

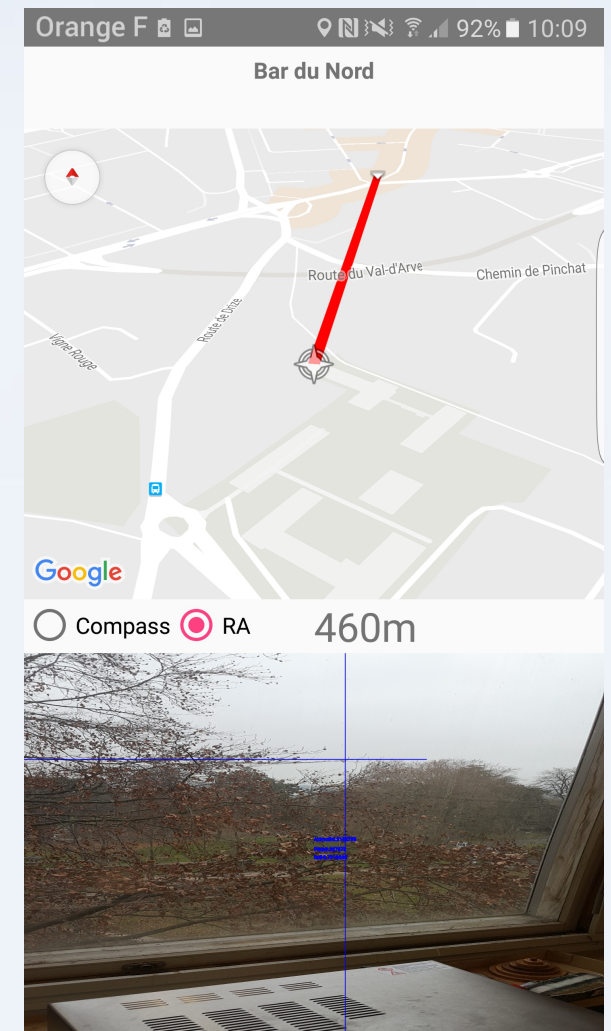
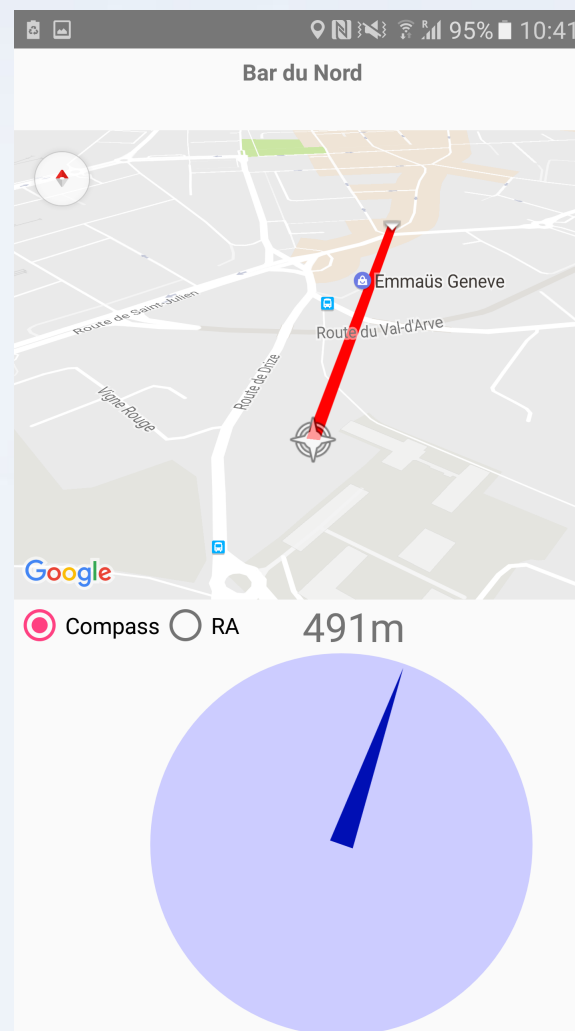
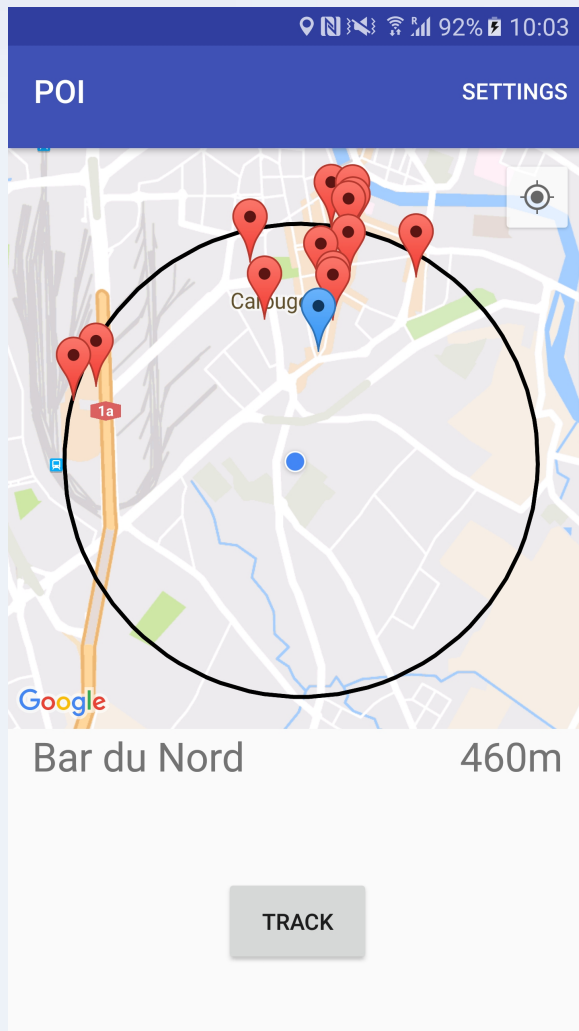
# **Project : Mobile Systems and Services**

POI (Points of Interest)

# Introduction

- What's POI ?
- What did we use ?
  - API (google maps, google places...)
  - Sensors (Accelerometer, Magnetic Field...)

# Example



# General problems ?

- Overwhelming at first :
  - Execution control flow
  - Project structure
  - Management of API and Sensors

# Geographic Data

- Google Maps Android API
  - Tiles for the map
  - Camera management
- Google Places web services
  - Informations about POI
  - Location of POI
- Google Geolocalisation Android API
  - Location of the device
  - Updates

# Sensors and Camera

- Rotation Sensor
- Camera + Overlay  
= Compass + Augmented Reality



# **Specific problems**

## **How did we solve them ?**

- Camera Resource Management
- Animation thread control
  - Make it smooth
  - Coherent control flow
- Map management
  - Camera movements
  - Markers update

# How can we improve POI ?

- More informations about POI
  - Price
  - Rating
- Customization
  - More preferences
  - Interactions with user
- Provide itinérance
  - Define routes
  - Different transports



# How can we improve POI ?

- Interaction with other apps
  - Visit a web page
  - Call a restaurant
  - Share with social networks
- Different devices
  - Tablet
  - Computer

**LIVE DEMO**