CitySDK

Uniform Development Toolkit for City Services

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What is SDK?

SDK = Service Development Kit
Problem: Lack of Interoperability

Formats and APIs vary between cities
- ‘Open’ interfaces to existing systems are not uniform even within cities
- Documentation is lacking as well

Scaling an app from one city to another
Solution: CityAPIs

CityAPIs
Open uniform interfaces

Scaling an app from one city to another

CityServiceDevelopment Kit
Co-funded by the European Union
CitySDK Ecosystem

- Public delivery Infrastructures
- App Stores

Engaged SME Developers’ new Services exploiting the City SDK ecosystem, or open source pilot apps

Project Pilots
Demonstrators, open source CitySDK components

Unified Open City Interfaces through Pilots as CitySDK components

Cities’ prior platforms, services, interfaces, open data
CitySDK coverage

The Lead Pilots are replicated in other CitySDK Partner cities.

2012 Preparation stage

01/2013 Lead Pilots

06/2013 Replication Pilots
1. Smart Participation
Applications using Participation API

Pitäiskö fiksata (Should this be fixed):
metro.fi/fiksaus

Korja Kaupunki (Fix the City):
http://korjaakaupunki.fi/
2. Tourism
Applications using Tourism API

**Spot in Lisbon**: https://play.google.com/store/apps/details?id=in.spotinlis&hl=en

**Spot in Helsinki**: https://play.google.com/store/apps/details?id=in.spotinhki&hl=en


**POIs and Events in Amsterdam**: http://citysdk.dmci.hva.nl/map/
3. Smart Mobility
Smart Mobility

→ services on real-time traffic data from multiple sources

→ Results: open source travel assistant application,
→ several harmonized cities’ backend systems,
→ cluster of SME developers working on value-added services for Smart Mobility
Multimodal World
LD Architecture

Amsterdam

Helsinki

Istanbul

Planner

3rd Party
<table>
<thead>
<tr>
<th></th>
<th>Amsterdam</th>
<th>Netherlands</th>
<th>Helsinki</th>
<th>Istanbul</th>
<th>Lamia</th>
<th>Manchester</th>
<th>Rome</th>
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About CitySDK Linked Open Data Distribution API

The CitySDK Linked Open Data Distribution API is a linked data distribution platform. Developed by Waag Society, the distribution API is a component of the CitySDK toolkit. This toolkit supports the development of open and interoperable interfaces for open data and city services in eight European cities (Amsterdam, Helsinki, Manchester, Lisbon, Istanbul, Lamia, Rome and Barcelona). The CitySDK Linked Open Data Distribution API enables the distribution and linking of open data sets and city services. This website explains the distribution API. For a comprehensive overview of the complete CitySDK toolkit have a look at the CitySDK project homepage.

Benefits

1. CitySDK Linked Open Data Distribution API is a one-stop-shop for developers. With standardized interfaces, developers can build better apps and services for end users and governments.
2. Moveable code – developers can use the same interface for open data, in Amsterdam, Helsinki and Istanbul alike.
3. The API enables the Read/Write City: per layer, data can be added to objects the city, using URIs.
4. Data exchange between citizens and the city will become open, more efficient and more transparent data.
5. The API enables innovation for businesses, media and citizens, and Manages the constant technological change: adding new datasets and services is made easy.

Links

- CitySDK project site
- CitySDK Linked Open Data Distribution API endpoint
- Visualization of CitySDK Mobility data
- Map with building and address data
- Additional APIs in the CitySDK toolkit

Most important data sources currently available:

- Public transport, schedules and real-time – GTFS, openOV
- Amsterdam infrastructure and transportation data – DIVV
- Dutch addresses and buildings - BAG
- OpenStreetMap data.
- More information about available data sets on the data page, via the /layers API or in the CMS.

API examples

- Statistical data of all neighbourhoods in Zwolle
- Rain forecast per neighbourhood in Groningen
City Navigator

Greater Manchester Real Time Scheduling

Who Runs That Bus?

Pac-MANchester

City Service Development Kit Co-funded by the European Union
Go to the **GLIMWORM APPS** page to see all of our apps

Other apps by Glimworm

Park Shark Amsterdam is a Glimworm IT BV App powered by the Park Shark API winner Apps for Amsterdam 2012 For more information about Glimworm visit our website

![FietsFinder](http://FietsFinder.png)

FietsFinder

NOG NIETS GEWONNEN, MAAR TOCH COOL!

![Vistory](http://Vistory.png)

Vistory

WINNAAR APP54NL 2012

![Week#](http://Week#.png)

Week#

Get the button!

Powered by the Park Shark API. Put the button on your contact page to help your visitors find the cheapest place to park near you.

Get the button!

[parkeeradvies](http://parkeeradvies.nl/)

How ParkShark works:

- Find the nearest parking meters in Amsterdam
- Filter search results based on:
  - Payment method
  - Location
  - Duration of parking
  - Date & time of parking
- Calculate the cheapest parking near the desired location.
- FREE

[DOWNLOAD PARKSHARK](http://www.parkshark.nl/)

Gratis download voor de iPhone
# CitySDK Factsheet

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<th>Co-funding</th>
<th>CIP ICT-PSP</th>
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<td>6,8 MEUR</td>
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<tr>
<td>EU-contribution</td>
<td>3,4 MEUR</td>
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<td>Partners</td>
<td>23 from 9 countries</td>
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<td>Duration</td>
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</table>

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Hanna Niemi-Hugaerts, Forum Virium
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**Smart Tourism:**
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<table>
<thead>
<tr>
<th>Coordinator</th>
<th>Forum Virium Helsinki</th>
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<tbody>
<tr>
<td></td>
<td>Marja Mattila</td>
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<td>+358 40 7440067</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:marja.mattila@forumvirium.fi">marja.mattila@forumvirium.fi</a></td>
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