

Things you need to know

Add more useful information



Add more interactivity modes



Add an educational part



Acknowledgments

- Prof. Manuel Estêvão
- Farzaneh Ebelsberg
- Prof. José Gonçalves



Special thanks

- Eng. João Sérgio
- Eng. António Ramos



- Per point total cost:
- 13K sensors
- 2K analysis board
- 4K touchpanel



Active system with low energy consumption



Events & QR code



View about Mouraria



Interactive Route



View about Mouraria



After 50 comments an email is sent to Mouraria council



User write by touching or by phone



# *DynaRoute 11*

*Mouraria*

Experimental Methods in Energy and the Environment

2013 December

Tiago Seco-56949  
Renato Ribeiro-64706

# *Quality of “Turistic Points” by Sensing The Environment*

## *The 11 Points Interaction*

Encourage people to interact with the touristic points in Mouraria by knowing important data about Air&Weather conditions

Different and innovative route

Attract Tourist

User friendly

# Sensing in Mouraria



*Measurement of air pollution*



*Measurement of Temperature*



*Measurement of Humidity*



where?

# The Turistic Route

## 11 Points



# Why?



- *To add value to touristic points - interactive way*
- *Boost small bussiness - taskas, museum, retail stores*
- *Provide better information to people - tourists, local people*
- *Give informative data & quotes useful for all the users*

# Interactivity with user

*Touch panel*



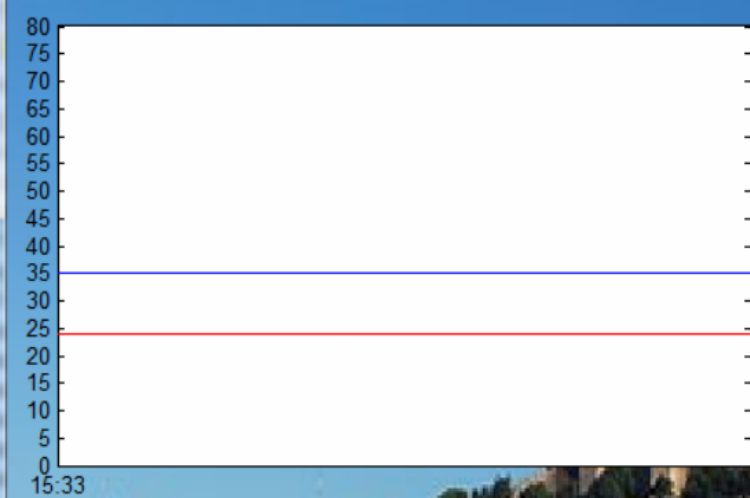
*Interface*



# *Our Interface*

---





*Humidity(%)*  
35

*CO (ppm)*  
-

*Temp (°C)*  
24

*Go through Mouraria by selecting a point*



Welcome, good weather conditions to enjoy Mouraria!

[Empty text input area]

**Suggestions!**

**Problems!**

**From T to T!**

Leave your comment!

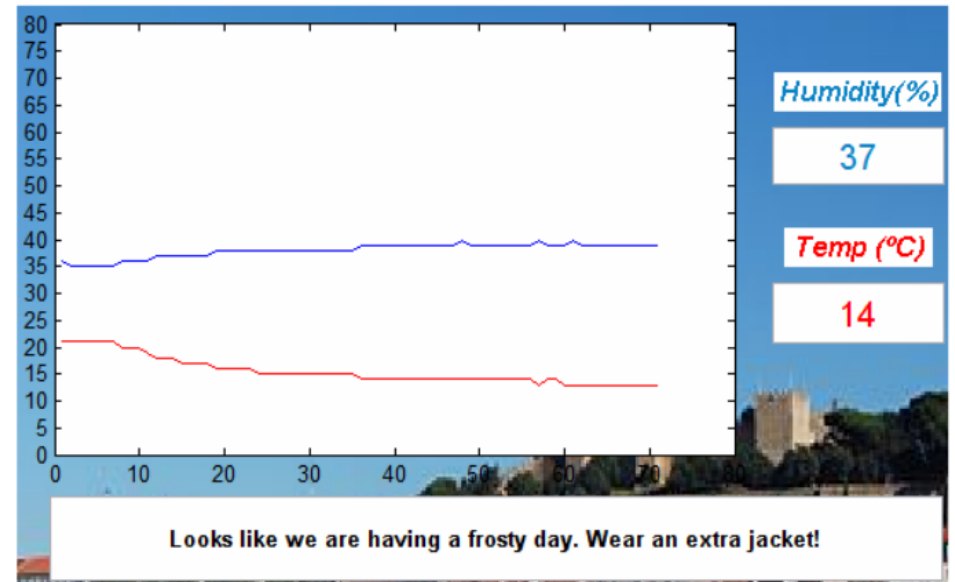
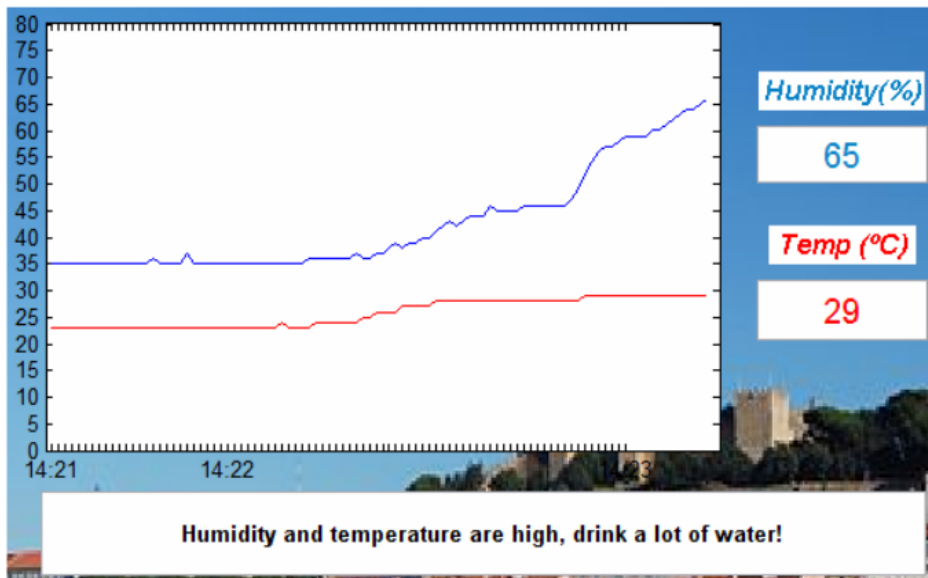
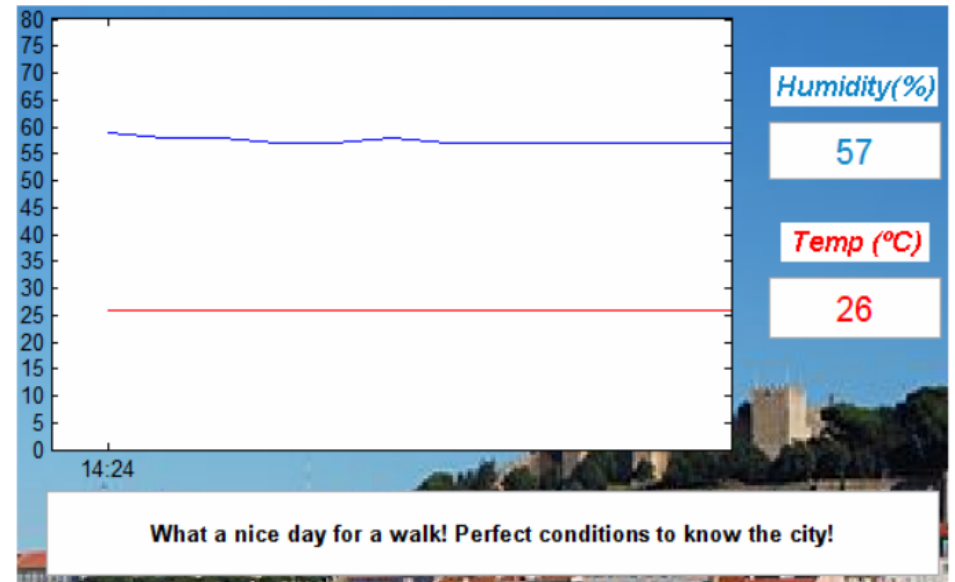
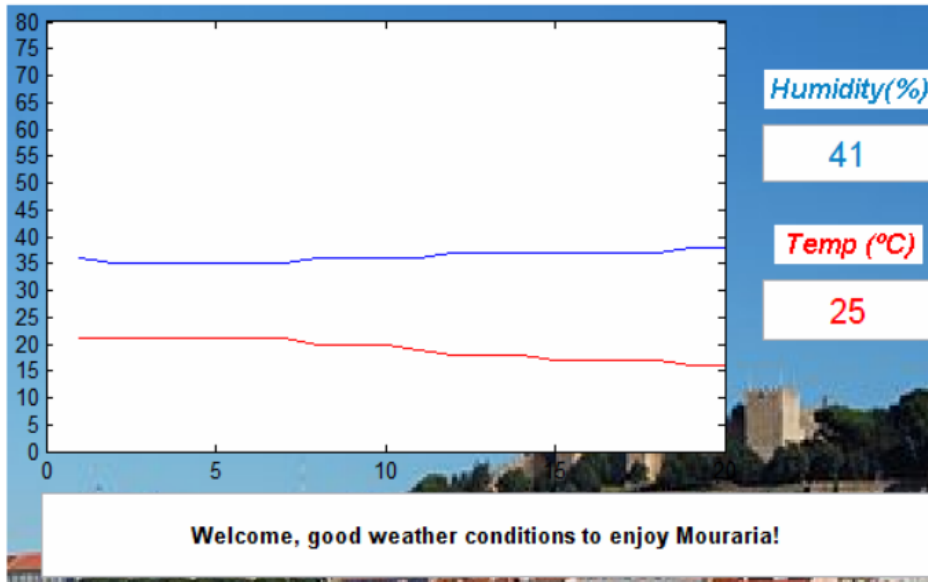
**Comments!**

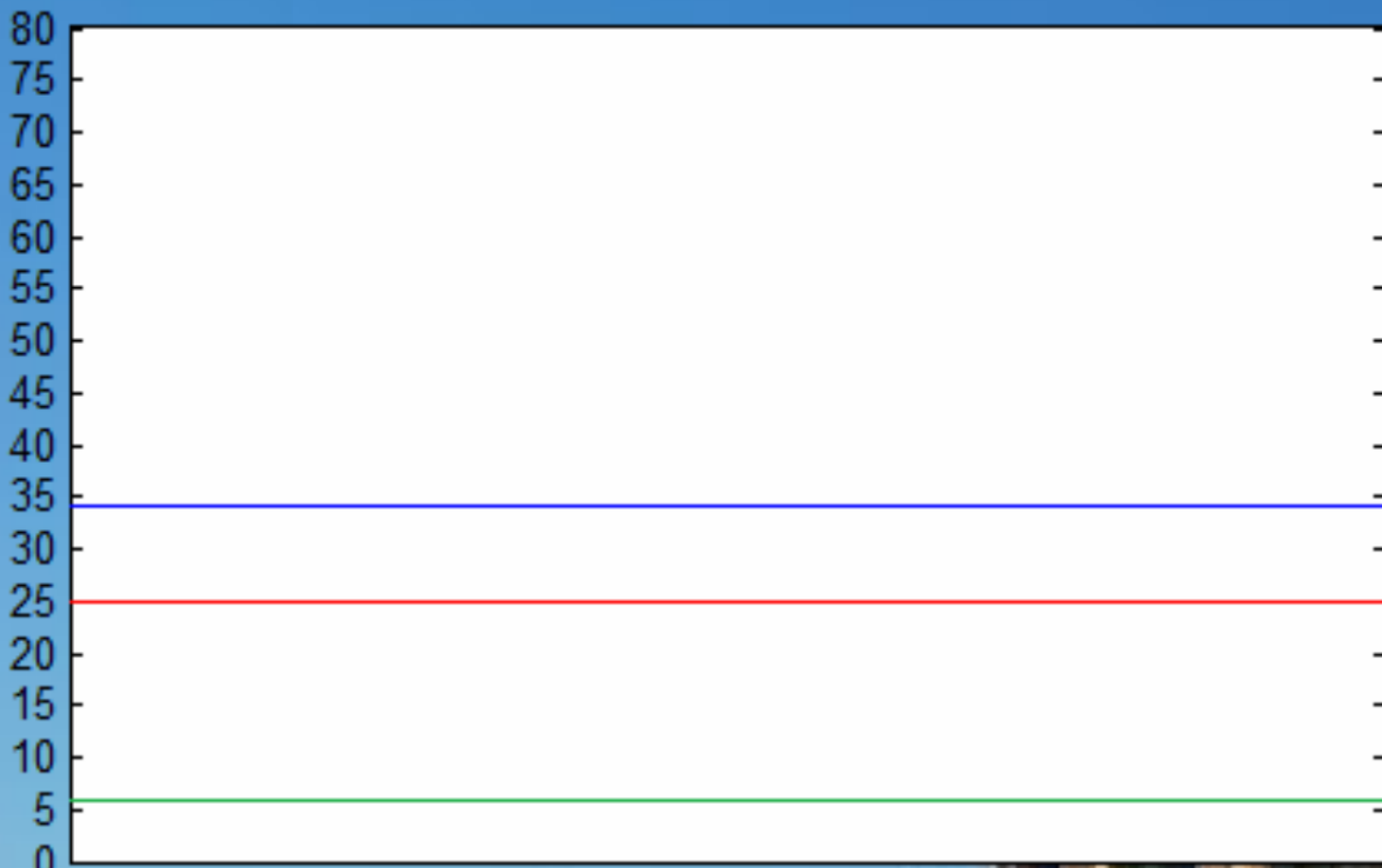
**Events in Lisbon**



**More about Mouraria**

# Weather, Air conditions & Informative quotes





*Humidity (%)*

34

*CO (ppm)*

6

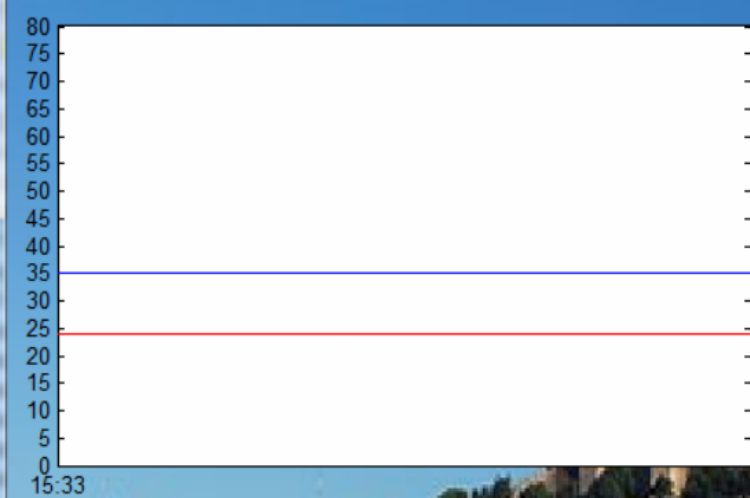
*Temp (°C)*

25

14:49

**Welcome, good weather conditions to enjoy Mouraria!**





Humidity(%)

35

CO (ppm)

-

Temp (°C)

24

Go through Mouraria by selecting a point



Welcome, good weather conditions to enjoy Mouraria!

A large empty white rectangular area with a blue header bar, intended for user input or suggestions.

Suggestions!

Problems!

From T to T!

Leave your comment!

Comments!

Events in Lisbon



More about Mouraria

# Comments Box

2013/12/13-15:3-Its a great Project :)

2013/12/13-15:5-There's a broken pipe in the street x

2013/12/13-15:7-Increase the number of turistical points please

2013/12/13-15:9-Go to the Castle. Amazing view

Leave your comment!

Suggestions!

Problems!

From T to T!

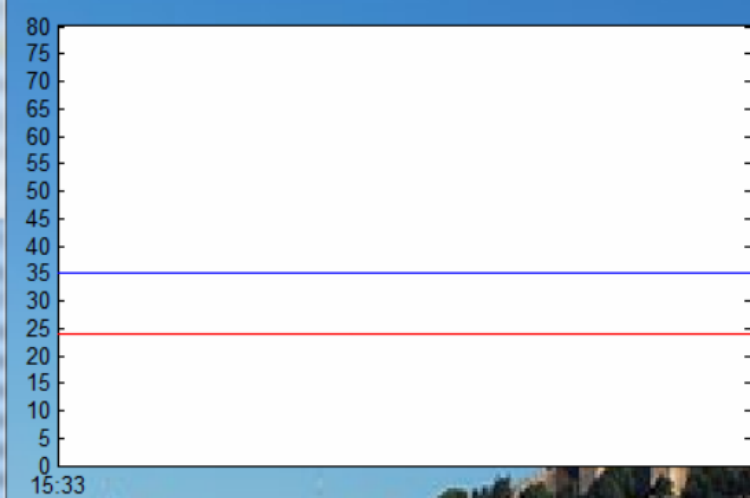
Comments!



*After 50 comments an email is sent to Mouraria council*



*User write by touching or by phone*



Humidity(%)

35

CO (ppm)

-

Temp (°C)

24

Go through Mouraria by selecting a point



Welcome, good weather conditions to enjoy Mouraria!

Empty text input area for user comments.

Suggestions!

Problems!

From T to T!

Comments!

Leave your comment!

Events in Lisbon



More about Mouraria



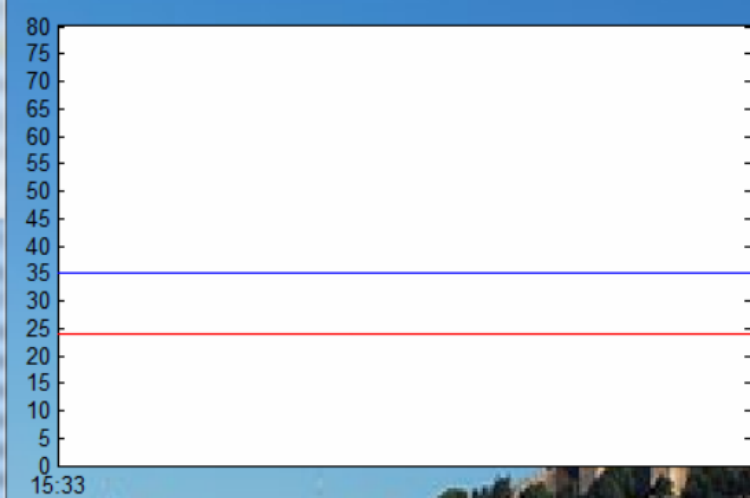
# Interactive Route

*Go through Mouraria by selecting a point*



*Interesting Places Nearby*





Humidity(%)

35

CO (ppm)

-

Temp (°C)

24

Go through Mouraria by selecting a point



Welcome, good weather conditions to enjoy Mouraria!

A large, empty white rectangular area with a blue header bar, intended for user input or suggestions.

Suggestions!

Problems!

From T to T!

Leave your comment!

Comments!

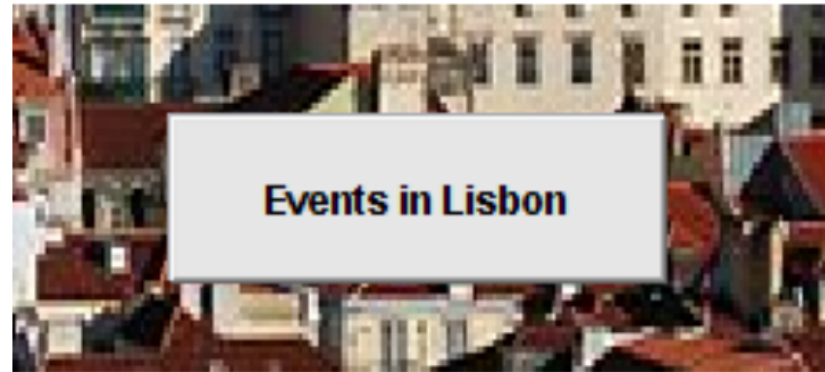
Events in Lisbon



More about Mouraria



# Events & QR code



More about Mouraria



# CALENDÁRIO DE EVENTOS\* 2013

## MARÇO

**06** 6º Grand Prix AGAS de Kart  
Velopark - Nova Santa Rita

Quarta-feira



**26** Jantando com a AGAS  
Santa Maria

Terça-feira



## AGOSTO

**20 a 22** EXPOAGAS 2013  
FIERGS - Porto Alegre

Terça-feira a Quinta-feira



## ABRIL

**17** Premiação Ranking AGAS 2013  
Hotel Deville - Porto Alegre

Quarta-feira



## SETEMBRO

**17** Lançamento da EXPOAGAS 2014  
Hotel Deville - Porto Alegre

Terça-feira

## MAIO

**21** Jantando com a AGAS  
Ijuí

Terça-feira



## OUTUBRO

**23 e 24** Convenção Regional  
Tramandai

Quarta-feira e Quinta-feira



## JULHO

**02** Jantando com a AGAS  
Nova Petrópolis

Terça-feira



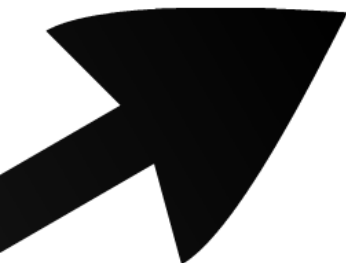
**27** Encontro de Diretoria  
e Representantes AGAS  
Gramado

Sábado

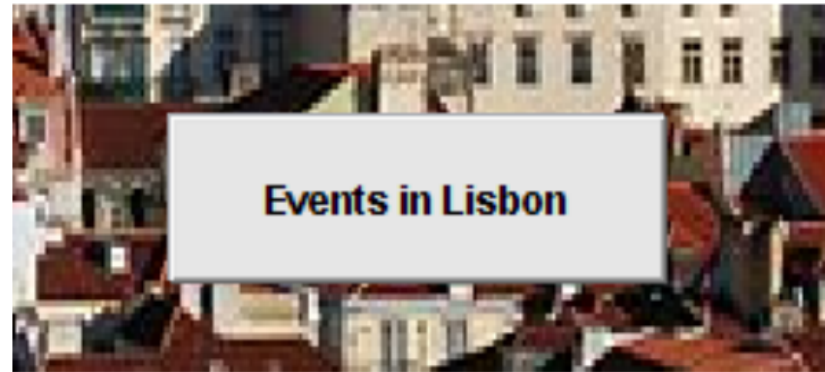
## NOVEMBRO

**25** Carrinho AGAS  
GNU - Porto Alegre

Segunda-feira



# Events & QR code



More about Mouraria



requalificar o passado para construir o futuro  
redeveloping the past to build the future

- QUEM SOMOS
- CIRCULAÇÃO E ESTACIONAMENTO
- APOIOS À REABILITAÇÃO
- GUIA DE RECURSOS
- GALERIA

↳ [aiMouraria](#) / Há vida na Mouraria

### Há vida na Mouraria



### Programa de acção QREN Mouraria as cidades dentro da cidade

- Linhas Gerais do Programa de Acção
- Espaço Público e Ambiente Urbano
- Quarteirão dos Lagares
- Valoração das Artes e dos Ofícios
- Valorização Sócio-Cultural e Turística
- Plano de Divulgação e Comunicação

Mensagem do Presidente

Programa de Desenvolvimento Comunitario da Mouraria

Plano de Intervencao

### A acontecer na Mouraria

11

03.04.2013  
 Dois anos depois, instalação de gabinete no Intendente é objetivo...  
 O presidente da Câmara de Lisboa, António Costa, considerou hoje,...  
[ver mais...](#)

[noticias](#)

[agenda](#)



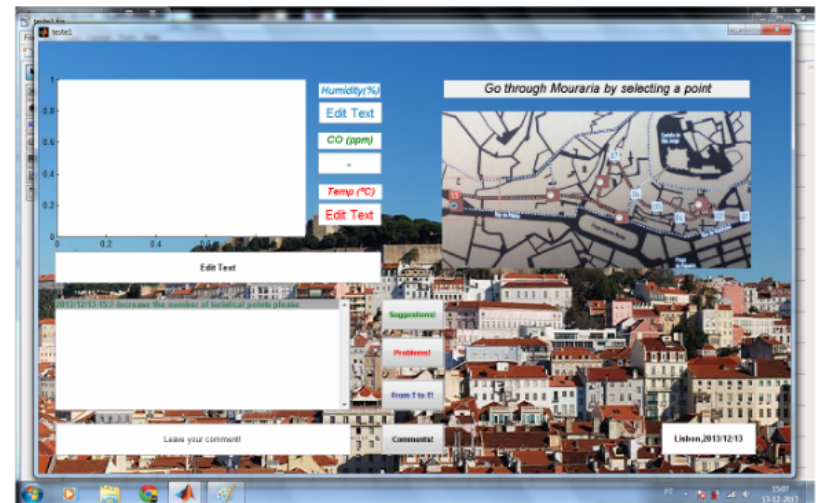
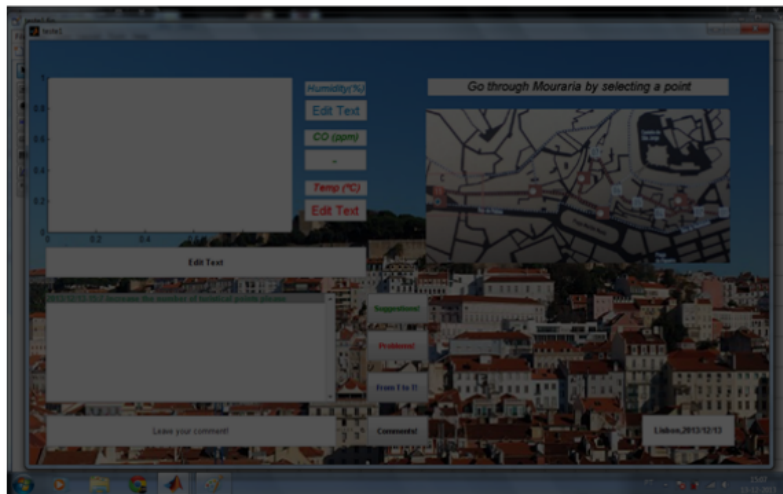
# Entire system with low energy consumption



Eco-friendly  
Saving money



Adjustable brightness when user approach



# BUSINESS-PLAN

---





*Per point total cost:*

- *13€ sensors*
- *23€ arduino board*
- *60€ touch panel*

## Future Work

**Things you  
need to  
know**

Add more useful information



Add more interactivity modes



Add an educacional part



# Acknowledgments

- Prof. Manuel Heitor
- Farzaneh Eftekhary
- Prof. José Sequeira



## Special thanks

Eng.º João Sargo

Eng.º António Ramos

We are waiting for you...  
Mouraria - Portugal



end