

Fractured Big Web

Stories from the field and how to make things work

Harris Georgiou (MSc,PhD)
20 June 2019 @ UZH

“ If the value of information multiplies when combined together,
then fracturing it diminishes its value to zero...”





- The Data Science Lab at the Univ. Piraeus, established in 2015
- Aims advance research on a wide range of Data Science subjects, including:
 - **big data management**
 - **statistics and data (incl. text, audio) analytics**
 - **machine learning**
 - **semantic integration**
 - **mobility data exploration**
 - **data privacy**

- EU-H2020 ICT/ **BigDataStack**:
High-performance Data-centric Stack for Big Data Applications and Operations [www.bigdatastack.eu/], 2018-20
- EU-H2020 ICT/ **Track and Know**:
Big Data for Mobility Tracking Knowledge Extraction in Urban Areas
[trackandknowproject.eu/], 2018-20
- EU-H2020 ICT/ **datAcron**:
Big Data Analytics for Time Critical Mobility Forecasting [datacron-project.eu/], 2016-18
- EU-H2020 SESAR/ **DART**:
Data-driven Aircraft Trajectory Prediction Research [dart-research.eu/], 2016-18
- GR/ **RoadRunner**:
Scalable and Efficient Analytics for Big Data [platforms.gr/roadrunner/], 2014-15
- EU-FP7 Marie Curie/ **SEEK**:
Semantic Enrichment of Trajectory Knowledge Discovery [www.seek-project.eu/], 2012-15
- EU-FP7 ICT/ **DATASIM**:
Data Science for Simulating the Era of Electric Vehicles [www.uhasselt.be/datasim/], 2011-14
- EU-FP7 Marie Curie/ **CloudIX**:
Cloud-based Indexing and Query Processing [research.idi.ntnu.no/cloudix/], 2011-13



datAcron



CloudIX

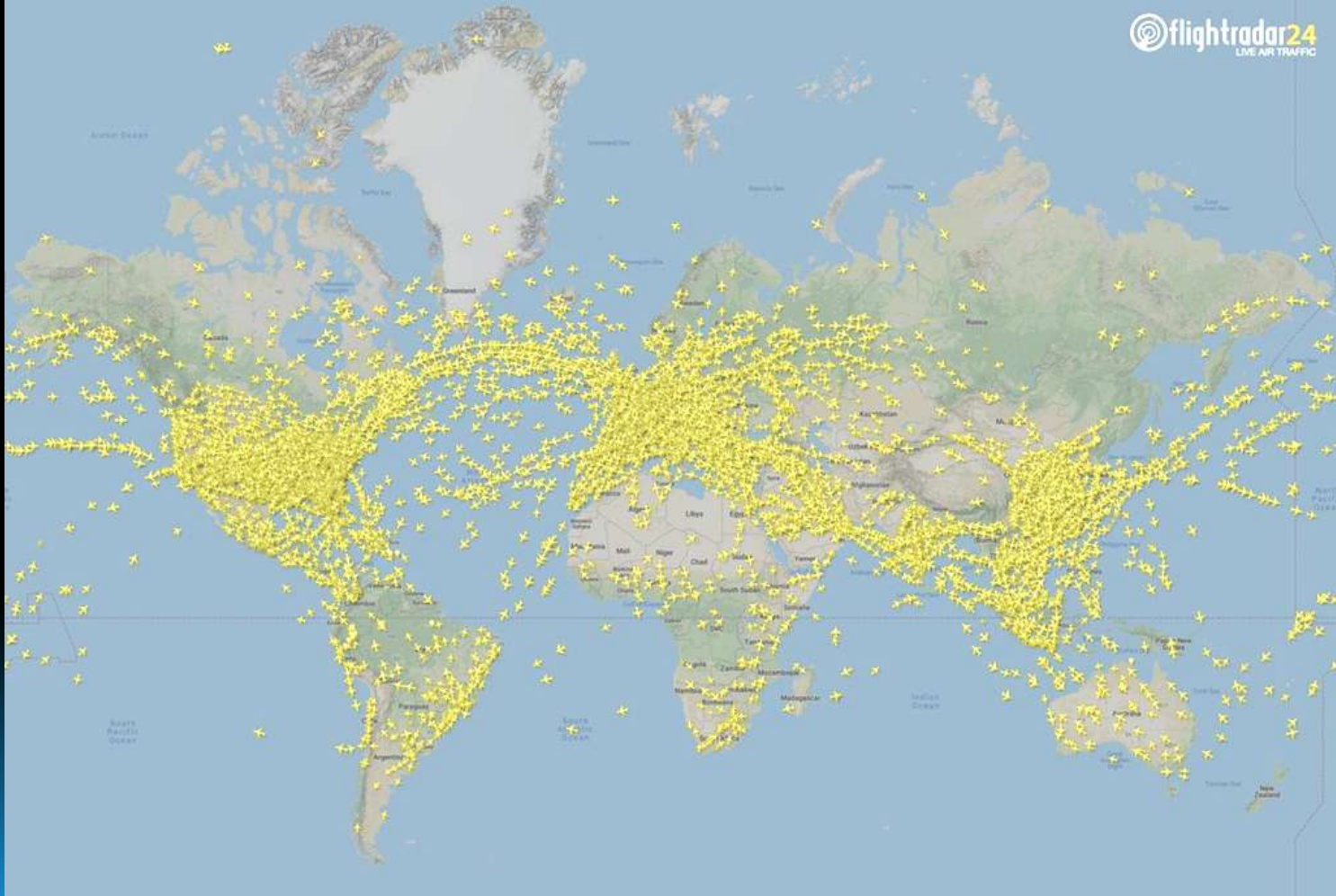
SEEK

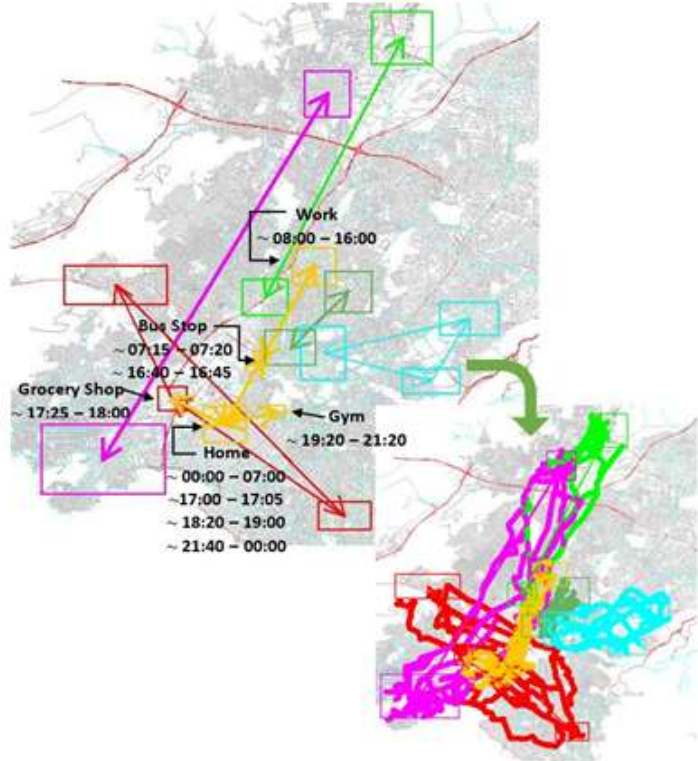
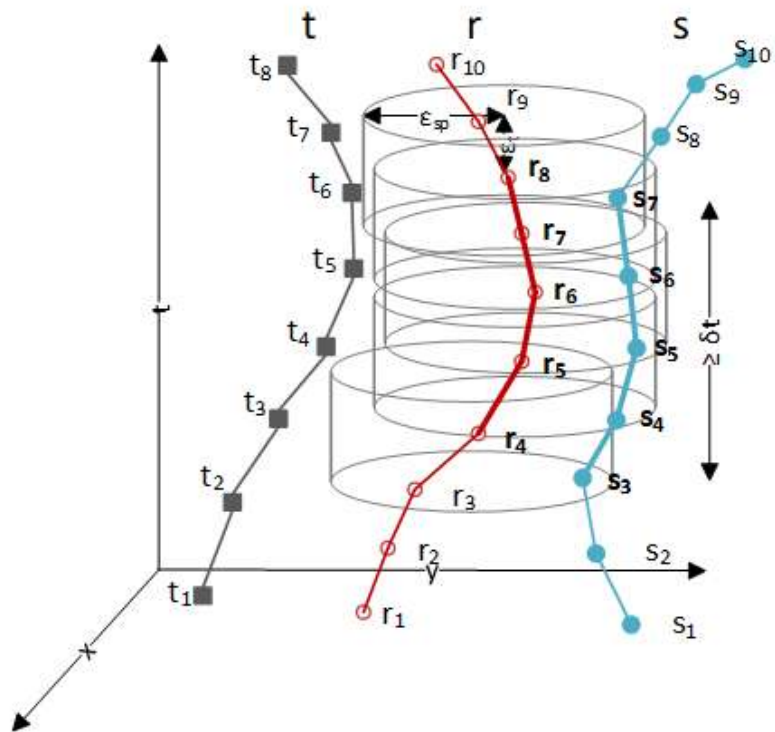
Big (spatial-temporal) data management & query processing

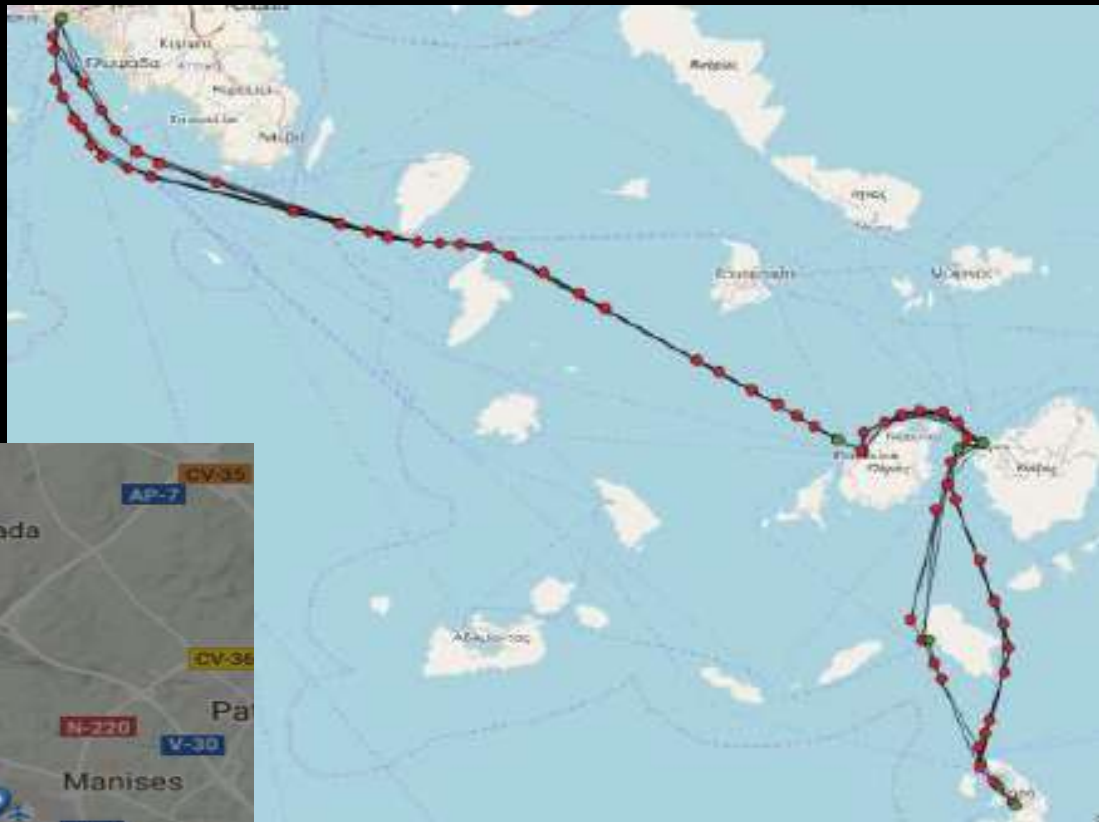
- P. [Tampakis](#) et al. (2018) Distributed trajectory join processing using MapReduce. Submitted.
- C. [Doulkeridis](#) et al. (2017) Parallel and distributed processing of spatial preference queries using keywords. Proceedings of EDBT.
- F. [Gryllakis](#) et al. (2017) Searching for spatio-temporal-keyword patterns in semantic trajectories. Proceedings of IDA.
- M. [Saouk](#) et al. (2016) Efficient processing of top-k joins in MapReduce. Proceedings of Big Data.
- S. Sideridis et al. (2016) On querying and mining semantic-aware mobility timelines. Int. J. Data Science and Analytics, 2(1).
- D. [Pertesis](#) & C. [Doulkeridis](#) (2015) Efficient skyline query processing in SpatialHadoop. Information Systems, 54(C).
- C. [Doulkeridis](#) & K. [Nøravåg](#) (2014) A survey of large-scale analytical query processing in MapReduce. VLDB Journal, 23(3).

Big (spatial-temporal) data analytics & mining

- H. Georgiou et al. (2018) Predicting the next steps of moving objects: a survey. Under preparation.
- H. Georgiou et al. (2018) Semantic-aware aircraft trajectory prediction using flight plans. Submitted.
- G.A. [Vouros](#) et al. (2018) Big data analytics for time critical mobility forecasting: recent progress and research challenges. Proceedings of EDBT.
- N. Pelekis et al. (2017) On temporal-constrained sub-trajectory cluster analysis. Data Mining and Knowledge Discovery, 31(5).
- P. [Nikitopoulos](#) et al. (2016) BigCAB: Distributed hot spot analysis over big spatio-temporal data using Apache Spark (GIS Cup). Proceedings of ACM SIGSPATIAL - GIS.
- N. Pelekis et al. (2016) Simulating our LifeSteps by example. ACM Transactions on Spatial Algorithms and Systems, 2(3).



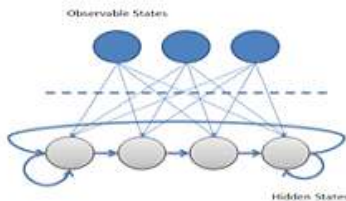




1st Step: Cluster semantically annotated trajectories

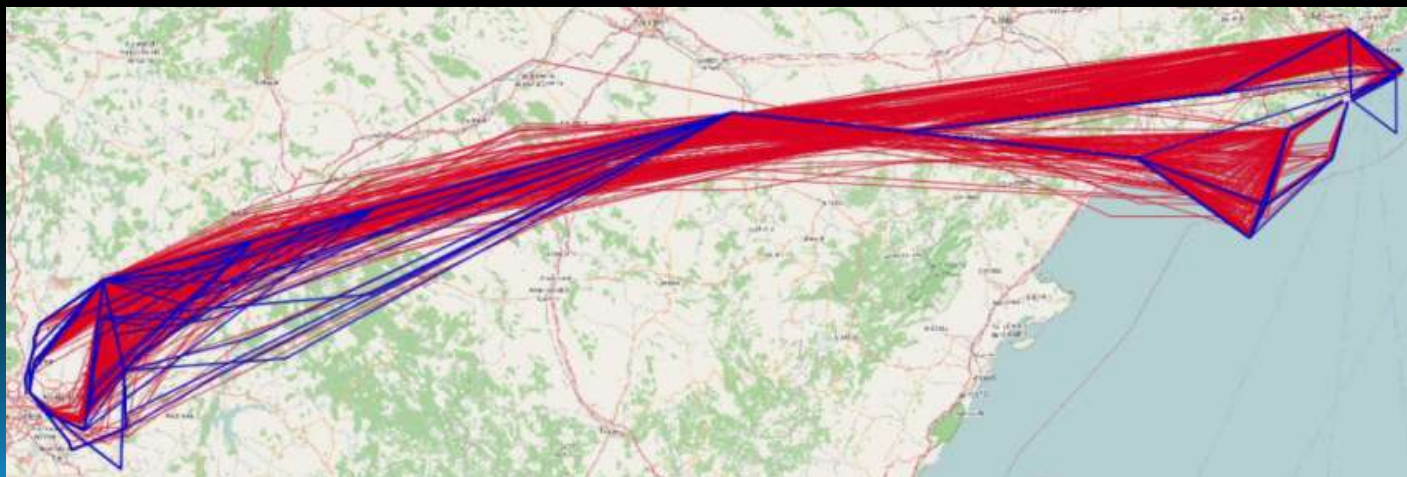


2nd Step: For each cluster, train a HMM

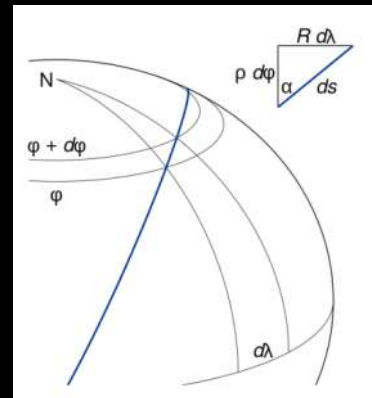
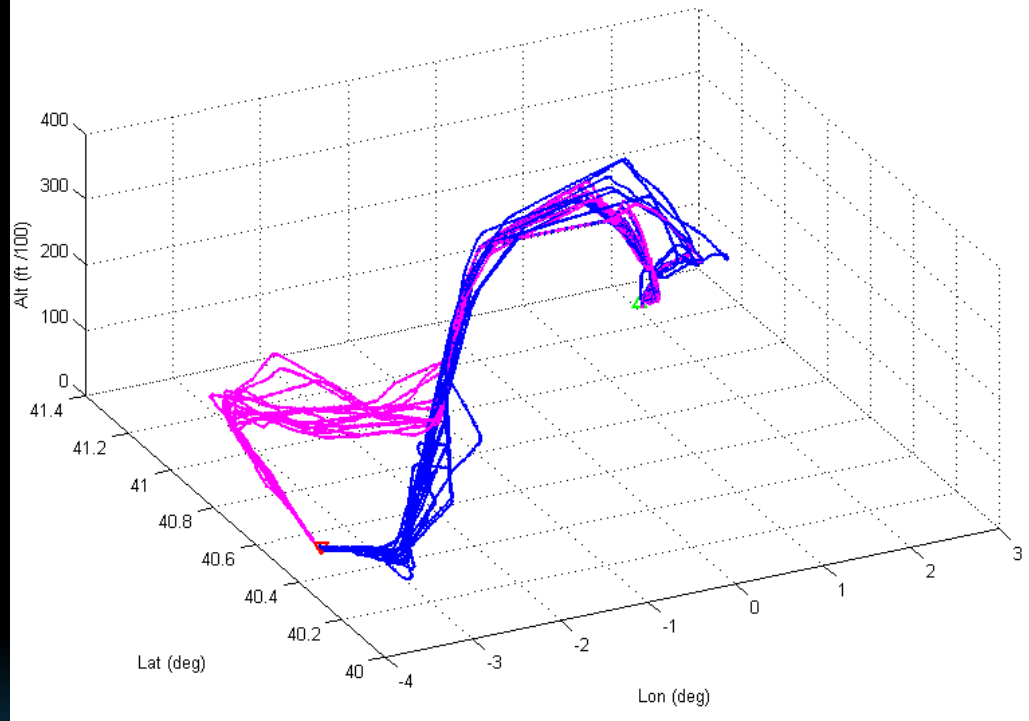


3rd Step: (Filter)
Given a reference trajectory Q find top-k most probable HMM models

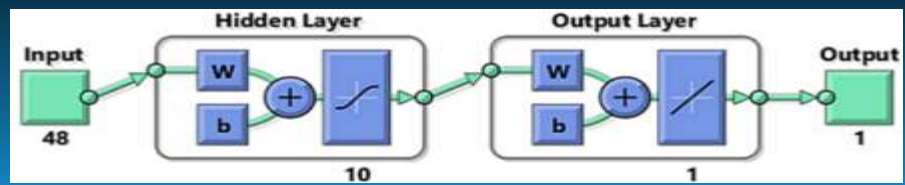
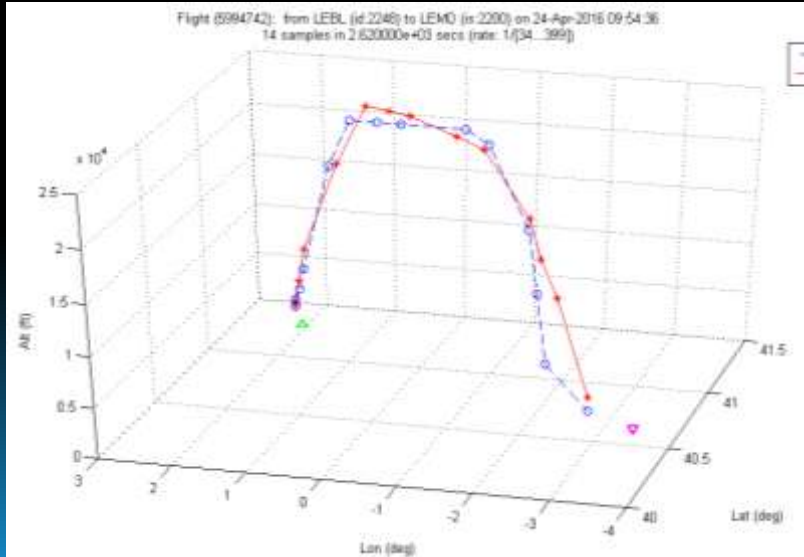
4th Step: (Refine) Similarity search among the trajectories that belong to the top-k HMMs



Traj.Clusters: from BARCELONAVEL PRAT (LEBL) to ADOLFO SUAREZ MADRID/BARAJAS (LEMD)



Fight (5994742): from LEBL (id.2248) to LEMO (is.2200) on 24-Apr-2016 09:54:36
14 samples in 2.630000e+03 secs (rate: 1/(34...399))





Hellenic Informatics Union (HIU)

Ένωση Πληροφορικών Ελλάδας (ΕΠΕ)



- Active since 2000, about 1,000 registered members
- Academic, Education, ICT services & products
- Consulting authorities, state actors, legislators



Hellenic Rescue Team of Attica (HRTA)

Ελληνική Ομάδα Διάσωσης Αττικής (ΕΟΔΑ)

- Independent NGO, 100% volunteers, field-specific & first-aid training, certified experts in various topics & environments
- Active since 2000, part of Civil Protection general plan (when needed)
- emergency response, first-responders, safety, SAR, humanitarian aid
- Close cooperation with state services and official rescue teams (Hellenic Coast Guard, "EMAK" Team - Special Unit for Disaster Response).



LAND SAR: Wilderness, non-urban
(mountain, canyon/river, forest)



WATER SAR: Surface, underwater, shore
(sea, large river, lake)



URBAN SAR: emergency response, disaster relief
(earthquake, flood, fire, large-scale accidents)



Kyekyewere, Ghana – Nov. 2011



Kyekyewere, Ghana – Nov. 2011



Kyekyewere, Ghana – Nov. 2011



Kyekyewere, Ghana – Nov. 2011



Kyekyewere, Ghana – Nov. 2011

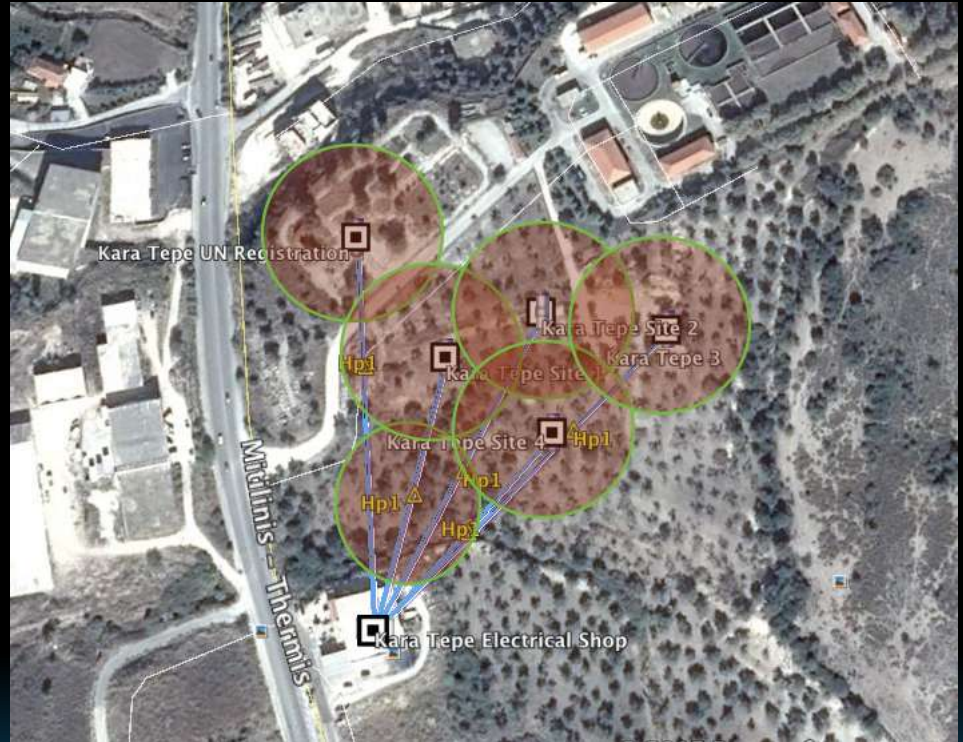


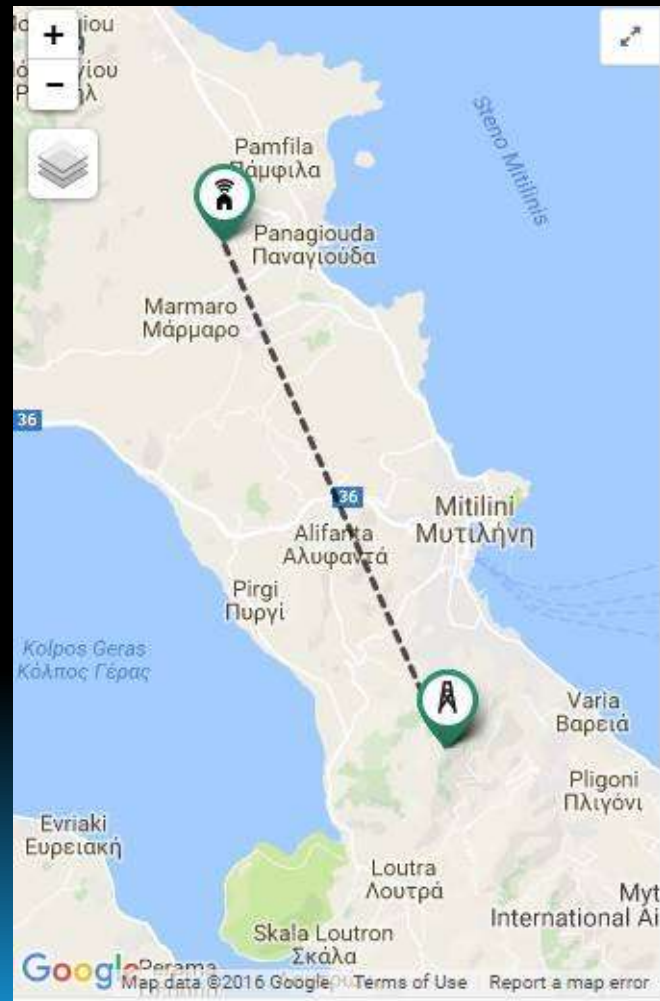
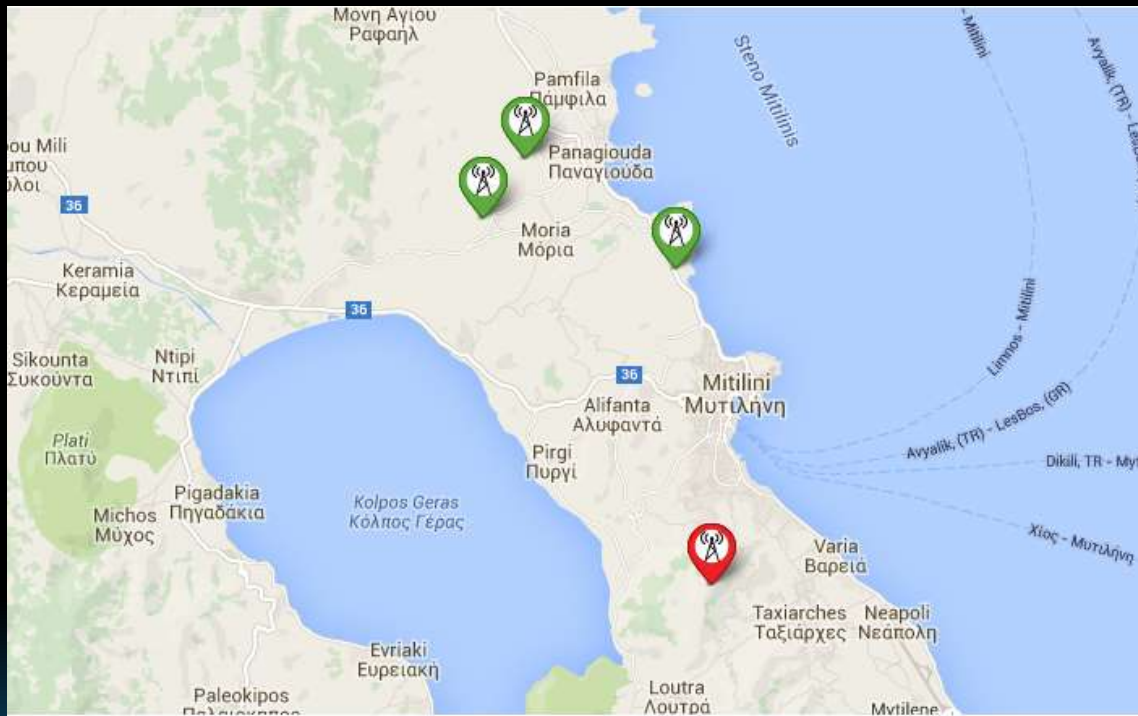














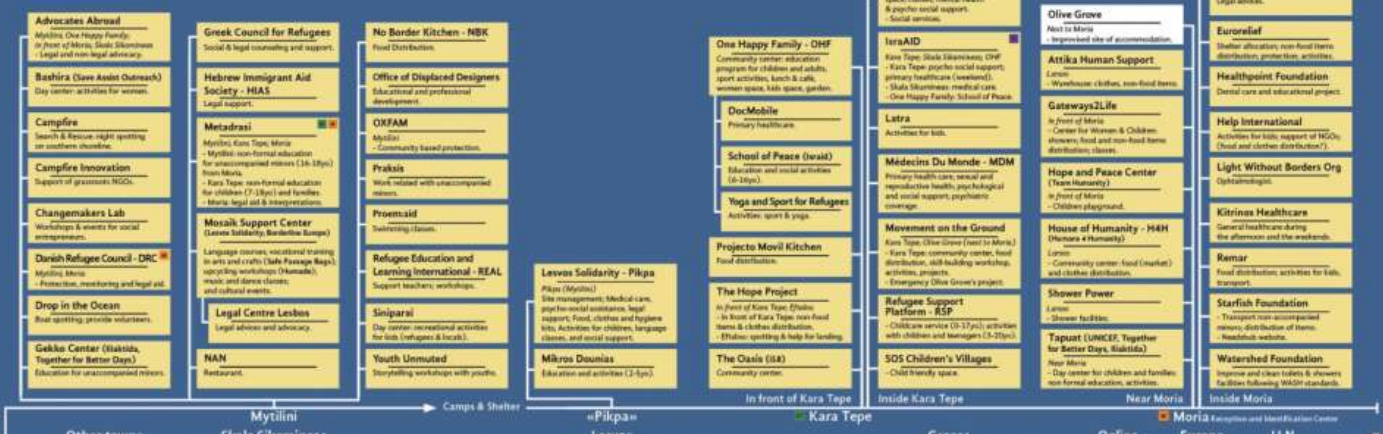






Lesvos 3W map: NGOs and services

06.07.2018 - Who? Where? What?



Advocates Abroad
Mytilini, One Happy Family, in front of Mytilini, Skala Sikamineas
Legal and non-legal advocacy

Bashira (Cave Assist Outreach)
Day center activities for women

Campfire
Search & Rescue, night spotting on southern coastline

Campfire Innovation
Support of grassroots NGOs

Changemakers Lab
Workshops & events for social entrepreneurs

Danish Refugee Council - DRC
Mytilini, Moria
Promotion, monitoring and legal aid

Drop in the Ocean
Boat spotting, provide volunteers

Gekko Center (Gaiatsis, Together for Better Days)
Education for unaccompanied minors

Greek Council for Refugees
Social & legal counselling and support

Hebrew Immigrant Aid Society - HIAS
Legal support

Metadrasi
Mytilini, Kara Tape, Moria
Mytilini: non-formal education for unaccompanied minors (16-18yrs) from Moria
Kara Tape: non-formal education for children (7-10yrs) and families, Moria: legal aid & integration

Mosaic Support Center
(Lefke, Ikalima, Barberio, Europa)
Language courses, vocational training in arts and crafts (Lefke - Parga Bay), sporting workshops (Oikamaki), music and dance classes and cultural events

Legal Centre Lesbos
Legal advice and advocacy

NAN
Restaurant

No Border Kitchen - NBK
Food Distribution

Office of Displaced Designers Society - ODDS
Subcultural and professional development

OXFAM
Mytilini
Continuity based protection

Praktis
Work related with unaccompanied minors

Proemaid
Swimming lessons

Refugee Education and Learning Initiative - REAL
Support teachers, workshops

Sinjipari
Day center: recreational activities for both (refugees & locals)

Youth Unmutad
Storytelling workshops with youth

Lesvos Solidarity - Pika
Pikpa (Mytilini)
Site management, Medical care, legal and social assistance, legal support, Food, clothes and hygiene kits, Activities for children, language classes, and social support

Mikros Doumas
Education and activities (2-5yrs)

Art Bridges
Kara Tape, Moria
Workshops (music, art) for children & families

One Happy Family - OHF
Community center: education programs for children and adults, sport activities, lunch & talk, women space, lab space, garden

DocMobile
Primary healthcare

School of Peace (Leak)
Education and social activities (6-12yrs)

Yoga and Sport for Refugees
Activities: sport & yoga

Projecto Movil Kitchen
Food distribution

The Hope Project
In front of Kara Tape, Greece
In front of Kara Tape, near food bank & clothes distribution
Public opening & help for loading

The Oasis (Sik)
Community center

Because We Carry - BWC
Distribution of foodstuffs, activities

Caritas
Provision of basic needs: food, space, clothes, mental health & psycho social support, Social services

IraAID
Kara Tape, Skala Sikamineas, OHF
Kara Tape: psycho social support, primary healthcare (weekends), Skala Sikamineas: medical care, One Happy Family, School of Peace

Letra
Activities for kids

Midecins Du Monde - MDM
Primary health care, sexual and reproductive health, psychological and social support, psychiatric, emergency Olive Grove's project

Movement on the Ground
Kara Tape, Skala Sikamineas (near Moria)
Kara Tape: community center, food distribution, activities, projects, Emergency Olive Grove's project

Refugee Support Platform - RSP
Childcare services (0-17yrs), activities with children and teenagers (16-20yrs)

SOS Children's Villages
Child-friendly space

Olive Grove
Near to Moria
Improved view of accommodation

Attika Human Support
Lefke
Washhouse, clothes, non-food items

Gateways2Life
In front of Moria
Showers, food and non-food items distribution, clothes

Hope and Peace Center
(Team Humanity)
In front of Moria
Children playground

House of Humanity - HHH
(Phonax & Humanity)
Lefke
Community center: food (meat) and clothes distribution

Shower Power
Lefke
Shower facilities

Tapsuz (UMHCC, Together for Better Days, Ikalima)
Near Moria
Day center for children and families, non-formal education, activities

Boat Refugee Foundation - BRF
Community center (school (8-10yrs) & social facilities, mental health classes & support groups, library, Medical support team, evening club, etc)

European Lawyers in Lesvos
Legal advice

Euro relief
Shelter allocation, non-food items distribution, priority lists, activities

Healthpoint Foundation
Dental care and educational project

Help International
Activities for kids, support of NGOs, food and clothes distribution

Light Without Borders Org
DayHabitat.org

Kirinos Healthcare
Surrounding Moria during the afternoon and the weekends

Remar
Food distribution, activities for both, transport

Starfish Foundation
Transport non-accompanied minors, distribution of items, healthcare website

Watershed Foundation
Hygiene and clean toilets & showers facilities following WHO standards

Borderline-Europe
Mytilini, Ikalima
Mytilini: Mosaic Support Center
Ikalima: search & rescue in north shore, transport assistance, reception center to hold for high number of arrivals

Dirty Girls of Lesvos
Moria
Collect dirty clothes & blankets, industrial cleaning

Home for All
Skala Sikamineas, Mytilini
Skala Sikamineas: restaurant, professional development
Mytilini: Home 3 restaurant

Mare Liberum
Skala Lefkes
Boat, monitoring operations

Pantostechion
Miyeni, Malampara

Refugee4Refugees - R4R
Parangali
Boat spotting, beach cleaning, activities, football, swimming classes, road prevention

Lighthouse Relief - LHR
Skala Sikamineas
Search and Rescue: spotting, landing, non-food items distribution in Stage 2, Search clothes

Refugee Rescue - RR
Miyeni, Kara Tape, Moria
Miyeni: lessons, in need of places on Lesvos

Stage 2 - Transition camp
Site management, UMHCC and IBC, Camp for North shore new arrivals

2 Helping Hands
Independent volunteers

Connect by Music
Mytilini, Kara Tape, Moria
Miyeni: lessons, in need of places on Lesvos

Emergency Response Centre International - ERICI
Lesvos, Kara Tape, Moria
Mytilini: search & rescue on southern shore and at sea
Kara Tape: informed search for children (Lefkes/Leak), washing service, medical clinic, Moria: day/night medical clinic

Hikastida
Lesvos, Moria
Planning and production support
Tapsuz, Gekko, U-Care: recreational activities for women and children

Independent volunteers

International Federation of Red Cross and Red Crescent Societies - IFRC
Mytilini, Kara Tape, One Happy Family, Helios, Red Cross, Dark Red Cross, Olive Grove, activities

International Rescue Committee - IRC
Mytilini, Kara Tape, Skala Sikamineas
Mytilini: Mental health & psycho social support for cases from Moria
Kara Tape: site management, support, WHOT program, food distribution monitoring, communication, transportation
Skala Sikamineas (Stage 2): maintaining, clothing, security

Low-tech Lab
Mytilini
Workshops for low-tech solutions

Midecins Sans Frontières - MSF
Mytilini, in front of Moria
MSF: a clinic, mental health & psychiatric issues
Moria: paediatric & sexual reproductive health, general therapy

The Smile of the Child
- Adaptation for Greek and refugees minor children at risk

Together for Better Days
- Support of independent projects
Big Tapsuz centre near Moria, Gekko High School in Mytilini

EKAB
National Centre of Direct Assistance

Groups & Associations

Improvised accommodation

Municipality of Lesvos
Site management of Kara Tape

University of Aegean
refugees@university.aegean.gr

Vostatio
Hospital of Mytilini
+90225103700

DOY
Greek tax authority offices
- To get AFM (tax number)

IKA
Institute for Social Insurance, PEDY Medical Clinic in Mytilini

Kelepon
Public center for health
- in Moria

KEP
Citizen Service Center
- To get AMKA (social insurance #)

Greek Ombudsman
The Citizen's Advocate of Greece
- Independent authority

Hellenic Police

Ministry of National Defense

Hellenic Army
Owner of the field of Moria
- Moria: food distribution, security

HCG
Hellenic Coast Guards

OAED
Hellenic Manpower Employment Organization

Are You Syrian?
Online media operating from Zagreb

Greecelifeinfo
Online database and forum

Information Point for Volunteers - UMHCC
Mytilini, Kara Tape, Moria, Stage 2
Lefke: protection line (LHR) protection, response to sexual and Gender Based Violence, refugees, legal aid, identification & referral gateway), cash assistance, shelter, transportation
- Kara Tape: food distribution, Site Management Support
- Skala Sikamineas: site management of Stage 2
- EFTA accommodation

Refugium
Online legal information

Refugee.info
Website & app: list of services and information

Tarjily
Online community of translators

Watch the Med
Also replace for local rescue
+354 66 11 71 61

International Organization for Migration - IOM
U-Care activities for unaccompanied children (with backpack)

United Nations High Commissioner for Refugees - UNHCR
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EASO
European Asylum Service Office
- Supporting GAS office

EuroPol
European Police Office

EuroJust
European Judicial Judicial Cooperation Unit

Frontex
European Border and Coast Guard Agency

Polvo 188 - Non Polvo: 188 - Amalantos: 144 - Rio Kiklades: 118
Division of Police and Coast Guard in Greece
Polvo 188: 188 - Non Polvo: 188 - Amalantos: 144 - Rio Kiklades: 118
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Amalantos: 144 - Rio Kiklades: 118 - Non Polvo: 188 - Non Polvo: 188
The work is based on data collected by the NGOs and services in the field, map created in a GIS application on 06.07.2018. Information is not verified.

RIC
Registration and Identification Center
- Site management of Moria

RAD
Regional Asylum Office
in Mytilini

RIS
Registration and Identification Service
National Service

GAS
Greek Asylum Service
- National service

Ministry of Migration Policy
mip.gov.gr

Secretariat General for the Aegean and Island Policy

Ministry of National Defense

Hellenic Army

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Hellenic Coast Guards

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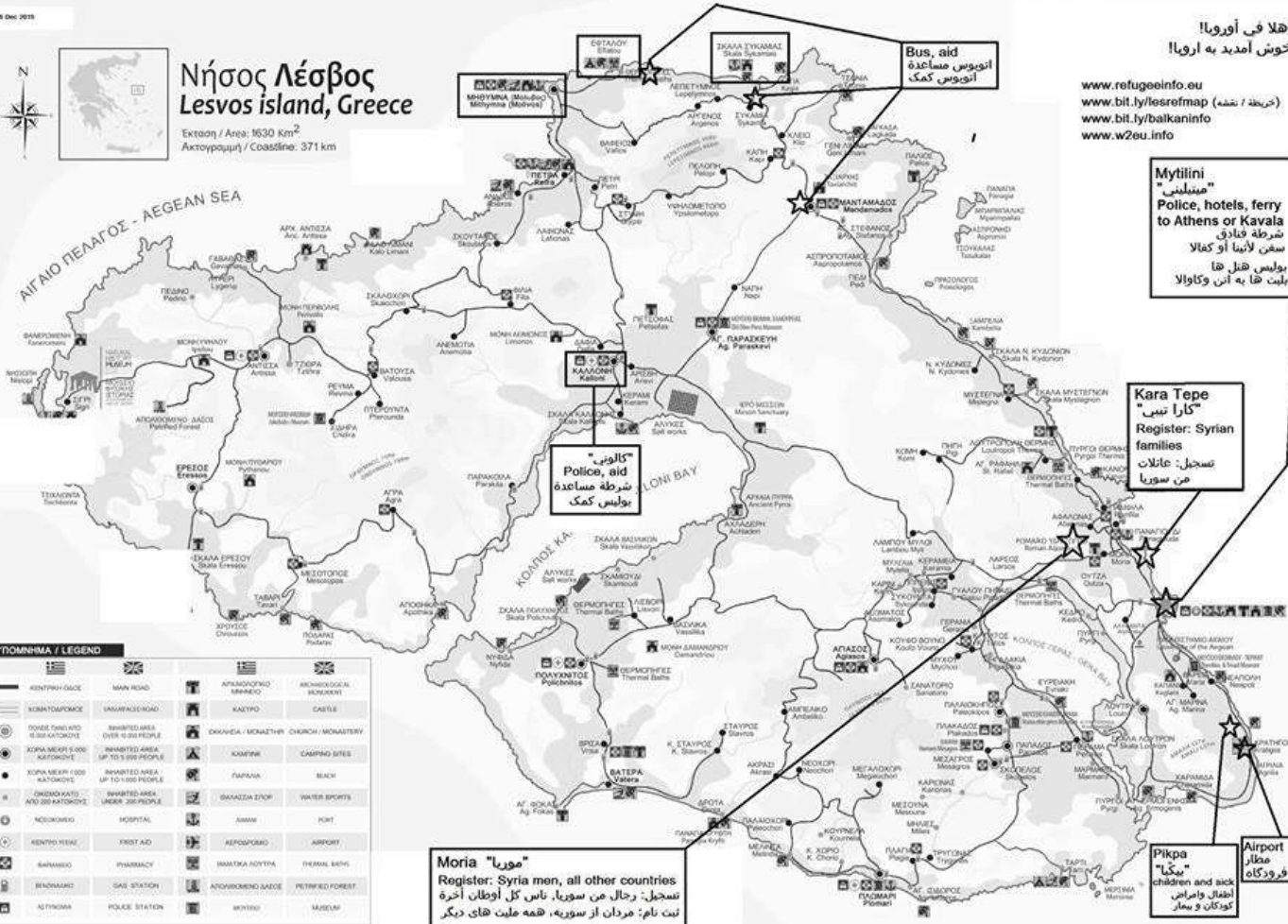
Frontex
European Border and Coast Guard Agency



Νήσος Λέσβος Lesvos island, Greece

Εκταση / Area: 1630 km²
Ακτογραμμή / Coastline: 371 km

ΑΙΓΑΙΟ ΠΕΛΑΓΟΣ - AEGEAN SEA



أهلا في أوروبا!
خوش آمدید به اروپا!

www.refugeinfo.eu
www.bit.ly/lesosmap (نقشه / نقشه)
www.bit.ly/balkaninfo
www.w2eu.info

Mytilini
"میتیلینی"
Police, hotels, ferry
to Athens or Kavala
شرطه فایوق
سفن لاینیا او کفالا
پولیس هتل ها
بلیت ها به آتن و کاولا

Kara Tepe
"کارا تپه"
Register: Syrian
families
تسجيل: عائلات
من سوريا

کالامیا
Police, aid
شرطه مساعده
پولیس کمک

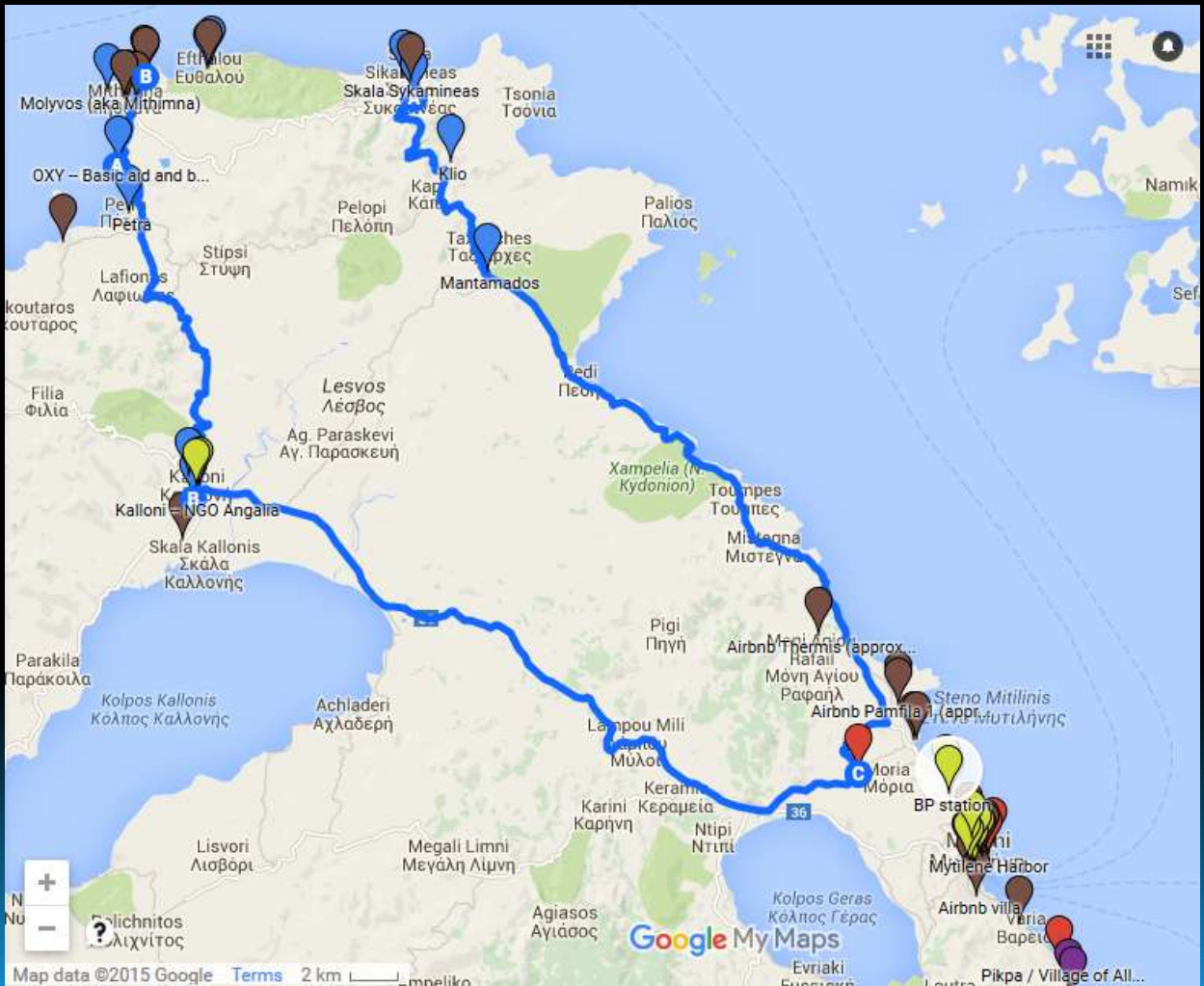
اتھوس مساعده
کمک
اتھوس کمک

موریا
Register: Syria men, all other countries
تسجيل: رجال من سوريا، ناس كل اوطان اخرة
نیت نام: مردان از سوریه، همه ملیت های دیگر

Pikpa
بیکپا
Infant and sick
children and
تودکان و بیمار
کودکان و بیمار

Airport
مطار
فرودگاه

ΥΠΟΜΗΜΑ / LEGEND			
	ΚΕΝΤΡΙΧΗ ΟΔΟΣ / MAIN ROAD		ΑΡΧΑΙΟΛΟΓΙΚΟ ΜΝΗΜΕΙΟ / ARCHAEOLOGICAL MONUMENT
	ΚΟΜΜΑΤΟΡΧΟΣ / UNSURFACED ROAD		ΚΑΣΤΡΟ / CASTLE
	ΟΡΙΣΤΕ ΠΛΗΘΟΣ ΟΥΧΕΡ 600 ΠΕΡΣΟΝΕΣ / REPORTED AREA OVER 600 PEOPLE		ΕΚΚΛΗΣΙΑ / ΜΟΝΑΣΤΗΡΙΟ / CHURCH / MONASTERY
	ΚΟΡΑ ΜΕΧΡΙ 5000 ΑΝΘΡΩΠΩΝ / REPORTED AREA UP TO 5000 PEOPLE		ΚΑΜΠΙΝΓΚ / CAMPING SITE
	ΚΟΡΑ ΜΕΧΡΙ 1000 ΑΝΘΡΩΠΩΝ / REPORTED AREA UP TO 1000 PEOPLE		ΠΑΡΚΟΣ / PARK
	ΣΠΙΝΔΟΚΑΤΙ ΑΥΤΟ 200 ΑΝΘΡΩΠΩΝ / REPORTED AREA UNDER 200 PEOPLE		ΘΑΛΑΣΣΙΑ ΣΠΟΡΑ / WATER SPORTS
	ΝΕΚΡΟΚΟΣΜΟ / HOSPITAL		ΠΛΩΜΑ / PORT
	ΚΕΝΤΡΙΟ ΨΕΥΔ / FIRST AID		ΑΕΡΟΠΟΡΤΟ / AIRPORT
	ΦΑΡΜΑΚΕΙΟ / PHARMACY		ΜΑΥΣΙΝΑ ΑΟΥΤΑ / DESALINATION PLANT
	ΒΕΝΖΙΝΑΚΙΟ / GAS STATION		ΑΝΘΡΩΠΩΝΟ ΛΑΙΣΟ / PETRIFIED FOREST
	ΑΣΤΥΝΟΜΙΑ / POLICE STATION		ΜΟΥΣΕΟ / MUSEUM





SAHANA

Disaster Management System

Incident: Tunisia

CAMPS REGISTRY

- Home
- Search
- Add Camp
- Edit Camp
- Reports
 - View All Camps
 - View By Location
 - View Admin Details
- Location Map

SAHANA MAIN

- Sahana Home
- Missing Person Registry
- Organization Registry
- Camps Registry
- Inventory Management
- Request/Aid Management
- Volunteer Coordination
- Catalogue System
- Situation Mapping
- User Preferences
- Administration

Situation Mapping

GIS Map of Camps





Incident Details

Name: Mudslide at St. Louis
 Incident Type: Landslide
 Incident Commander: Madagascar Fody
 Scenario: (3c)
 Location: Trois Feres Mountain, Bel Air, Seychelles
 Comments:
 Date: 2018-03-15 21:35

[Incident Details](#) [Action Plan](#) [Incident Reports](#)

[Add Task](#)

Tasks (1)

Search: Show entries

	Priority	Short Description	Status
Open Delete	Normal	Identify and share search area	New
Open Delete	Normal	Report number of missing persons	New

(2a)

[Add Person](#)

Personnel

Search: Show entries

	(3a) Position
Open Delete	Incident Commander
Open Delete	Search Dog
Open Delete	Search Dog
Open Delete	Emergency Medical Technician
Open Delete	Emergency Medical Technician
Open Delete	Mining Technician
Open Delete	Mining Technician

(2b)

[Add Equipment](#)

Equipment

Search: Show entries

	(3b) Item Type
Open Delete	Digging equipment
Open Delete	Digging equipment
Open Delete	Scanning device
Open Delete	Scanning device
Open Delete	Robot
Open Delete	Robot

Sahana4Greece

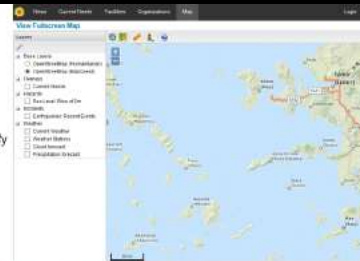
The virtual Emergency Operations Center for logistics, support & coordination of the refugee response/relief teams

Sahana, the award-winning, free-for-all (FOSS) web platform is being deployed in Greece for the **refugee crisis**. **Everyone** can help, as a worker on the ground or from the other side of the world. Find out how you can **get involved, today**.



How Does Sahana Help?

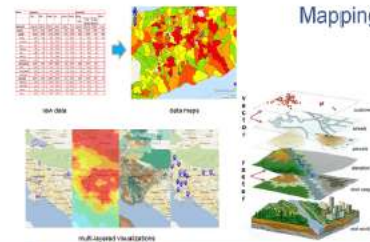
- Directory of organizations, offices and people to support communication and coordination
- Incident management sharing real-time information
- Who's Doing What Where (3W) information to identify where there are gaps and overlaps
- Records what resources are available and where to support disaster
- Brings all information together in a single platform to provide situational awareness.



Sahana Features

- | | |
|-------------------|------------------|
| •Organizations | •Incidents |
| •Human Resources | •Warehouses |
| •Projects | •Shelters |
| •Demographic Data | •Assets |
| •Assessments | •Requests |
| •Risks | •Donations |
| •Messaging | •Missing Persons |

Mapping



Sahana4Greece:

Main portal (entry point):
<http://refugees.sahana.io>

Team coordinators are encouraged to register (free) and get involved in data management & operations.

<http://www.epe.org.gr>

<http://sahanafoundation.org>

<http://sahana.ict4dascgr.eu>

Get involved:

Submit data/questions/feedback:
Email: sahana@ict4dascgr.eu

- Twitter (hashtag): #Sahana4Greece
- Facebook (page): "ICT4dascgr"
- Feel free to ask for a full presskit.



Points of Interest

Announcements

Chios prometheus.online
April 14th 2016, 9:23:22 pm

Last Update: 9 hours ago

22 Announcements

- Vol Station now open
- Chios Tower Port spot Re-open
- Tybakka is now OPEN
- ack@chios.prometheus.online - Web master email
- Volunteers in Skiois
- Please share with prometheus.online to other Volunteers

22.0 °C | clear sky

Spot	Need	Hours	Volunteers Needed
Chios	Tea Distribution	08:00-12:00	2
Chios	Food Distribution	08:00-12:00	3
Chios	Support to food and tea distribution	08:00-12:00	3
Skiois	Tea Distribution	08:00-12:00	2
Skiois	Food Distribution	08:00-12:00	2
Skiois	Support to food and tea distribution	08:00-12:00	2

Need per Spot

Weather Conditions

<http://chios.prometheus.online/>



<https://github.com/kickapoo/prometheus>

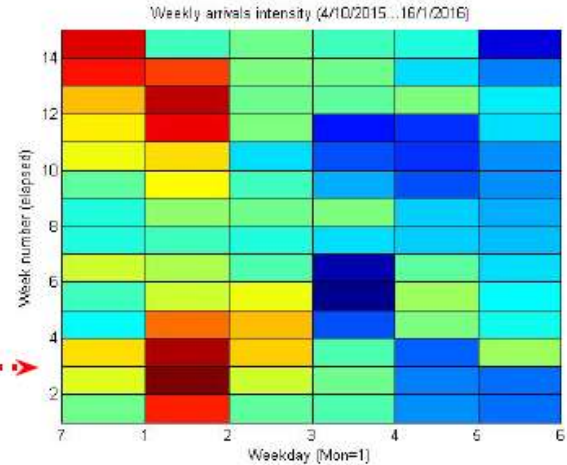
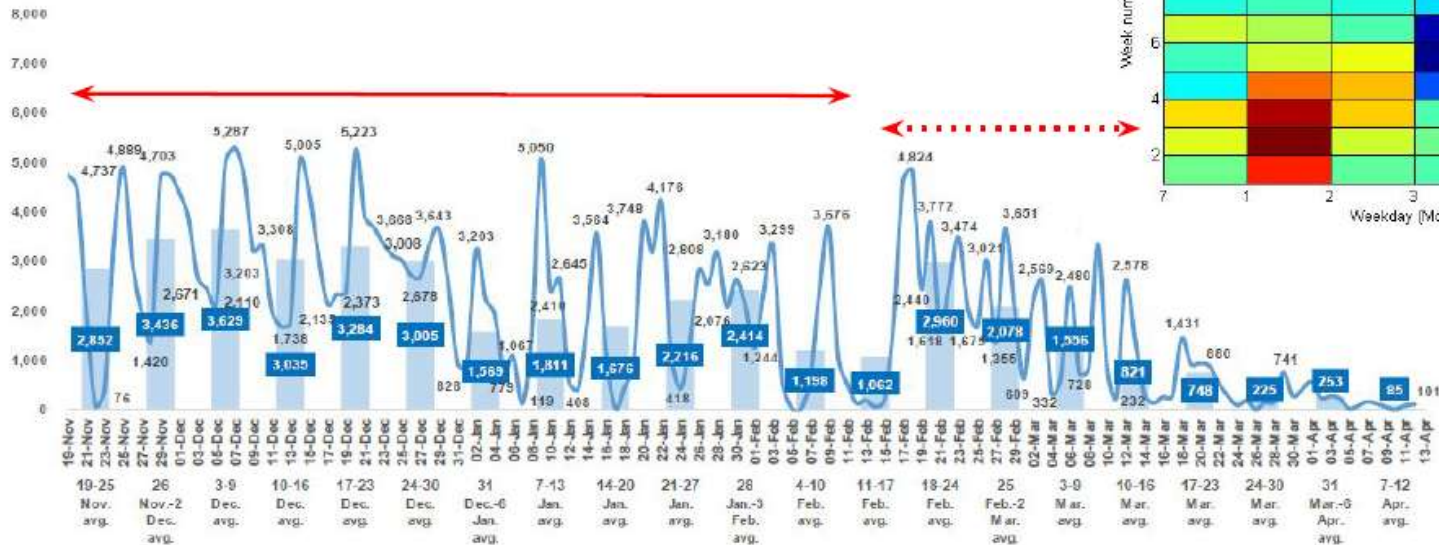


FOSSCOMM 2016

Daily influx analysis: 1-D, 2-D (weekly)

- Models for identification & forecasting

Greece



<https://github.com/kickapoo/prometheus>

* Ref: "Identification of refugee influx patterns in Greece via model-theoretic analysis of daily arrivals" (Harris Georgiou @ Arxiv.org & SafeEvros 2016)



Wind models and cross-site interpolation for the refugee reception islands in Greece

Harris V. Georgiou (MSc, PhD)

Part 1: Time frame Oct.2015 – Jan.2016

Last updated: 25-July-2017

Abstract—In this study, the wind data series from five locations in Aegean Sea islands, the most active “hotspots” in terms of refugee influx during the Oct2015 – Jan2016 period, are investigated. The analysis of the three-per-ohr data series includes standard statistical analysis and parametric distributions, autocorrelation analysis, cross-correlation analysis between the sites, as well as various ARMA models for estimating the feasibility and accuracy of such spatio-temporal linear regressors for predictive analytics. Strong correlations are detected across specific sites and appropriately trained ARMA(7,5) models achieve 1-day ahead error (RMSE) of less than 1.9 km/h on average wind speed. The results show that such data-driven statistical approaches are extremely useful in identifying unexpected and sometimes counter-intuitive associations between the available spatial data nodes, which is very important when designing corresponding models for short-term forecasting of sea condition, especially average wave height and direction, which is in fact what defines the associated weather risk of crossing these passages in refugee influx patterns.

Index Terms—weather analytics, predictive modeling, correlation analysis, ARMA, refugee influx forecasting

I. INTRODUCTION

DURING the months between October 2015 and March 2016, Greece has witnessed an unprecedented influx of refugees across the sea borders with Turkey. Tens or even hundreds of boats, each carrying 50 people or more, were landing on a daily basis throughout the Greek islands that are closest to the Turkish coastline. One of the most important factors in forecasting the influx rate within a short time frame of 24-48 hours is the weather conditions in these sea passages, specifically wind intensity and direction, as these are directly associated with the severity of sea condition and, hence, the danger involved in the crossing. The most lethal events of boats capsizing and sinking happened mostly in days and nights when winds were growing in power or shortly after steady strong winds had already produced high waves in these areas.

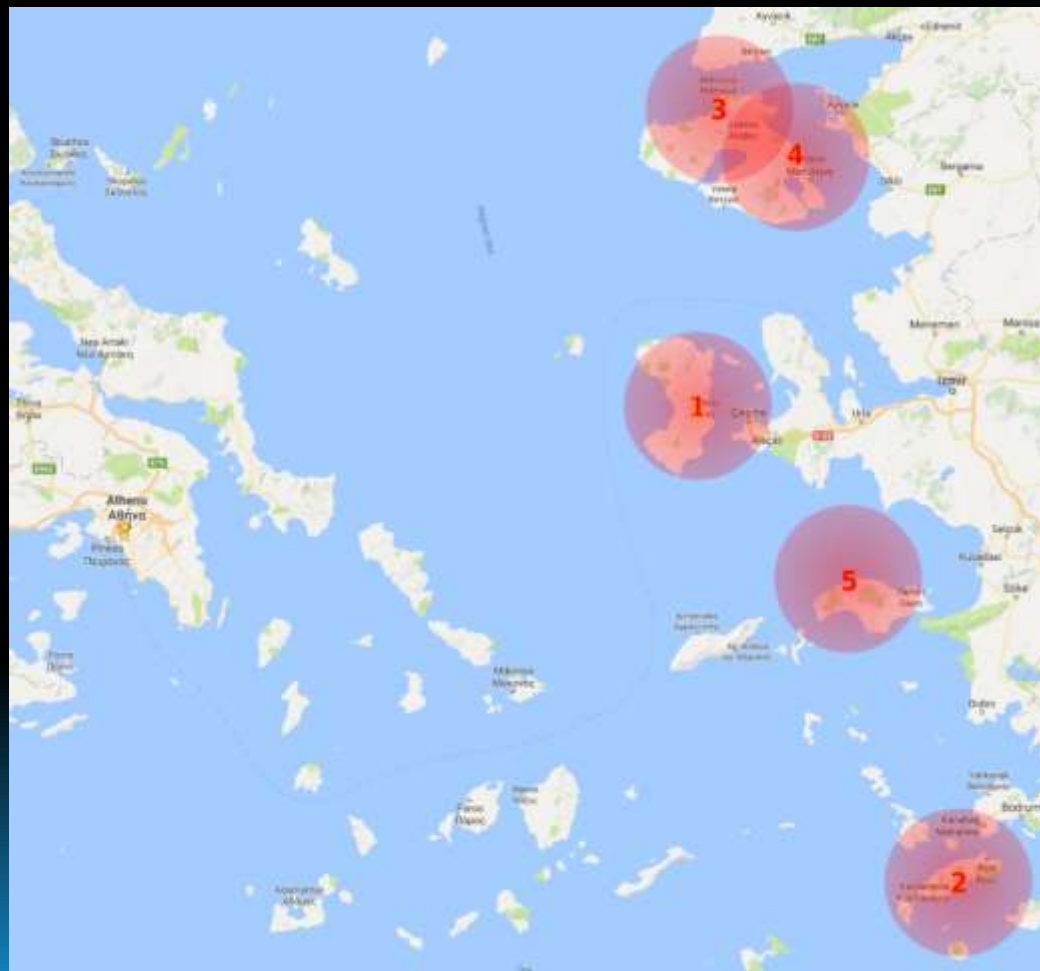
Unfortunately, weather conditions is only one of the factors affecting the forecasting of influx rates. Compared to longer trips, e.g. between Libya and Italy, the case of Greece involves a relatively short trip of 5-7 n.m. and a couple of hours at most, for a fully loaded boat and working engine. This means that even in bad weather, some groups of refugees

dared to come across (sometimes forced to by the smugglers) even in very risky conditions. The result was 3,771 registered deaths and many more missing from hundreds of capsizing and sinking events during 2015 alone. According to the United Nations High Commissioner for Refugees (UNHCR) [1], the International Organization for Migration (IOM) [2] and the Medecins Sans Frontières (MSF) [3], during the year 2015 alone, more than a million people reached Europe from Turkey and North Africa, seeking safety and asylum.

In order to better organize Search & Rescue (SAR) sea operations and logistical support for the humanitarian relief teams at the first reception islands, it is crucial that some level of influx forecasting is available. Indeed, previous works have shown that this is a realistic goal that can be addressed with data-driven methods in the short-term [4], [5], [6], regardless of the more general factors and political decisions that affect the refugee flows in the long-term. Hence, it is extremely important to have appropriate tools for up-to-date weather forecasting that uses local sources and weather stations, specifically for wind speed and direction at these sea passages. The idea is to have these forecasts available as inputs for the influx prediction modules, together with proper time-series analysis on both the weather data as well as the influx data itself.

It should be noted that the alternative of using full weather data from sources like the Greek Meteorological Service (EMY) or NOAA is good for postmortem analysis and training datasets but inappropriate in actual deployment mode for three main reasons: (a) these data are usually massive, small mobile devices cannot parse them, (b) they require reliable Internet access for large downloads, (c) they are available only as forecasts 3-6 hours beforehand, instead of processing real-time data from local weather stations. Therefore, having simple prediction models for winds that can run fast and offline is extremely useful if they are to be deployed in actual SAR operations.

In this study, five areas of first-reception refugee influx “hotspots” is used as the baseline for simple predictive modeling in the Aegean Sea. More specifically, local weather stations in the islands of Lesbos (Petra and Thessalon), Chios, Samos and Kos, the five most active sea passages and landing areas during the specific high-peak period, are used as input data for analyzing the statistics of winds (average speed, gust, direction). Furthermore, these five input sources are used in designing simple linear regressors for covering other intermediate areas of interest via cross-site interpolation. Experimental results are presented separately for each location, as well as



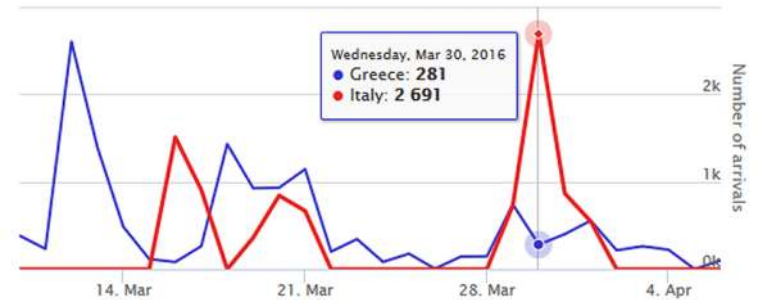
Harris Georgiou is an associate postdoc researcher with the Data Science Lab (DASLab) School of Informatics & Communications Technology (ICT), University of Piraeus (UNIP), Greece.

Arrival data refers to sea arrivals 3/4/16



More than 8,000 refugees arrived in Europe in the week after the EU-Turkey deal

Source: International Organisation for Migration

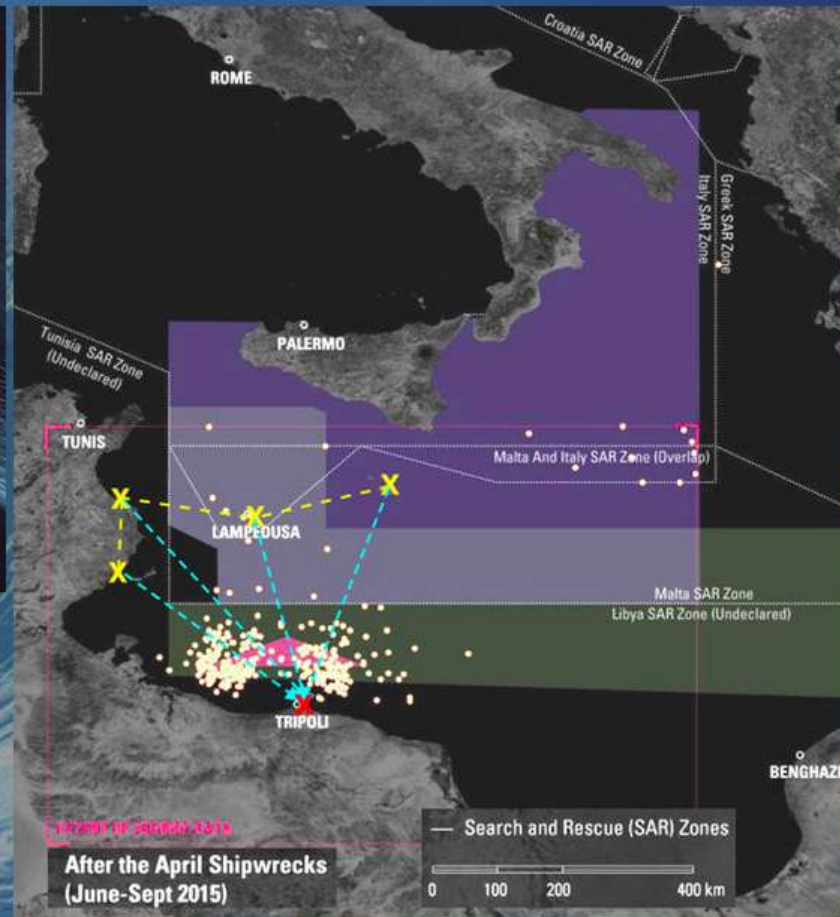




Libya-Italy crossing, present day (Photo: 'Aquarius' crew)

24-hour SAR patrols, NGO ships outside Libyan waters

⇒ Most shipwrecks go unnoticed, difficult to guess and access possible locations due to vast area, *inaccurate weather/boats data* and aggressive Libyan gunboats.



Summary:

- ✓ refugee influx patterns closely match 'output' from store-and-forward networks (smugglers)
- ✓ periodic 'bursts' (24-48 hours) and 'pauses' (3-4 days), major period is almost weekly
- ✓ the Sunday/Monday 48-hour window exhibits consistent peak in arrivals
- ✓ statistical/spectral models can provide short-term influx forecasting (ARMA, order < 21 days)
- ✓ matrix factorization techniques can provide weekly trends (SVD, PPCA, ICA, etc)

Future enhancements:

- take into account weather elements (wind intensity, sea condition) as 'input' in the models
- make localized data/models available, i.e., per-island (Lesvos is 75-80% of total influx)
- implement & deploy within a logistics web platform (Prometheus), link with live data feeds
- establish 3-4 alert levels for predictive modeling, use as proactive tool (early warning)
- create a second pilot analysis for refugee influx in the central Med. passage (to Italy)



10,00 x 5,63 in



"Refugee influx analysis for 'smart' early-warning system for rescue/relief operations (...)"
Hellenic Informatics Union / ICT4dascgr -- SafeEvros 2016 @ Alexandroupolis, 25/6/2016

Further information:

- #Sahana4Greece – <http://sahana.ict4dascgr.eu>
- Prometheus – <http://chios.prometheus.online>
- Sahana Central (Europe) – <http://refugees.sahana.io/>
- ICT4dascgr (team) – <http://www.ict4dascgr.eu>
- Hellenic Informatics Union (HIU) – <http://www.epe.org.gr>

References:

- H. Georgiou, "Identification of refugee influx patterns in Greece via model-theoretic analysis of daily arrivals", arXiv preprint (en)(arXiv:1605.02784 [stat.ML]) – <http://arxiv.org/abs/1605.02784>
- S. Anastasiadis, H. Georgiou, "Prometheus: The 'virtual' Emergency Operations Center for Chios & refugee influx data analytics", 2015 Free & Open-Source Software Communities Meeting (FOSSCOMM 2016), 16-17 Apr 2016 @ Athens.
- H. Georgiou, "#Sahana4Greece: A crowd-sourced 'virtual' EOC for supporting the rescue & relief operations in Greece for the refugees", 2015 Free & Open-Source Software Communities Meeting (FOSSCOMM 2015), 6-8 Nov 2015 @ Athens.

Sahana4Greece
The virtual Emergency Operations Center for analysis, support & coordination of the refugee responses/relief tasks

How Does Sahana Help?

- Enabling of independent offices and teams in Greece to coordinate and coordinate
- System management during task-based information
- Alerts being the at the time (SMS) to mobile devices (SMS) to get and control
- Mobile chat services in multiple languages to support multi
- User interface supports in large numbers to track situation updates

Sahana Features

- Operations
- Human Resources
- Analytics
- Change project Data
- Alerts/Events
- Mobile
- Messaging
- Broken
- Feedback
- Alerts
- Playlists
- Operations
- Messaging

Sahana4Greece:

Main portal (entry point): <http://refugees.sahana.io>

Team coordinators are encouraged to register their and get involved in data management & operations.

Get involved:

- Submit suggestions/feedback: Email: sahana@ict4dascgr.eu
- Twitter (@sah4g): @sahana4dasc
- Facebook Group: "ICT4dascgr"
- Feel free to ask for a full present.

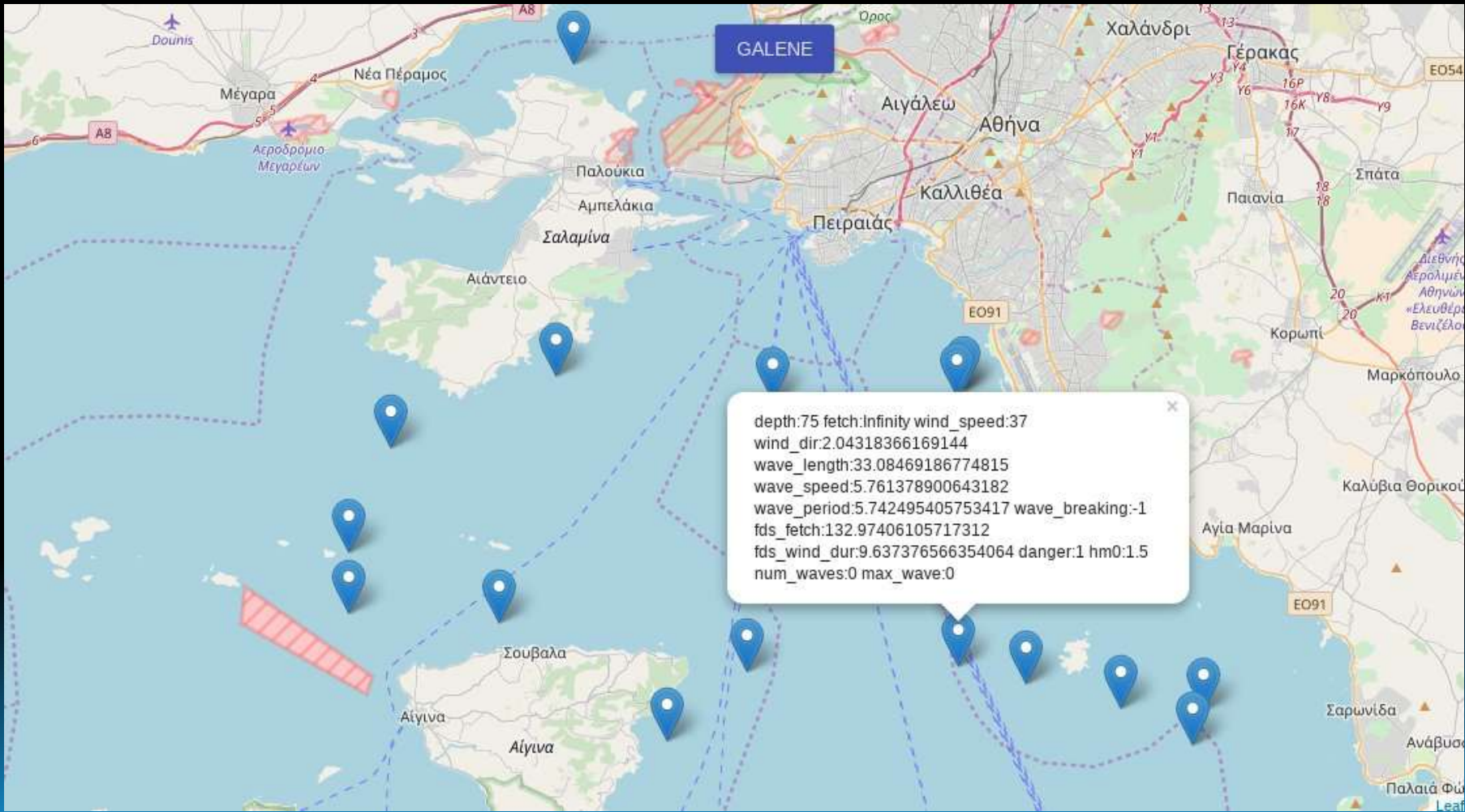
Logos: ICT4DASC, SAHANA, 4dasc

Galene

Online prediction of sea state and risk assessment
for small boats as a lightweight web SaaS



Skala Sykamneas, Lesbos, Greece (locals: 140)
 (2015): 540,000-550,000 people landed there
 1:5 rescued from the sea, 1:214 dead/missing



GALENE

depth:75 fetch:Infinity wind_speed:37
wind_dir:2.04318366169144
wave_length:33.08469186774815
wave_speed:5.761378900643182
wave_period:5.742495405753417 wave_breaking:-1
fds_fetch:132.97406105717312
fds_wind_dur:9.637376566354064 danger:1 hm0:1.5
num_waves:0 max_wave:0













Smart Toolbox for Engaging Citizens into a People-Centric Observation Web

The Scent smart toolbox consists of a crowdsourcing platform which will be used to collect images and text from citizens. This will extend the in-situ infrastructure to augment, complement and update current land-cover maps.



Coupled with this platform is the Scent intelligence engine which will utilise innovative machine learning to classify and annotate images and text sourced from citizens and existing open platforms. In addition, serious gaming applications are being developed to annotate unutilised images from such platforms (e.g. Flickr) as complementary data sources to quantify the impact of land-cover and land-use changes in the context of flood risk prediction.

PILOT STUDIES

The project will test and validate the Scent toolbox in two large scale pilots, the urban case of the Kifissos river in Attica, Greece and the rural case of Danube Delta in Romania. The anticipated people-centric observation web will be OGC-compliant and will serve as a valuable resource to GEOSS portal.



PROJECT PARTNERS

The project involves 18 partners from 6 countries.

The Netherlands
 - Wageningen Centre for Water Education

Ireland
 - e-Citizens Europe

Italy
 - University of Eastern Piedmont

Greece
 - Institute of Communications and Computer Systems
 - Institute of Space Applications and Technology
 - Hellenic Republic

Romania
 - Danube Delta National Institute
 - Romanian Meteorological Society

Spain
 - CSIC Research Units

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 688810.



Refine Land-Cover/Use Maps



Semantic Annotation

to images from

flickr 500px



Community/Municipality Contest



SCENT large-scale pilots

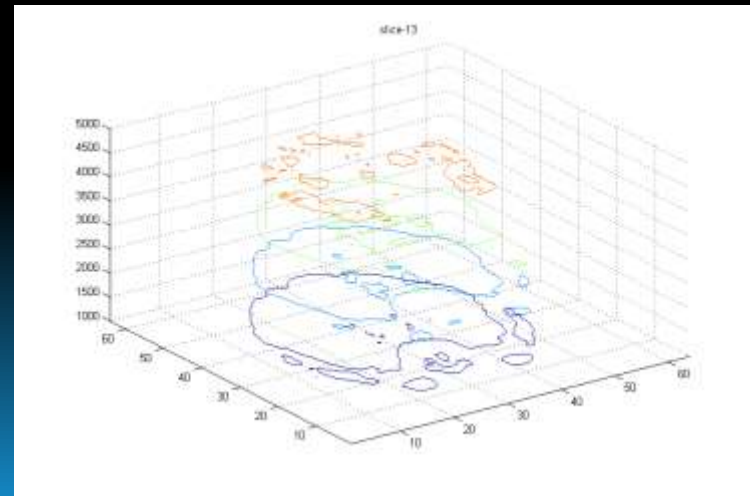
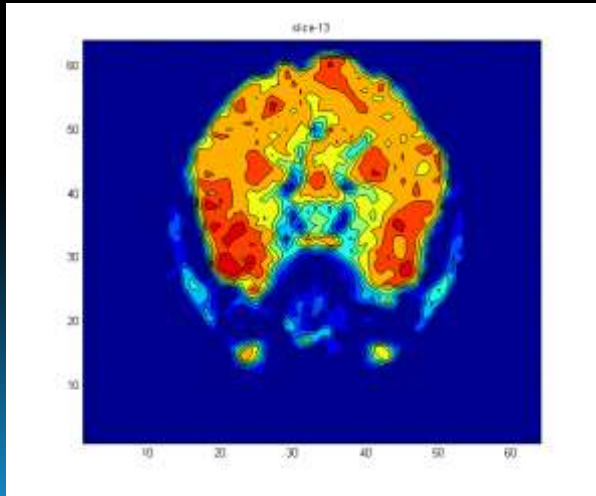


Urban demo: Kifisos river catchment in Attica, Greece

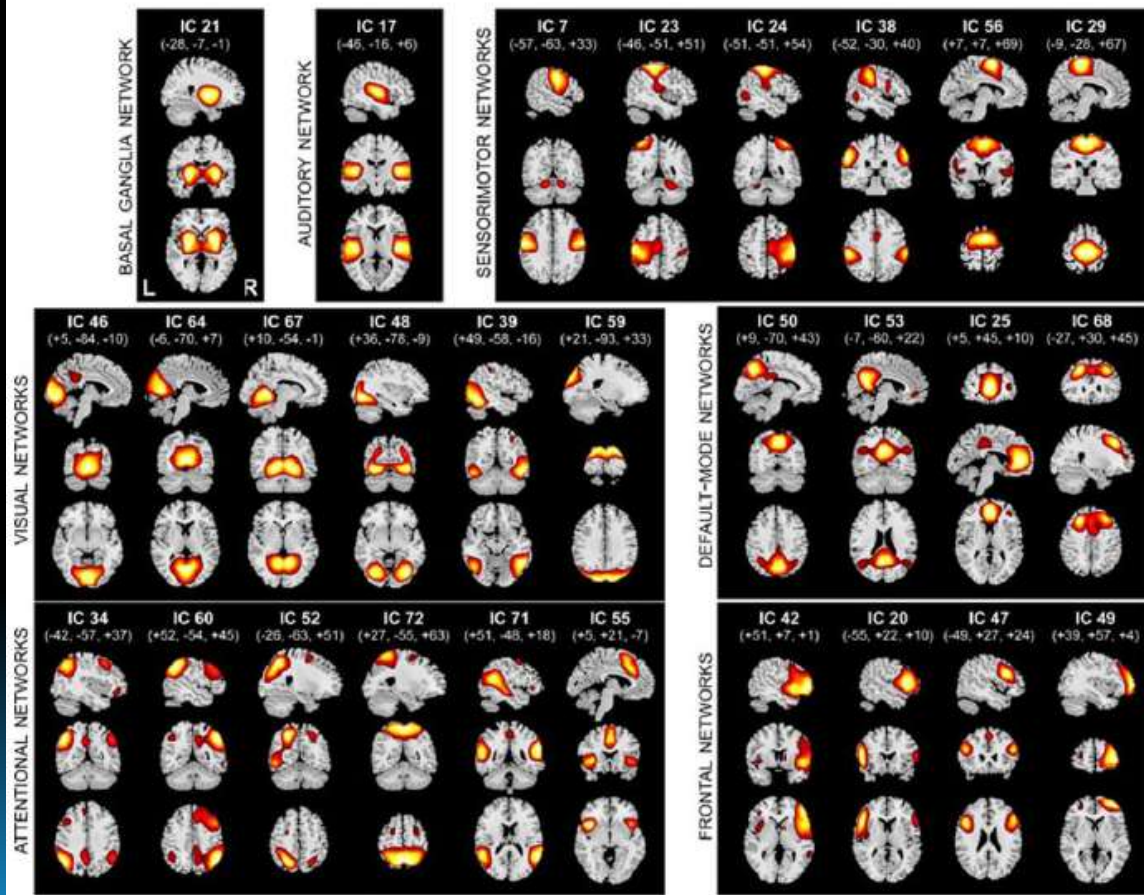


Rural demo: Danube Delta in Tulcea, Romania

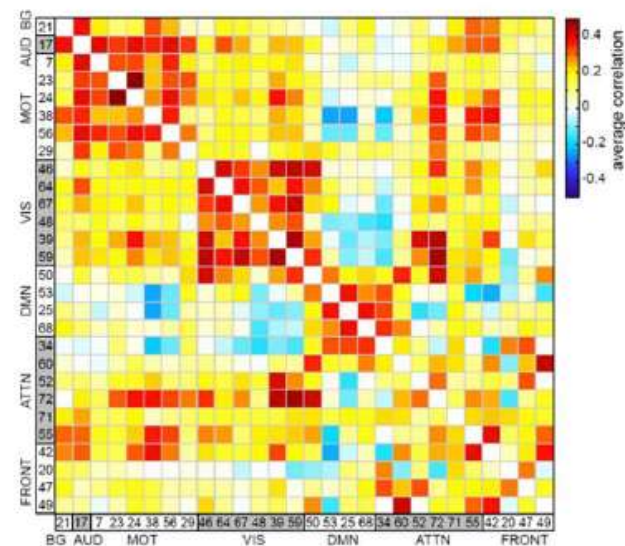




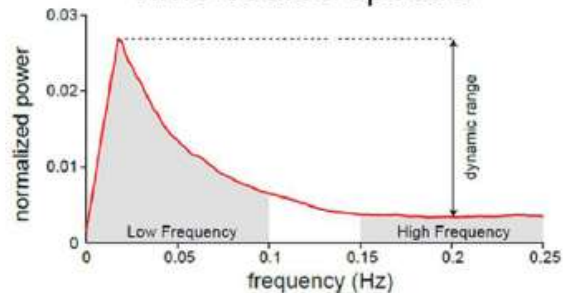
Component spatial maps



Functional network connectivity (FNC)



Time course spectra



Data Reduction

- 2 stage PCA
- Subject specific
- Common space

Forward Estimation

- Single subject
- Group average
- Temporal concat.
- Spatial concat.
- Tensorial

Back Reconstruction

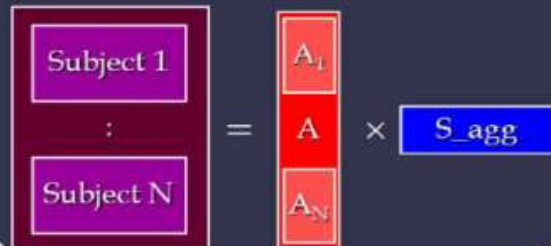
- PCA-based
- Regression-based
- ICA-based

Statistical Analysis

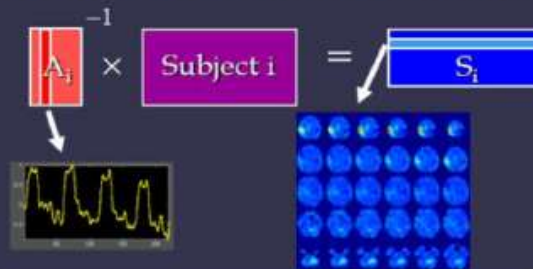
- Spatial maps (voxels)
- Task-relatedness
- Temporal dependence (FNC)
- Spatial dependence (MICA)
- Spectra

ICA (Forward Estimation)

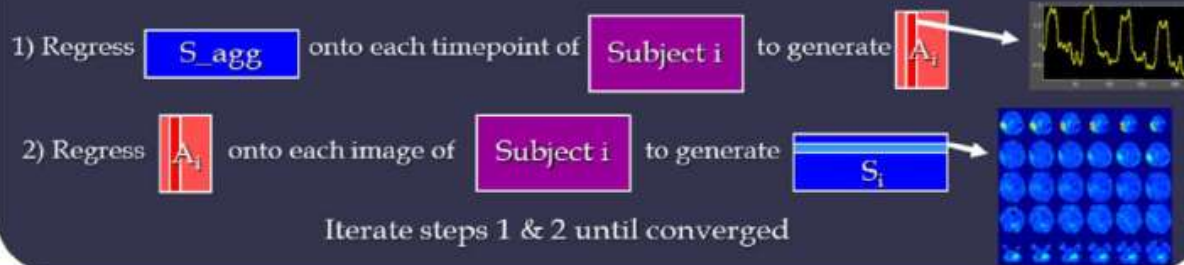
Data $\xrightarrow{\text{PCA reduction1}}$ $\xrightarrow{\text{PCA reduction2}}$ ICA



Back-reconstruction through inversion

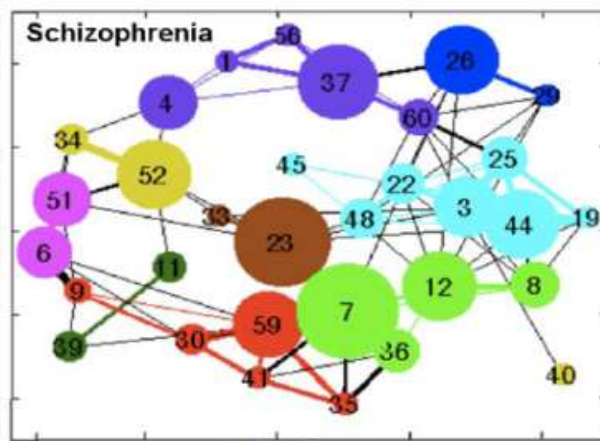
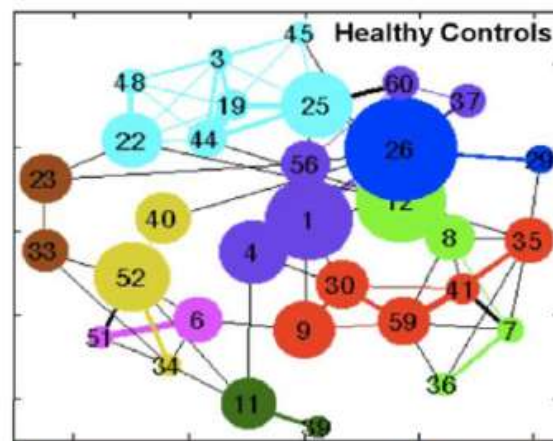
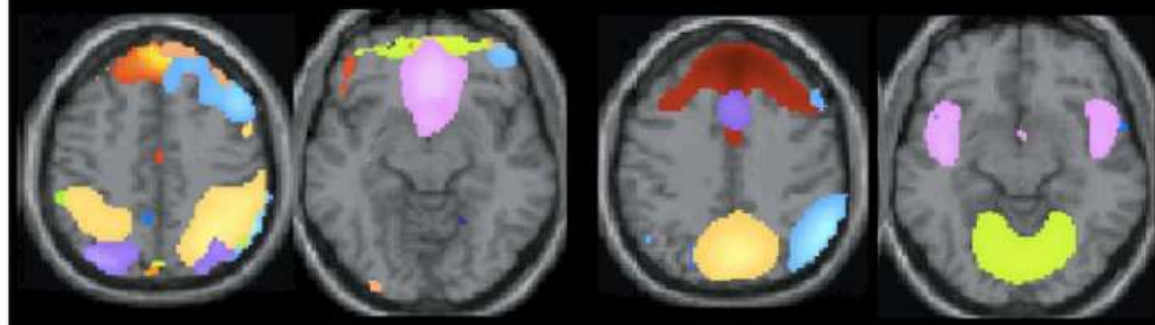


Back-reconstruction through Spatial-temporal (dual) regression



Healthy

Schizo





General Assembly

Dist.: Limited
27 June 2016

Original: English

ORAL REVISIONS of 30 June

Human Rights Council

Thirty-second session

Agenda item 3

Promotion and protection of all human rights, civil, political, economic, social and cultural rights, including the right to development

Australia,* Austria,* Belgium, Bosnia and Herzegovina,* Brazil,* Bulgaria,* Canada,* Croatia,* Cyprus,* Czech Republic,* Denmark,* Estonia,* Fiji,* Finland,* France, Georgia, Germany, Greece,* Haiti,* Honduras,* Hungary,* Iceland,* Ireland,* Italy,* Japan,* Latvia, Liechtenstein,* Lithuania,* Luxembourg,* Malta,* Mexico, Monaco,* Montenegro,* Netherlands,* Nigeria, Norway,* Paraguay, Poland,* Portugal, Republic of Moldova,* Romania,* Senegal,* Serbia,* Slovakia,* Slovenia, Spain,* Sweden,* the former Yugoslav Republic of Macedonia, Tunisia,* Turkey,* Ukraine,* United Kingdom of Great Britain and Northern Ireland, United States of America.* *draft resolution*

32/... The promotion, protection and enjoyment of human rights on the Internet

The Human Rights Council,

Guided by the Charter of the United Nations,

Recognizing the human rights and fundamental freedoms enshrined in the Universal Declaration of Human Rights and relevant international human rights treaties, including the International Covenant on Civil and Political Rights and the International Covenant on Economic, Social and Cultural Rights,

Recalling all relevant resolutions of the Commission on Human Rights and the Human Rights Council on the right to freedom of opinion and expression, in particular Council resolution 20/8 of 5 July 2012 and 26/13 of 26 June 2014, on the promotion, protection, and enjoyment of human rights on the Internet, as well as resolutions 12/16 of 2 October 2009, on freedom of opinion and expression, 28/16 of 24 March 2015, on the right to privacy in the digital age, and 23/2 of 13 June 2013, on the role of freedom of opinion and expression in women's empowerment, and 31/7 of 23 March 2016, on the rights of the child, information and communications technologies and child sexual exploitation, and also recalling General Assembly resolutions 68/167 of 18 December 2013 and 69/166 of 18 December 2014, on the right to privacy in the digital age, 70/184 of 22 December 2015, on

* State not a member of the Human Rights Council.

GE.16-10802(E)

1610802

Please recycle



ΕΠΕ ΕΝΩΣΗ
ΠΛΗΡΟΦΟΡΤΙΚΩΝ ΕΛΛΑΔΑΣ

Αθήνα, 29/7/2016 – Αρ. Πρωτ.: 616-0729-02V1

Ένωση Πληροφορικών Ελλάδας

T.Θ. 13001

TK 10310, Αθήνα

<http://www.epes.org.gr>

e-mail: info@epes.org.gr

Τηλέφωνο/Fax: 211 7907675

Διοικητικό Συμβούλιο:
Κυριάκος Δημήτρης (Πρόεδρος)
Γιάννης Κοιμωρτζής (Αντιπρόεδρος)
Χάρης Γεωργίου (Γεν. Γραμμ.)
Φώτης Αλεξίου (Ειδ. Γραμμ.)
Λένα Καπετανάκη (Ταμία)

ΔΕΛΤΙΟ ΤΥΠΟΥ

Ψήφισμα του ΟΗΕ για την ελευθερία πρόσβασης στο διαδίκτυο ως βασικό ανθρώπινο δικαίωμα

Αθήνα, 29-7-2016

Πριν λίγες μέρες συζητήθηκε στη Γενική Συνέλευση του ΟΗΕ το ζήτημα της ελεύθερης πρόσβασης στο διαδίκτυο ως ένα από τα βασικά ανθρώπινα δικαιώματα.

Σε προηγούμενα ανάλογα ψηφίσματα¹ υπήρχαν αναφορές σχετικά με την προστασία και την προώθηση της ελευθερίας έκφρασης στο διαδίκτυο, την προστασία της ιδιωτικότητας στη νέα ψηφιακή εποχή, καθώς και το δικαίωμα πρόσβασης στις νέες τεχνολογίες Πληροφορικής & Επικοινωνιών (ΤΠΕ) για την ανάπτυξη.

Σε αυτό το ψήφισμα² η Γενική Συνέλευση του ΟΗΕ επικυρώνει ομόφωνα (με κάποιες επιμέρους ενστάσεις από χώρες) τη δέσμευση της διεθνούς κοινότητας στην προστασία των παραπάνω ως βασικά αγαθά για όλους, ενώ ταυτόχρονα αναφέρεται για πρώτη φορά ρητά στην ανάγκη "**προστασίας, προώθησης και άσκησης των ανθρωπίνων δικαιωμάτων στο διαδίκτυο**". Επιπλέον, καταδικάζει κάθε χώρα που σκόπιμα εμποδίζει στους πολίτες της την ελεύθερη πρόσβαση στο διαδίκτυο.

1. Βλ. σχετικά (ψηφίσματα ΟΗΕ): 20/8 @ 5 Jul 2012, 26/13 @ 26 Jun 2014, 12/16 @ 2 Oct 2009, 28/16 @ 24 Mar 2015, 23/2 @ 13 Jun 2013, 31/7 @ 23 Mar 2016, 68/167 @ 18 Dec 2013, 69/166 @ 18 Dec 2014, 70/184 @ 22 Dec 2015, 70/125 of 16 Dec 2015.
2. UN Human Rights Council resolution for the "promotion, protection, and enjoyment of human rights on the internet" (A/HRC/32/L.20) – <https://is.gd/uTkw7f>

T.O. 13001, TK 10310, Αθήνα, <http://www.epes.org.gr>, e-mail: info@epes.org.gr

Σελίδα 1 από 2



Το παρόν έγγραφο διατίθεται με βάση τις Creative Commons (CC-BY-NC-ND) 4.0 – <http://creativecommons.org/licenses/by-nc-nd/4.0/> ή διατίθεται στο LibreOffice ως έκδοση της προέλευσης της, χωρίς να είναι δυνατό να απογραφεί ονομαστικά ως έκδοση – <http://libreoffice.org/>

Οι θέσεις-προτάσεις της ΕΠΕ για το νέο Σύνταγμα

Με βάση τα παραπάνω η ΕΠΕ επισημαίνει τρεις άξονες εξαιρετικής σημασίας πάνω στους οποίους πρέπει να βασιστεί το πνεύμα και το γράμμα της αναθεώρησης του Συντάγματος. Συγκεκριμένα:

1. **Πληροφορική Παιδεία:** Αναγνώριση ως βασικό συνταγματικό δικαίωμα κάθε πολίτη, ως μέρος της τυπικής αναφοράς στην υποχρέωση του κράτους για παροχή/πρόσβαση στη γενική Παιδεία. Η Πληροφορική Παιδεία δεν είναι απλά ένα ακόμα εκπαιδευτικό αντικείμενο του σχολικού προγράμματος. Αποτελεί τη βάση για τη δημιουργία ενεργών πολιτών και συμμετοχικής Δημοκρατίας.
2. **Πρόσβαση στην πληροφορία:** Συνταγματική διασφάλιση της διάθεσης της πληροφορίας, σε πρωτογενή, πλήρη και ανοικτή μορφή, είτε πρόκειται για γνώση (Παιδεία) είτε για είδηση (πληροφόρηση), καθώς και διασφάλιση πρόσβασης σε

αυτή για όλους τους πολίτες χωρίς καμία διάκριση, οικονομική, κοινωνική, πολιτική ή άλλη. Αυτό συμπεριλαμβάνει το δικαίωμα ελεύθερης και ισότιμης πρόσβασης στις τεχνολογίες και στα μέσα διάθεσης της πληροφορίας αυτής ως εξίσου βασικό κοινωνικό αγαθό, ισότιμο με την ελεύθερη και ισότιμη πρόσβαση σε μια δημόσια βιβλιοθήκη, σχολείο, Πανεπιστήμιο.

3. **Προστασία ιδιωτικότητας και ασφάλειας:** Συνταγματική διασφάλιση της ιδιωτικότητας όπως προβλέπεται και τώρα στο Σύνταγμα, αλλά με ειδική αναφορά στην ψηφιακή πληροφορία και τα κάθε είδους προσωπικά δεδομένα (ψηφιακά και μη), στη μετάδοσή και στη διαχείρισή τους, από φορείς και εξουσίες του κράτους και του ευρύτερου δημόσιου τομέα, όπως και από ιδιωτικούς φορείς και επιχειρήσεις. Επιπλέον, διασφάλιση της ίδιας υποχρέωσης του κράτους σε ό,τι αφορά την ασφάλεια γενικότερα (εμπιστευτικότητα, ακεραιότητα, έλεγχος πρόσβασης, ανθεκτικότητα/ανάκαμψη) τόσο σε σχέση με τα δεδομένα των πολιτών, όσο και τις υποδομές και τις υπηρεσίες του ίδιου του κράτους σε κάθε επίπεδο και επιμέρους τομέα (ενέργεια, άμυνα, μεταφορές, τηλεπικοινωνίες, Υγεία, κ.ο.κ.).



European Parliament  @Europarl_EN · 7m

Copyright: Parliament just voted in favour of the proposed directive on copyright rules for the digital market. Press release to be published soon.



 28

 47

 31



Προς: Έλληνες Ευρωβουλευτές

Κοιν: Ευρωπαϊκό Κοινοβούλιο – Γραφείο στην Ελλάδα

Ευρωπαϊκό Κοινοβούλιο – Πολιτικές Ομάδες

Ευρωπαϊκή Επιτροπή – Ελληνική Αντιπροσωπεία

Βουλευτές κομμάτων

Μέσα Μαζικής Ενημέρωσης

Αθήνα, 24/3/2019

Αξιότιμοι κυρίες και κύριοι,

Σε λίγες ημέρες ψηφίζεται στην Ευρωβουλή η τελική εισήγηση για το νέο **EU Copyright Directive**. Έχετε τη μοναδική ευκαιρία να συμμετέχετε σε μια ψηφοφορία ιστορικών διαστάσεων για το διαδίκτυο και τη μορφή του τα επόμενα χρόνια.

Ιδιαίτερα τα **άρθρα 11 και 13**, θέτουν τις βάσεις της καταστροφής της ίδιας της υφής του δημόσια προσβάσιμου διαδικτύου και της κεντροποιημένης και προληπτικής λογοκρισίας του περιεχομένου με την πρόφαση της προστασίας των πνευματικών δικαιωμάτων.

Ταυτόχρονα, σε δύο μήνες λήγει η θητεία σας στο Ευρωκοινοβούλιο. Κατά την εκλογή σας δεν υπήρχε καν στην προεκλογική σας απέναντο το συγκεκριμένο θέμα, ούτε φυσικά η δημόσια δέσμευσή σας σε συγκεκριμένες θέσεις υπέρ ή κατά, ώστε οι πολίτες να σας εκλέξουν και για αυτό. Ως εκ τούτου, δεν έχετε την εξουσιοδότηση να αποφασίσετε για κάτι τόσο σημαντικό, με πιθανάτα μη αναστρέψιμες επιπτώσεις, λίγες εβδομάδες πριν παραδώσετε την έδρα σας.

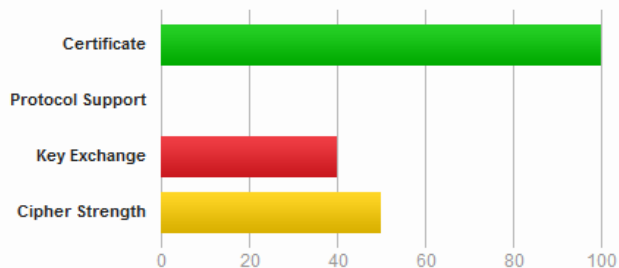
ΣΑΣ ΚΑΛΟΥΜΕ

1. Να **καταψηφίσετε** την εισήγηση στην Ευρωβουλή τις επόμενες μέρες
2. Να **δεσμευτείτε** δημόσια για τη θέση σας κατά άρθρο και για προτάσεις βελτίωσης
3. Να ζητήσετε **επανεισαγωγή** του ζητήματος αμέσως μετά τις ευρωεκλογές.
4. Να **απαίτησετε** ανοικτές διαδικασίες και δημόσια διαβούλευση με τους πολίτες.
5. Να **θέσετε** εκ νέου υποψηφιότητα (εφόσον το επιθυμείτε), ώστε να λάβετε έγκριση.

Στην παρούσα επιστολή δεν παραθέτουμε καμία παραπομπή σχετικά με την ανάλυση των εξαιρετικά προβληματικών σημείων.

Summary

Overall Rating



Visit our [documentation page](#) for more information, configuration guides, and books. Known issues are documented [here](#).

This server is vulnerable to the POODLE TLS attack. Patching required. Grade set to F. [MORE INFO »](#)

This server uses SSL 3, which is obsolete and insecure. Grade capped to B. [MORE INFO »](#)

Intermediate certificate has a weak signature. Upgrade to SHA2 as soon as possible to avoid browser warnings. [MORE INFO »](#)

This server uses RC4 with modern protocols. Grade capped to C.

The server does not support Forward Secrecy with the reference browsers. [MORE INFO »](#)



P8_TA-PROV(2018)0341

Autonomous weapon systems

European Parliament resolution of 12 September 2018 on autonomous weapon systems (2018/2752(RSP))

The European Parliament,

- having regard to Title V, Articles 21 and 21(2)(c) of the Treaty on European Union ,
- having regard to the 'Martens clause' included in Protocol 1 of 1977 additional to the Geneva Conventions,
- having regard to Part IV of the UN 2018 Agenda for Disarmament, entitled 'Securing Our Common Future',
- having regard to its study of 3 May 2013 on the human rights implications of the usage of drones and unmanned robots in warfare,
- having regard to its various positions, recommendations and resolutions calling for an international ban on lethal autonomous weapon systems (LAWS), such as its recommendation to the Council of 5 July 2018 on the 73rd session of the United Nations General Assembly¹, the mandate to start negotiations adopted in plenary on 13 March 2018 with a view to the adoption of a regulation of the European Parliament and of the Council establishing the European Defence Industrial Development Programme, its resolution of 13 December 2017 on the Annual Report on Human Rights and Democracy in the World 2016 and the European Union's policy on the matter², its recommendation to the Council of 7 July 2016 on the 71st session of the United Nations General Assembly³, and its resolution of 27 February 2014 on armed drones⁴,
- having regard to the annual report of the UN Special Rapporteur on extrajudicial, summary and arbitrary executions, Christof Heyns, of 9 April 2013 (A/HRC/23/47),
- having regard to the EU statements on lethal autonomous weapons systems made to the

¹ Texts adopted, P8_TA(2018)0312.

² Texts adopted, P8_TA(2017)0494.

³ OJ C 101, 16.3.2018, p. 166.

⁴ OJ C 285, 29.8.2017, p. 110.

ΒΑΣΙΚΕΣ ΑΡΧΕΣ

ΤΕΧΝΗΤΗΣ ΝΟΗΜΟΣΥΝΗΣ & ΡΟΜΠΟΤΙΚΗΣ

1. Ο **σκοπός** της ανάπτυξης και εφαρμογής της Τεχνητής Νοημοσύνης & Ρομποτικής (TN&P) δεν είναι χωρίς στόχευση. Πρέπει να εξυπηρετεί το κοινό καλό και την προστασία της ζωής.
2. Η **επένδυση** στην ανάπτυξη και στην εφαρμογή TN&P πρέπει πάντα να συνοδεύεται από τη διασφάλιση διαφάνειας και της σωστής κατεύθυνσης, σε σχέση με τα ζητήματα ηθικής, ανθρωπιστικής, κοινωνικής, νομικής και οικονομικής διάστασης.
3. Η **πρόσβαση** στην επιστημονική, τεχνολογική και παραγωγική διάσταση της TN&P πρέπει να είναι ισότιμη για όλους, διαχρονικά, ως ανθρώπινο δικαίωμα στη γνώση και στα ανθρώπινα αγαθά.
4. Τα **αποτελέσματα** της ανάπτυξης και εφαρμογής της TN&P πρέπει να αφορούν ισότιμα το σύνολο της κοινωνίας, με ιδιαίτερη μέριμνα στα ζητήματα ασφάλειας, προστασίας των προσωπικών δεδομένων και σεβασμού των ατομικών ελευθεριών.
5. Η **συμμόρφωση** με το Νόμο, ιδιαίτερα η προστασία της ζωής, η απόδοση ευθύνης (liability), η ελαχιστοποίηση του ρίσκου και η αποτροπή ζημιών σε περίπτωση εσφαλμένης λειτουργίας (fail-safe) αποτελούν ύψιστη προτεραιότητα.
6. Ο **έλεγχος** των συστημάτων TN&P πρέπει πάντοτε να διατηρείται ή να μπορεί να αναληφθεί κατά προτεραιότητα σε άνθρωπο, για την ολοκλήρωση σκοπών που καθορίζονται από τον άνθρωπο.
7. Η **κατανόηση** από άνθρωπο της εσωτερικής λειτουργίας και η δυνατότητα τεκμηρίωσης (auditing) των διαδικασιών λήψης αποφάσεων σε ένα σύστημα TN&P θα πρέπει να διασφαλίζεται στο μέγιστο δυνατό βαθμό.
8. Η **εφαρμογή** συστημάτων TN&P στην καθημερινή ζωή σε ευρεία κλίμακα θα πρέπει να σέβεται και να διασφαλίζει στο μέγιστο δυνατό βαθμό τη δυνατότητα προσωπικής επιλογής του κάθε ατόμου ως προς το αν επιθυμεί ή όχι να κάνει χρήση αυτής.
9. Η **ενσωμάτωση** των επιστημονικών και τεχνολογικών επιτευγμάτων της TN&P σε πρακτικές εφαρμογές και η χρήση τους για ειρηνικούς σκοπούς είναι υποχρέωση όλων.
10. Η **αυτο-βελτίωση** και η **αυτο-προστασία** των συστημάτων TN&P, ως βασική παράμετρος της σχεδίασής τους, θα πρέπει πάντα να υπόκειται στην αξιολόγηση από άνθρωπο και να διασφαλίζεται πως πραγματοποιείται προς ωφέλιμη κατεύθυνση.

The Weather

Wash. - Showers, thunderstorms
Sat. in W. Tuesday-Fri. in
South. Clouds at Sat. 30% in
North. Wind variable, 10 to 15 m.p.h.
Temperature range: Today, 70 to 80;
Tuesday, 70 to 80; Friday, 70 to 80.

The Washington Post

Classified

FINAL

16 Pages - 4 Sections

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C-6
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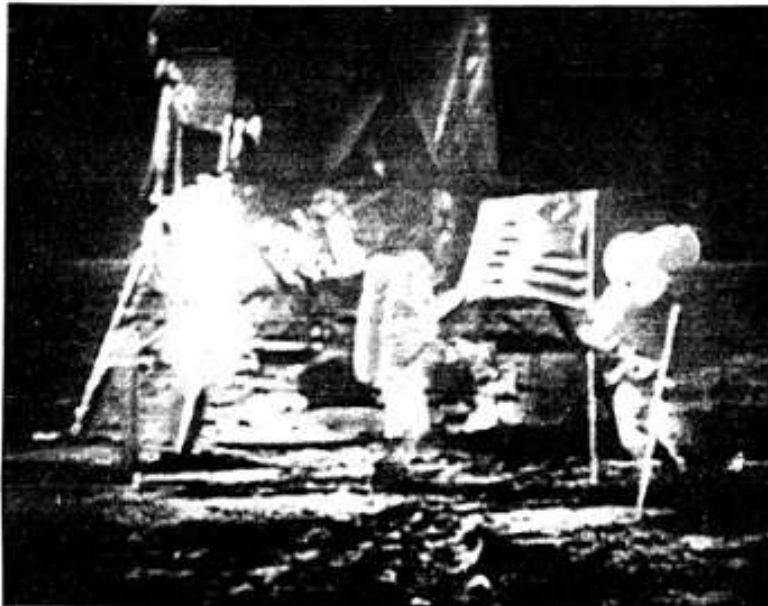
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MONDAY, JULY 21, 1969

Phone: 225-4000

10c

'The Eagle Has Landed'— Two Men Walk on the Moon



'One Small Step For Man ... Giant Leap for Mankind'

By Thomas OTT

BEVERLY, July 20—Man stepped out onto the moon tonight for the first time in his two-million-year history. "That's one small step for man," declared general Armstrong, half-breathing at 10:56 p.m. EDT, "one giant leap for mankind."

Just after that historic moment, it was his turn for his mission. Armstrong walked on the dark surface and found the surface very powdery, littered with fine grains of black dust.

A few minutes later, Edwin (Buzz) Aldrin joined Armstrong on the lunar surface and in less than an hour they put on a show that will long be remembered by the worldwide television audience.

American Flag Flashed

The two men walked slowly, talked softly, even ran and jumped happily at a moment. They talked up, down, talked at length of what they saw, planted an American flag, unrolled it, and talked to each other with the President in the White House, and then found the camera and started to work.

"For every American, this has to be the proudest day of our lives," the President told the astronauts. "For one precious moment, in the whole history of man, all the people on this earth are truly one."

Seven hours earlier, at 4:07 p.m., the Eagle and its two pilots touched the world as they landed to meet a prearranged signal, beamed and then slowly set down on the moon. "Houston, Tranquility base here," Armstrong yelled. "The Eagle has landed."

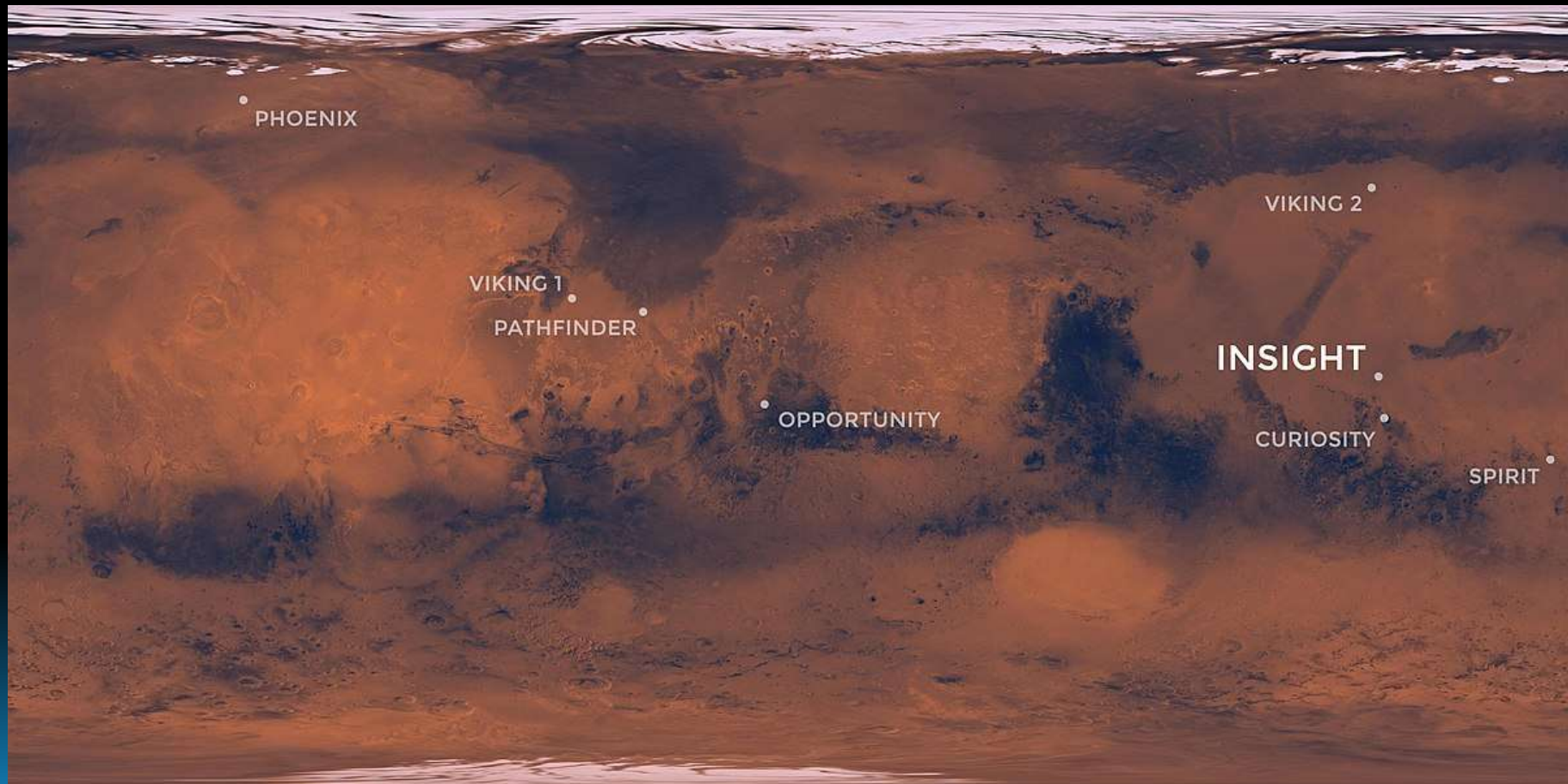
At 5:18 p.m. Houston-2 hours and 10 minutes after Armstrong first stepped upon the lunar surface—the astronauts were back in their moon craft and the launch was closed.

In describing the moon, Armstrong told Houston that it was "flat and powdery. I can kick it up loosely with my foot."

"It reflects like powdered charcoal in the heat," he went on, "but I only go in a small fraction of an inch. I can see the low-point in the moon like fine-grained particles."

Armstrong found he had much little trouble working on the moon that he began talking almost as if he didn't want to leave it.

"It has a dark beauty all its own," Armstrong said, "and the dark is the background of the stars."



PHOENIX

VIKING 1

PATHFINDER

OPPORTUNITY

VIKING 2

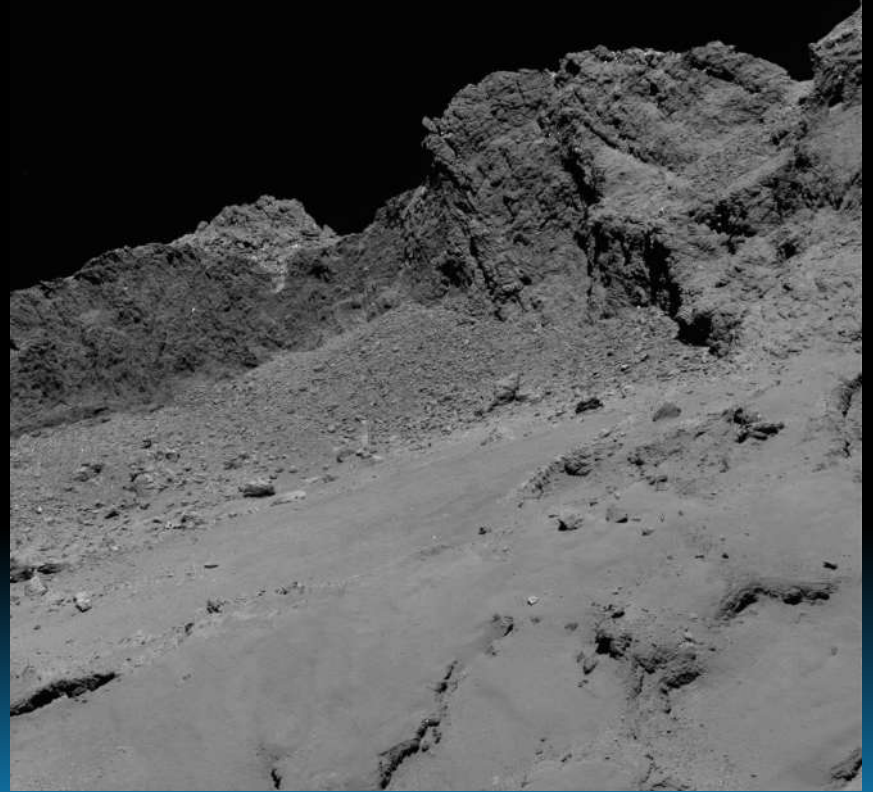
INSIGHT

CURIOSITY

SPIRIT



ESA/Rosetta/MPS for OSIRIS Team MPS/UPD/LAM/IAA/SSO/INTA/UPM/DASP/IDA

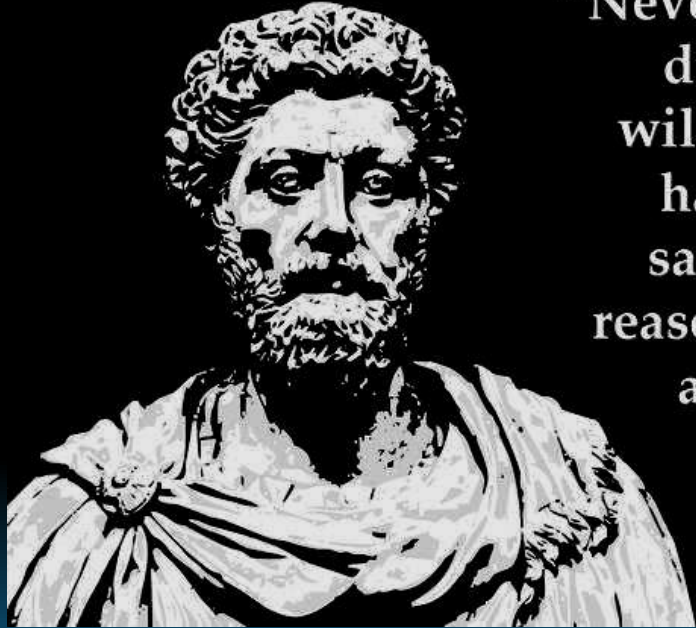


State of play – What the Internet should look like in 5-7 years from now:

- Accessible
- Compatible
- Reliable
- Resilient
- Secure
- Decentralized
- Self-organized
- Self-healing
- Massively scalable
- Agile
- **Simple**







“Never let the future
disturb you. You
will meet it, if you
have to, with the
same weapons of
reason which today
arm you against
the present.”

~ Marcus Aurelius



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Thank you for your attention!

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