



EmerGent



Open Source Intelligence Dissemination Conference Roma, July 8th 2015



athena

EMPOWERING CITIZENS, PROTECTING COMMUNITIES

An introduction to ATHENA

Andrew Staniforth

8th July 2015



Project ATHENA
This project is co-funded by the European Union
Seventh Framework Programme SEC Call 1 - FP7-SEC-2012.6.1-30

www.projectathena.eu







Armed terrorist assault in Mumbai (2008)









Severe weather





Public violence & disorder





Public health crisis

Citizens are pre-first responders

ATHENA recognises that citizens are under-utilized crisis responders;

- they are often first on the scene;
- they vastly outnumber the emergency first responders;
- they are creative and resourceful
- they perform countless life-saving actions.



ATHENA (*Greek goddess - protector of the city and the citizen*), is exploring how the huge popularity of new communication media can be harnessed to provide efficient and effective communication and enhanced situational awareness during a crisis for citizens AND first responders.



Project ATHENA
This project is co-funded by the European Union
Seventh Framework Programme SEC Call 1 - FP7-SEC-2012.6.1-30

athena

Empowering citizens during crisis

ATHENA shall help citizens during a crisis by;

- i) **joining their conversations** with other crisis-engaged citizens to support each other;
- ii) **adding an enabling voice**, providing them with information they ask for in a way they can understand
- iii) **targeting their actions**, by directing them to places of safety and away from danger while identifying emergent behaviour that is beneficial to the provision of support through emergency multi-agency responses.



Project ATHENA
This project is co-funded by the European Union
Seventh Framework Programme SEC Call 1 - FP7-SEC-2012.6.1-30

athena

ATHENA major outputs

ATHENA shall deliver two major outputs;

- i) **A set of best practice guidelines for first responders and citizens for the use of new media communications and supporting tools and technologies in crisis situations.**
- ii) **A suite of prototype software tools (the ATHENA 'app') to enhance the ability of first responders and citizens in their use of new media in crisis situations.**



Project ATHENA
This project is co-funded by the European Union
Seventh Framework Programme SEC Call 1 - FP7-SEC-2012.6.1-30

athena

Beyond the current state of the art

ATHENA will move forward the state of the art in two areas;

- i) **Social Media and Crisis Management:** the use of social media during crisis settings by first responders and the public.
- ii) **Technologically exploiting social media in crisis management:** the searching, acquisition, aggregation, filtering and presentation of knowledge from social media to support crisis management using smart mobile devices.



athena

EMPOWERING CITIZENS, PROTECTING COMMUNITIES

T8.2 Prototype Testing Exercise Izmir, 28th July 2015

DS Tim Ingle
Alison Lyle



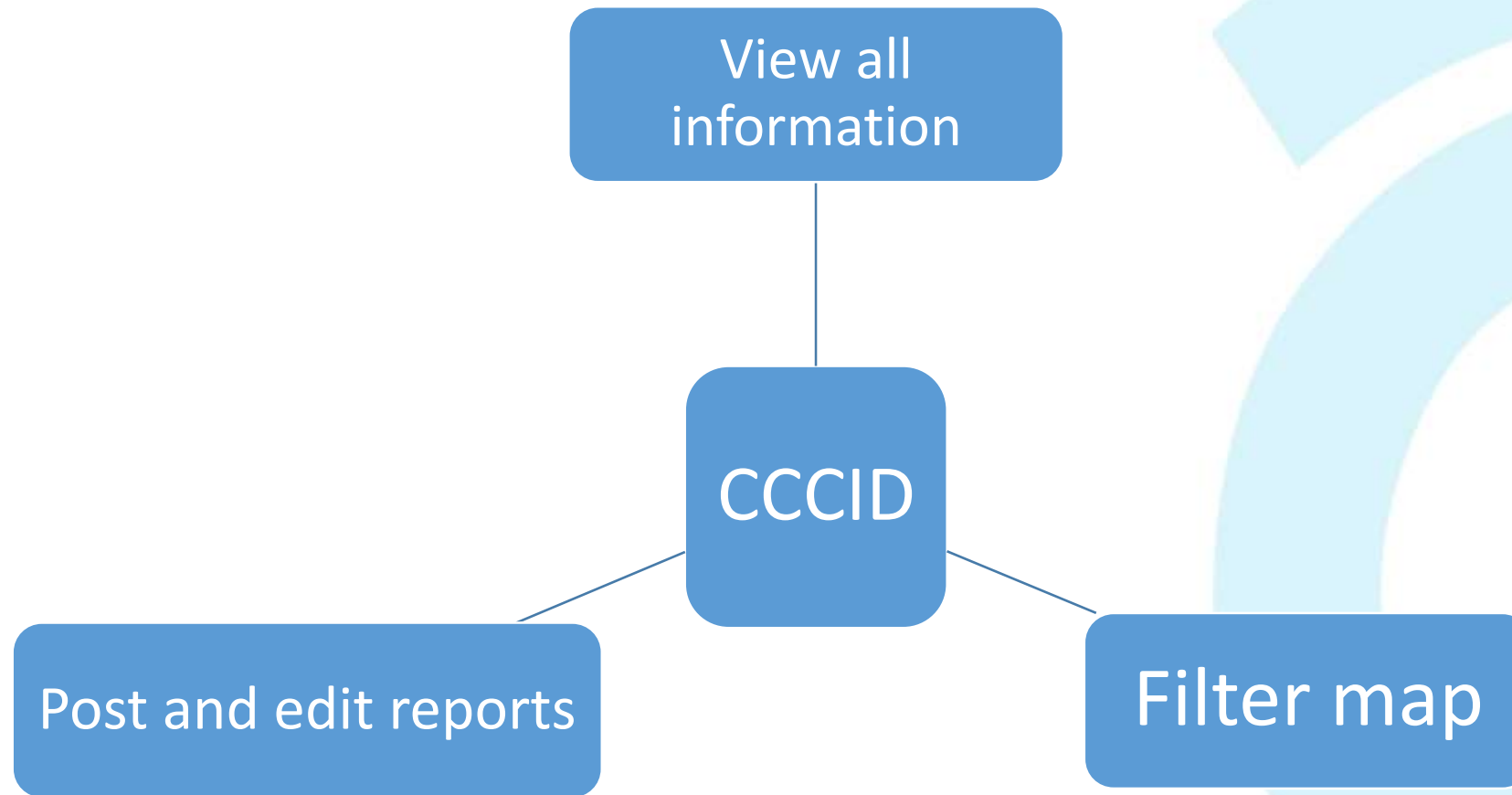
Project ATHENA
This project is co-funded by the European Union
Seventh Framework Programme SEC Call 1 - FP7-SEC-2012.6.1-30

Task 8.2

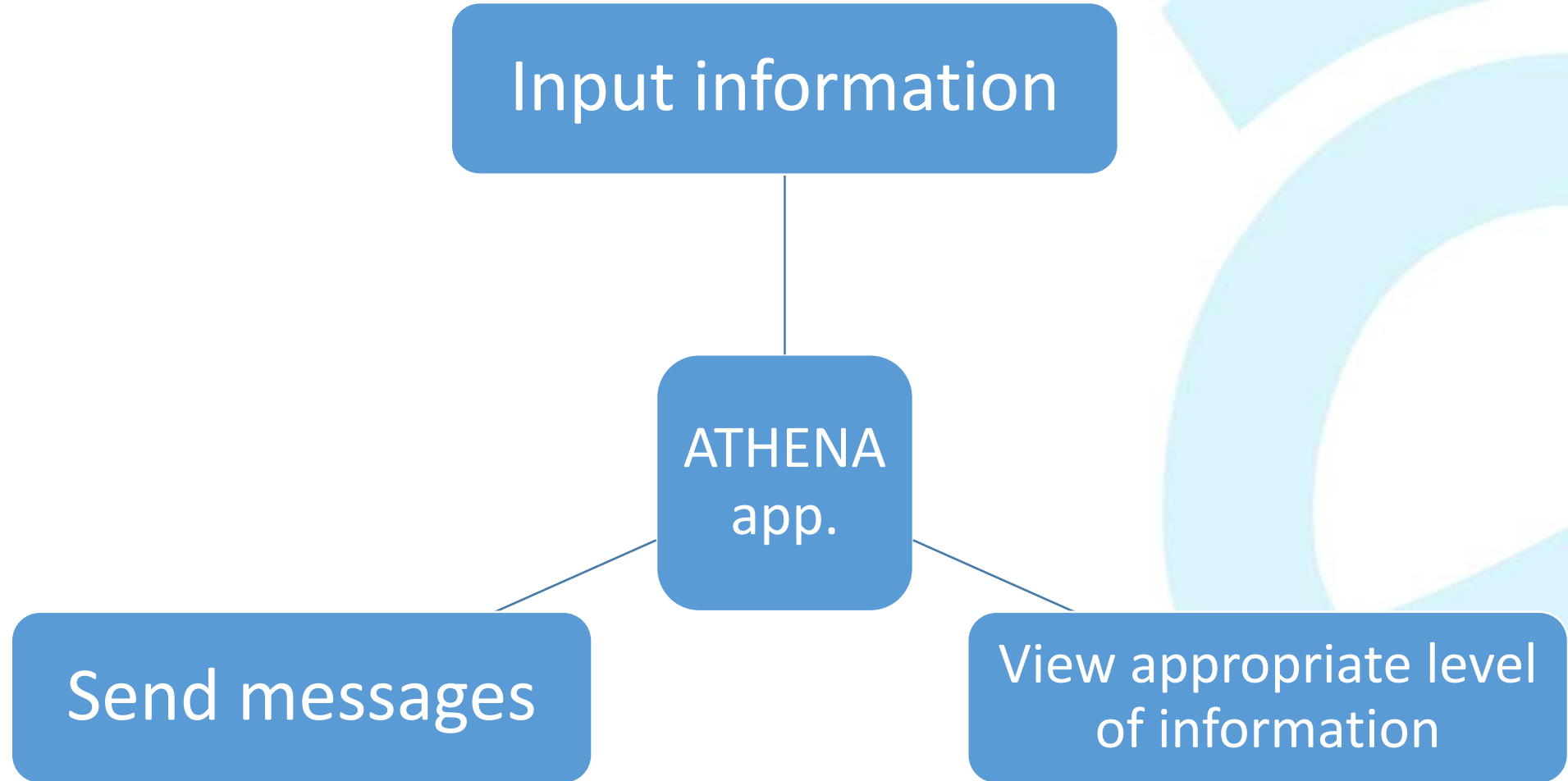
- ❖ Test effectiveness of the solution
- ❖ Provide feedback
- ❖ Validate work to date
- ❖ Further developments
- ❖ Ensure fitness for purpose

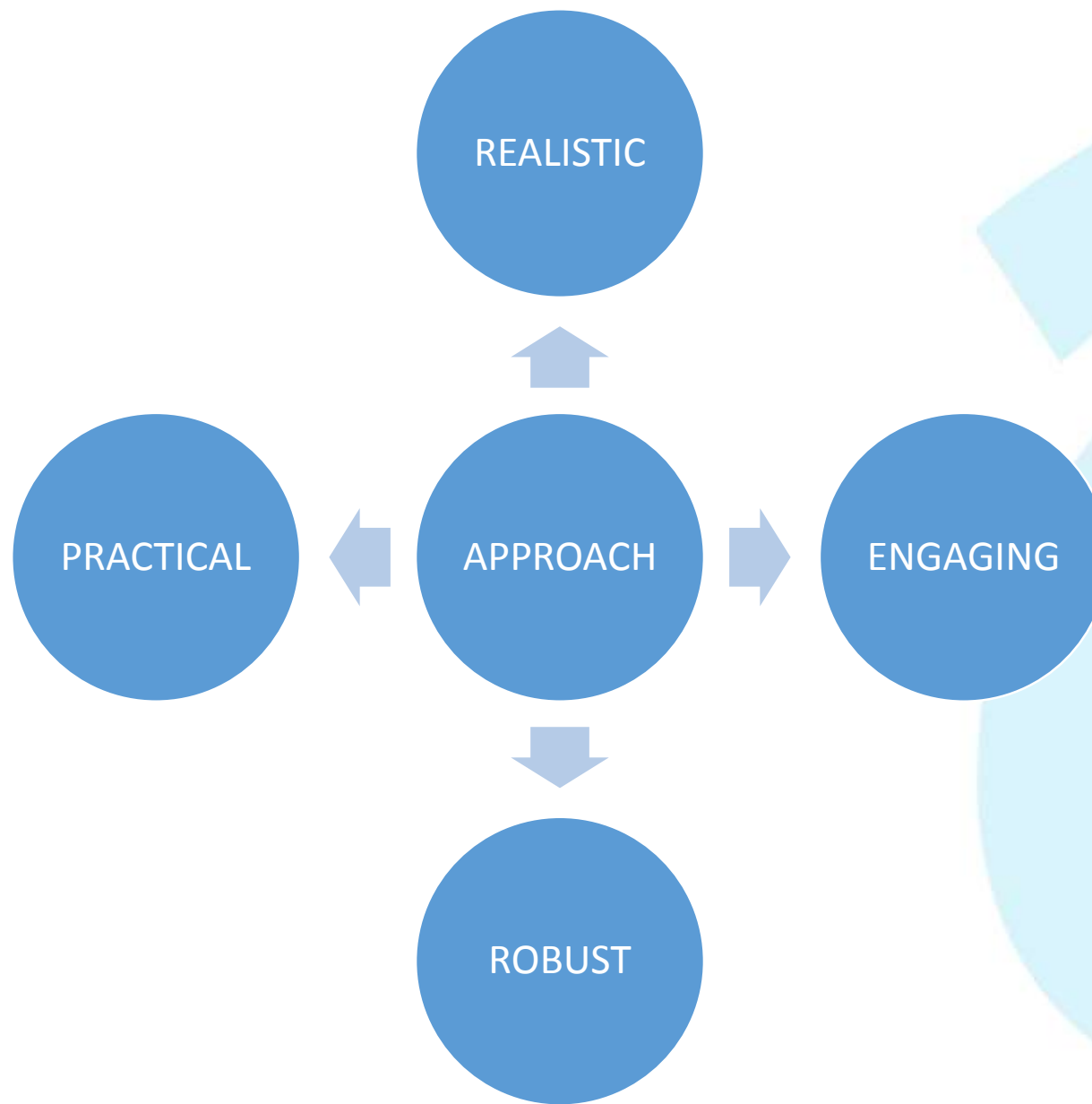


Elements to Test



Elements to Test





THE EXERCISE

- **NINE PARTICIPANTS**
Each had profile, 'story', tasks, messages
- **THREE LOCATIONS**
Bornova, Kulturpark, Kordon
- **CCCID OPERATOR**
- **OBSERVERS**

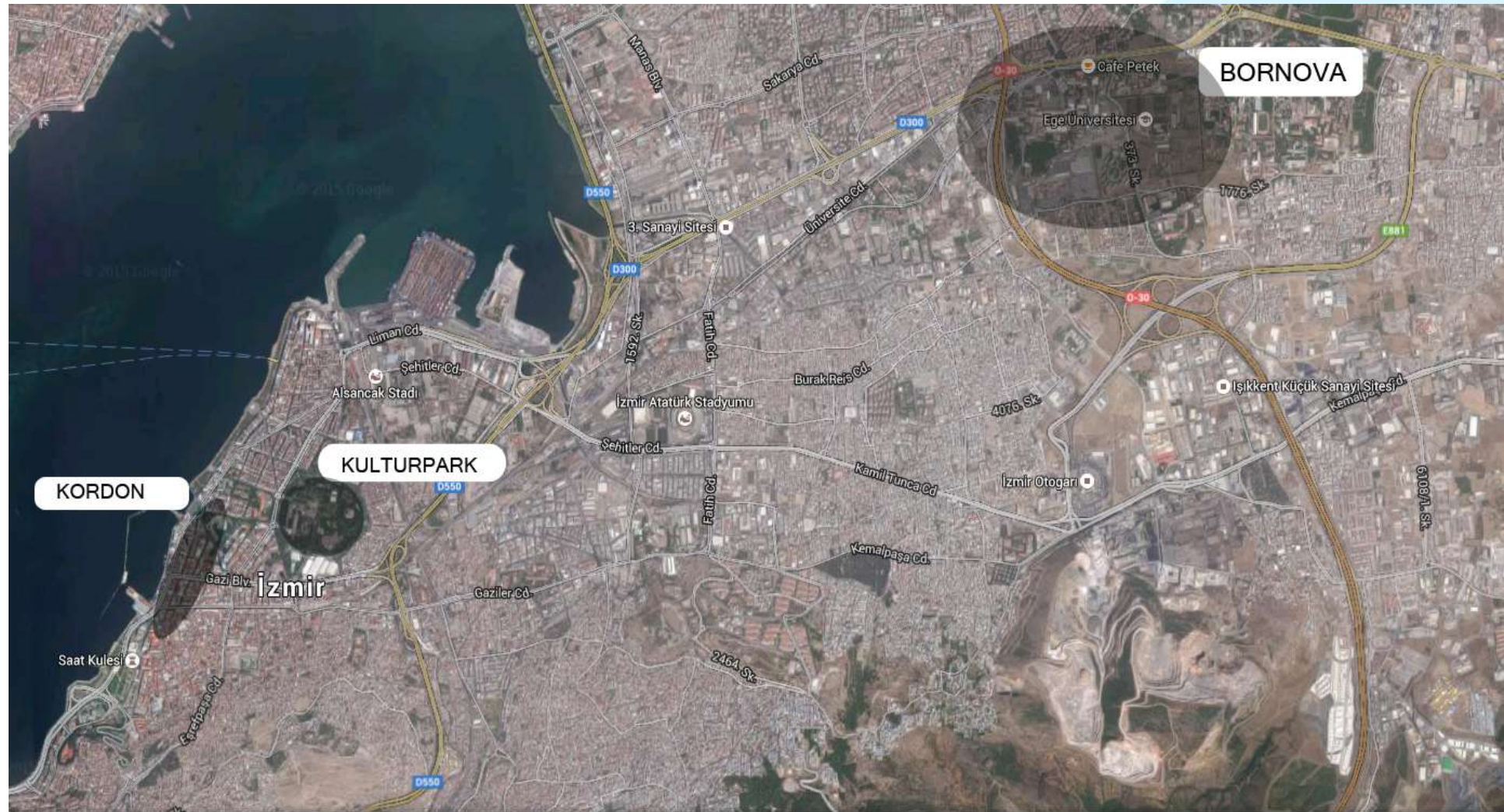


FOUR PHASES

- PHASE ONE
Familiarisation and Input of Information
- PHASE TWO
Deployment & Sending Messages
- PHASE THREE
Tasks & Messages
- PHASE FOUR
Return and Feedback




Deployment Locations



Project ATHENA
This project is co-funded by the European Union
Seventh Framework Programme SEC Call 1 - FP7-SEC-2012.6.1-30


athena

Video Messages

Person 6

VIDEO MESSAGE

MESSAGE NUMBER M 18V

RED PIN 

TIME TO SEND: **12:14**

LOCATION: **PIN C**

SUBJECT: **COLLAPSED BRIDGE**

CONTENT: Make a 10 second video recording of photograph **M18**, say the following words: ***"The bridge outside the Metro has collapsed, D30 and D550, several cars on fire, Many casualties"***

QUESTIONS

1) WAS THE MESSAGE SENT AT THE TIME SHOWN?


YES / NO

1a) IF NOT THE CORRECT TIME, WHAT TIME WAS IT SENT?

.....

2)

COMMENTS:

This project is co-funded by the European Union
Seventh Framework Programme SEC Call 1 - FP7-SEC-2012.6.1-30



Video Messages

M18



Project ATHENA
This project is co-funded by the European Union
Seventh Framework Programme SEC Call 1 - FP7-SEC-2012.6.1-30

athena

Participant 1 map

KULTURPARK

Participant 1

Message locations

- M43P
- M69T
- HOSPITAL
- OPEN SPACE
- M82A

PARTICIPANT 1



Project ATHENA
This project is co-funded by the European Union
Seventh Framework Programme SEC Call 1 - FP7-SEC-2012.6.1-30

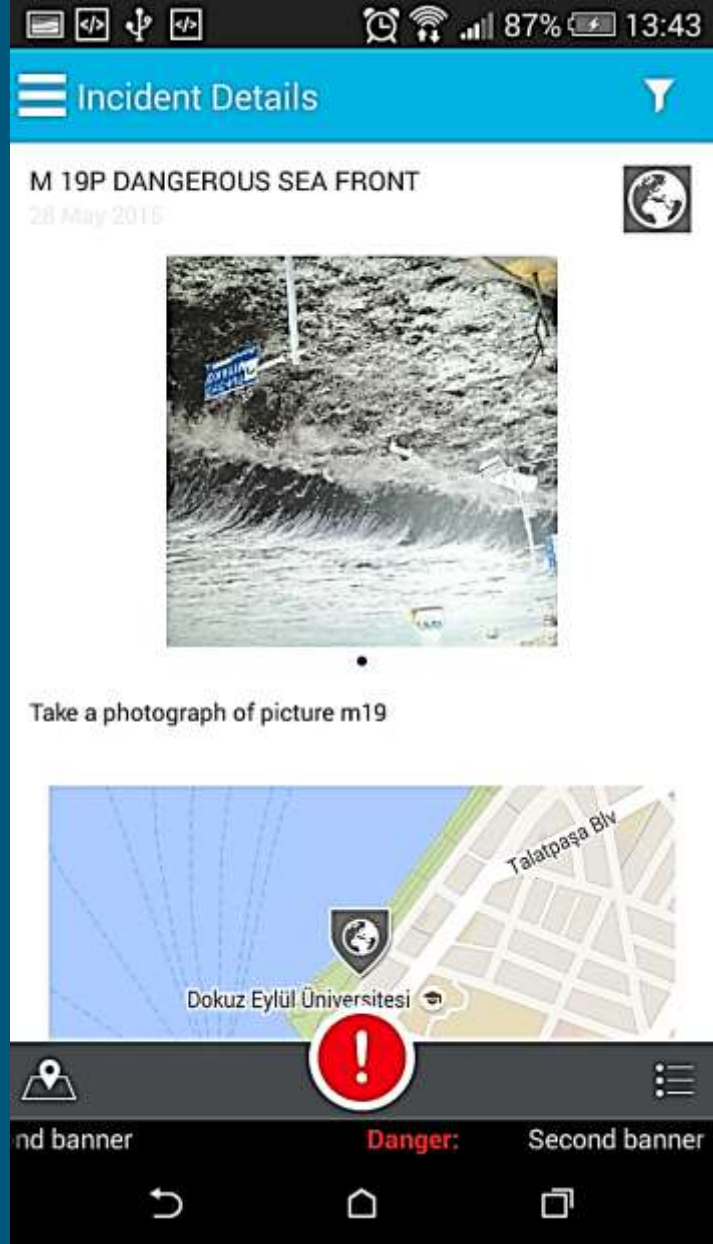
athena



Project ATHENA
This project is co-funded by the European Union
Seventh Framework Programme SEC Call 1 - FP7-SEC-2012.6.1-30

athena





Project ATHENA
This project is co-funded by the European Union
Seventh Framework Programme SEC Call 1 - FP7-SEC-2012.6.1-30

athena

Detail of banner headline

Athena x Athena x Athena x localhost:8080/re x Inbox (6) - athen x athena.epidemic x JSON to Groovy x Kulturpark İzmir x

localhost:8080/ccid2

athena Command and Control Centre Intelligence Dashboard

Tweet 0 Log In

Refresh Filter Reports Create Report Create CCCID Location Delete Report

Map Satellite

Report Title: H6 Banner
ReportID: H6Banner
Report read: no
Report Category Name: Natural Disaster
Credibility Level: 1
Validation status: 0
Clearance Level: 1
User Tier: 1
Priority Level: 1
Time Since Report Posted: Days: 409, Hours: 20 Minutes: 52
report image link
userTier1 validated
☐ Read ☐ Unread
Save & Close

Reports

| ReportID | Report Title |
|----------------------|---|
| C10 | All okay |
| C12 | Injured people |
| C15 | Danger |
| C20 | Blocked road D550 |
| C21 | Danger |
| C26 | Do not use |
| C27 | Danger |
| C11 | People gathering |
| C23 | All okay |
| C18 | Stuck at cafe |
| C01 | Blocked Road |
| C19 | Roof collapsed |
| C22 | School damaged |
| C03 | Damaged Building |
| C24 | Do not use |
| C02 | Road Closed |
| C03 | Damaged Road |
| C16 | Danger |
| C13 | Hospital okay |
| C04 | Hospital OK |
| C28 | No damage |
| C07 | No damage |
| tier12_1432813536967 | Screenshot Added A screenshot was added to your Dropbox. |
| tier22_1432814138337 | |

EN 15:20 28/05/2015



Overview of pins


Athena Athena localhost:8080/refres Inbox (6) - athenapro athena.epidemico.co JSON to Groovy pars Turkey - Google Map

localhost:8080/ccid2

athena Command and Control Centre Intelligence Dashboard

Tweet 0 Log In

Refresh Filter Reports Create Report Create CCCID Location Delete Report



Map Satellite

Reports

| ReportID | Report Title |
|----------------------|-------------------|
| C10 | All okay |
| C12 | Injured people |
| C15 | Danger |
| C20 | Blocked road D550 |
| C21 | Danger |
| C26 | Do not use |
| C27 | Danger |
| C11 | People gathering |
| C23 | All okay |
| C18 | Stuck at cafe |
| C01 | Blocked Road |
| C19 | Roof collapsed |
| C22 | School damaged |
| C03 | Damaged Building |
| C24 | Do not use |
| C02 | Road Closed |
| C03 | Damaged Road |
| C16 | Danger |
| C13 | Hospital okay |
| C04 | Hospital OK |
| C28 | No damage |
| C07 | No damage |
| tier12_1432813536967 | M29A |
| tier22_1432814138337 | m44a |



Project ATHENA
This project is co-funded by the European Union
Seventh Framework Programme SEC Call 1 - FP7-SEC-2012.6.1-30

athena

Picture message



Project ATHENA
This project is co-funded by the European Union
Seventh Framework Programme SEC Call 1 - FP7-SEC-2012.6.1-30

athena

Picture message



Project ATHENA
This project is co-funded by the European Union
Seventh Framework Programme SEC Call 1 - FP7-SEC-2012.6.1-30

athena

Picture message



Project ATHENA
This project is co-funded by the European Union
Seventh Framework Programme SEC Call 1 - FP7-SEC-2012.6.1-30

athena

Video message



Project ATHENA
This project is co-funded by the European Union
Seventh Framework Programme SEC Call 1 - FP7-SEC-2012.6.1-30

athena

Video message



Project ATHENA
This project is co-funded by the European Union
Seventh Framework Programme SEC Call 1 - FP7-SEC-2012.6.1-30

athena

Video message



Project ATHENA
This project is co-funded by the European Union
Seventh Framework Programme SEC Call 1 - FP7-SEC-2012.6.1-30

athena

EVALUATION



Project ATHENA
This project is co-funded by the European Union
Seventh Framework Programme SEC Call 1 - FP7-SEC-2012.6.1-30

athena

athena

EMPOWERING CITIZENS, PROTECTING COMMUNITIES

WP5 – Mobile App Development For Crisis Management

Lucas Baptista
Epidemico
July 2015



Project ATHENA
This project is co-funded by the European Union
Seventh Framework Programme SEC Call 1 - FP7-SEC-2012.6.1-30

Work Package Overview

- Develop a mobile application that allows users to report and receive information during a crisis
- Features:
 - Crisis Map
 - News List
 - Eyewitness Report (text, photo, audio, video)
 - Request for Help
- Early integrated prototype on iOS and Android
 - Frontend interface
 - Backend server



User interface

Home screen, headline banner

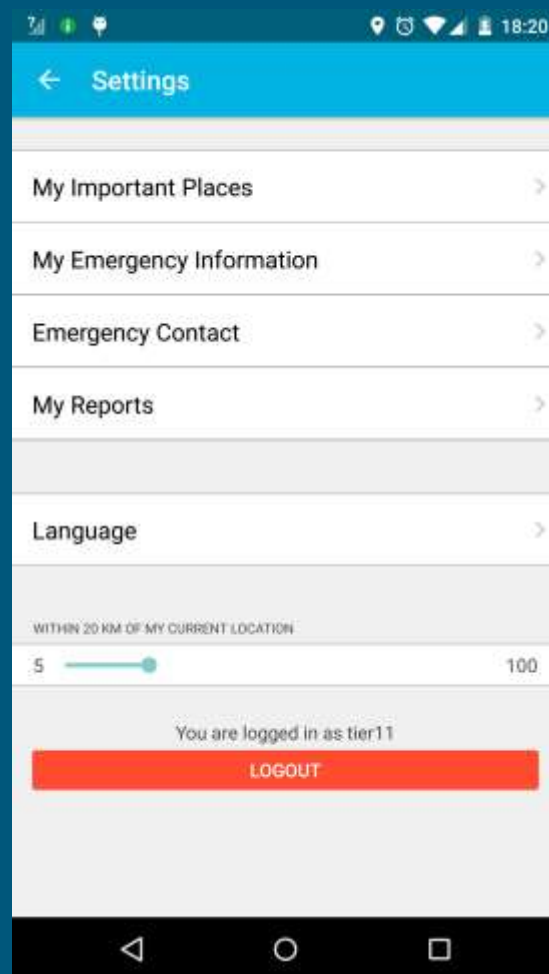


Project ATHENA
This project is co-funded by the European Union
Seventh Framework Programme SEC Call 1 - FP7-SEC-2012.6.1-30

athena

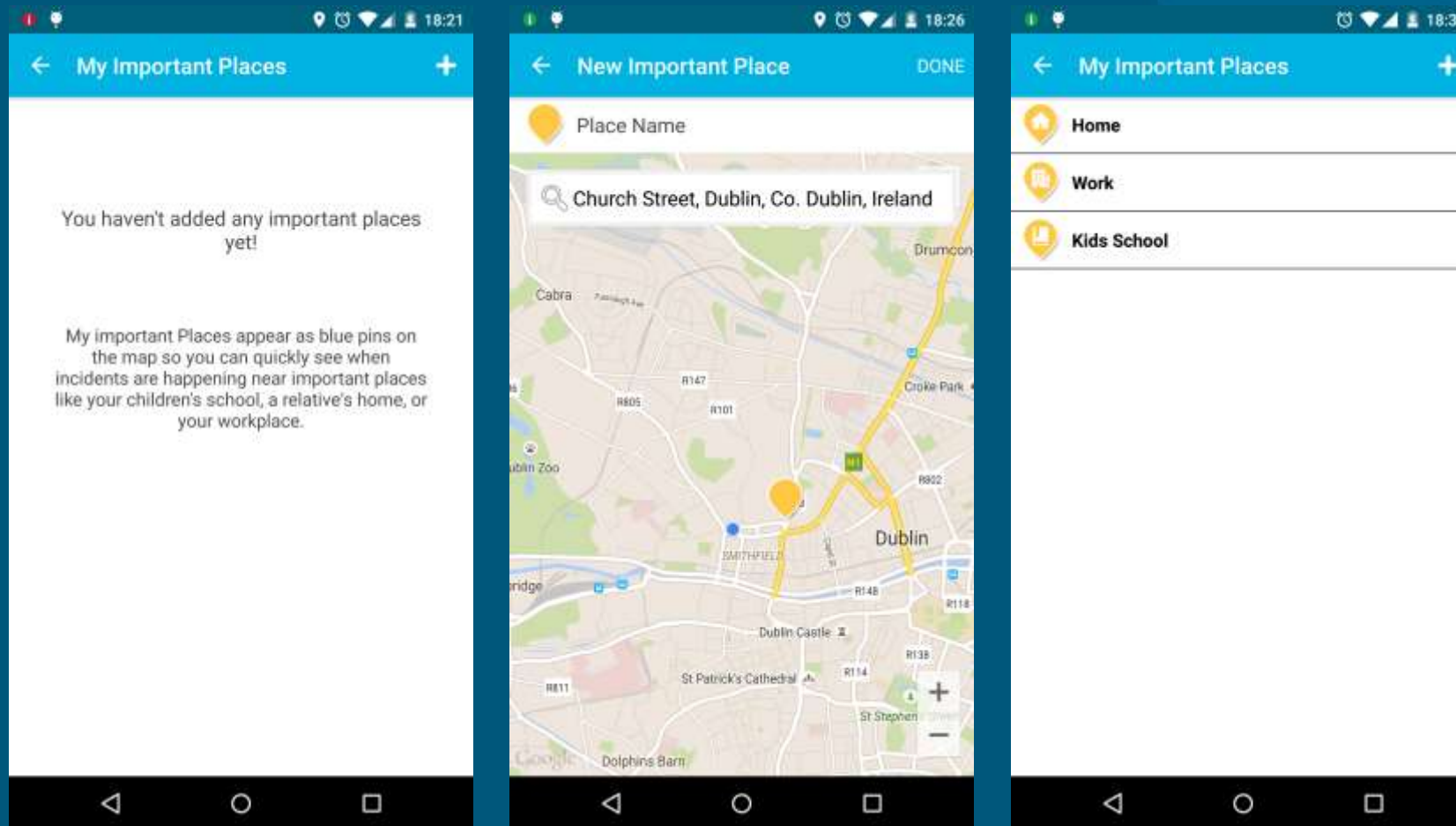
User interface

Settings



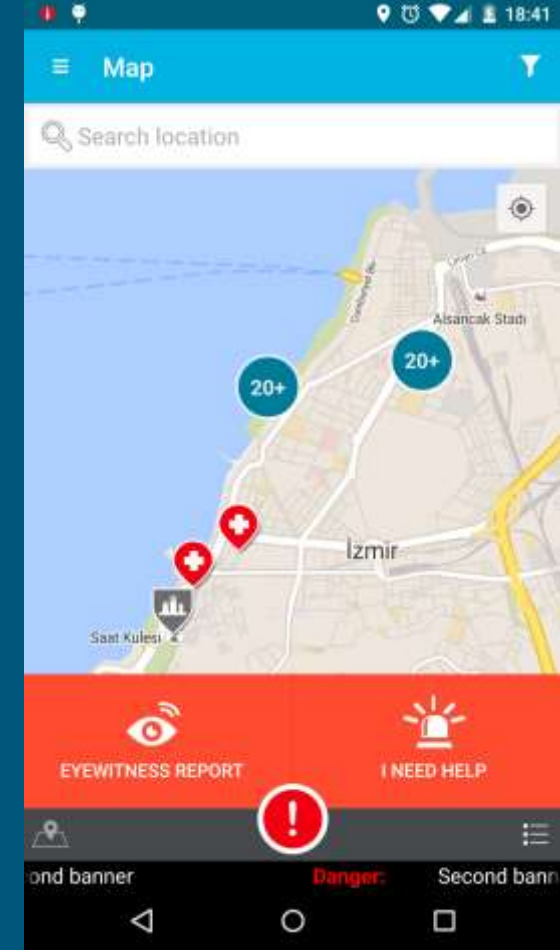
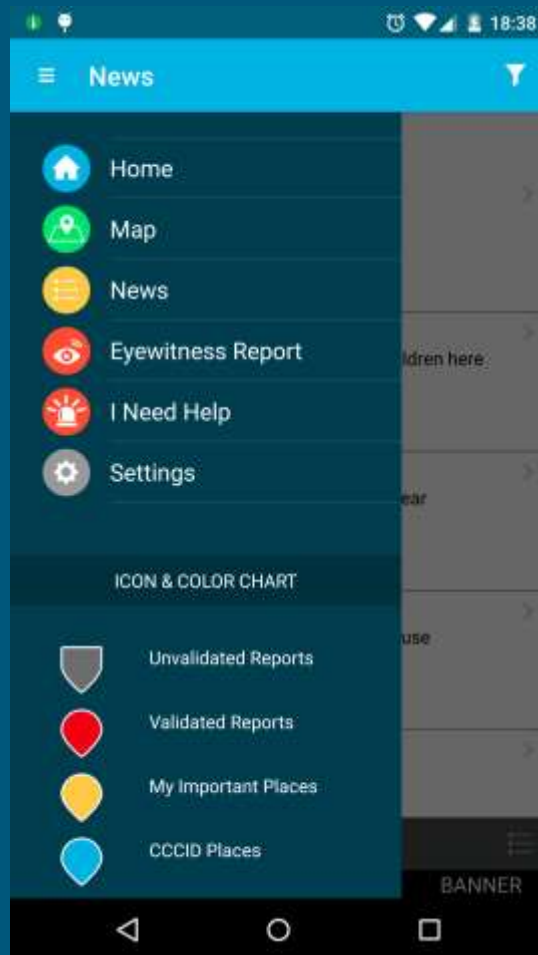
User interface

My Important Place



User interface

Menu

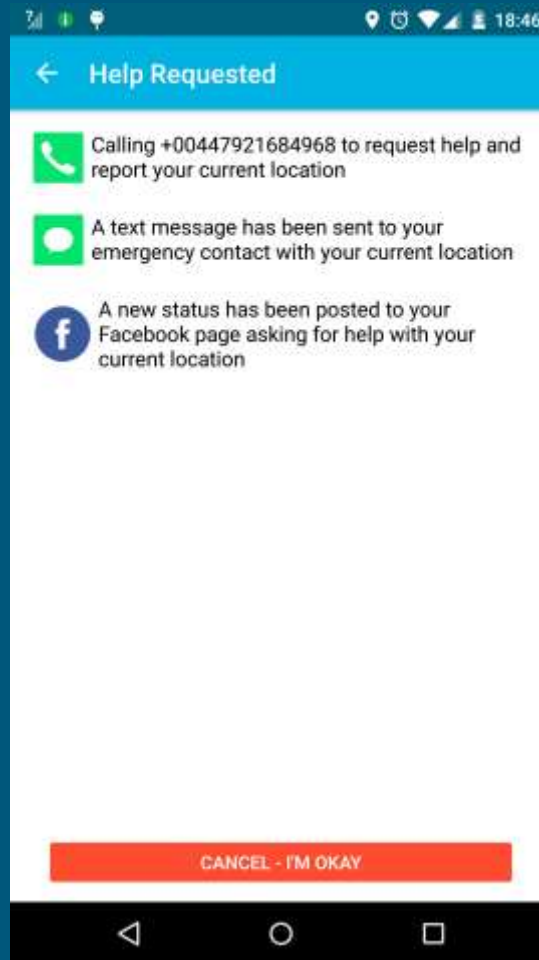


Project ATHENA
This project is co-funded by the European Union
Seventh Framework Programme SEC Call 1 - FP7-SEC-2012.6.1-30

athena

User interface

I Need Help



Project ATHENA
This project is co-funded by the European Union
Seventh Framework Programme SEC Call 1 - FP7-SEC-2012.6.1-30

athena

User interface

Eyewitness Reports

The image displays three sequential screenshots of a mobile application interface for reporting incidents.

Screenshot 1 (Left): The screen is titled "Select category of report". It features a list of categories, each with an icon and a right-pointing arrow:

- Other
- Attack (with a person icon)
- Crime (with a handcuffs icon)
- Explosion (with a starburst icon)
- Fire (with a flame icon)
- Hazard (with a warning triangle icon)
- Help (with a question mark icon)
- Infrastructure (with a building icon)
- Medical (with a plus sign icon)
- Natural Disaster (with a globe icon)
- Public Disorder (with a group of people icon)
- Transport Incident (with a truck icon)

Screenshot 2 (Middle): The screen is titled "Attack". It contains a form with the following fields:

- Title
- Description
- Date and Time: 07/03/15 18:48
- Location: Arran Quay, Dublin, Ireland
- A green "SUBMIT" button at the bottom.

Screenshot 3 (Right): This screen shows the "Attack" form with data entered:

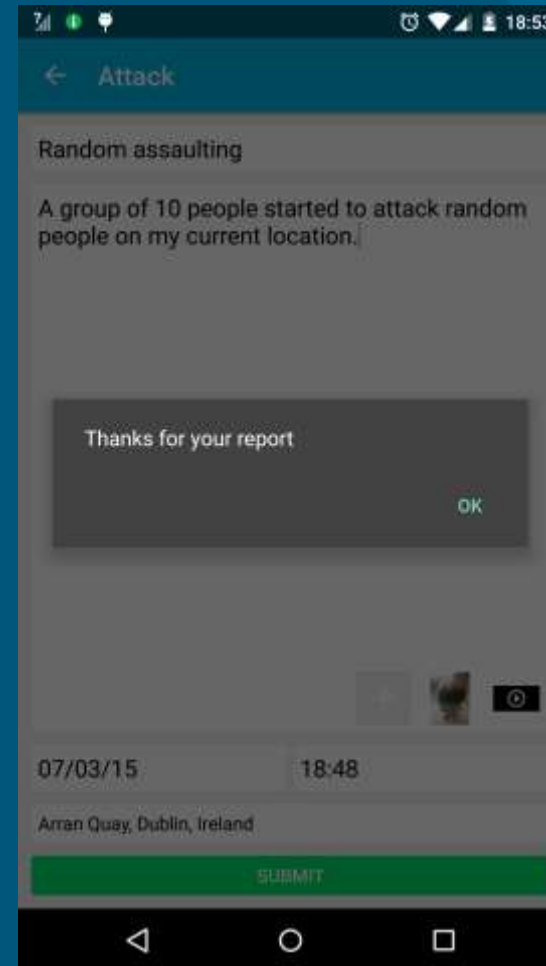
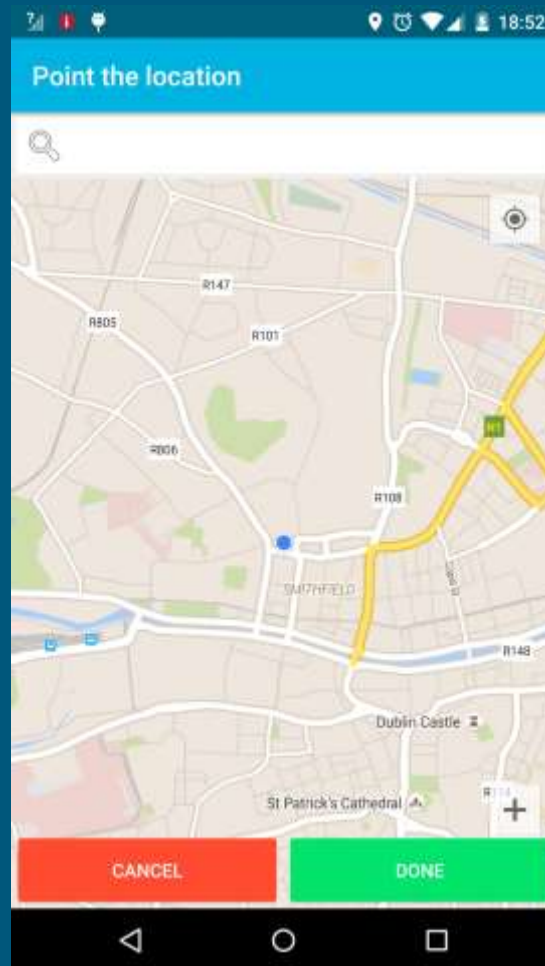
- Title: Random assaulting
- Description: A group of 10 people started to attack random people on my current location.
- Date and Time: 07/03/15 18:48
- Location: Arran Quay, Dublin, Ireland
- A green "SUBMIT" button at the bottom.

A virtual QWERTY keyboard is visible at the bottom of the third screenshot.



User interface

Eyewitness Reports

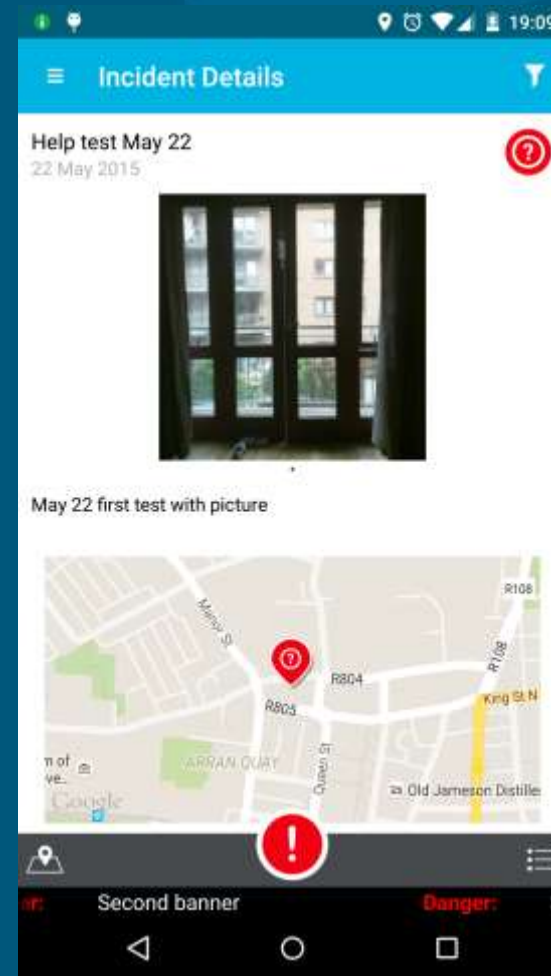
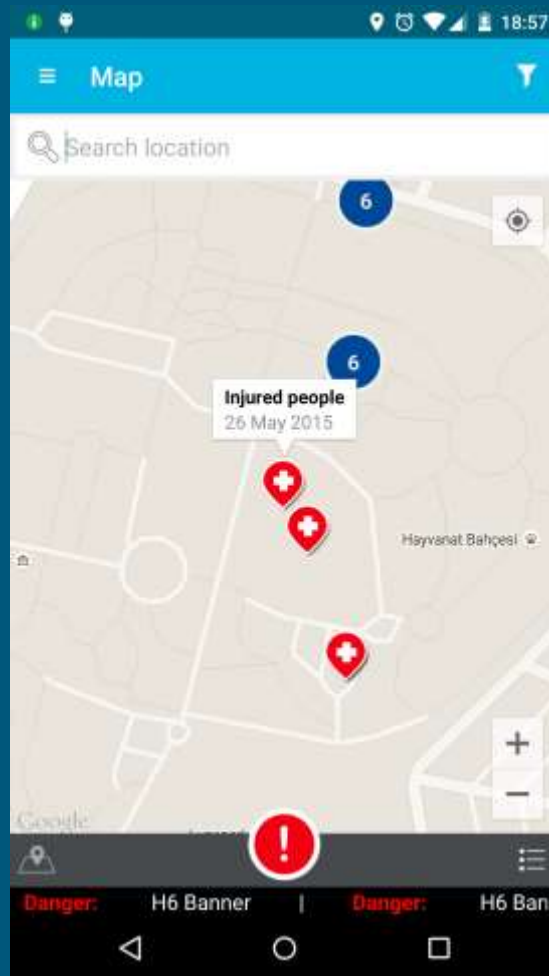


Project ATHENA
This project is co-funded by the European Union
Seventh Framework Programme SEC Call 1 - FP7-SEC-2012.6.1-30

athena

User interface

Crisis Map

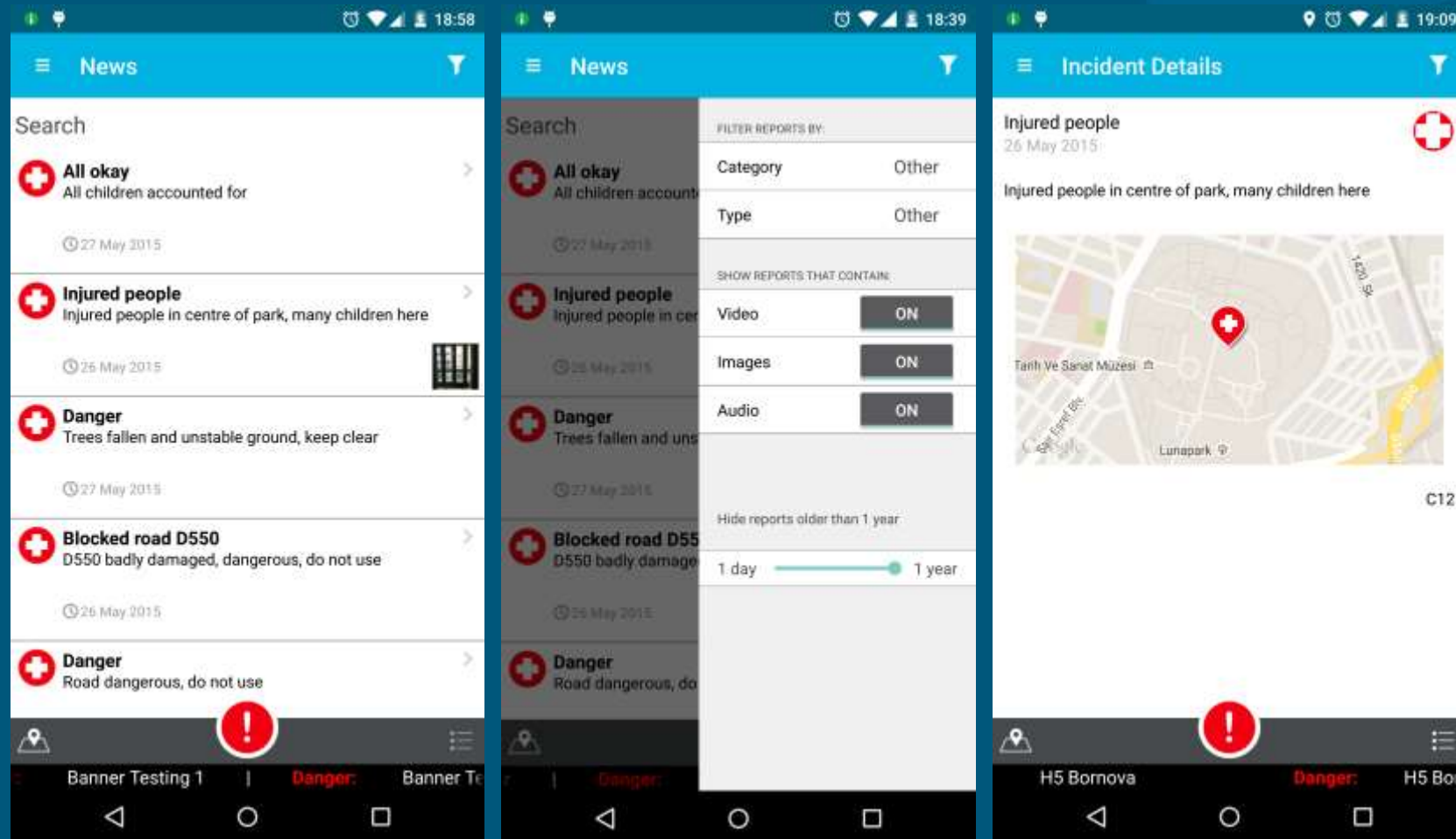


Project ATHENA
This project is co-funded by the European Union
Seventh Framework Programme SEC Call 1 - FP7-SEC-2012.6.1-30

athena

User interface

News List



athena

EMPOWERING CITIZENS, PROTECTING COMMUNITIES

www.projectathena.eu



Project ATHENA
This project is co-funded by the European Union
Seventh Framework Programme SEC Call 1 - FP7-SEC-2012.6.1-30