

CALM

Community Alerts Learning Machine

15 -16 September 2018, Open Data Hackathon

Air pollution for people with Asthma and Allergy

A photograph showing a two-lane asphalt road curving through a hilly landscape. The sky is heavily hazy and yellowish, suggesting air pollution or smog. Sparse green vegetation and dry grass are visible along the roadside.

Traffic problems for drivers on the road



Knews

Bad weather for outdoor workers

Cyprus Daily



Everyone about forests fires

Knews - Kathimerini

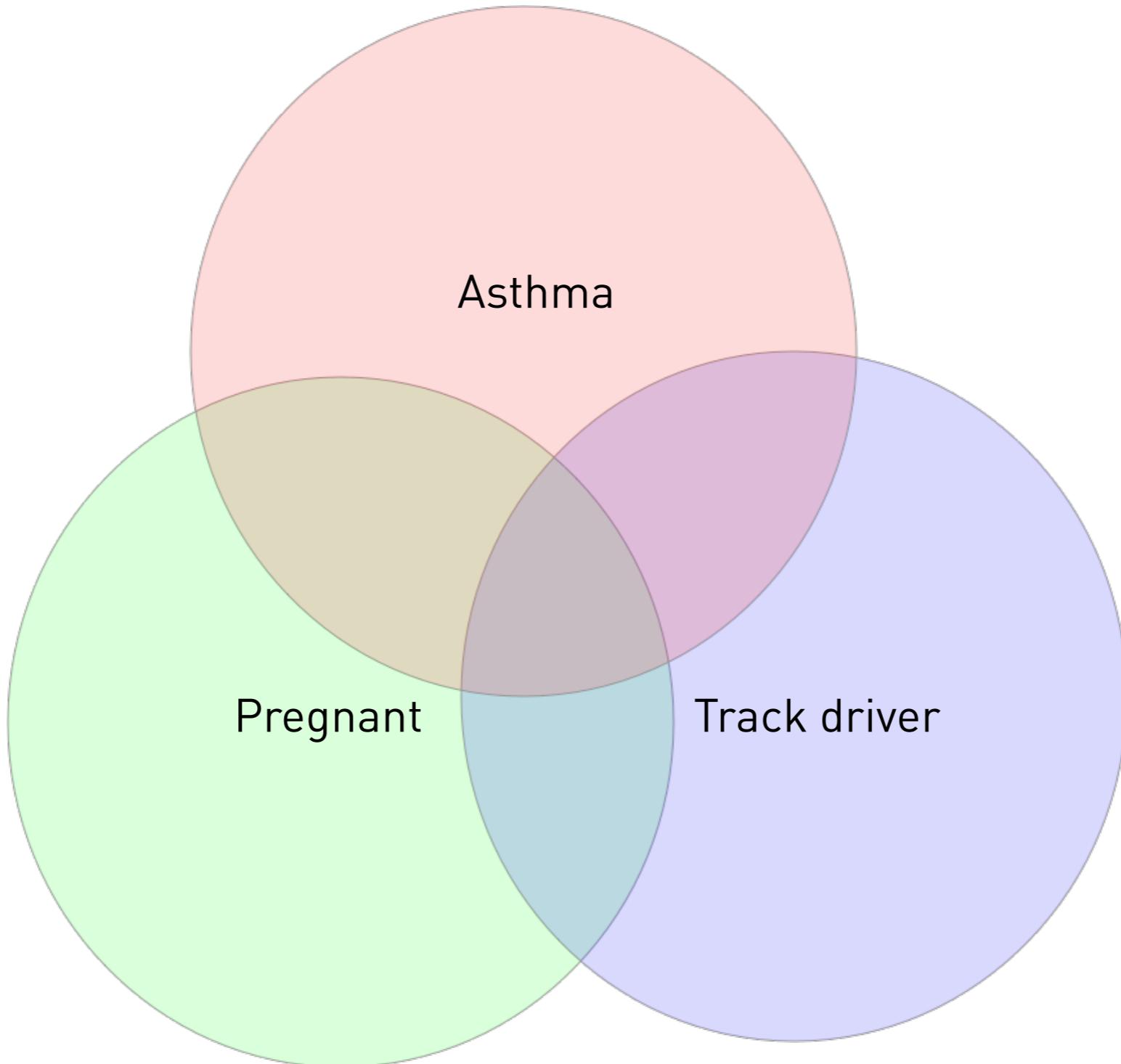
Personalised alerts for different peoples



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Individual alerts

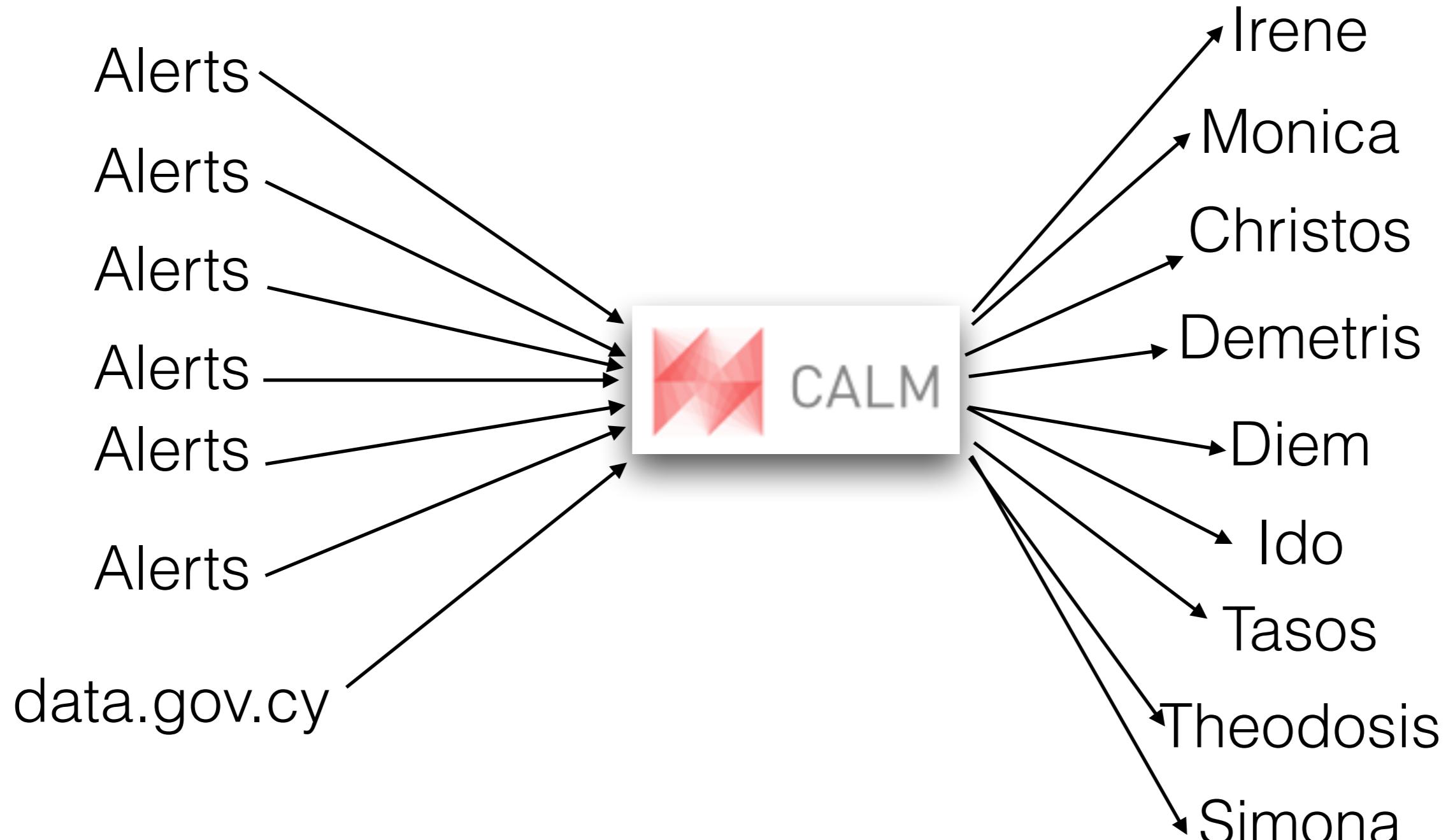
Personalised alerts for different people



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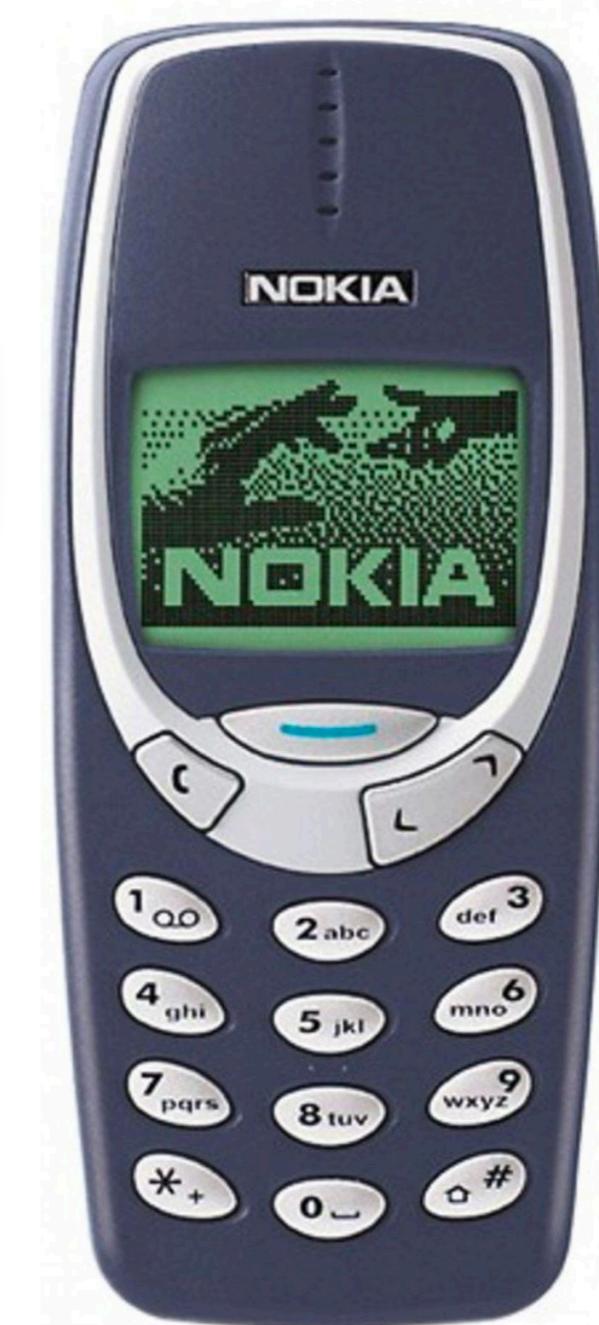
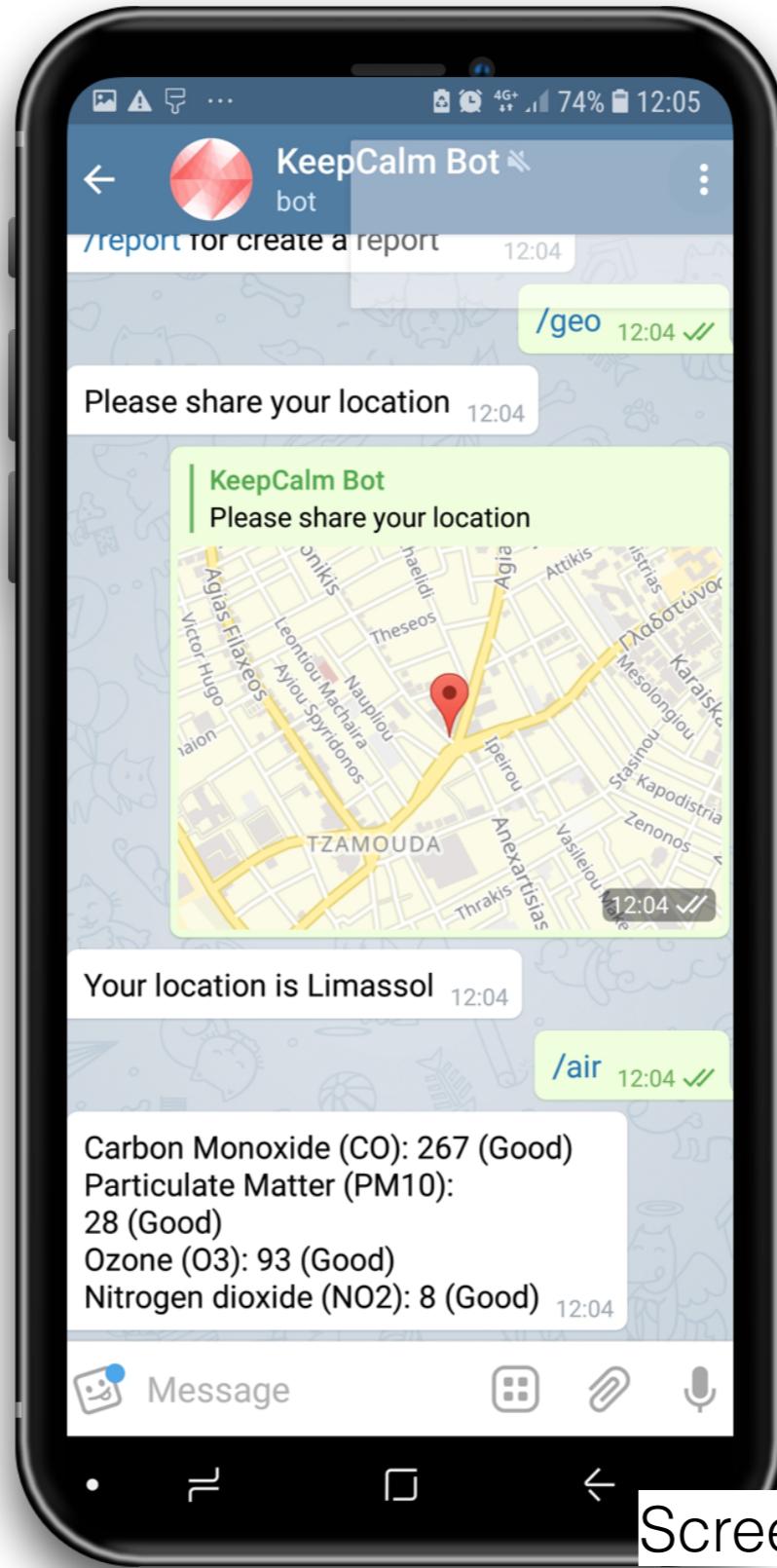
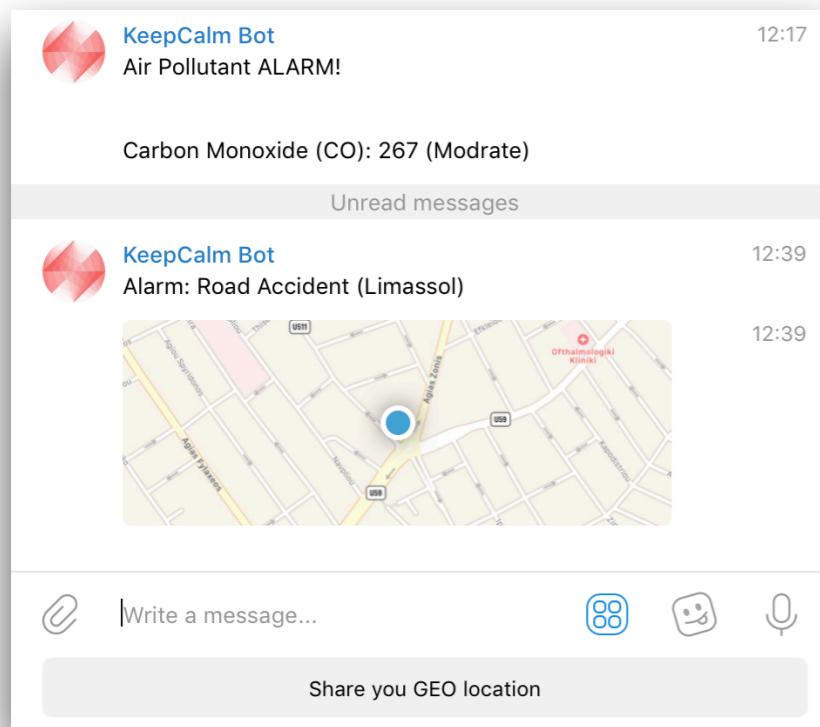
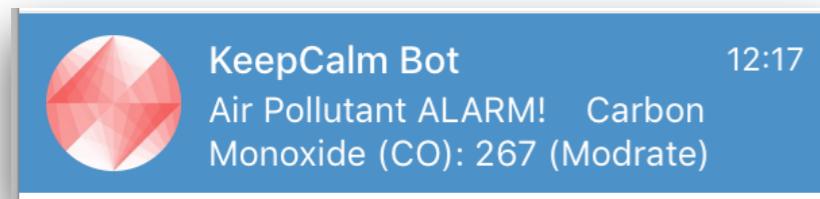
Individual alerts

CALM connects data about alerts and people



Personalised alerts

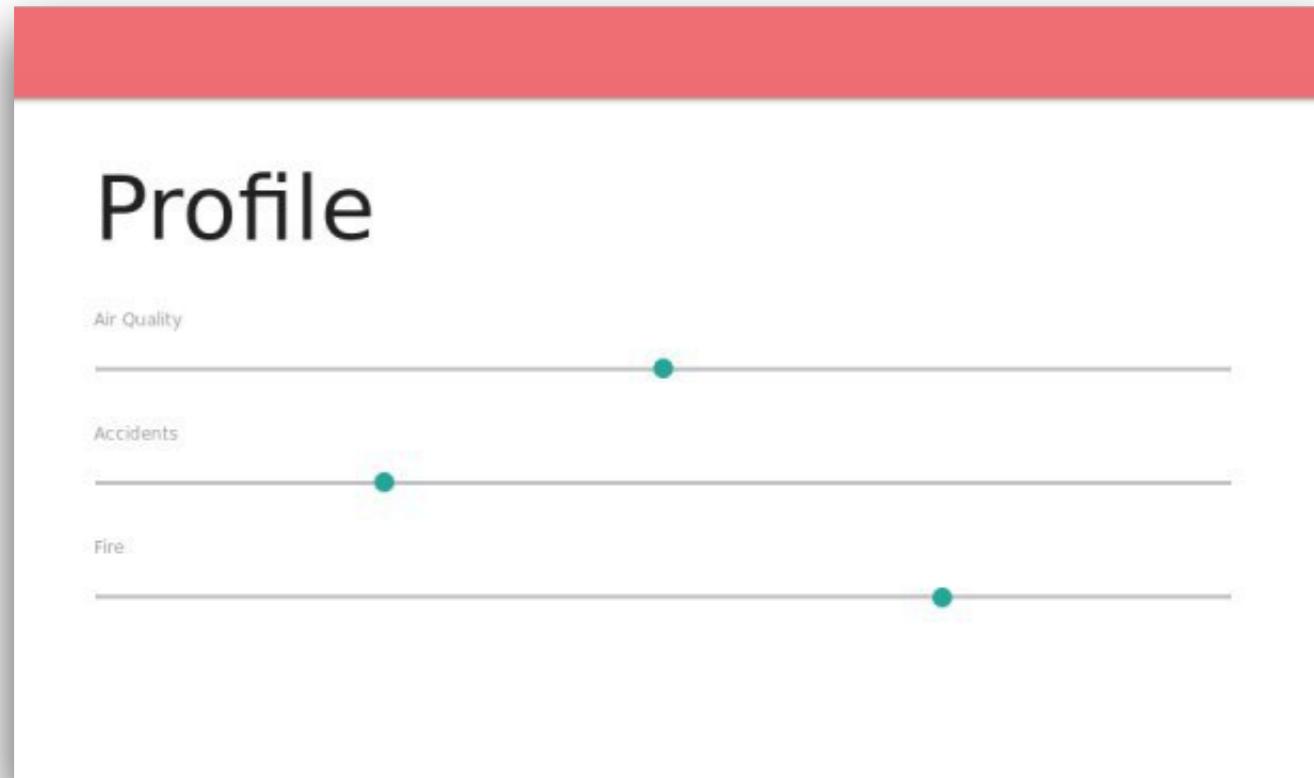
Messengers, SMS, Robocalls, Desktop and Mobile



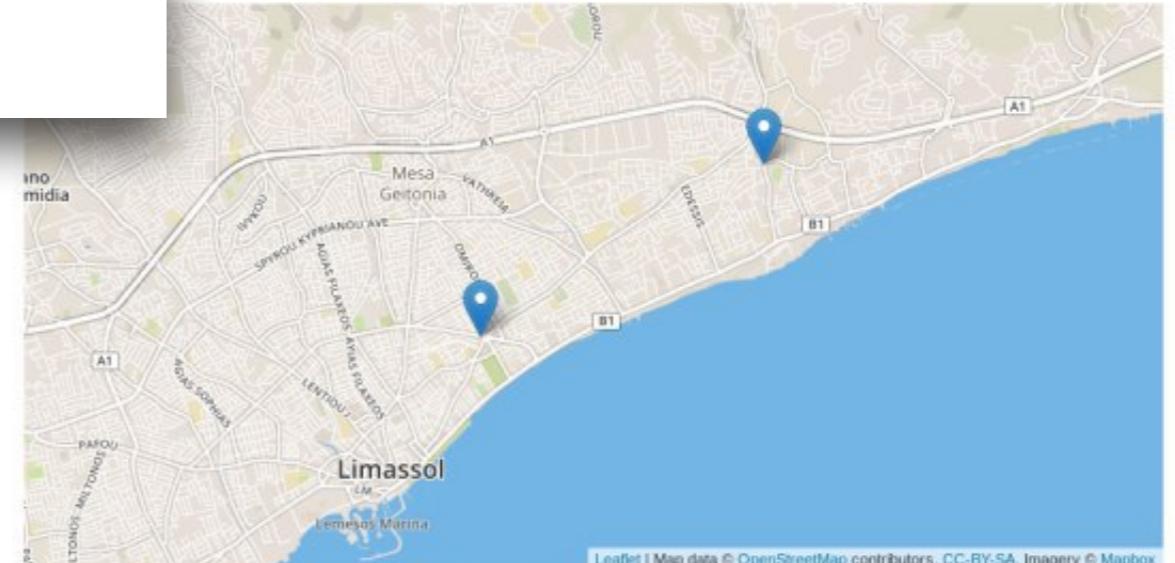
Screenshots from the application

Users provide basic information about them

Age and Health data

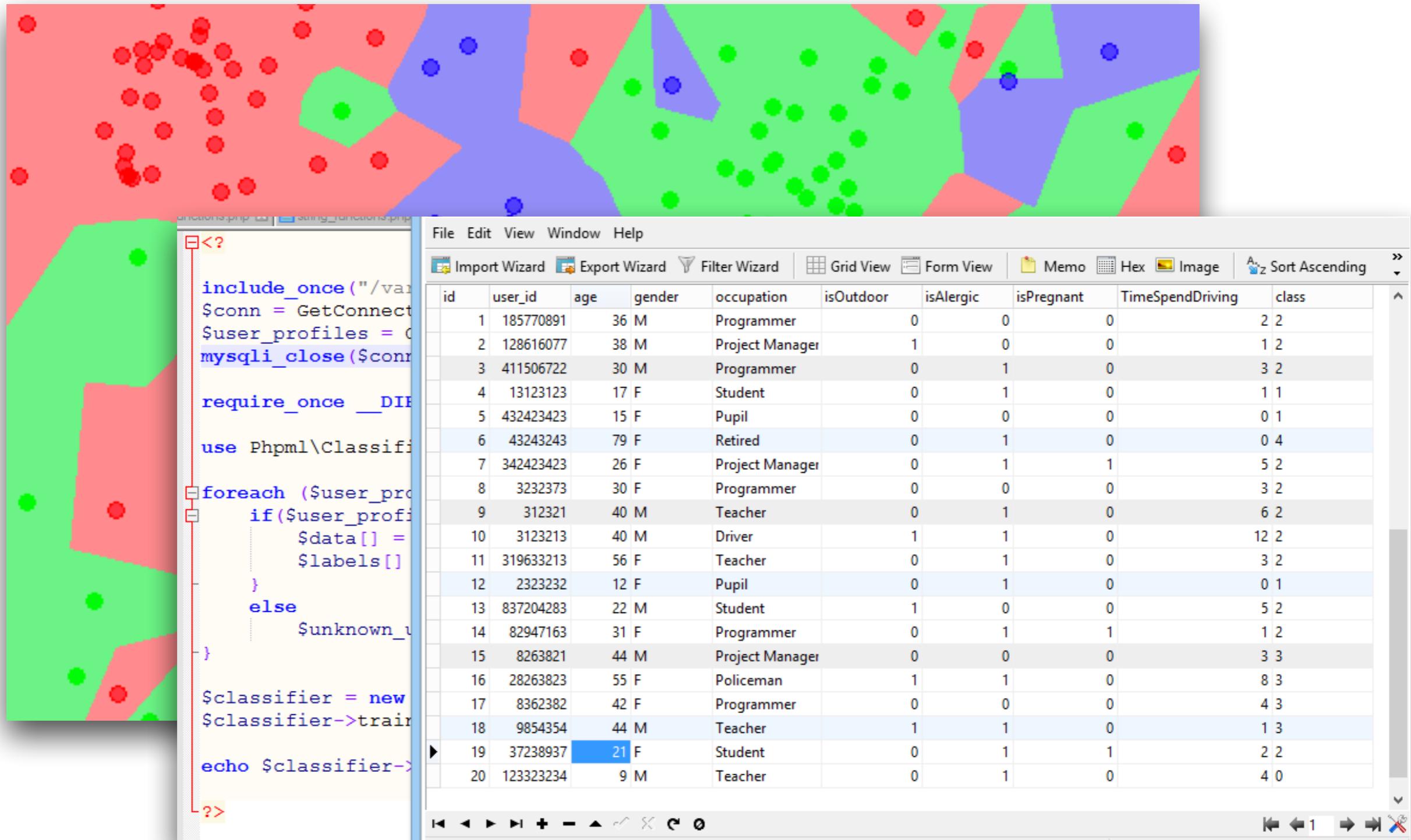


GEO position



Screenshots from the web application

Machine learning (KNN)



Technologies used

php



Symfony



PHP-ML



CALM



MariaDB



Data we using



Blockchain and rating system

The screenshot shows a database interface with two tables. The top table has columns: chat_id, status, updatedate, latitude, longitude, city, and rating. The bottom table has columns: hash and status.

chat_id	status	updatedate	latitude	longitude	city	rating
85770891	1	2018-09-16 10:35:42	34.680615	33.043001	Limassol	10
128616077	1	2018-09-16 12:04:18	34.680615	33.043001	Limassol	9,6
568847466	1	2018-09-15 19:09:03	34.7326377	33.2858195	Limassol	8,9
411506722	1	2018-09-16 12:54:36	34.680639	33.043051	Limassol	10

hash	status
87a76014d3cba9d80c8a4195c78ab05	0
VFewfewfwefewfjiefw8eF3^3fkur	0
55aa05d82070996d2cf021e5c12391e	0
80c8a4195c78ab0587a76014d3cba9d	0
c47816ff529b9fc6f1720a2efd486be	0
90da905c360b1d812df64be49dcccdb	0
1436c6f1937b994b6b7a60aa4f1eb6d	0
e3160c6572f710e954bb10c257c4392	0
96274a6bcb7ddd103e235e40271bf56	0
f30a99c734649272333c53797d446c	0
e1f3c7e641e5b04e0b5a830d15e393d	0
765c29b7db3a1253f20ceab31eb04d4	0
456e9fd054e0c4cf018b3175643ecf4	0
617c1534a772d4e43c1820bc9a59843	0
78a2493278f946c2d796131bbacb0ed	0
d8379d6d473d61ce9468cd90d249377	0
94ce40a4cda3c058c04172a540ceffd	0
de5c7b885eb7568d4888806e6889ec0	0
27ffd439c67fd5e184be07e1991e70e	0
e86e1256e11af27c38792df30aa2221	0

Giving back to community

CALM.OPENDATA

CALM.API



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Independent air quality control stations



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Source: <https://archive.manylabs.org/>

Potential market in Cyprus

11 000 pregnant women each year

100 000 old people who needs care

42 000 people with asthma

600 000 people with cars

3 million tourists per year



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Source: mof.gov.cy
data.gov.cy

Finance

- 1. Low maintenance costs**
- 2. Paid subscriptions**
- 3. Data selling**
- 4. Targeted advertising**
- 5. Crowd data**



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Paid SMS notification packages

Robotic calls

Permanent online for people to receive notifications via data channels -> more internet usage



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#OpenLimassol team

<https://github.com/opendatahackathon2018/openlimassol>



We need Media Coverage



KEEP CALM



and More Open DATA!!!