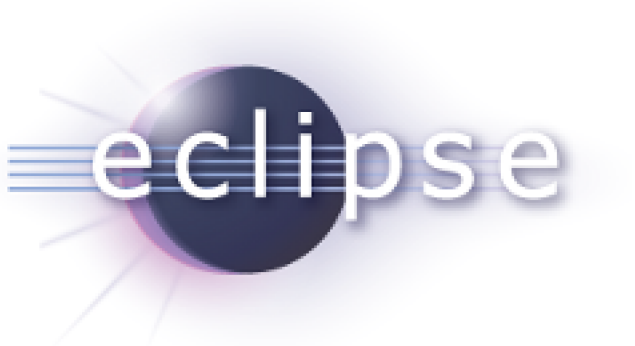
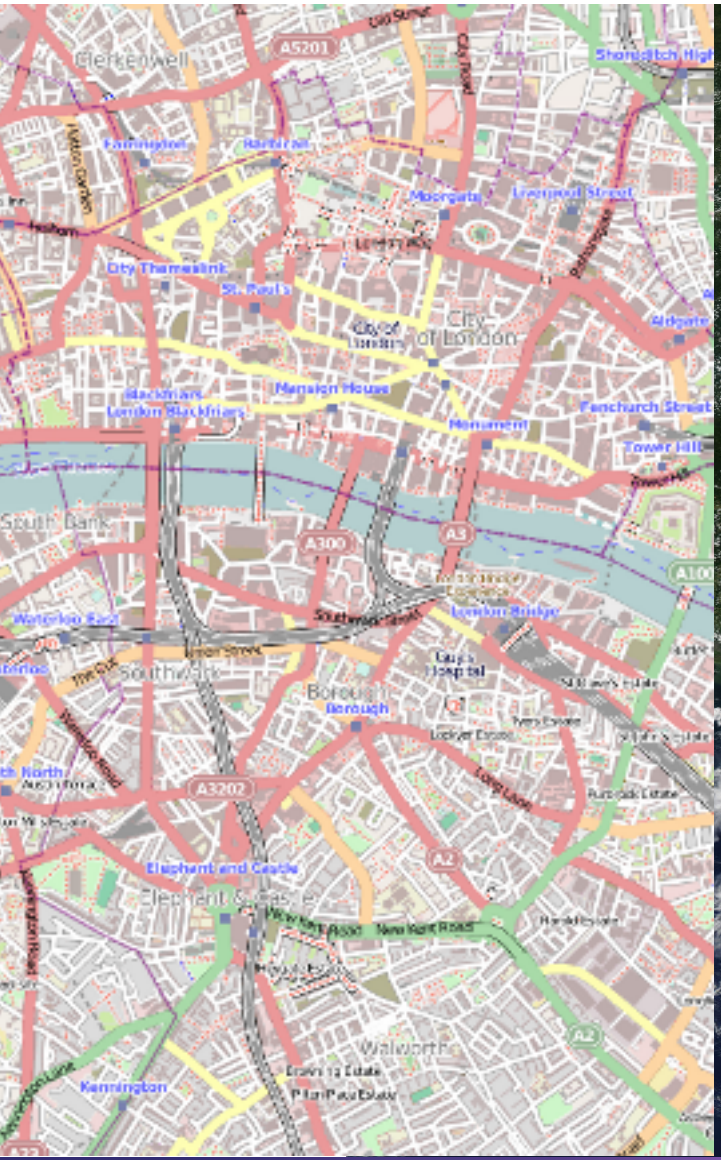


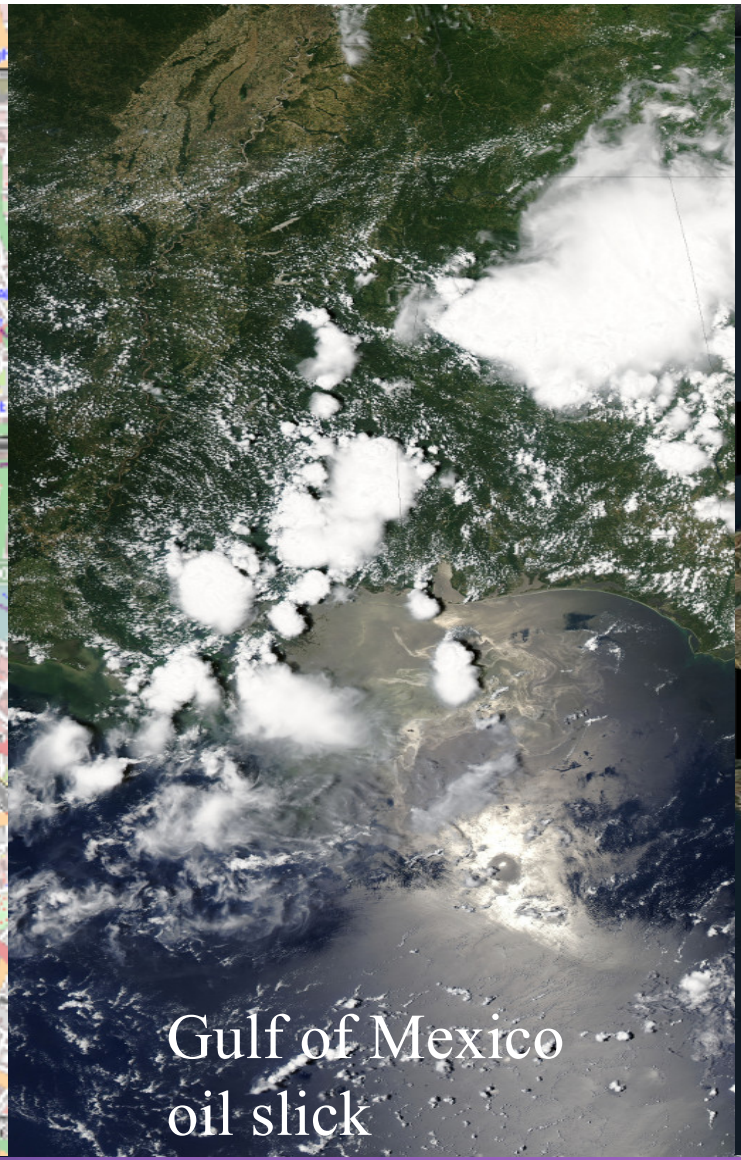
Location IWG Proposal
May, 2012
Andrew Ross

Location Technology

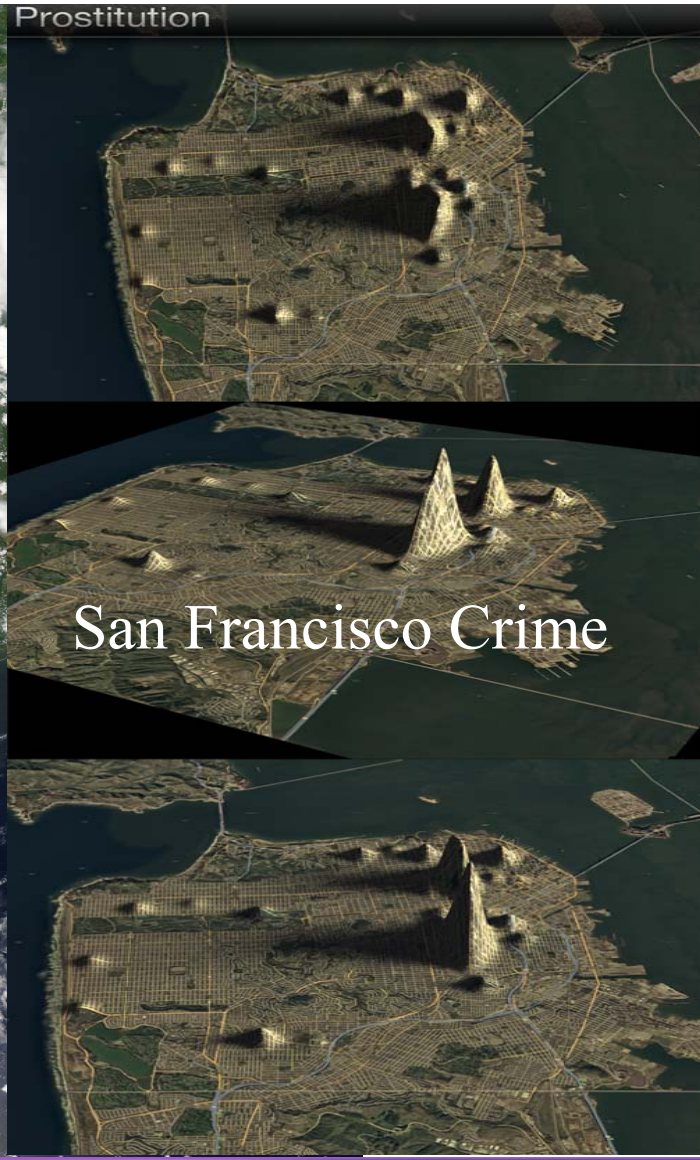
Vector data



Raster data

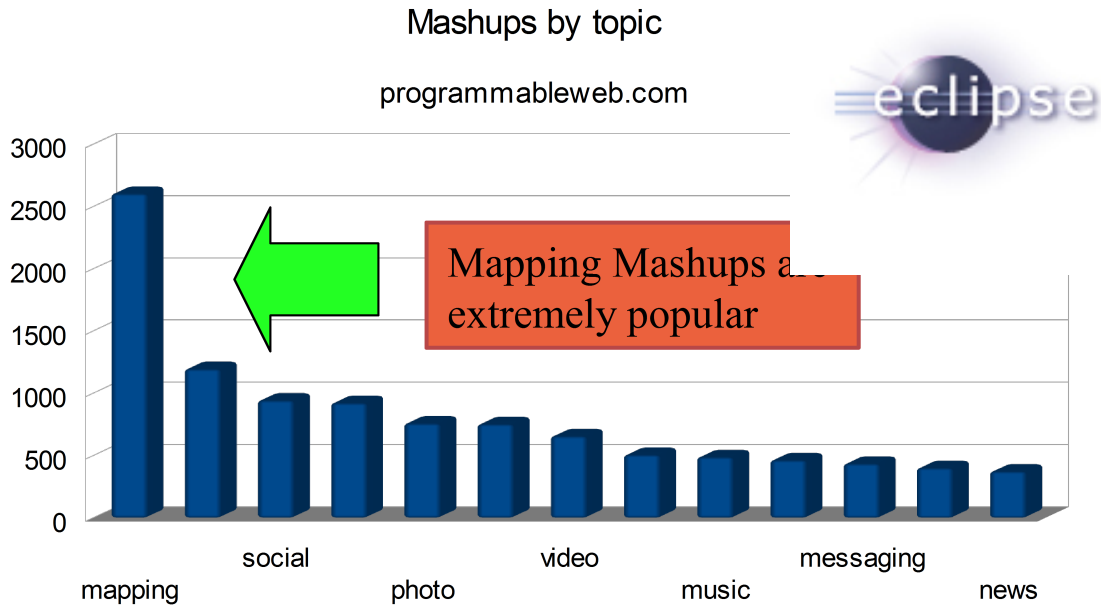


Combined



Important trends

Use of location technology is growing and undergoing a shift from an asynchronous peripheral activity to a core business activity with real time demands. Machine generated data is spurring a massive increase in the rate data is generated.



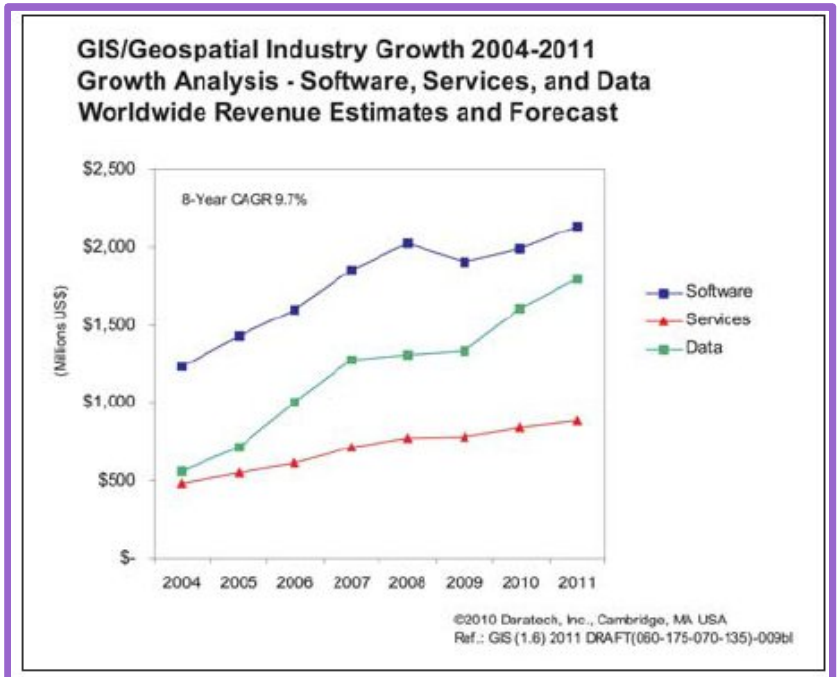
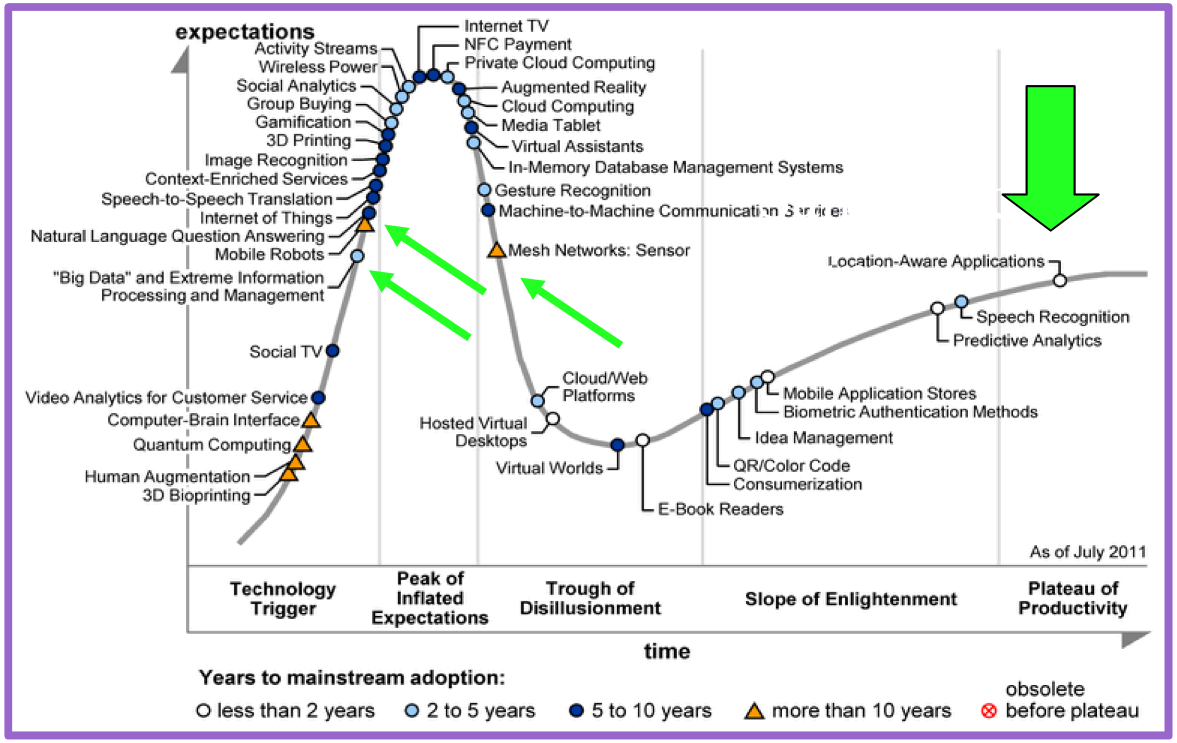


Figure 1



Location IWG Goals

Make location technology mainstream

- Leverage Eclipse's established position in enterprise
- Consolidate and bolster open source location (aka. geospatial) community

Areas of interest

- Processing massive data volume
- Shift from asynchronous to real time analysis
- Shift from peripheral view of location to business critical
- Stimulate industry competitiveness & innovation
- Share risk & cost to open new markets, reduce time to market
- Deliver a predictable platform of technologies annually

Location Industry Working Group

Goal: Develop an ecosystem for open source spatially aware components.

Software Providers

IBM, **Oracle**, Autodesk, Microsoft, ESRI, OpenGeo, **Actian**, Pitney Bowes, Intergraph, Spatialytics, Safe Software, Ubisense, RIM, and more

Service Providers

SAIC, Deloitte, TCS, Wipro, Accenture, Atos Origin, Radiant Blue, DMSG, and many more.

Location IWG

Data Providers

Nokia, OpenStreetMap, Digital Globe, Tomtom, **Google**, GeoEye, Twitter, Facebook, and more.

Consumers

Halliburton, Lockheed Martin, Northrop Gruman, Boeing, BAE, Imperial Oil, NRCan, US Geological Survey, US Army Corps of Engineers, NASA, World Bank, Rio Tinto, BHP Bilton, and many more

Opportunity:
By year
1: $200K
2: $400K

Underlined – expressed interest in the IWG. **Bold** – Existing Eclipse Foundation Member.

Location IWG: Steering Committee Fees (Proposed)

Annual Revenue	Annual Steering Committee Dues
>$250M	$30,000
>$100M <= $250M	$25,000
>$50M <= $100M	$20,000
> $10M <= $50M	$15,000
< $10M	$10,000

- Location **Steering Committee** dues are incremental to Eclipse Foundation membership dues. Must be Solutions member or higher.
- Eclipse Foundation Strategic members paying $250K annual receive Steering Committee rights for no added cost.

Location IWG: Participant Fees (Proposed)

Annual Revenue	Annual Participant Dues
>$250M	$10,000
>$100M <= $250M	$7,500
>$50M <= $100M	$3,500
> $10M <= $50M	$2,250
< $10M	$1,000
< $1M & <10 employees	$500

- Location **Participant** dues are incremental to Eclipse Foundation membership dues. Must be Solutions member or higher.
- Eclipse Foundation Strategic members paying >=$100K annually receive participant rights for no added cost.

Key Existing components

Project	Language	LOC	Committers	License
Geotools	Java	1.7M	25/89	LGPL
JTS	Java	165K	3	LGPL
uDig	Java	324K	23/39	LGPL
Proj.4	C/C++	64K	11/20	MIT
GDAL/OGR	C/C++	841K	24/46	MIT
GEOS	C++	137K	5/17	LGPL
Mapserver	C	266K	19/51	MIT
OpenLayers	Javascript	140K	43/52	BSD
Mapfaces	Javascript	483K	12/17	LGPL

Active/Lifetime

Infrastructure

Eclipse Forge
(Public via. eclipse.org)

- SCM
- Bug Tracker
- Builds
- Signing
- Downloads

Location Forge
(Public via. TBN.org)

- SCM
- Bug Tracker
- Builds
- Signing
- Downloads

Core team leading the efforts

Tentative
Co-chairs:

Call to Action

Support the creation of a separate forge for Location technologies and approve use of LGPL, BSD, MIT licenses in this separate forge by approving the following:

RESOLVED, the Board approves the creation of information technology (IT) infrastructure for the Location IWG forge. Such IT infrastructure will be hosted and supported by the Eclipse Foundation

RESOLVED, The Board unanimously approves the use of the following licenses for projects hosted by the Location Industry Working Group. Such projects must be clearly identified as separate and distinct from Eclipse Foundation projects, hosted on a web property other than eclipse.org, and not using the org.eclipse namespace.

1. GNU Lesser General Public License (LGPL)

2. MIT

3. BSD (including the Eclipse Distribution License)

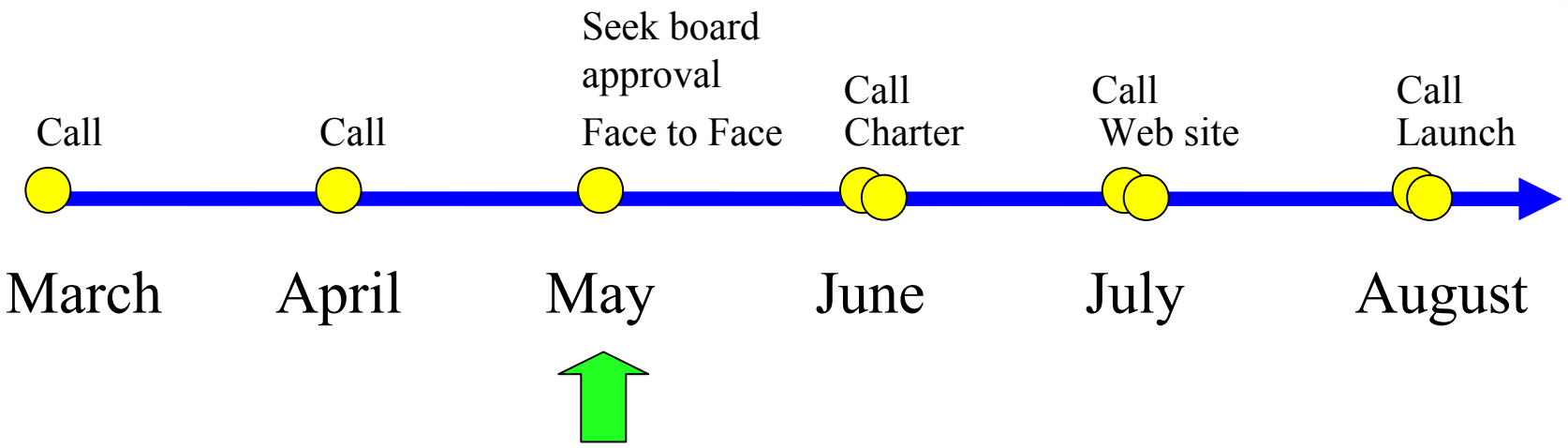
RESOLVED, that the Executive Director of the Corporation is hereby authorized and empowered, for and on behalf of the Corporation, to retain such advisers, to execute and deliver such documents, papers or instruments and to do or cause to be done any and all such other acts and things as he may deem necessary, appropriate or desirable in connection with establishing the Location Industry Working Group as described in the presentation made to the Board on this day and attached to the minutes of the meeting as Exhibit L, and the taking of any such action shall be conclusive evidence of the approval thereof by this Board of Directors.

Back up

Location Terminology

Vector data – points, lines, polygons, etc. representing reality
Raster data – pictures, visible light and other spectrum
WFS standard – Web Feature Service – Vector data
WCS standard – Web Coverage Service - Pictures
WMS standard – Web Map Service – Rendered maps
WKB - Well known binary
WKT - Well known text

Time line


Call
Call
Seek board approval
Face to Face
Call
Charter
Call
Web site
Call
Launch
March
April
May
June
July
August