

CoherentPaaS

COSMOS

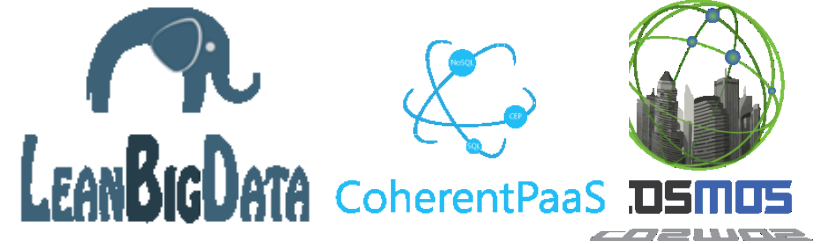
Cultivate Resilient Smart Objects
for Sustainable City Applications

The IoT Challenge @NTUA

June 24th 2016

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The Scenario



- ❑ Scenario B aiming to people with little or no experience with programming as the end-users was chosen.
- ❑ The service provides information about:
 - present and future strikes (data from www.apergia.gr),
 - the estimated time of arrival of busses that pass from the chosen bus stop (e.g. 9th Zografou - data from telematics.oasa.gr)
 - places like bars, cafes, restaurants near a location users define
- ❑ A simple web user interface is provided in order to easily access some of the gathered information. The hard-coded parameters are easy to change according to the user's needs, even for those with no knowledge of programming.
- ❑ The only tool used was node-red, therefore every device capable of running node-red framework can also host this service. The google nodes that I used, can be found [here](#).

The Procedure followed



CoherentPaaS



DSMOS

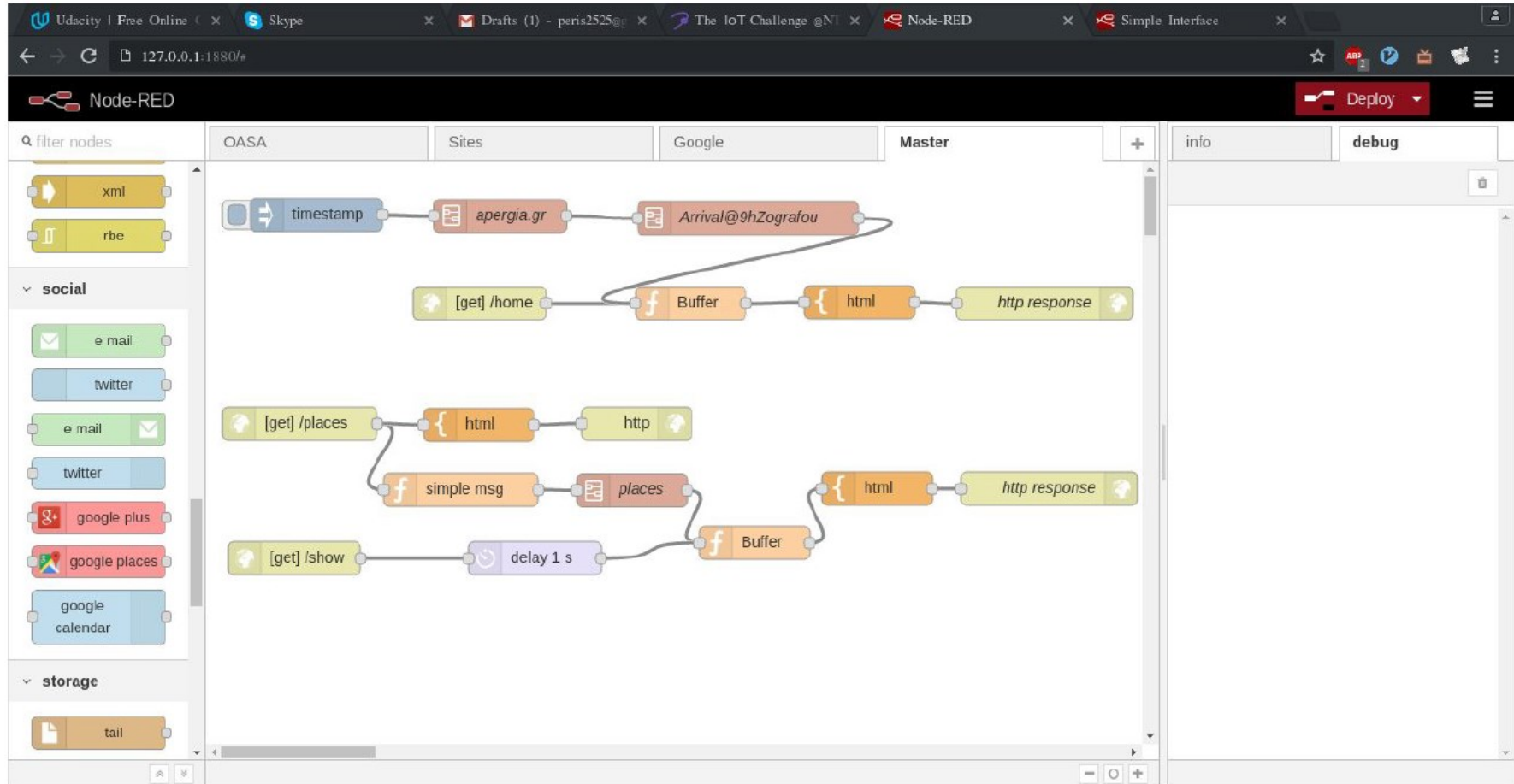
COEWS

- ❑ The original idea was to include google calendar and twitter nodes, but the first produced error messages while trying to fetch the user's calendar list and the latter provides no way of dynamically defining the search query for the tweets.
- ❑ According to this plan, whenever a calendar event was about to happen, information about the event's location would be fetched and forwarded to the google places and twitter services. Several other nodes were used while I was experimenting with the Node-RED environment, but I failed to find a way of combining them in order to provide something meaningful.

The final Results



CoherentPaaS DSMOS



The final Results



CoherentPaaS OSMOS

Udacity | Free Online | Skype | Drafts (1) - peris2525@ | The IoT Challenge @N | Node-RED | Simple Interface

127.0.0.1:1880/home

Simple Web Interface

apergia.gr Thu Jun 23 2016 23:21:56 GMT+0300 (EEST):Καθαρός Ουρανός, δεν υπάρχουν καταγεγραμμένες απεργίες αυτή την εβδομάδα στα Μέσα Μαζικής Μεταφοράς	oasa.gr ΑΚΡΟΠΟΛΗ - ΖΩΓΡΑΦΟΥ : 27	google.com <input type="text" value="syntagma"/> <input type="button" value="Submit"/>
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localhost:1880/show

Places nearby

Hotel NJV Athens Plaza Leoforos Vasileos Georgiou 2, Athina Rating : 4.5	Hotel King George Athens Vas. Georgiou A' Street 3, Athina Rating : 4.3	Hotel Grande Bretagne 1 Vasileos Georgiou A' str., Athina Rating : 4.6
Athens Gate Hotel Syngrou avenue 10, Athina Rating : 4.5	Fisherman's Taverna Erotokritou ke Erechtheos 16, Athina Rating : 4.1	Thanasis kebab Mitropoleos 69, Athina Rating : 4.3
Stil Evangelistrias 1, Athina Rating :	Kalua Αμερικής 6, Σύνταγμα, Κέντρο Rating :	Six d.o.g.s Avramiotou 6-8, Athina Rating : 4.4
Rooster Platia Agias Irinis 4, Athina Rating : 4.2		

Feedback



CoherentPaaS



DSMOS

CO2W02

- Node-RED: A fine quick-development tool. I hope it will offer more utilities in the future.





CoherentPaaS

Thank you!

www.iot-cosmos.eu

leanbigdata.eu

coherentpaas.eu



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