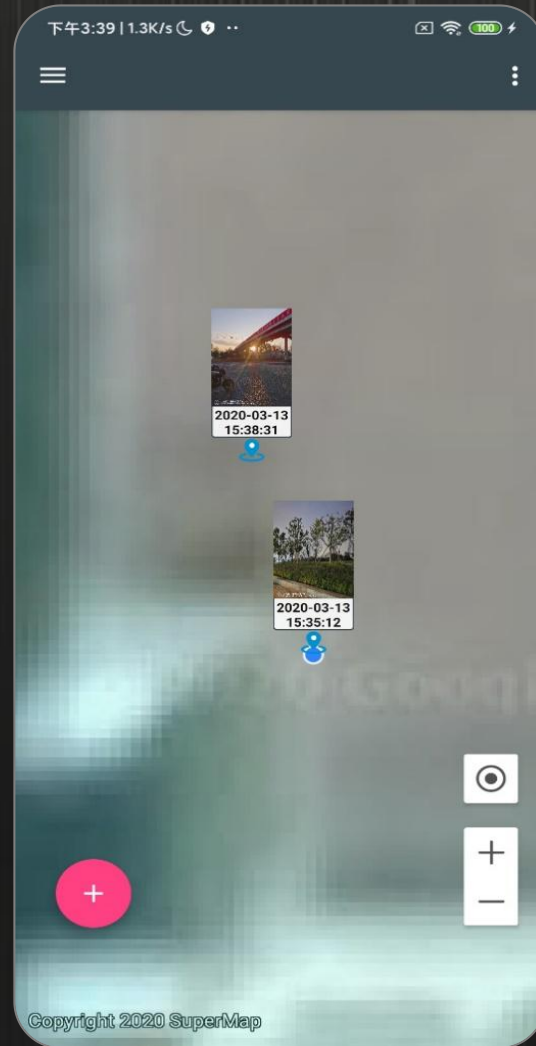
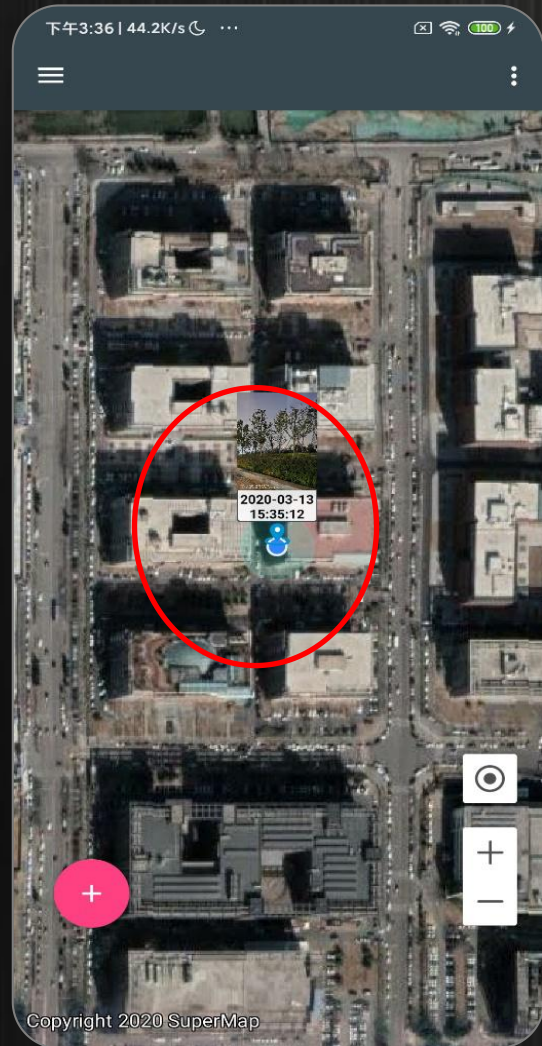
Update and Demonstration

- Offline Update
- Realtime Update
- Web Demonstration
- Mobile Demonstration

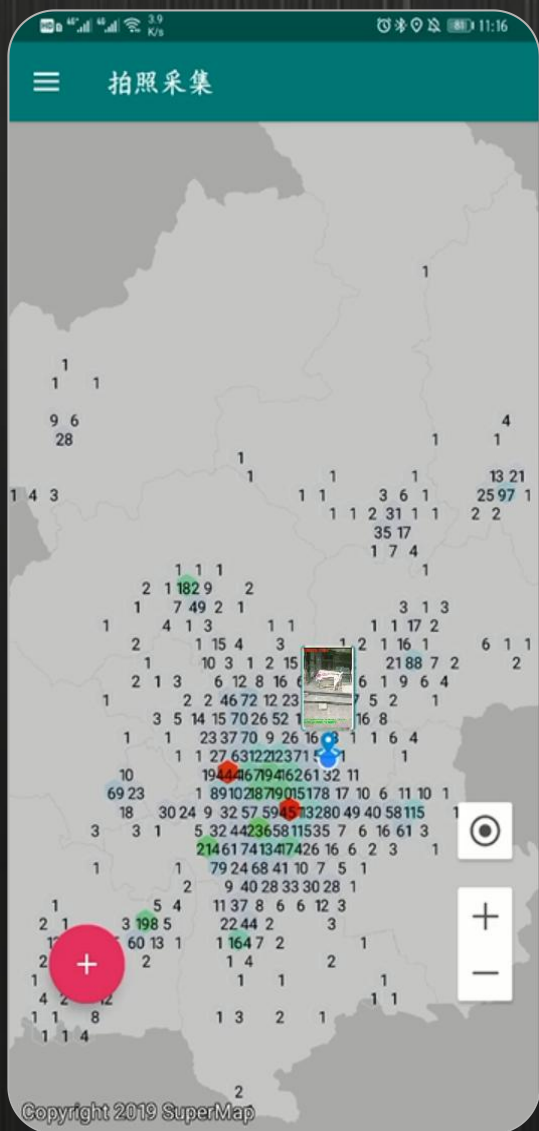
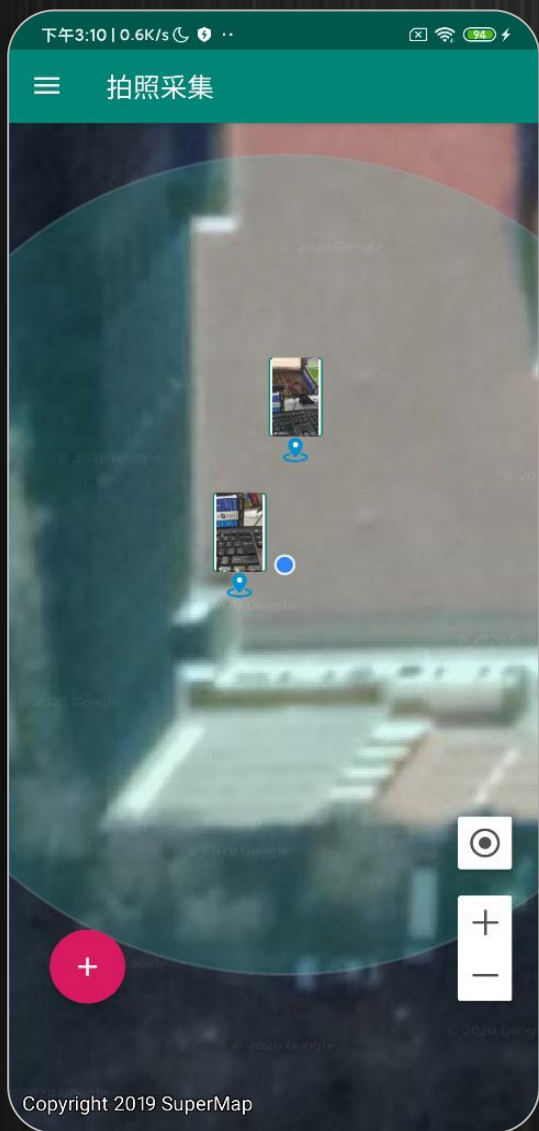


Realtime Data Surveying APP

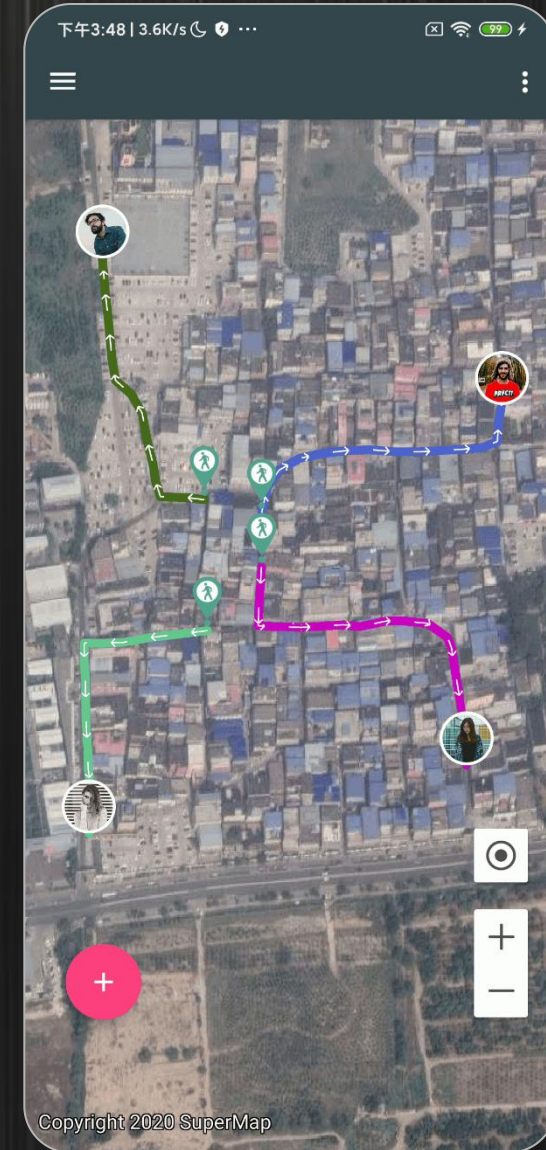
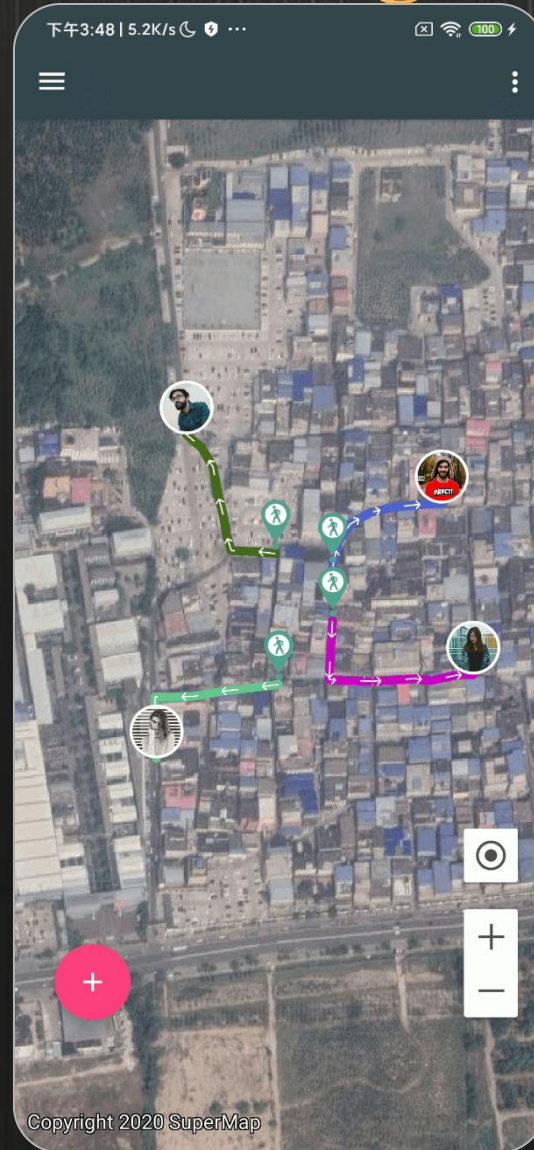
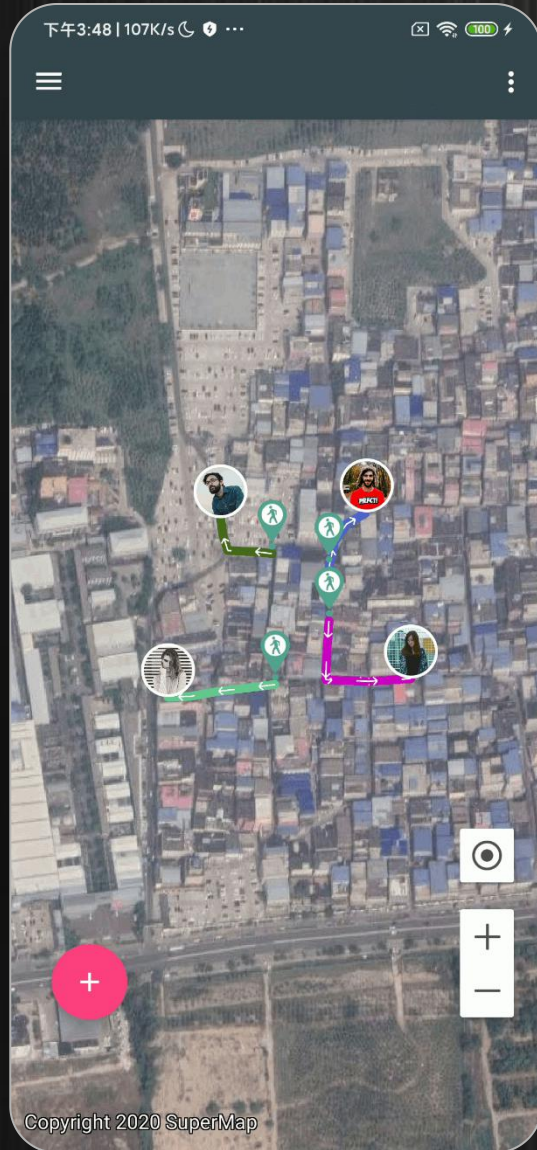
Multiple Terminals Interconnection Surveying APP



Facilities Inception and Report APP



Multiple Users Realtime Location Surveying and Monitoring APP





Thank You!