



UNIVERSITÀ
DEGLI STUDI
FIRENZE

DINFO
DIPARTIMENTO DI
INGEGNERIA
DELL'INFORMAZIONE

DISIT
DISTRIBUTED SYSTEMS
AND INTERNET
TECHNOLOGIES LAB



MINISTERO DELL'ISTRUZIONE DELL'UNIVERSITÀ E DELLA RICERCA



Workshop App Development: ServiceMap

<http://www.sii-mobility.org>

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<http://www.Km4City.org>

[Questions to be sent at km4city@disit.org](mailto:km4city@disit.org)



Agenda



- 9:00-10:30 <http://www.disit.org/6993>
 - Sii-Mobility Overview
 - General Model
 - Engaging Users via Apps
 - Overview of development tools for Apps
 - How to Legally work with SDK
 - Planned Additional Modules for the Apps
 - Info and Documents
- 10:30-11:30
 - ServiceMap usage <http://www.disit.org/6994>
 - Smart City API <http://www.disit.org/6995>
- 11:00-12:30 <http://www.disit.org/6992>
 - Sii-Mobility Mobile App Kit on GitHub
 - How to develop new module
- 12:30-13:30: lunch
- 13:30-17:00:
 - Workshop on development: esercitazioni



ServiceMap usage





ServiceMap: Available versions and usages

- Official Service: <http://servicemap.disit.org>
- Test Service: <http://www.disit.org/ServiceMap>
- Why use the Service Map?
 - Make searches on the data collected in the KM4City Knowledge Base in a visual modality
 - Have a set of APIs that can be used in your App



ServiceMap: type of searches (1)



Text Search

Search around a GPS point

Regular Services | Transversal Services

search text into service

Services Categories

De/Select All

☒ Area

☒ Digital location

☒ HappeningNow

☒ Path

☒ Fresh Place

☒ Public Transport Line

☒ Road Sensors

☒ Bus Stops

N. results for each: 200

Search Range: 500 mt

Search Results:

Services: 35 of 35 available

Bus Stops: 13 of 13 available

Road Sensors: 2 of 2 available

72 Bus Lines Found.

Bus Lines:

Bus Line: 23
Direction: NAVE A ROVEZZANO → NUOVO PIGNONE

Bus Line: 23
Direction: SORDANE → NUOVO PIGNONE

Bus Line: 35
Direction: MAGENTA → STAZIONE VIA ALABANI

Weather Forecast for Municipality of FIRENZE

Sunday: light rain and sunny intervals 18°C / 24°C

Monday: cloudy 13°C / 24°C

Tuesday: cloudy 13°C / 25°C

Wednesday: light rain

Thursday: rainstorm

Search for Geo Located Services

Get Events in the city

Regular Services | Transversal Services

search text into service

Services Categories

De/Select All

☒ Area

☒ Digital location

☒ HappeningNow

☒ Path

☒ Fresh Place

☒ Public Transport Line

☒ Road Sensors

☒ Bus Stops

N. results for each: 500

Search Range: 500 mt

Search Results:

Services: 418 of 418 available

Bus Stops: 23 of 23 available

Road Sensors: 2 of 2 available

33 Bus Lines Found.

Bus Line: C2
Direction: PIAZZA BECCARIA → LEOPOLDA

Bus Line: C2
Direction: PIAZZA BECCARIA → LEOPOLDA

Bus Line: 12
Direction: STAZIONE MARCHEGGIO → PIAZZALE

Weather Forecast for Municipality of FIRENZE

Sunday: light rain and sunny intervals 18°C / 24°C

Monday: cloudy 13°C / 24°C

Tuesday: cloudy 13°C / 25°C

Wednesday: light rain

Thursday: rainstorm

Search in an area and have statistics on it

Regular Services | Transversal Services

search text into service

Services Categories

De/Select All

☒ Accommodation

☒ Advertising

☒ AgricultureAndLivestock

☒ CivilAndITEngineering

☒ CulturalActivity

☒ Emergency

☒ Entertainment

☒ Environment

☒ FinancialService

☒ GovernmentOffice

☒ HealthCare

☒ IndustryAndManufacturing

☒ MiningAndQuarrying

☒ ShoppingAndService

☒ TransportService

☒ TransferServiceAndRenting

☒ UtilitiesAndSupply

☒ Wholesale

☒ WineAndFood

N. results: No Limit

231 of 2231 available

Query results organized by category

Total number of results: 2231

Bar chart showing results for various categories:

Category	Results
Accommodation	14
Advertising	21
AgricultureAndLivestock	31
CivilAndITEngineering	31
CulturalActivity	31
Emergency	31
Entertainment	31
Environment	31
FinancialService	31
GovernmentOffice	31
HealthCare	31
IndustryAndManufacturing	31
MiningAndQuarrying	31
ShoppingAndService	31
TransportService	31
TransferServiceAndRenting	31
UtilitiesAndSupply	31
Wholesale	31
WineAndFood	31

Get weather forecast

Get Real Time data (public busses, car parks, sensors, traffic flows)

Regular Services | Transversal Services

search text into service

Services Categories

De/Select All

☒ Area

☒ Digital location

☒ HappeningNow

☒ Path

☒ Fresh Place

☒ Public Transport Line

☒ Road Sensors

☒ Bus Stops

N. results for each: 200

Search Range: 500 mt

Search Results:

Services: 25 of 25 available

Bus Stops: 25 of 25 available

Road Sensors: 3 of 3 available

F1055ZTL01601

Linked Open Graph

Topology: TransferServiceAndRenting - SensorSite

Address: VIA GUELLA

Data from sensor: F1055ZTL01601

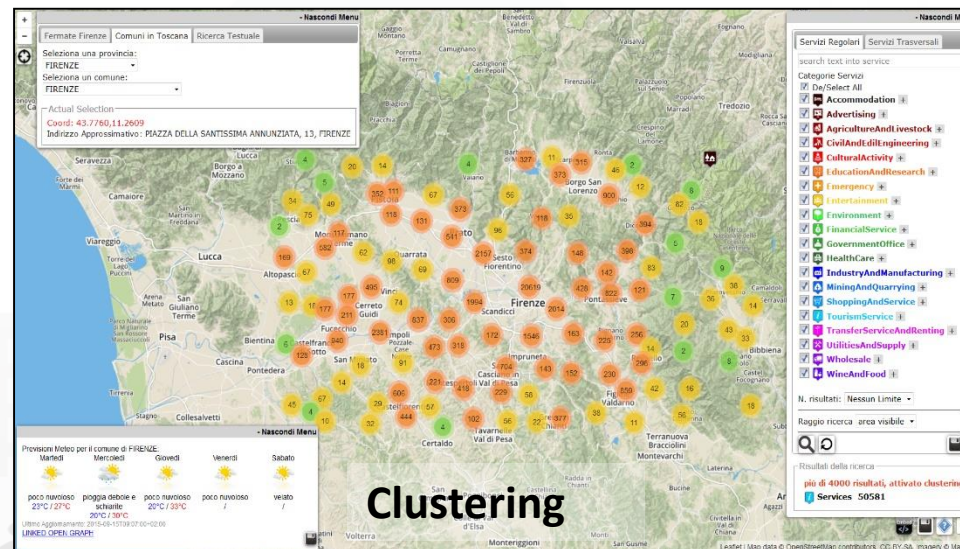
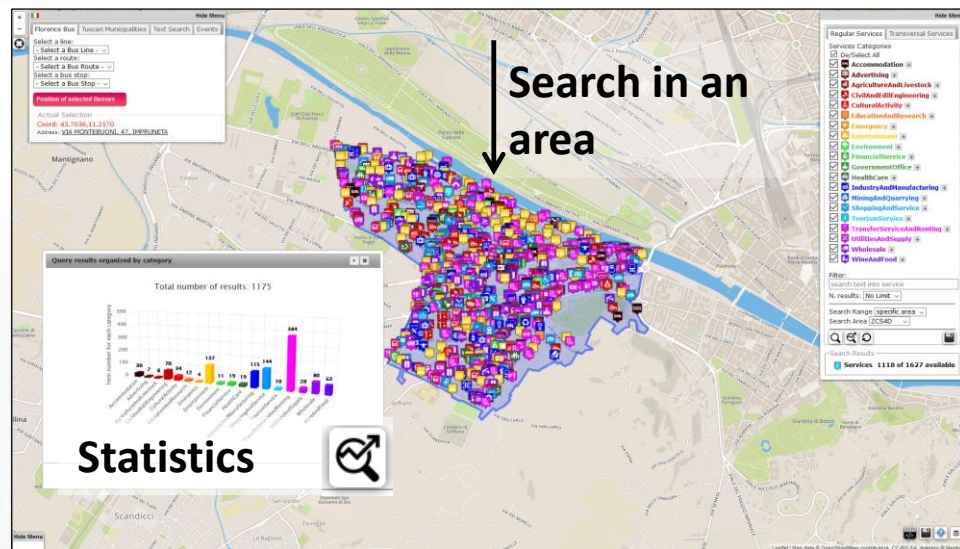
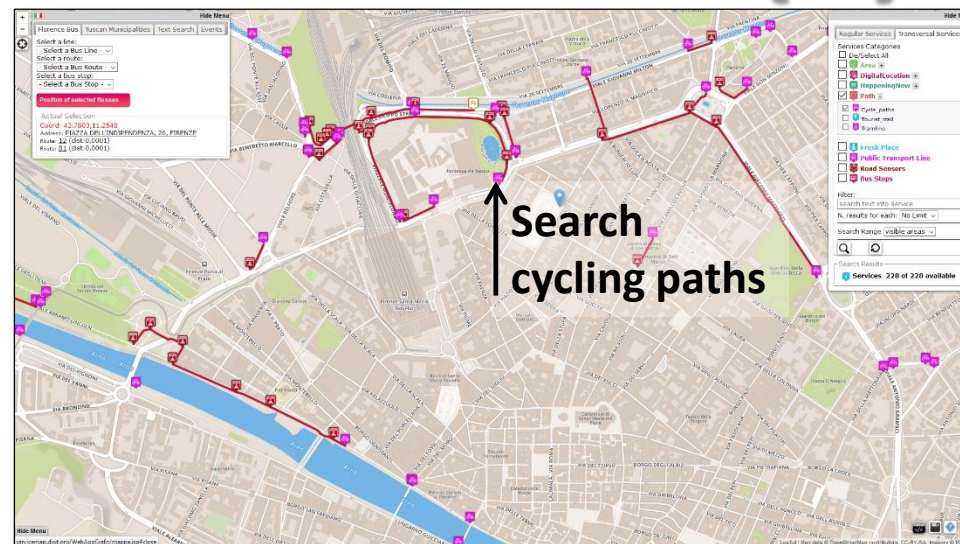
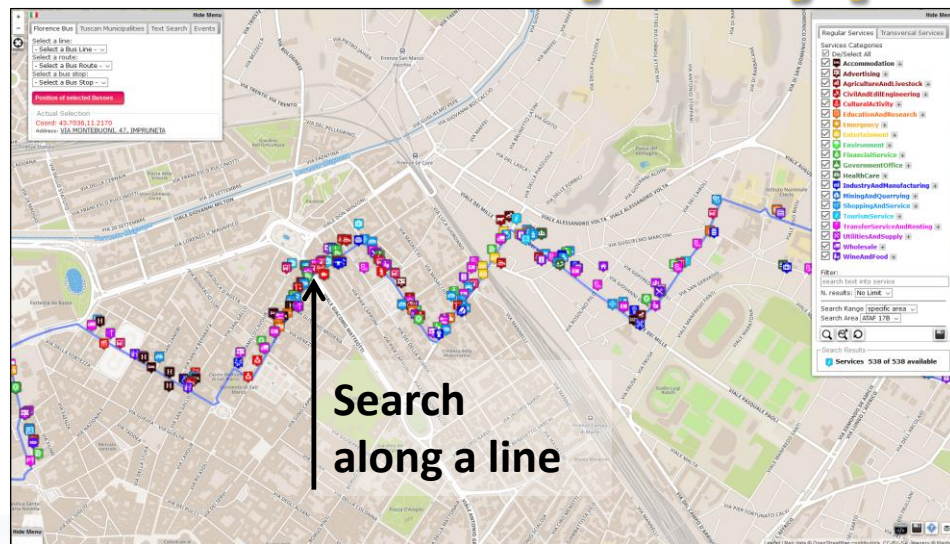
Last Update: 2016-05-08T10:31:35+02:00

Avg Distance(m)	Avg Time (sec)	Occupancy (%)	Concentration (cars/km)
N.A.	N.A.	N.A.	0.0

Vehicle Flow (cars/h)	Avg Speed (km/h)	Threshold Perc (%)	Speed Perc (%)
40.0	0.0	N.A.	N.A.




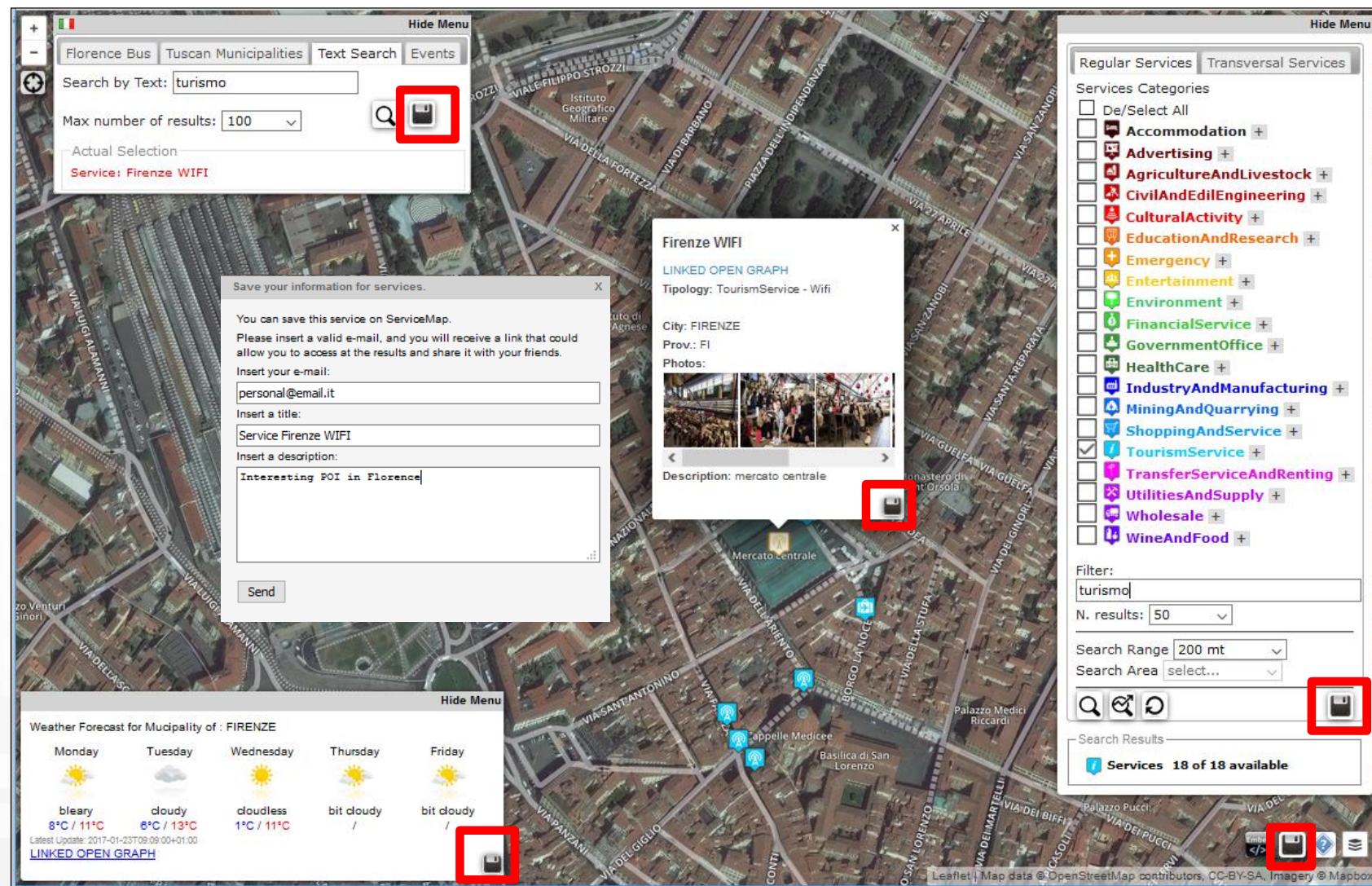
ServiceMap: type of searches (2)





ServiceMap: How receive/use the API?

- Make your search
- Click on the save button 
- Complete the form:
 - E-mail
 - Description on your search
- Look at your e-mail
- Use the API received, in your App





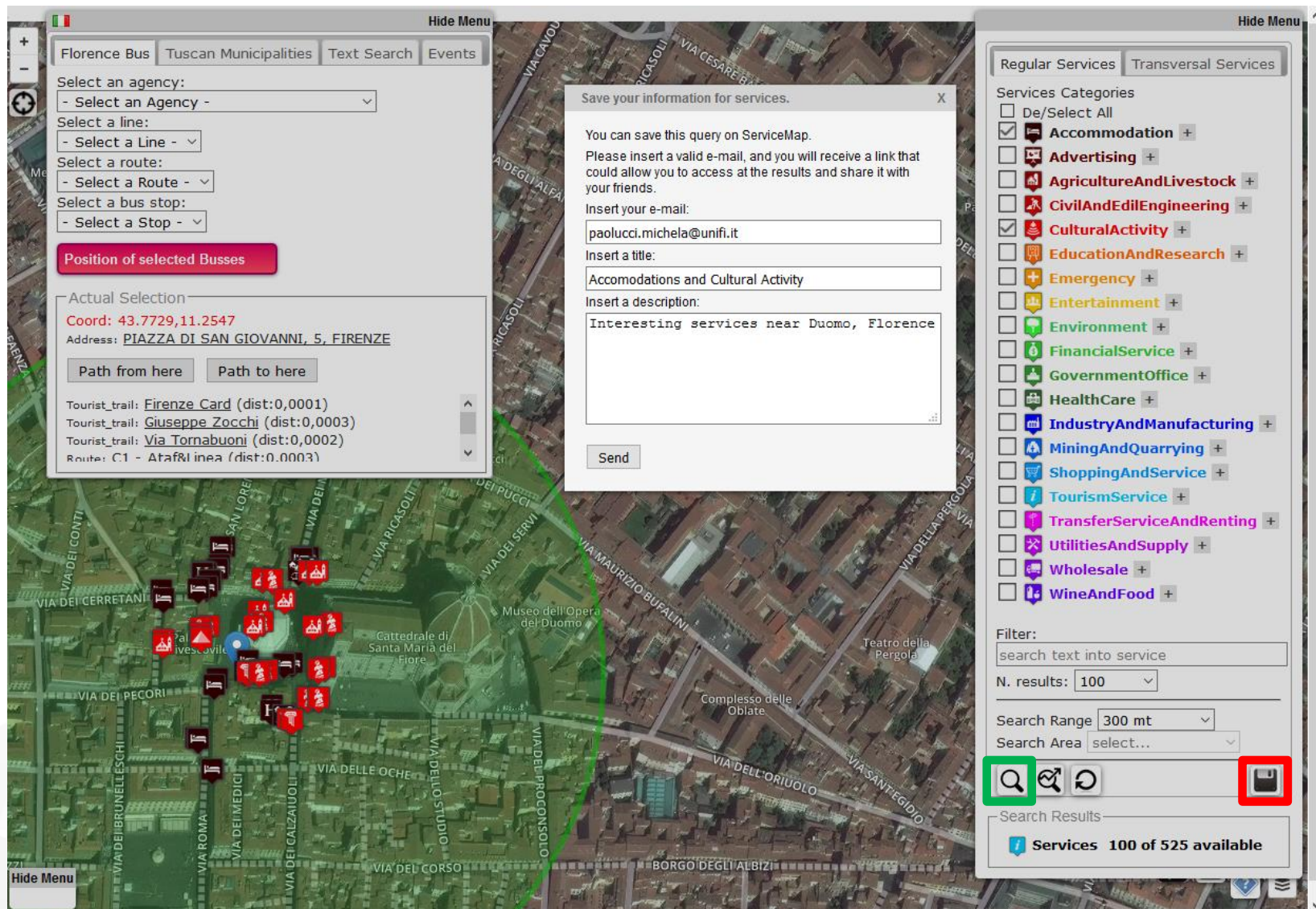
The screenshot displays the ServiceMap web application interface. The main map shows Florence, Italy, with various service overlays. A search bar at the top left contains the text "turismo". Below it, a "Save" button is highlighted with a red box. A pop-up window titled "Firenze WIFI" is visible, showing details about the service and a "Save" button, also highlighted with a red box. A "Save your information for services" form is open, asking for an email, title, and description. The form includes a "Send" button. A weather forecast for Florence is shown at the bottom left. On the right side, a sidebar lists various service categories, and a search results section at the bottom right shows "Services 18 of 18 available". A "Save" button is highlighted with a red box in the bottom right corner of the interface.



ServiceMap: search services around a point (1)



- Select one or more categories from Regular Services (you can also use the textual Filter) and make your search 
- Click on the save button (in the tab **Regular Services**) 
- Complete the form:
 - E-mail
 - Description on your search
- Look at your e-mail
- Use the API received, in your App



The screenshot displays the ServiceMap web application interface. On the left, a sidebar contains search filters for 'Florence Bus', 'Tuscan Municipalities', 'Text Search', and 'Events'. Below these are dropdown menus for selecting an agency, line, route, and bus stop. A 'Position of selected Busses' button is present. The main map area shows a satellite view of Florence with numerous red service markers. A 'Save your information for services' dialog box is open, prompting the user to enter an email address (paolucci.michela@unifi.it), a title ('Accommodations and Cultural Activity'), and a description ('Interesting services near Duomo, Florence'). The 'Send' button is at the bottom of the dialog. On the right, the 'Regular Services' tab is active, showing a list of service categories with checkboxes. The 'Filter' section includes a text input for 'search text into service', a 'N. results' dropdown set to 100, and a 'Search Range' dropdown set to 300 mt. The 'Search Results' section at the bottom indicates 'Services 100 of 525 available'. A magnifying glass icon is highlighted in green, and a save icon is highlighted in red.



ServiceMap: search services around a point (2)

- Receive the 'sent e-mail' message
- Check your e-mail

Save your information for services.

The query has been saved.
A direct url to the query has been sent at the email:
michela.paolucci@unifi.it

Da: info@disit.org
Oggetto: **Your link for query Accomodation and Cultural Activities**
A: Me <michela.paolucci@unifi.it>

Thanks a lot for using Service Map by DISIT at <http://servicemap.disit.org>

Your query "Accomodation and Cultural Activities" has been saved.

Description:
Interesting services near Duomo, Florence

You can access to the query results on Service Map by clicking on these links:

Link for read only result in format json: '<http://www.disit.org/ServiceMap/api/v1?queryId=7fe616b40d19011938a098b7bbe5d471&format=json>'

Link for read only result in html: '<http://www.disit.org/ServiceMap/api/v1?queryId=7fe616b40d19011938a098b7bbe5d471&format=html>'

Link for overwrite this query on Service Map: '<http://www.disit.org/ServiceMap/api/?queryId=c3b52ec8ceba34963f7796f46901f974>'

Link to obtain results in format json based on the coordinates of selection: '<http://www.disit.org/ServiceMap/api/v1?selection=43.7728%3B11.2548&categories=Accommodation%3BCulturalActivity&maxResults=100&maxDists=0.3&format=json>'

Link to obtain results in format html based on the coordinates of selection: '<http://www.disit.org/ServiceMap/api/v1?selection=43.7728%3B11.2548&categories=Accommodation%3BCulturalActivity&maxResults=100&maxDists=0.3&format=html>'

or copy paste it on your browser.

You can share the link with your friends.

Best regards
ServiceMap.disit.org team
You can contact us at info@disit.org or visit our web page at <http://www.disit.org>

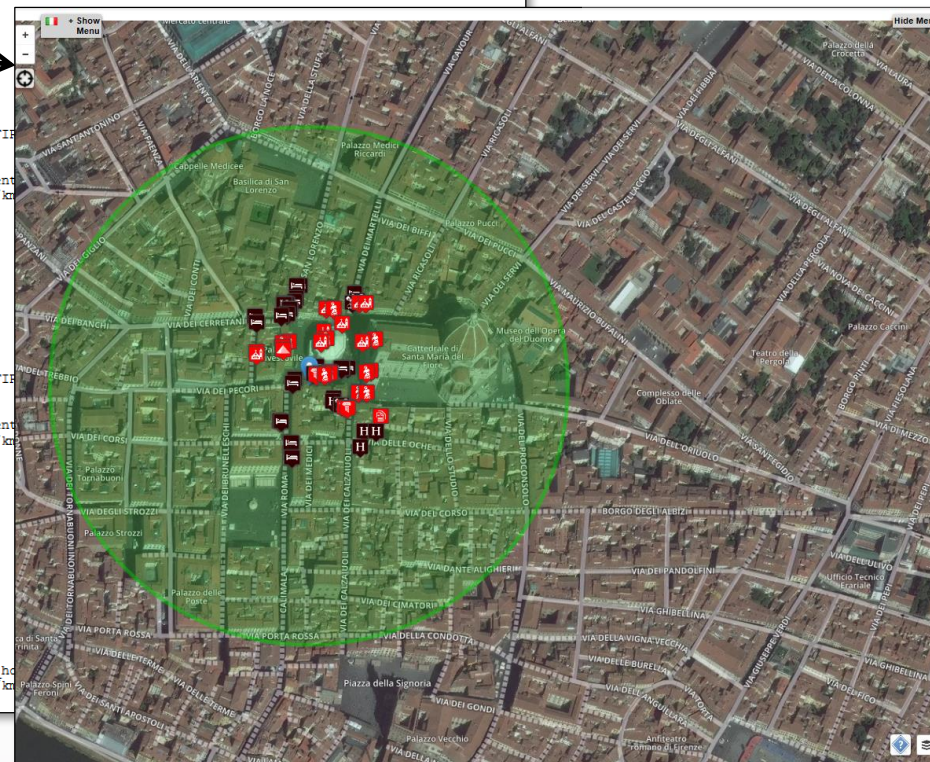


ServiceMap: search services around a point (3)



JSON format

HTML format



```
disit.org
disit.org/ServiceMap/api/v1/?queryId=7fe616b40d19011938a098b7bbe5d471&format=json

"Services":{
  "fullCount": 515,
  "type": "FeatureCollection",
  "features": [
    {
      "geometry": {
        "type": "Point",
        "coordinates": [11.254876, 43.7728]
      },
      "type": "Feature",
      "properties": {
        "name": "DUOMO VIEW",
        "tipo": "Boarding house",
        "typeLabel": "Boarding house",
        "serviceType": "Accommodation Boarding house",
        "serviceUri": "http://www.disit.org/km4city/resource/e1e720b200be55e55369973861dd55ef",
        "multimedia": ""
      },
      "id": 1
    },
    {
      "geometry": {
        "type": "Point",
        "coordinates": [11.254908, 43.77279]
      },
      "type": "Feature",
      "properties": {
        "name": "BATTISTERO DI SAN GIOVANNI A FIESOLE",
        "tipo": "Monument location",
        "typeLabel": "Monument location",
        "serviceType": "CulturalActivity Monument",
        "serviceUri": "http://www.disit.org/km4city/resource/...",
        "multimedia": ""
      },
      "id": 2
    },
    {
      "geometry": {
        "type": "Point",
        "coordinates": [11.254912, 43.772797]
      },
      "type": "Feature",
      "properties": {
        "name": "BATTISTERO DI SAN GIOVANNI A FIESOLE",
        "tipo": "Monument location",
        "typeLabel": "Monument location",
        "serviceType": "CulturalActivity Monument",
        "serviceUri": "http://www.disit.org/km4city/resource/...",
        "multimedia": ""
      },
      "id": 3
    },
    {
      "geometry": {
        "type": "Point",
        "coordinates": [11.254899, 43.772873]
      },
      "type": "Feature",
      "properties": {
        "name": "DUOMO VIEW",
        "tipo": "Boarding house",
        "typeLabel": "Boarding house",
        "serviceType": "Accommodation Boarding house",
        "serviceUri": "http://www.disit.org/km4city/resource/...",
        "multimedia": ""
      },
      "id": 4
    }
  ]
}
```

Da info@disit.org

Oggetto: Your link for query Accommodation and Cultural Activities

A: Me <michela.paolucci@unifi.it>

Thanks a lot for using Service Map by DISIT at <http://servicemap.disit.org>

Your query "Accommodation and Cultural Activities" has been saved.

Description:
Interesting services near Duomo, Florence

You can access to the query results on Service Map by clicking on these links:

Link for read only result in format json: <http://www.disit.org/ServiceMap/api/v1/?queryId=7fe616b40d19011938a098b7bbe5d471&format=json>

Link for read only result in html: <http://www.disit.org/ServiceMap/api/v1/?queryId=7fe616b40d19011938a098b7bbe5d471&format=html>

Link to overwrite this query on Service Map: <http://www.disit.org/ServiceMap/api/?queryId=3b52ec8eba34963f7796f46901f974>

Link to obtain results in format json based on the coordinates of selection: <http://www.disit.org/ServiceMap/api/v1/?selection=43.7728%3B11.2548&categories=Accommodation%3BCulturalActivity&maxResults=100&maxDists=0.3&format=json>

Link to obtain results in format html based on the coordinates of selection: <http://www.disit.org/ServiceMap/api/v1/?selection=43.7728%3B11.2548&categories=Accommodation%3BCulturalActivity&maxResults=100&maxDists=0.3&format=html>

or copy paste it on your browser.



You can share the link with your friends.

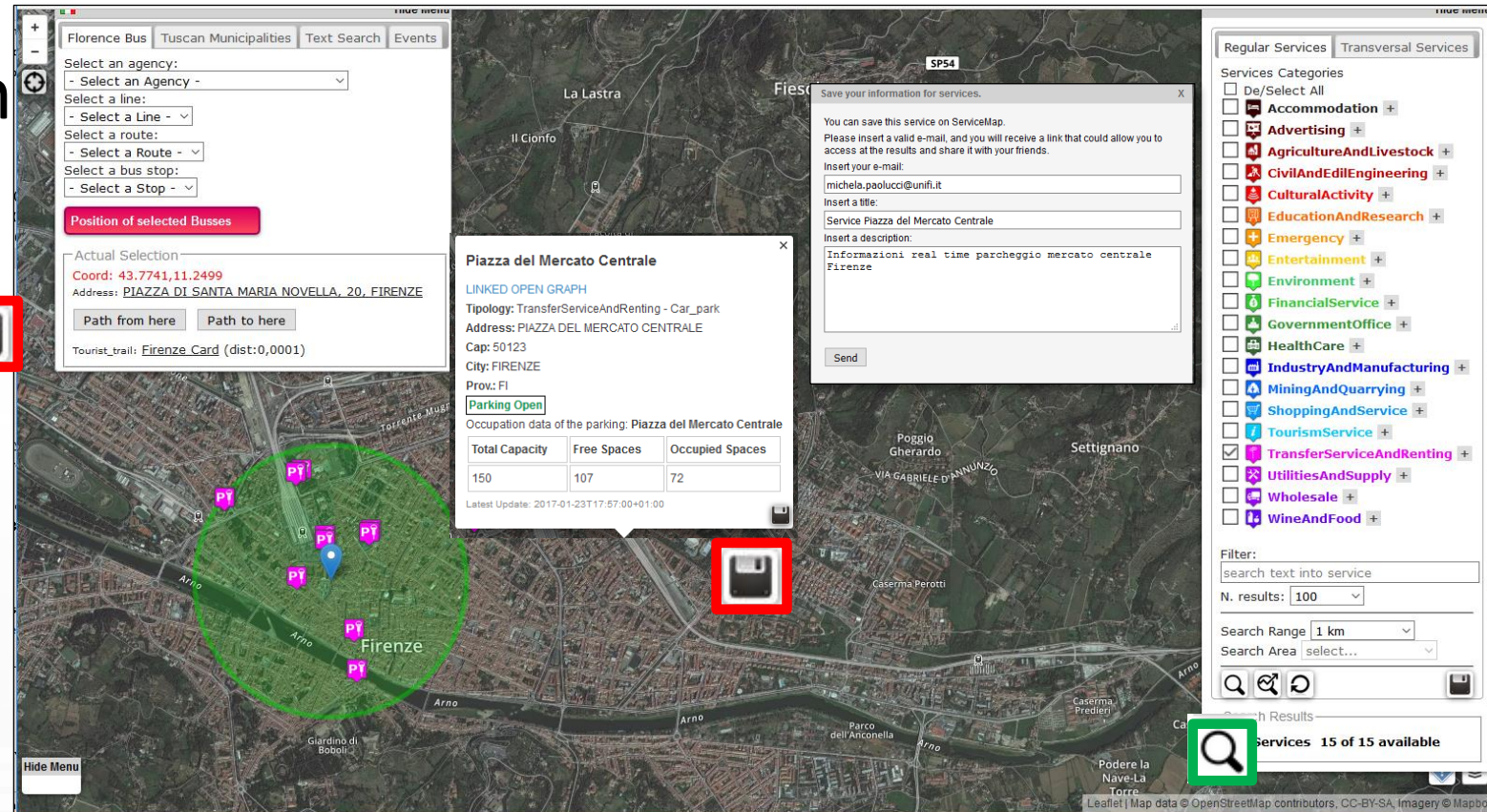
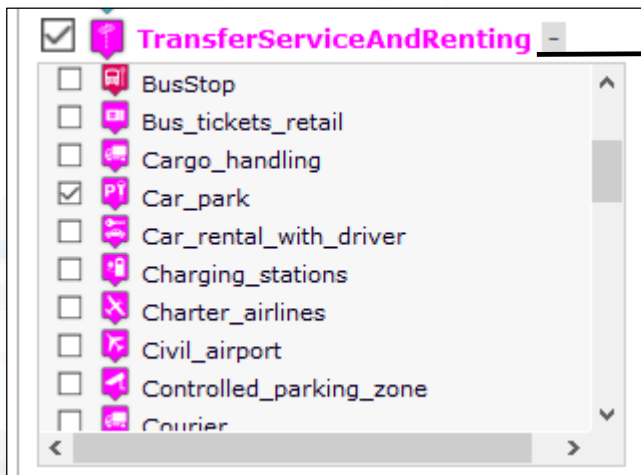
Best regards
ServiceMap.disit.org team
You can contact us at info@disit.org or visit our web page at <http://www.disit.org>

- Follow the links
 - JSON & Html
- Use the API in your APP



ServiceMap: Real time Services (a Car Park 1)

- Select the category 'TransferServiceAndRenting > Car_park' from the Regular Services tab
- Click on the search button 
- Choose your car park
- Click on the save button 
- Complete the form





ServiceMap: Real time Services (a Car Park 2)

Save your information for services.

The service has been saved.
A direct url to the query has been sent at the email:
michela.paolucci@unifi.it

LINKED OPEN

Tipology: TransferServiceAndRenting - Car_park
Address: PIAZZA DEL MERCATO CENTRALE
Cap: 50123
City: FIRENZE
Prov: FI

Parking Open

Occupation data of the parking: Piazza del Mercato Centrale

Total Capacity	Free Spaces	Occupied Spaces
150	107	72

Latest Update: 2017-01-23T17:57:00+01:00

Dis: info@disit.org?

Oggetto: Your link for query Service Piazza del Mercato Centrale

A Me <michela.paolucci@unifi.it>

Thanks a lot for using Service Map by DISIT at <http://servicemap.disit.org>

Your query "Service Piazza del Mercato Centrale" has been saved.

Description:
Informazioni real time parcheggio mercato centrale Firenze

You can access to the query results on Service Map by clicking on these links:

Link for read only result in format json: <http://www.disit.org/ServiceMap/api/v1?queryId=40e40577883bf28bccd7c0bf55bfe3c8&format=json>

Link for read only result in html: <http://www.disit.org/ServiceMap/api/v1?queryId=40e40577883bf28bccd7c0bf55bfe3c8&format=html>

Link for overwrite this query on Service Map: <http://www.disit.org/ServiceMap/api/v1?queryId=ae4a0c0c309a5bd47276b6cca00f8854>

Link to obtain results in format json: <http://www.disit.org/ServiceMap/api/v1?serviceUri=http://www.disit.org/km4city/resource/RT04801700185PO&format=json>

Link to obtain results in format html: <http://www.disit.org/ServiceMap/api/v1?serviceUri=http://www.disit.org/km4city/resource/RT04801700185PO&format=html>

or copy paste it on your browser.

You can share the link with your friends.

Best regards
ServiceMap.disit.org team
You can contact us at info@disit.org or visit our web page at <http://www.disit.org>

JSON format

```
{ "Service":  
  { "type": "FeatureCollection",  
    "features": [  
      {  
        "geometry": {  
          "type": "Point",  
          "coordinates": [ 11.25372, 43.776573 ]  
        },  
        "type": "Feature",  
        "properties": {  
          "name": "Piazza del Mercato Centrale",  
          "typeLabel": "Car park",  
          "serviceType": "TransferServiceAndRenting_Car_park",  
          "phone": "",  
          "fax": "",  
          "website": "",  
          "province": "FI",  
          "city": "FIRENZE",  
          "cap": "50123",  
          "email": "",  
          "linkDbpedia": [],  
          "note": "",  
          "description": "",  
          "description2": "",  
          "multimedia": "",  
          "serviceUri": "http://www.disit.org/km4city/resource/RT04801700185PO",  
          "address": "PIAZZA DEL MERCATO CENTRALE", "civic": "",  
          "photos": [],  
          "photoThumbs": [],  
          "photoOrigins": [],  
          "avgStars": 0.0,  
          "starsCount": 0,  
          "comments": []  
        },  
        "id": 1  
      }  
    ]  
  },  
  "realtime":  
  { "head": { "parkingArea": [ "Piazza del Mercato Centrale" ], "vars": { "capacity", "freeParkingLots",  
    "results": {  
      "bindings": {  
        "capacity": { "value": "150" }, "freeParkingLots": { "value": "113" }, "occupiedParkingLots": { "value": "72" }  
      }  
    }  
  }  
}
```

HTML format

LINKED OPEN GRAPH

Tipology: TransferServiceAndRenting - Car_park
Address: PIAZZA DEL MERCATO CENTRALE
Cap: 50123
City: FIRENZE
Prov: FI

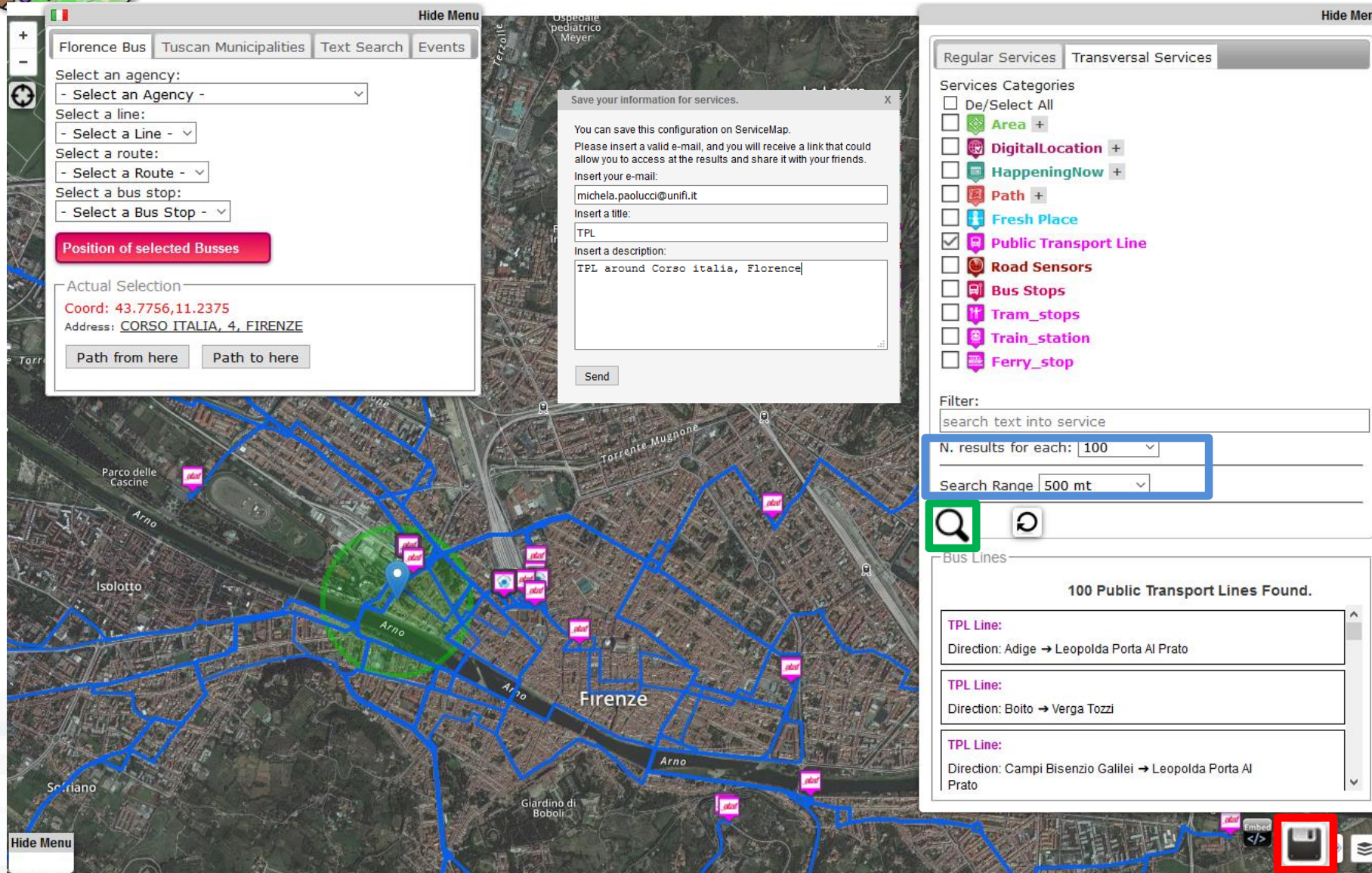
Parking Open

Occupation data of the parking: Piazza del Mercato Centrale

Total Capacity	Free Spaces	Occupied Spaces
150	113	66

Latest Update: 2017-01-23T18:17:00+01:00





- Select the category 'Public Transport Line' from the Transversal Services tab
- Select:
 - Number of results
 - Range
- Click on the search button
- Click on the save button
- Complete the form



ServiceMap: TPL (2)



JSON format

```
{
  "Services": {
    "fullCount": 30,
    "type": "FeatureCollection",
    "features": [
      {
        "geometry": {
          "type": "Point",
          "coordinates": [11.237404, 43.775467]
        },
        "type": "Feature",
        "properties": {
          "name": "STIRERIA DORIS S.R.L. UNIPERSONALE",
          "tipo": "Textile_Manufacturing",
          "typeLabel": "Textile_Manufacturing",
          "serviceType": "IndustryAndManufacturing_Textile_manufacturing",
          "serviceUri": "http://www.disit.org/km4city/resource/7243fae3cde1a5fde2c5edccde4bdeaf",
          "multimedia": ""
        },
        "id": 1
      },
      {
        "geometry": {
          "type": "Point",
          "coordinates": [11.237404, 43.775467]
        },
        "type": "Feature",
        "properties": {
          "name": "EL-SID S.R.L.",
          "tipo": "Wholesale_Food_Beverages_Tobacco",
          "typeLabel": "Wholesale_Food_Beverages_Tobacco",
          "serviceType": "Wholesale_Wholesale_food_beverages_tobacco",
          "serviceUri": "http://www.disit.org/km4city/resource/02638525f9c9d4d84b71601c1366e5435",
          "multimedia": ""
        },
        "id": 2
      }
    ]
  }
}
```

Save your information for services.

The configuration has been saved.

It can be accessed at <http://www.disit.org/ServiceMap/api/embed/?idConf=fab79678a572cdaafcdcb675eeb16012>

A direct url to the query has been sent at the email: michela.paolucci@unifi.it

Da info@disit.org

Oggetto: Your link for query TPL

A Me <michela.paolucci@unifi.it>

Thanks a lot for using Service Map by DISIT at <http://servicemap.disit.org>

Your query "TPL" has been saved.

Description:

TPL around Corso italia, Florence

You can access to the query results on Service Map by clicking on these links:

Link for read only result in format json: <http://www.disit.org/ServiceMap/api/v1?queryId=fab79678a572cdaafcdcb675eeb16012&format=json>

Link for read only result in html: <http://www.disit.org/ServiceMap/api/v1?queryId=fab79678a572cdaafcdcb675eeb16012&format=html>

Link for overwrite this query on Service Map: <http://www.disit.org/ServiceMap/api/?queryId=ea5612d6dc7c57c7b2c8ddf144f04578>

Link for access to your configuration: <http://www.disit.org/ServiceMap/api/embed/?idConf=fab79678a572cdaafcdcb675eeb16012>

or copy paste it on your browser.

You can share the link with your friends.

Best regards

ServiceMap.disit.org team

You can contact us at info@disit.org or visit our web page at <http://www.disit.org>

HTML format





Search a sensor in a Visible Area, RealTime, Embed (1)



The screenshot displays the Sii-Mobility web application interface. On the left, a sidebar contains filters for 'Florence Bus' and 'Tuscan Municipalities'. A 'Position of selected Busses' button is visible. The main map area shows a satellite view of Florence with a cluster of red sensor markers. A popup window for 'METRO806' is open, displaying the following data:

METRO806
LINKED OPEN GRAPH
Tipology: TransferServiceAndRenting - SensorSite
Address: Careggi (dir. Careggi)
Data from sensor: METRO806
Latest Update: 2017-01-18T09:41:00+01:00

Avg Distance(m)	Avg Time (sec)	Occupancy (%)	Concentration (car/km)
N.A.	11.05884	N.A.	18.732

Vehicle Flow (car/h)	Avg Speed (Km/h)	Threshold Perc (%)	Speed Perc (%)
594.0	12.48	N.A.	N.A.

On the right, a sidebar shows 'Regular Services' and 'Transversal Services' tabs. Under 'Transversal Services', 'Road Sensors' is selected. A search filter is set to 'visible areas', and the results show '100 of 225 available'.

- Select the category 'Road Sensors' from the Transversal Services tab
- Search on 'Visible area'
- Select one Sensor (e.g. Metro806)
- Click on the search button
- Click on the save button
- Complete the form
- Check your e-mail



Search a sensor in a Visible Area, RealTime, Embed (1)



Da info@disit.org

Oggetto: Your link for query Service METRO806

A Me <michela.paolucci@unifi.it>

Thanks a lot for using Service Map by DISIT at <http://servicemap.disit.org>

Your query "Service METRO806" has been saved.

Description:
Road sensor (Embed modality)

You can access to the query results on Service Map by clicking on these links:

Link for read only result in format json: <http://www.disit.org/ServiceMap/api/v1?queryId=446b24123abf4483b4df2396276a620c&format=json>

Link for read only result in html: <http://www.disit.org/ServiceMap/api/v1?queryId=446b24123abf4483b4df2396276a620c&format=html>

Link for overwrite this query on Service Map: <http://www.disit.org/ServiceMap/api/?queryId=b1f93b1412ceb372734f9cc4d4368266>

Link to obtain results in format json : <http://www.disit.org/ServiceMap/api/v1?serviceUri=http://www.disit.org/km4city/resource/METRO806&format=json>

Link to obtain results in format html : <http://www.disit.org/ServiceMap/api/v1?serviceUri=http://www.disit.org/km4city/resource/METRO806&format=html>

or copy paste it on your browser.

You can share the link with your friends.

Best regards
ServiceMap.disit.org team
You can contact us at info@disit.org or visit our web page at <http://www.disit.org>

JSON format

```
{
  "Sensor": {
    "type": "FeatureCollection", "features": [
      {
        "geometry": {
          "type": "Point",
          "coordinates": [
            11.26052,
            43.76833
          ]
        },
        "photos": [],
        "photoThumbs": [],
        "photoOrigins": [],
        "avgStars": 0.0,
        "starsCount": 0,
        "comments": [],
        "id": 1
      }
    ]
  },
  "realtime": {
    "head": {
      "sensor": [ "METRO806" ],
      "vars": [ "avgDistance", "avgTime", "occupancy", "concentration" ]
    },
    "results": {
      "bindings": [
        {
          "avgDistance": { "type": "literal", "value": "Not Available" },
          "avgTime": { "type": "literal", "value": "11.05884" },
          "occupancy": { "type": "literal", "value": "Not Available" },
          "concentration": { "type": "literal", "value": "18.732" },
          "vehicleFlow": { "type": "literal", "value": "594.0" },
          "averageSpeed": { "type": "literal", "value": "12.48" },
          "thresholdPerc": { "type": "literal", "value": "Not Available" },
          "speedPercentile": { "type": "literal", "value": "Not Available" },
          "instantTime": { "type": "literal", "value": "2017-01-18T09:41:00+01:00" }
        }
      ]
    }
  }
}
```

HTML format

METRO806

LINKED OPEN GRAPH

Tipology: TransferServiceAndRenting - SensorSite

Address: Careggi (dir. Careggi)

Data from sensor: METRO806

Latest Update: 2017-01-18T09:41:00+01:00

Avg Distance(m)	Avg Time (sec)	Occupancy (%)	Concentration (car/km)
N.A.	11.05884	N.A.	18.732
Vehicle Flow (car/h)	Avg Speed (Km/h)	Threshold Perc (%)	Speed Perc (%)
594.0	12.48	N.A.	N.A.



TextSearch: dante (1)



The screenshot shows the KM4CITY Text Search interface. The search bar contains the text 'dante'. The search results are displayed on a map of Tuscany, showing various locations and services. The search results are categorized into Regular Services and Transversal Services. The search results are also displayed in a list on the right side of the interface. The search results are categorized into Regular Services and Transversal Services. The search results are also displayed in a list on the right side of the interface.

Search by Text: dante

Max number of results: 200

Actual Selection: No selection

Save your information for services.

You can save this free text search on ServiceMap. Please insert a valid e-mail, and you will receive a link that could allow you to access at the results and share it with your friends.

Insert your e-mail: michela.paolucci@unifi.it

Insert a title: A free text search

Insert a description: Dante

Send

Weather Forecast for Municipality of: FIRENZE

Lunedì	Martedì	Mercoledì	Giovedì	Venerdì
velato	nuvoloso	sereno	poco nuvoloso	poco nuvoloso
8°C / 11°C	6°C / 13°C	1°C / 11°C	/	/

Latest Update: 2017-01-23T09:09:00+01:00

[LINKED OPEN GRAPH](#)

Services 200 of 13341 available

- Write your text in the 'Text Search tab'
- Click on save and then on the search button
- Complete the form
- Check your e-mail



TextSearch: dante (2)



JSON format

```
{
  "fullCount": 13402,
  "type": "FeatureCollection",
  "features": [
    {
      "geometry": {
        "type": "Point",
        "coordinates": [11.2981, 43.333]
      },
      "type": "Feature",
      "properties": {
        "serviceUri": "http://www.disit.org/km4city/resource/Bus_sienamobilita_Stop_S0083_13",
        "name": "Dante 3",
        "tipo": "servizio",
        "photoThumbs": [],
        "multimedia": "",
        "civic": ""
      },
      "serviceType": "TransferServiceAndRenting_BusStop",
      "typeLabel": "Bus Stop",
      "busLines": "0S5 - 0S9 - 572 - 60N - S37 - S77",
      "agency": "Siena Mobilità",
      "agencyUri": "http://www.disit.org/km4city/resource/Bus_sienamobilita_Agency_167",
      "id": 1
    },
    {
      "geometry": {
        "type": "Point",
        "coordinates": [11.2965, 43.3309]
      },
      "type": "Feature",
      "properties": {
        "serviceUri": "http://www.disit.org/km4city/",
        "name": "Dante",
        "tipo": "servizio",
        "photoThumbs": [],
        "multimedia": "",
        "civic": ""
      },
      "serviceType": "TransferServiceAndRenting_B",
      "typeLabel": "Bus Stop",
      "busLines": "0S5 - 0S9 - 572 - 60N - S37 -",
      "agency": "Siena Mobilità",
      "agencyUri": "http://www.disit.org/km4city/",
      "id": 2
    }
  ]
}
```

HTML format

Da info@disit.org

Oggetto: Your link for query A free text search

A: Me <michela.paolucci@unifi.it>

Thanks a lot for using Service Map by DISIT at <http://servicemap.disit.org>

Your query "A free text search" has been saved.

Description:
Dante

You can access to the query results on Service Map by clicking on these links:

Link for read only result in format json: <http://localhost:8080/ServiceMap/api/v1?queryId=2506c48481fd6cb5fbc0215eda6fbc6c&format=json>

Link for read only result in html: <http://localhost:8080/ServiceMap/api/v1?queryId=2506c48481fd6cb5fbc0215eda6fbc6c&format=html>

Link for overwrite this query on Service Map: <http://localhost:8080/ServiceMap/api/v1?queryId=e2ec36a010916634bdca8c4900694ac8>

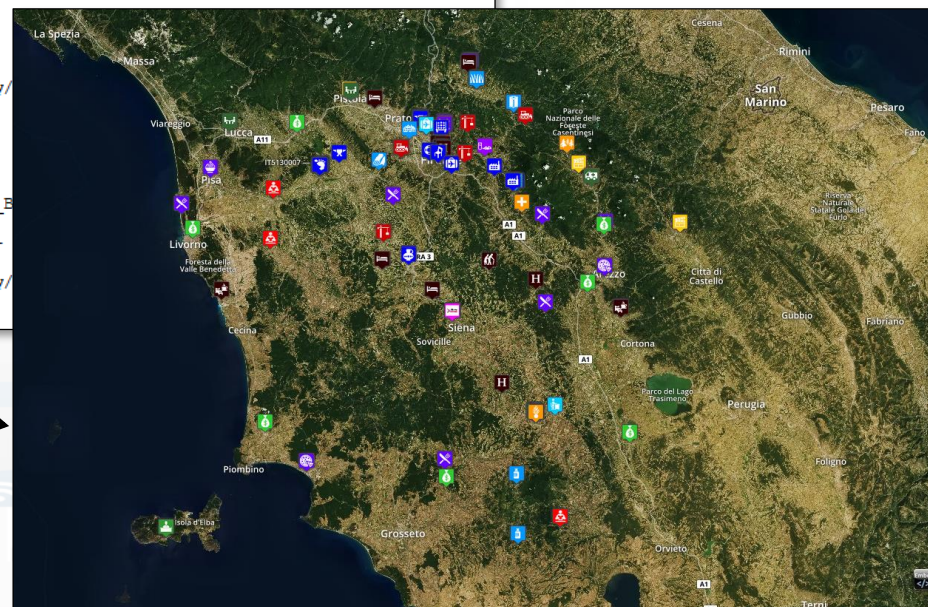
Link to obtain results in format json: <http://localhost:8080/ServiceMap/api/v1?search=dante&selection=&limit=100&format=json>

Link to obtain results in format html: <http://localhost:8080/ServiceMap/api/v1?search=dante&limit=100&format=html>

or copy paste it on your browser.

You can share the link with your friends.

Best regards
ServiceMap.disit.org team
You can contact us at info@disit.org or visit our web page at <http://www.disit.org>





Events (1)



JSON format

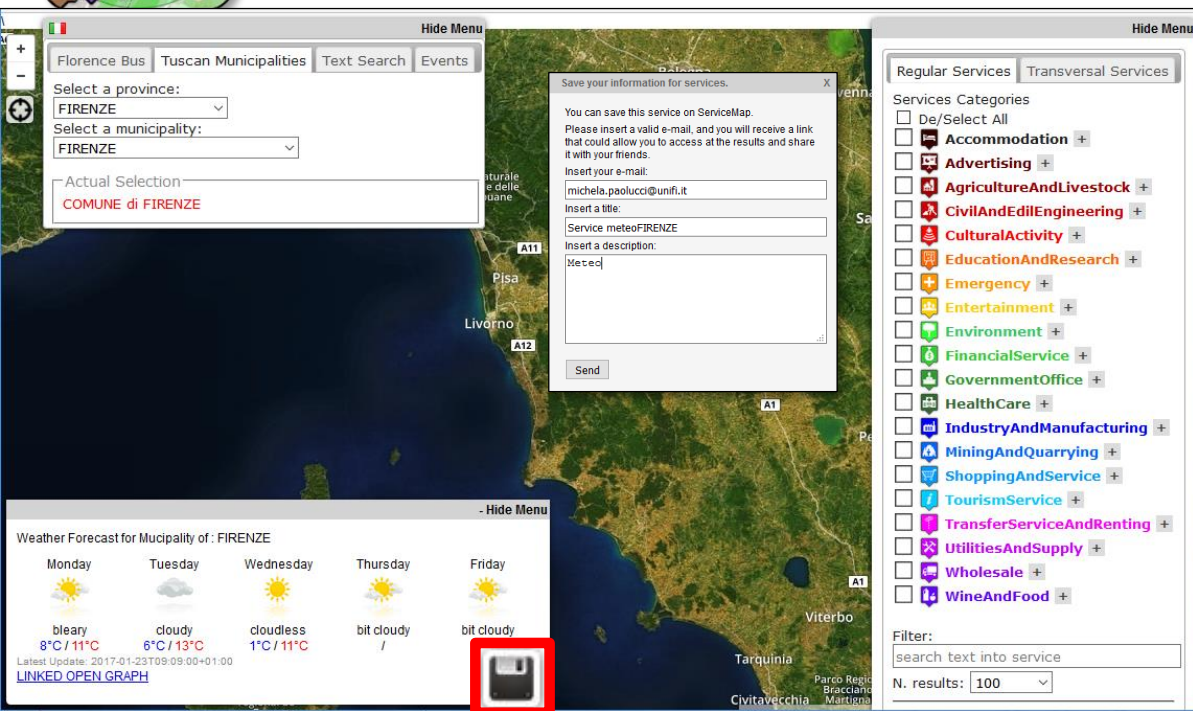
```
{ "Event": { "type": "FeatureCollection", "features": [
  { "geometry": { "type": "Point", "coordinates": [ 11.251058, 43.769848 ] }, "type": "Feature", "properties": {
    "geometry": { "type": "Point", "coordinates": [ 11.251058, 43.769848 ] }, "type": "Feature", "properties": {
    "geometry": { "type": "Point", "coordinates": [ 11.261258, 43.77657 ] }, "type": "Feature", "properties": {
    "geometry": { "type": "Point", "coordinates": [ 11.261258, 43.77657 ] }, "type": "Feature", "properties": {
    "geometry": { "type": "Point", "coordinates": [ 11.249968, 43.765274 ] }, "type": "Feature", "properties": {
    "geometry": { "type": "Point", "coordinates": [ 11.255981, 43.763916 ] }, "type": "Feature", "properties": {
    "geometry": { "type": "Point", "coordinates": [ 11.255981, 43.763916 ] }, "type": "Feature", "properties": {
    "geometry": { "type": "Point", "coordinates": [ 11.258695, 43.773636 ] }, "type": "Feature", "properties": {
    "geometry": { "type": "Point", "coordinates": [ 11.258695, 43.773636 ] }, "type": "Feature", "properties": {
    "geometry": { "type": "Point", "coordinates": [ 11.269648, 43.768646 ] }, "type": "Feature", "properties": {
    "geometry": { "type": "Point", "coordinates": [ 11.269648, 43.768646 ] }, "type": "Feature", "properties": {
    "geometry": { "type": "Point", "coordinates": [ 11.269648, 43.768646 ] }, "type": "Feature", "properties": {
    "geometry": { "type": "Point", "coordinates": [ 11.242564, 43.779957 ] }, "type": "Feature", "properties": {
    "geometry": { "type": "Point", "coordinates": [ 11.242564, 43.779957 ] }, "type": "Feature", "properties": {
    "geometry": { "type": "Point", "coordinates": [ 11.242564, 43.779957 ] }, "type": "Feature", "properties": {
    "geometry": { "type": "Point", "coordinates": [ 11.249011, 43.772987 ] }, "type": "Feature", "properties": {
    "geometry": { "type": "Point", "coordinates": [ 11.249011, 43.772987 ] }, "type": "Feature", "properties": {
    "geometry": { "type": "Point", "coordinates": [ 11.249011, 43.772987 ] }, "type": "Feature", "properties": {
    "geometry": { "type": "Point", "coordinates": [ 11.295718, 43.76684 ] }, "type": "Feature", "properties": {
    "geometry": { "type": "Point", "coordinates": [ 11.262199, 43.76698 ] }, "type": "Feature", "properties": {
    "geometry": { "type": "Point", "coordinates": [ 11.262199, 43.76698 ] }, "type": "Feature", "properties": {
    "geometry": { "type": "Point", "coordinates": [ 11.262199, 43.76698 ] }, "type": "Feature", "properties": {
```

- Search events

- Day
- Week
- Month



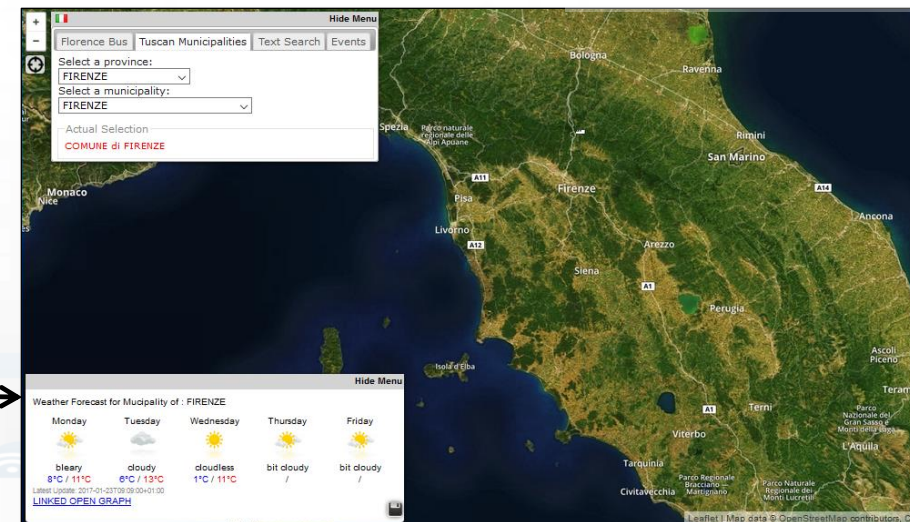
Meteo



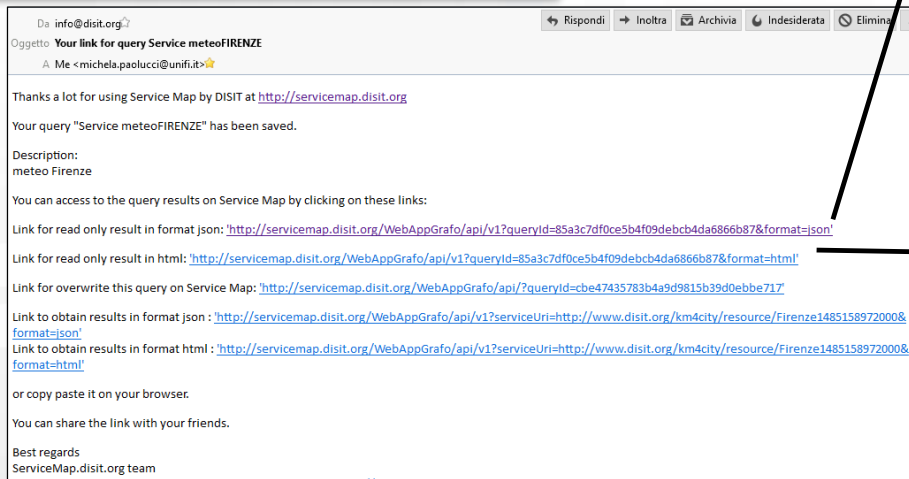
JSON format

```
{ "head": { "location": "FIRENZE", "vars": { "day", "description", "minTemp", "maxTemp", "instantDateTime" } },  
  "results": {  
    "bindings": [  
      { "day": { "type": "literal", "value": "Lunedì" }, "description": { "type": "literal", "value": "velato" }, "minTemp": { "type": "  
      { "day": { "type": "literal", "value": "Martedì" }, "description": { "type": "literal", "value": "nuvoloso" }, "minTemp": { "type": "  
      { "day": { "type": "literal", "value": "Mercoledì" }, "description": { "type": "literal", "value": "sereno" }, "minTemp": { "type": "  
      { "day": { "type": "literal", "value": "Giovedì" }, "description": { "type": "literal", "value": "poco nuvoloso" }, "minTemp": { "  
      { "day": { "type": "literal", "value": "Venerdì" }, "description": { "type": "literal", "value": "poco nuvoloso" }, "minTemp": { "
```

HTML format



- Select the locality (one on the Tuscan Municipalities)





Documentation



- **Documentation Smart City API, version 1, January 2017**
 - <http://www.disit.org/6991> (document from Sii-Mobility)
- **App Kit development page:**
 - <http://www.disit.org/6977> (slides ready, and video to appear)
- **Ontology and Km4City Tools:**
 - <Http://www.km4city.org>
 - <http://www.disit.org/6506> Ontology and documentation
- **Sii-Mobility is Open Source on GitHub as DISIT lab:**
 - <https://github.com/disit>
 - <https://github.com/disit/siiMobilityAppKit> (mobile App kit)
- **Data Ingestion processes and tools, tutorial:**
 - <http://www.sii-mobility.org/index.php/documentazione/slide-e-altro>
 - <http://www.disit.org/6690>
- **Deliverables of Sii-Mobility:**
 - <http://www.sii-mobility.org/index.php/documentazione/deliverable>
- **FAQ of Sii-Mobility:**
 - <http://www.sii-mobility.org/index.php/il-progetto/faq>
- **Promotional Kit for «Toscana dove cosa App»**
 - <http://www.sii-mobility.org/index.php/documentazione/kit-promozionale-app-toscana>



Open Source



Km4City, Sii-Mobility, RESOLUTE, REPLICATE: smart city big data open source tools. Km4City is a knowledge base and a research line of DISIT lab mainly developed before the start of Sii-Mobility, RESOLUTE, REPLICATE projects. While it has been mainly improved by them. Those projects are complementar each other and almost all of them use and contribute the Km4City research line. [ServiceMap smart city knowledge base tool](#): smart city service tool (mainly developed for Sii-Mobility project) for accessing to km4city knowledge base, for service browsing and query, for [Smart City API](#) for mobile and for mobile development tool, <http://www.disit.org/km4city>



- [Km4City ontology model and files](#) are accessible from <http://www.disit.org/km4city> improved with the support of projects as Sii-mobility, REPLICATE and RESOLUTE



- [SCE, Smart City/Cloud Engine front end interface](#), SCE is part of [DISCES](#) a Distributed SCE Scheduler Tools (SCE: Smart City/Cloud Engine), a DISIT tool for smart environments. It is currently in use in [Km4City](#) tools, and in [ICARO Cloud project and service, see CLOUD page. Developed for ICARO, and then improved for Sii-Mobility, and used in many other projects](#)



- [SCE, Smart City/Cloud Engine backend](#), SCE is part of [DISCES](#) a Distributed SCE Scheduler Tools (SCE: Smart City/Cloud Engine), a DISIT tool for smart environments. It is currently in use in [Km4City](#) tools, and in [ICARO Cloud project and service, see CLOUD page. Developed for ICARO, and then improved for Sii-Mobility, and used in many other projects](#)



- [DIM-RIM](#): Data Ingestion Manager and RDF Indexing Manager, [WEB page on DISIT lab with user manuals, DIM and RIM](#) area used in [Km4City](#) and tools, [Sii-Mobility](#) smart city national SCN project, [RESOLUTE H2020](#)



- [Dashboard Builder and executor](#): a tool for creating dashboard for smart city. See Km4City example of dashboard as reported in <http://www.km4city.org/controlroomtools.html> for the documentation see <http://www.disit.org/6935> which is manual with examples regarding widgets. Developed for REPLICATE Project, and used in others as Sii-Mobility, RESOLUTE.



- [Sii-Mobility Dev Kit Mobile AppKm4city](#): Open Source version of the Sii-Mobility mobile and web app, open modular (the full version is operative and accessible on all stores as "Firenze dove cosa", or "Toscana dove cosa", you can install from <http://www.km4city.org/app>). Developed for Sii-Mobility, adopted for the training and development meeting of the 24 January 2017, and as a basis for the Hackathon of 7-8 April 2017 in Florence.

Acknowledgement

- Thanks to the European Commission for founding. All slides reporting logo of **RESOLUTE H2020** are representing tools and research founded by European Commission for the RESOLUTE project. **RESOLUTE** has received funding from the European Research Council (ERC) under the European Union's Horizon 2020 research and innovation programme (grant agreement n° 653460).
- Thanks to the European Commission for founding. All slides reporting logo of **REPLICATE H2020** are representing tools and research founded by European Commission for the REPLICATE project. **REPLICATE** has received funding from the European Research Council (ERC) under the European Union's Horizon 2020 research and innovation programme (grant agreement n° 691735).
- Thanks to the MIUR for co-founding and to the University of Florence and companies involved. All slides reporting logo of **Sii-Mobility** are representing tools and research founded by MIUR for the Sii-Mobility SCN MIUR project.
- **Km4City** is an open technology exploited by those projects and line of research of DISIT Lab. Some of the innovative solutions and research issues developed into the above mentioned projects are also compliant and contributing to the Km4City approach and thus are contributing to the open Km4City model of DISIT lab.





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DIPARTIMENTO DI
INGEGNERIA
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DISIT
DISTRIBUTED SYSTEMS
AND INTERNET
TECHNOLOGIES LAB



MINISTERO DELL'ISTRUZIONE DELL'UNIVERSITÀ E DELLA RICERCA



Workshop App Development: ServiceMap

<http://www.sii-mobility.org>

Michela Paolucci, michela.paolucci@unifi.it



<http://www.Km4City.org>

