# Introducing

Sébastien Deleuze
Simon Lopez

# What is OpenScales ?

Mapping client framework
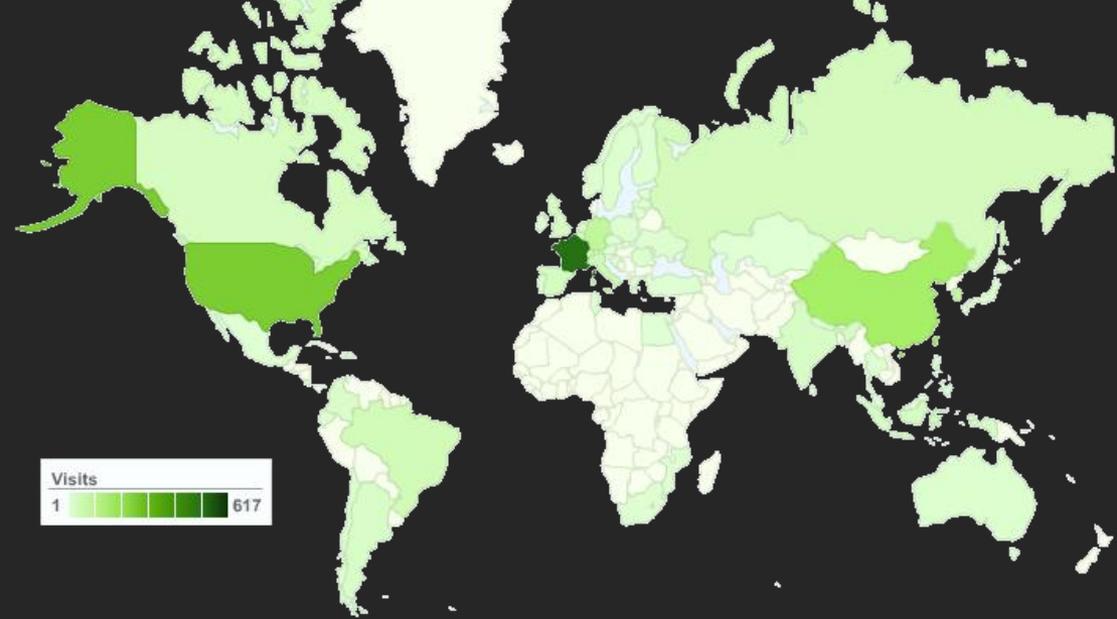
Based on Flash platform

Licensed under LGPL

Started in early 2009

OpenScales

# Community



- 160 subscribers on the mailing list

- Hosted on BitBucket

- Companies/organizations  involved
  - Atos Worldline
  - French National Geographic Institute
  - XoomCode
  - Pennsylvania State University
  - Cyclomedia

OpenScales

Let's talk about
Flash platform …

# From designers to developers

A few years ago, Flash authoring tools were only for designers.

Nowadays, we can develop application writing ActionScript3 and Flex with an Open Source SDK

Efficient development requires commercial IDE Flash Builder, based on Eclipse.

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# Flash 10.1



Adobe has rewritten Flash Player from scratch in order to be able to run it on all platforms consistently
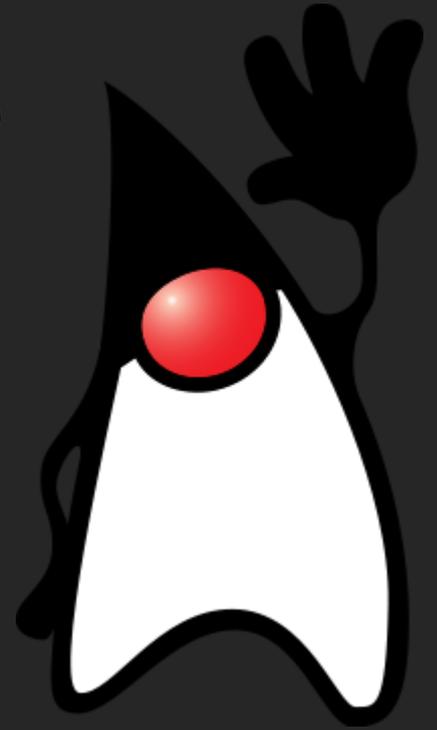
# Issues and challenges

- iPhone/iPad  do not have Flash for now. Not blocking since all other mobile platforms will have it.

- Adobe MUST continue to open the platform
  - Flash player for 64 bits operating systems
  - Official Flash Builder under Linux

- HTML 5
  - A few years to wait for wide deployment
  - Innovation comes from competition

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# Quick comparison ...

Quite similar to Java few years ago

Thanks to the community,
it has been Open Sourced

Why is not the same with Flash ?

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# OpenScales 1.2

OpenScales 1.2-beta3 is out
Final release before the end of September

# Modules

- openscales-geometry: Point, LinearRing …
- openscales-proj4as: Proj4 port in ActionScript
- openscales-core:  lightweight mapping core
- openscales-fx: Flex 4 support

- openscales-as-example
- openscales-fx-example
- openscales-air-example

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# One framework, any device



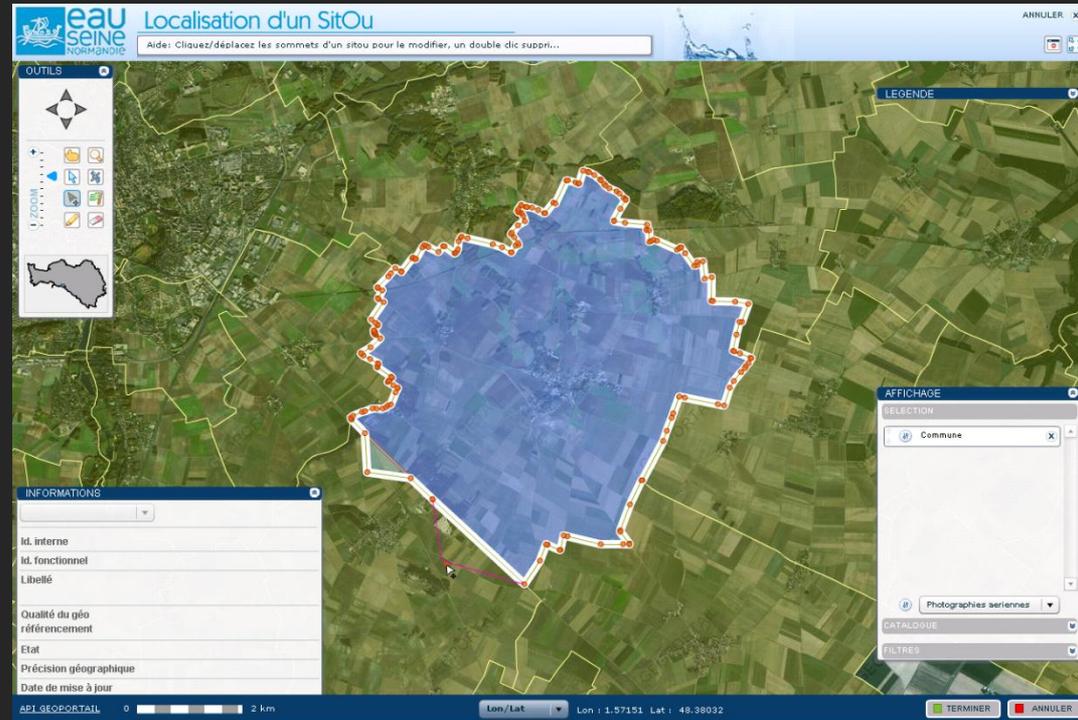Web client          Desktop application          Mobile application

# Flex application

+ Fx

- Flex 4 support

- OpenScales API is closed to OpenLayers' one

- Support WMS, WFS, KML, OSM ...

- OpenScales 1.2 displays 75000 points (2500 lines) with a good user experience
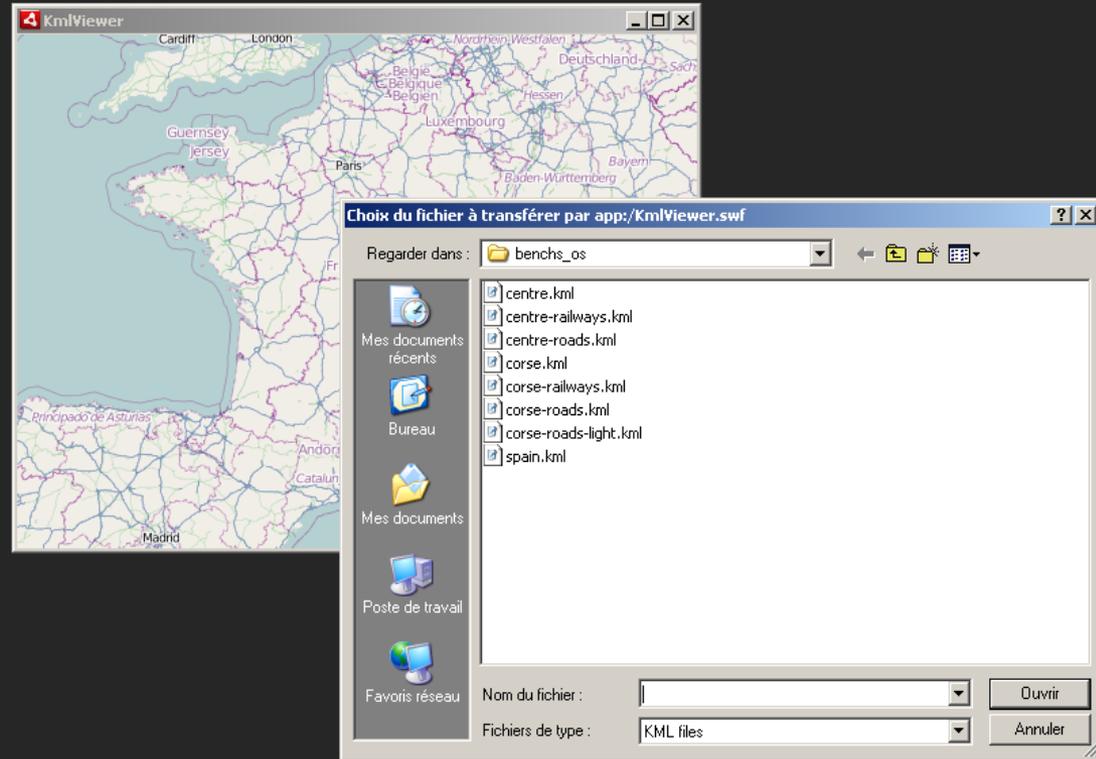


Courtesy of AESN, http://www.eau-seine-normandie.fr/

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# AIR application

+ Fx

- Turn your web client in a desktop application

- Full access to the filesystem

- System integration
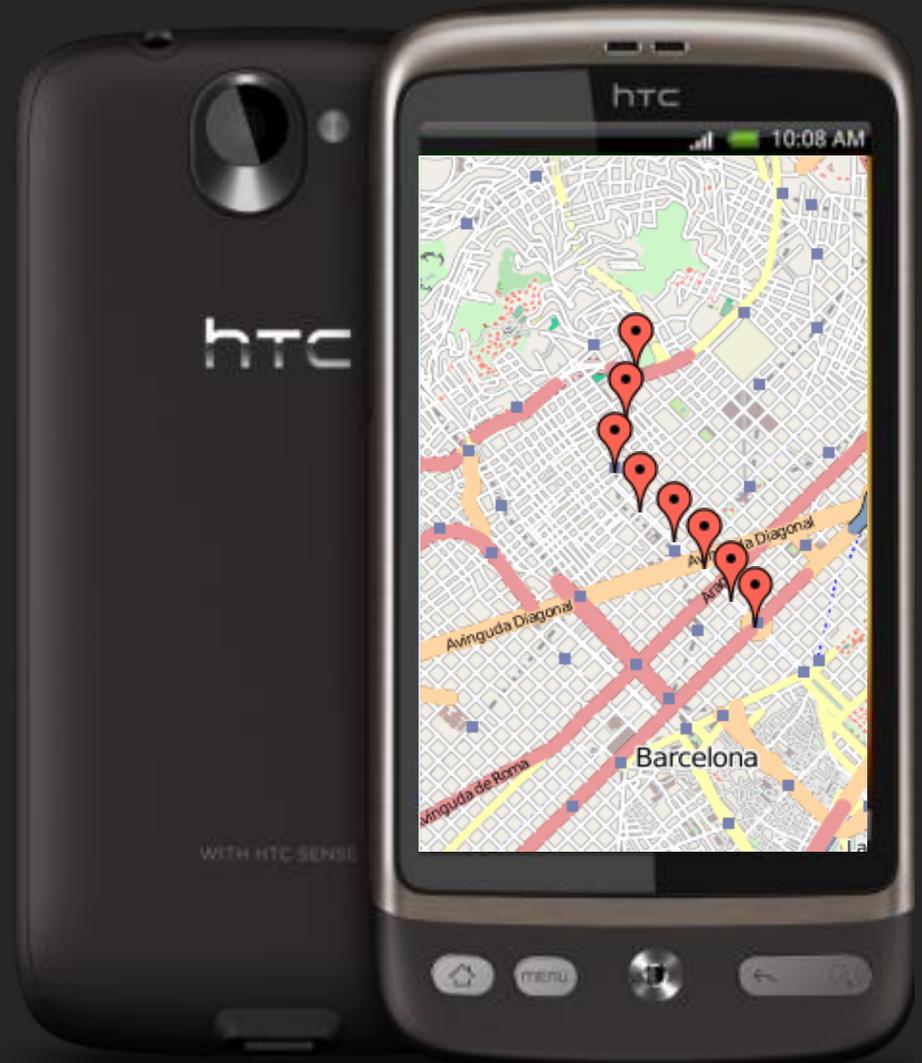  - File association
  - Icon on desktop



kml-viewer.air

# AIR mobile application

 + AS

- Package as a native mobile application

- Support multi-touch, GPS, screen orientation, accelerometer events

- Same speed as Flash plugin on your computer



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# AIR mobile application  + AS

You can test it if you have
a smartphone with
Android 2.2 (Froyo)
and AIR 2.5



http://openscales.org/downloads/ope
nscales-mobile-tracker-1.2.apk



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# OpenScales 2

# OpenScales 2 roadmap (2011)

- ActionScript GeoAPI
- Free zoom mode
- Display geometries up to 300000 pts
- WMTS, WFS 2.0, GML 3.2.1 support
- Tiled KML support
- SLD editor (Flex and AIR)
- OpenScales Studio
- And …

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# 3D

# OpenScales 2.5D prototype

OpenScales

# OpenScales 2.5D prototype

# Full 3D support in OpenScales 2

| 2D | 2.5D | 3D |
|---|---|---|

Flash Player 3D Future session
at Max 2010 on the 27$^{th}$ of October

Our guess/bet : Flash full accelerated
3D support to compete with webGL

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# OpenScales

How to :

- Use it              http://openscales.org
- Contribute      hg clone http://bitbucket.org/gis/openscales
- Contact us      sebastien.deleuze@atosorigin.com
                          simon.lopez@atosorigin.com