



Mestna občina Ljubljana

EU Project Athena

Luka Novak
Emergency Management Department

12th International Crisis Management Conference
Ljubljana, 20th-22nd June 2017



athena

EMPOWERING CITIZENS, PROTECTING COMMUNITIES



Project ATHENA (313220)

This project is co-funded by the European Union

Seventh Framework Programme SEC Call 1 – FP7-SEC-2012.6.1-30



- Part of EU 7th Framework Program
- 3 year project
- Leverage the potential of social media for disaster management and emergency planning
- Utilize all of society's resources in preparing, responding, recovering, adapting, and learning from crises and emergencies





PARTNERS

- West Yorkshire Police Authority (United Kingdom)
- International Organisation for Migration (Belgium)
- Sheffield Hallam University (United Kingdom)
- Fraunhofer Institute (Germany)
- SAS Software Limited (United Kingdom)
- Epidemico (Ireland)
- Municipality of Ljubljana/GBL Fire Brigade (Slovenia)
- Thales Nederland BV (Netherlands)
- University of Virginia (United States)
- Swedish Defence University (Sweden)
- EPAM Systems (Nordic) AB (Sweden)
- Izmir Buyuk Sehir Belediyesine (Turkey)
- Research in Motion (Canada)





Earthquake (Mexico 2012)





Severe weather (Washington 2010)





Flooding (Central Europe 2013)





Forrest Fire (New South Wales 2013)





Shipwreck (Costa Concordia 2012)





Coach crash (Switzerland 2012)





Building Collapse (Mumbai 2013)





Public disorder (England 2011)





Terrorism (Mumbai attacks 2008)





Active shooter (Denver 2012)















Creating a new platform to enhance the response to crisis situations through :

- Improving warning, situational awareness, analysis, and coordination
- Engaging pre-first responders
- Empowering citizens and
- Promoting community self-help





PRODUCTS

- Athena Mobile App
- Athena Crisis Information Processing Center
- ATHENA Crisis Command and Control Intelligence Dashboard
- Athena Cloud





Crisis Mobile

ATHENA Citizen Reporter 'point & shoot'

Location and Time
Taxonomised/CML Crisis Information

HELP!
ATHENA Life Support System

Crisis Alerts
Crisis Map Mobile Version
Links to Crisis Pages

siseadlines – Crisis Headlines – Crisis



Crisis Information Processing Centre

Acquisition & Pre-Processing Tools

Social Media Scanner
Filter System
Crisis Taxonomy System
Citizen report streaming/recording centre
Speech Recognition voice to text

Aggregation & Analysis Tools

Credibility Scoring role + context
FCA Summarising
Classification/Clearance System
Data Fusion
Sentiment Analysis

Interoperability

Crisis Management Language
Decentralized Intelligence Processing Framework

ATHENA Cloud Secure Information Centre

Cloud

Social Media

Crisis Pages
@crisis
facebook.com/crisis
crisis.wiki.org
crisis.blogspot.com

Crisis Command & Control Intelligence Dashboard

Crisis Map

ATHENA Citizen Reporter Feeds
Add to map: Danger zones, Safe Routes, Distress Signals, CML messages
+ ZOOM -

Event Summaries

Social Media Content Management Tool

Crisis Summary & Query Tools

Mobile Communications Centre
ines – Crisis Headlines – Crisis

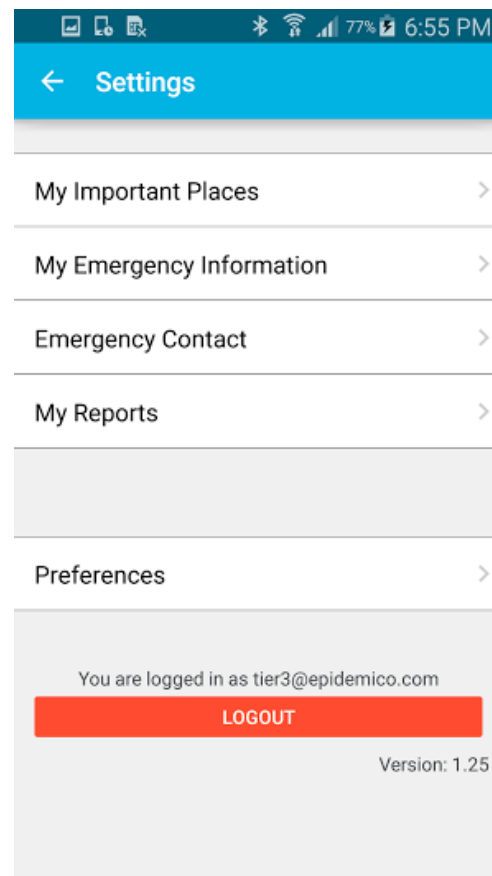
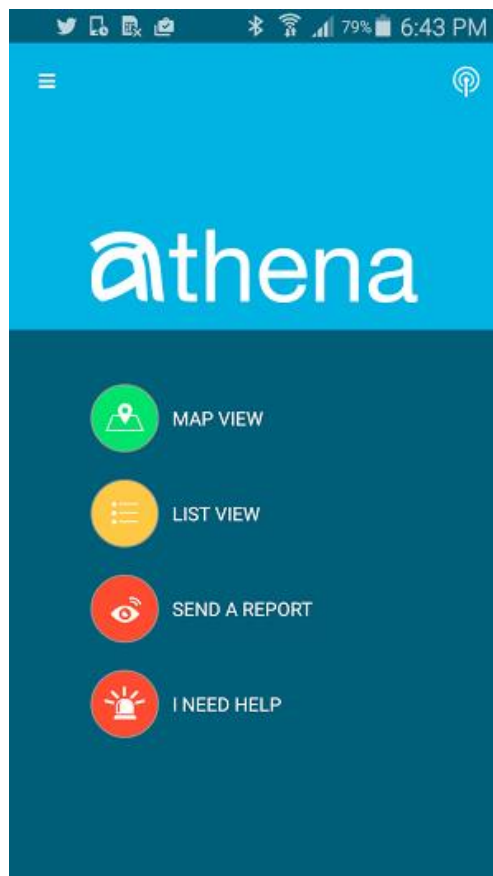
athena
EMPOWERING CITIZENS, PROTECTING COMMUNITIES



Project ATHENA (313220)
This project is co-funded by the European Union
Seventh Framework Programme SEC Call 1 – FP7-SEC-2012.6.1-30



Athena Mobile APP





User info



This project is co-funded by the European Union

Seventh Framework Programme SEC Call 1 – FP7-SEC-2012.6.1-30



Athena Mobile APP

Sending reports

Report an incident

Freedom Trail, Boston, MA 02109, USA

Category Fire 05/31/16 20:01

Description

SUBMIT

Point the location

125 High St, Boston, MA 02110, US

Boston

CANCEL DONE

Report an incident

125 High St, Boston, MA 02110, USA

Fire 05/31/16 20:01

Category

- Other
- Natural Disaster
- Crime
- Fire
- Explosion
- Medical
- Infrastructure
- Transport Incident
- Attack
- Public Disorder
- Hazard
- Help

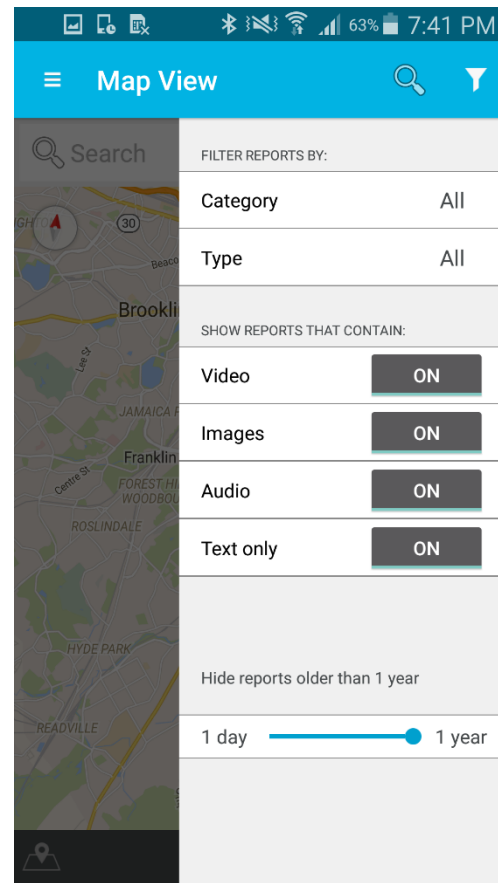
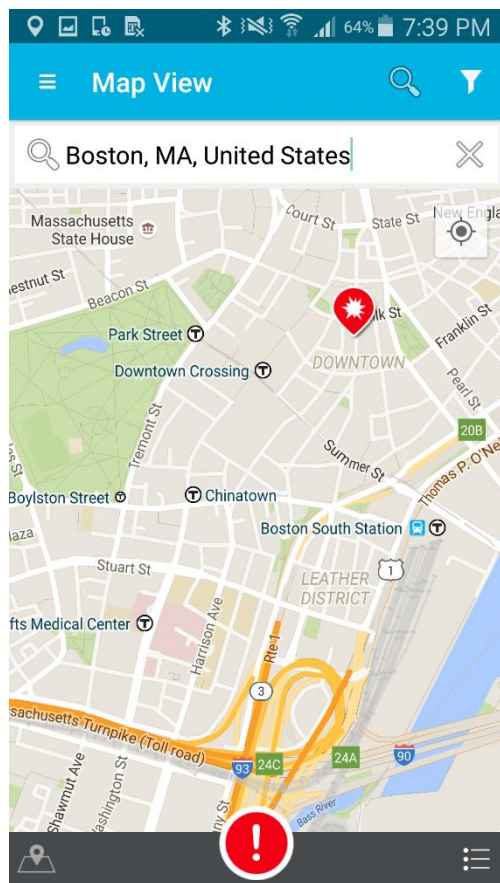
SUBMIT





Athena Mobile APP

Seeing reports



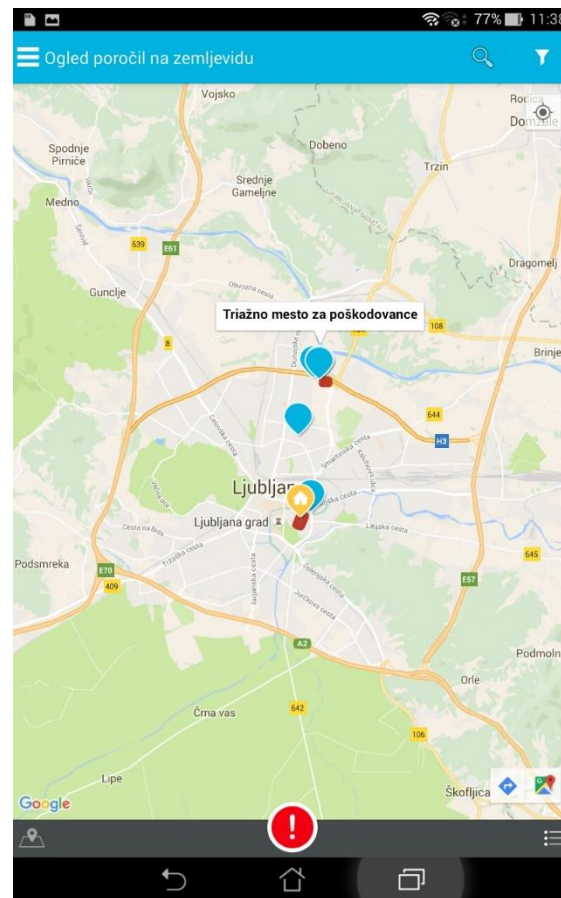
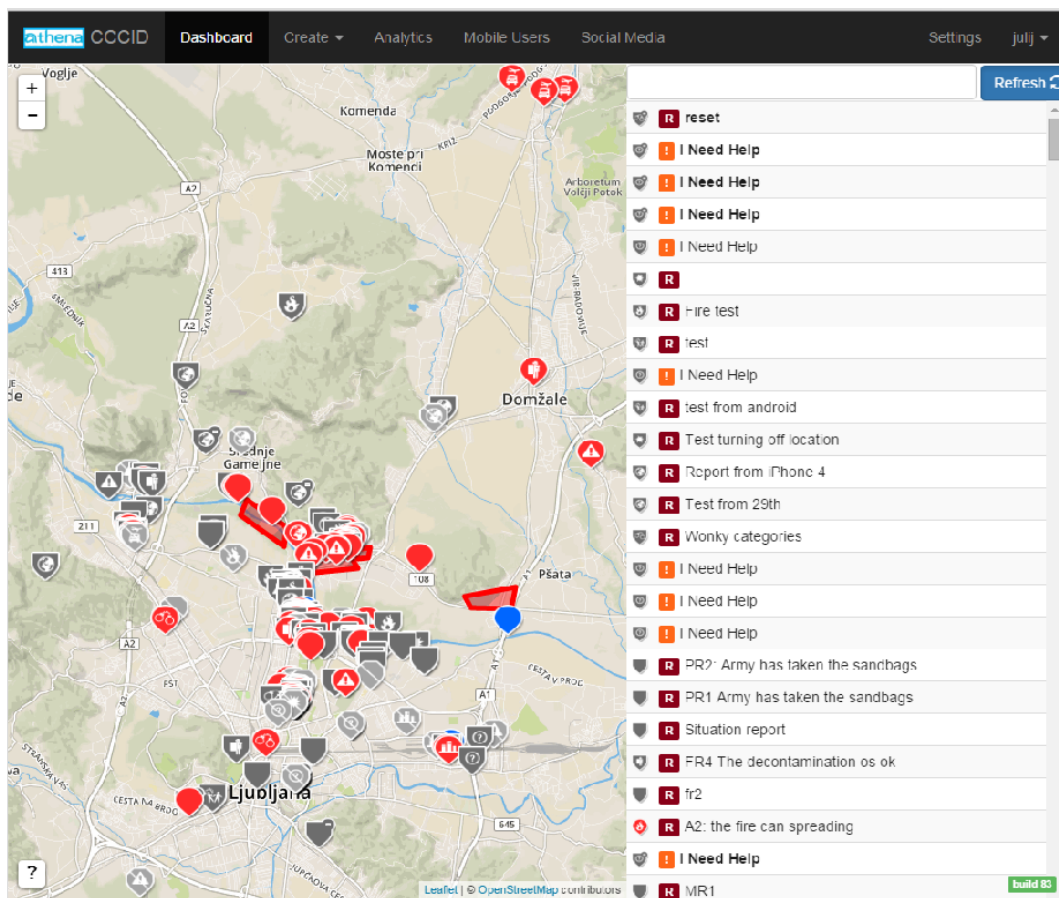
Project ATHENA (313220)

This project is co-funded by the European Union

Seventh Framework Programme SEC Call 1 – FP7-SEC-2012.6.1-30

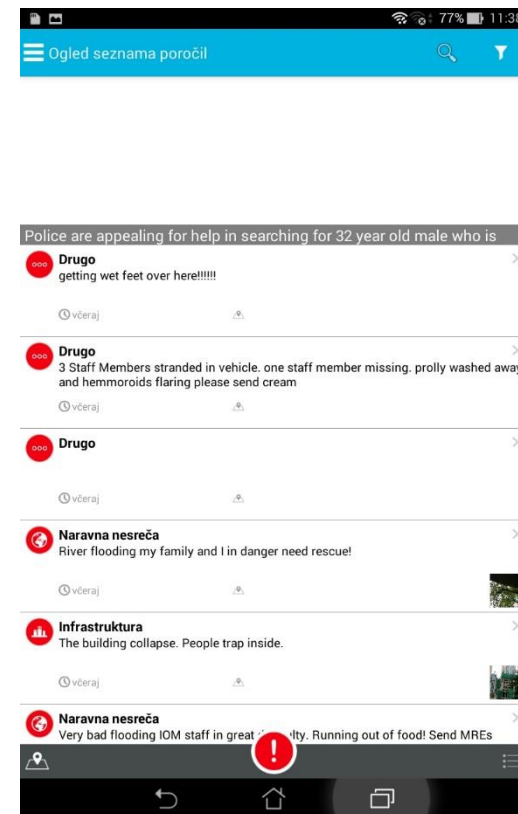
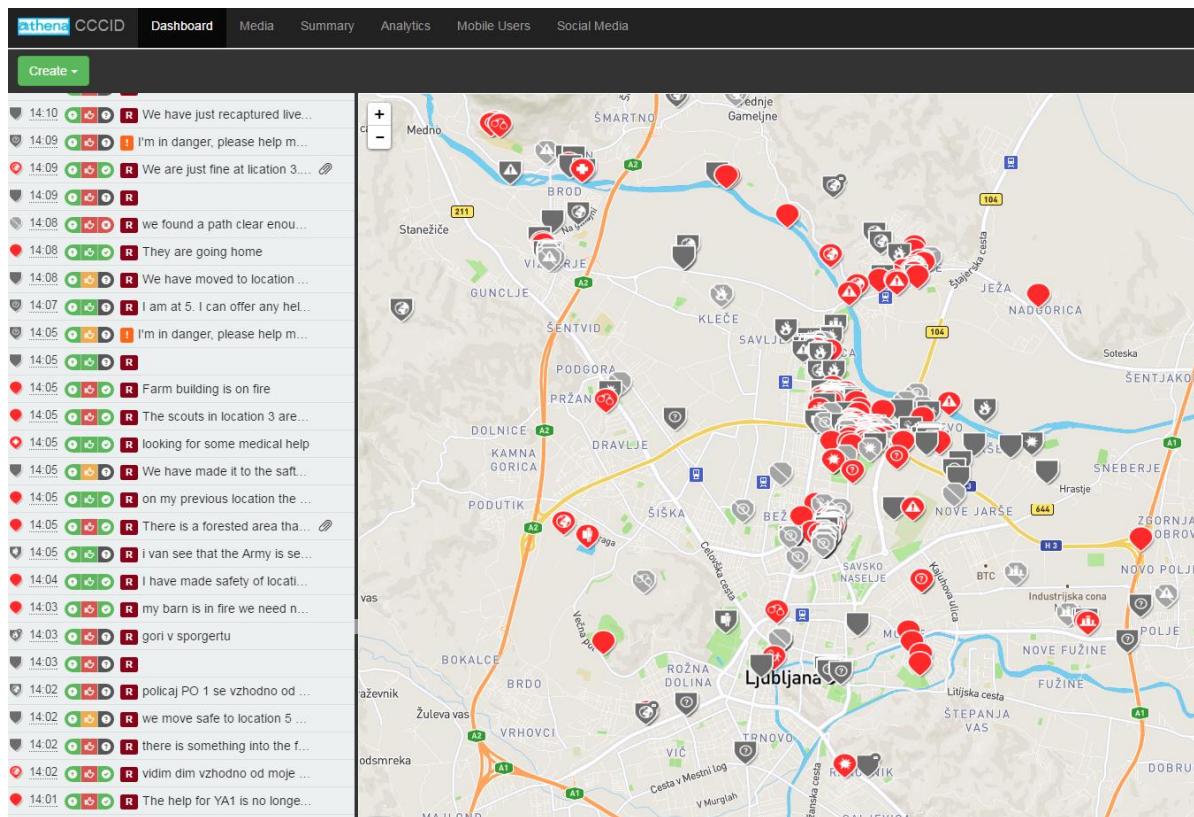


CCCCID





CCCCID





Testing and Exercises

Izmir, May 2015

Ljubljana, January 2016

Ljubljana, April 2016

West Yorkshire, September 2016

Manila, October 2016, Typhoon
(intraorganizational response)





Exercise scenarios

Izmir, May 2015, earthquake

Ljubljana, January 2016, Dam Rupture and Styrene Release

Ljubljana, April 2016, Terrorist Incident

West Yorkshire, September 2016, A Normal Day, Conflict, Bus Attack, Gas Leak, Vulnerable Adult

Manila, October 2016, Typhoon



Project ATHENA (313220)

This project is co-funded by the European Union

Seventh Framework Programme SEC Call 1 – FP7-SEC-2012.6.1-30





Izmir, May 2015



- 9 app users
- 1 CCCID user
- 10 support
- 145 reports
- testing
- multiagency response
- different locations
- scripted format
- reports and tasks for all participants
- highly controlled





Ljubljana, January 2016, Dam Rupture and Styrene Release

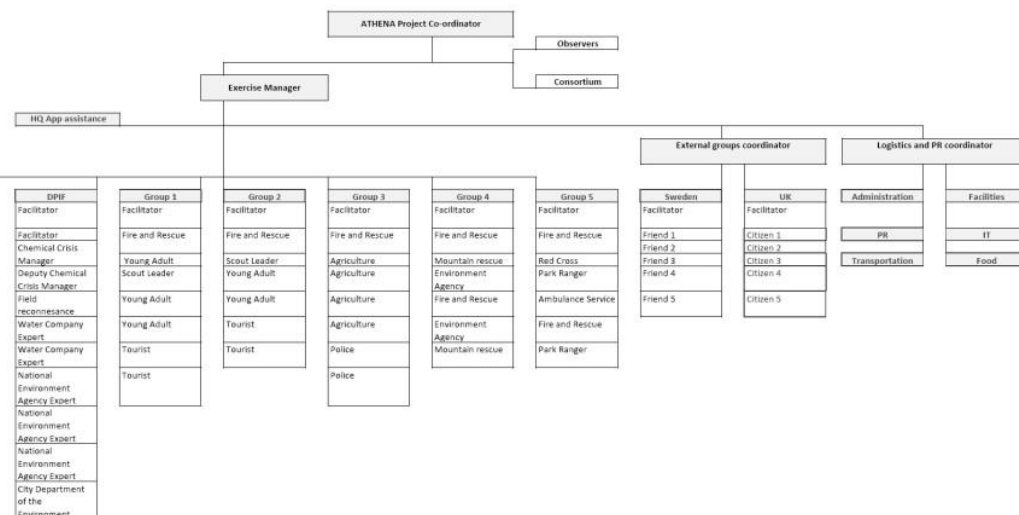
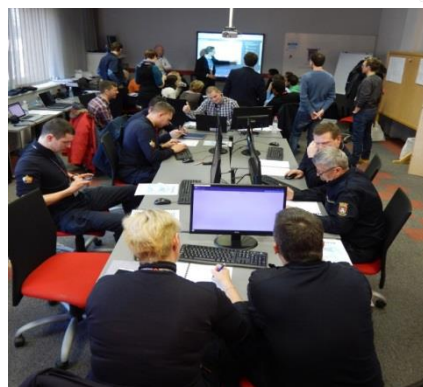
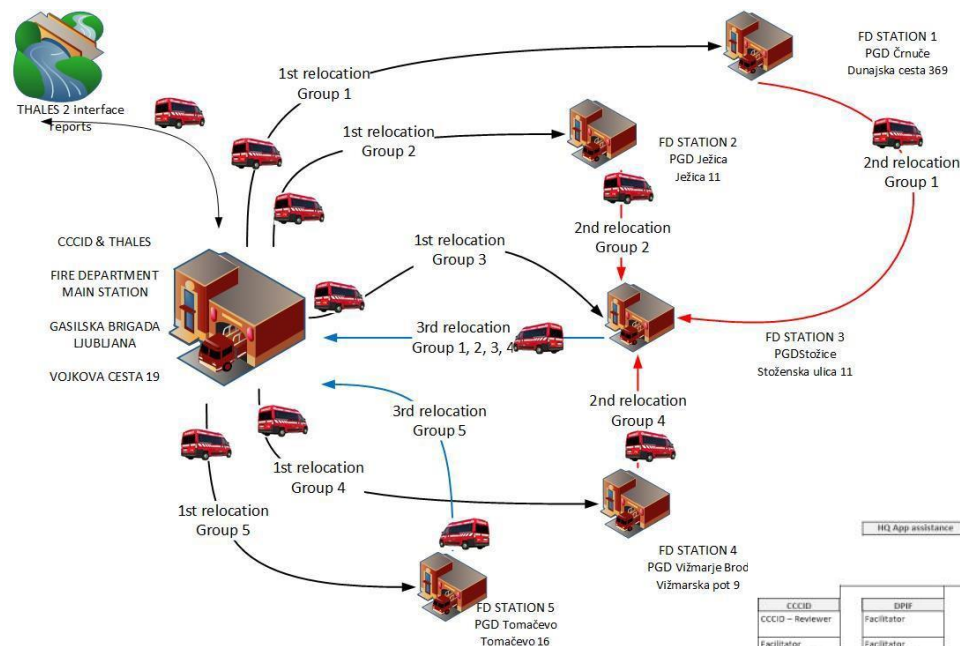


- 41 app users
- 10 CCCID users
- 9 DPIF users
- 23 support,
- 476 reports
- testing multiagency response
- less scripted format
- several different locations & remote groups
- reports and tasks for all participants
- less controlled



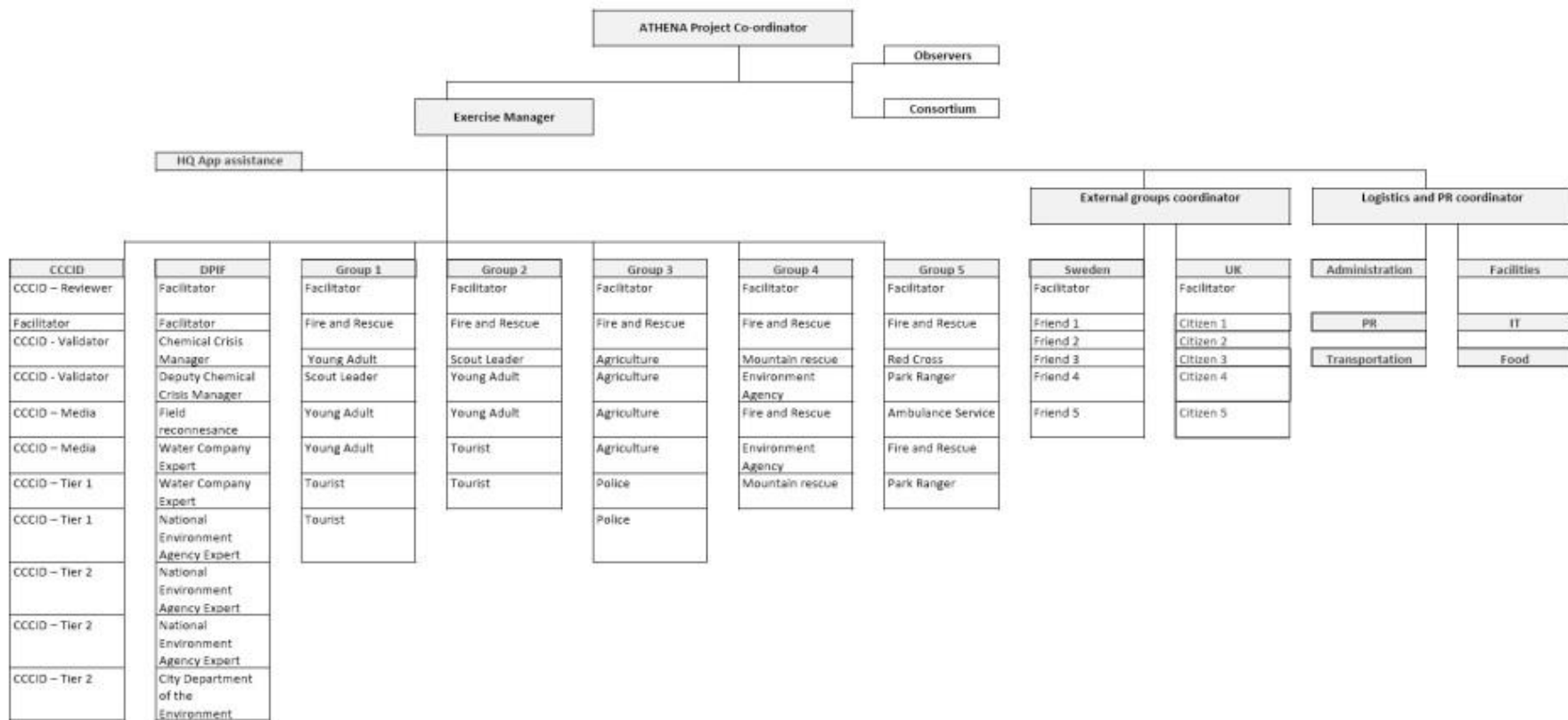


Ljubljana, January 2016, Dam Rupture and Styrene Release





Ljubljana, January 2016, Dam Rupture and Styrene Release





Ljubljana, April 2016, terrorist attack, mass casualty incident, hostage taking, fire, structural collapse

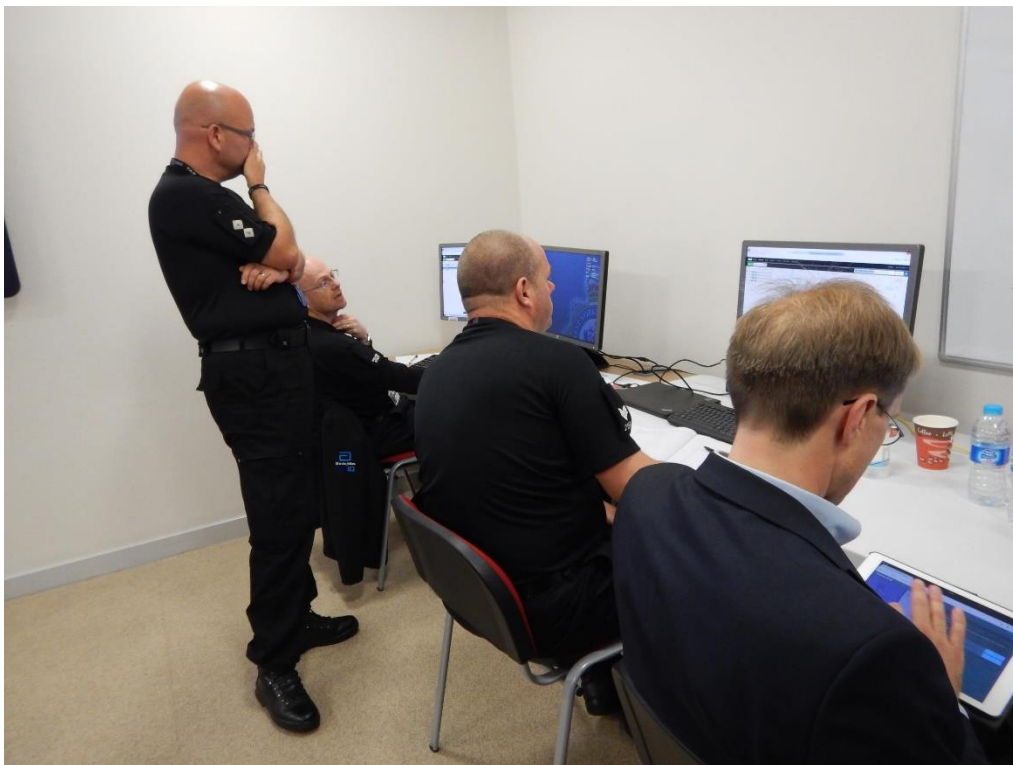


- ~729 app users
- 5 CCCID users 884 support
- 177 reports
- live play
- no scripts
- intuitive use of the app





West Yorkshire, Ljubljana, September 2016, A Normal Day, Conflict, Bus Attack, Gas Leak,



- 30 app users
- 3 CCCID users
- 60 support
- 388 reports
- live play
- police response
- no scripts
- dynamic, live play, simultaneous remote scenario
- representation of 'real life' situation, less controlled, remote CCCID use for situational awareness





West Yorkshire, Ljubljana, September 2016, A Normal Day, Conflict, Bus Attack, Gas Leak,

Command and Control Center (CCCCID, logic cloud)



Police breaking up riot
between two groups

athena
EMPOWERING CITIZENS, PROTECTING COMMUNITIES

Project ATHENA (313220)

This project is co-funded by the European Union

Seventh Framework Programme SEC Call 1 – FP7-SEC-2012.6.1-30



athena

EMPOWERING CITIZENS, PROTECTING COMMUNITIES

Thank You for your kind attention!



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