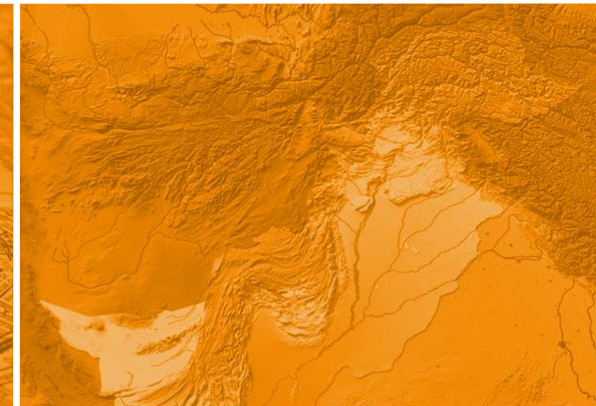




Real-Time, Location-Based Asset Management



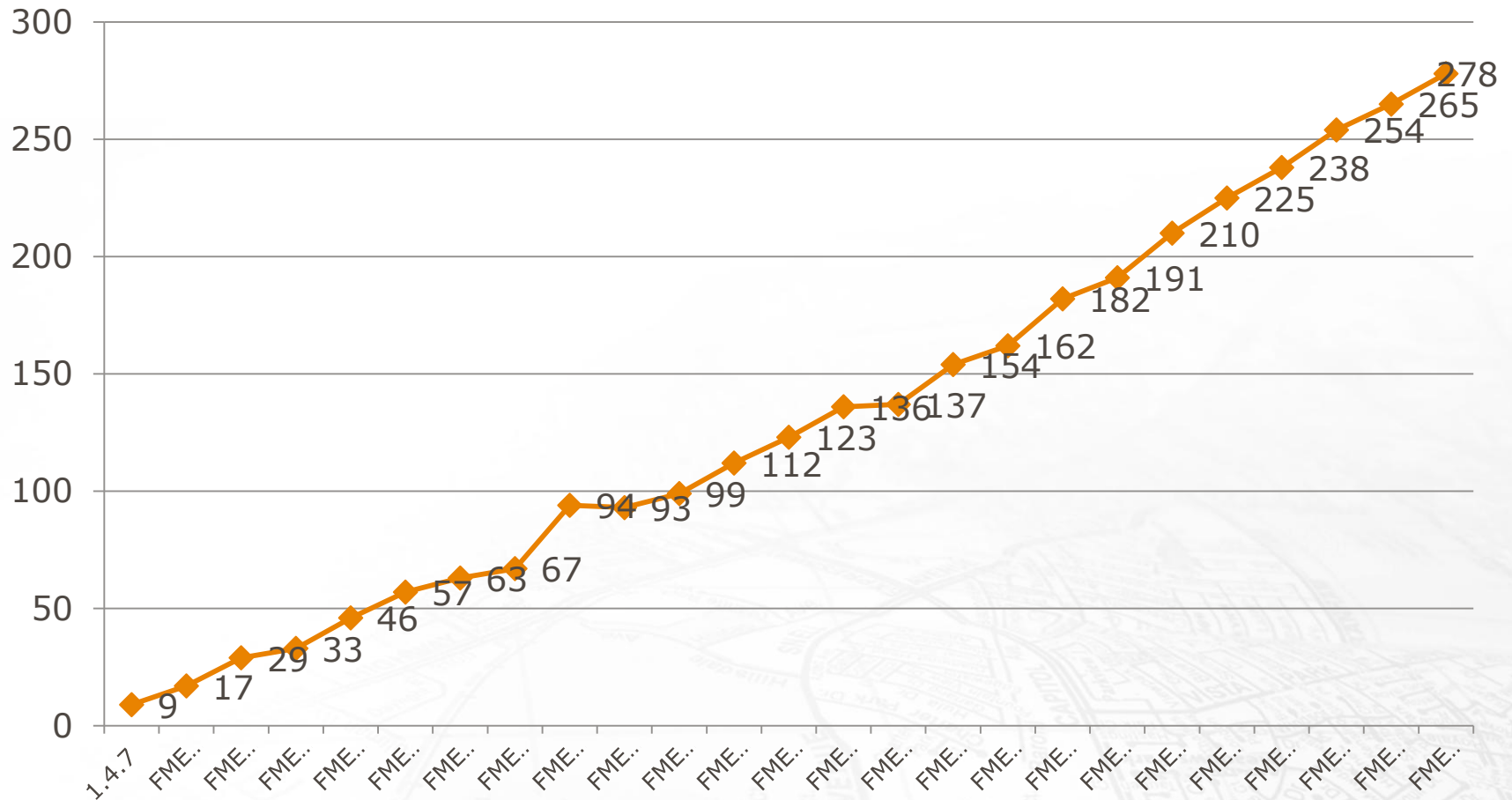
The World today is runs on ...



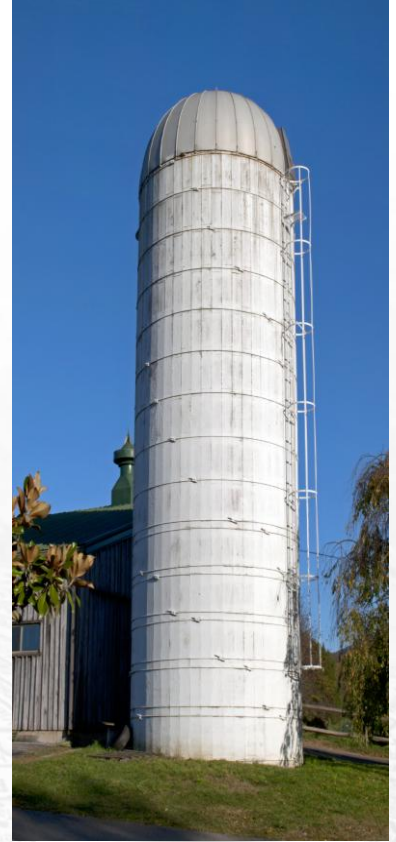
World of data was ...



It came in about 300 formats...



Data Specific to applications





Metadata...



data was built for App so no worries.

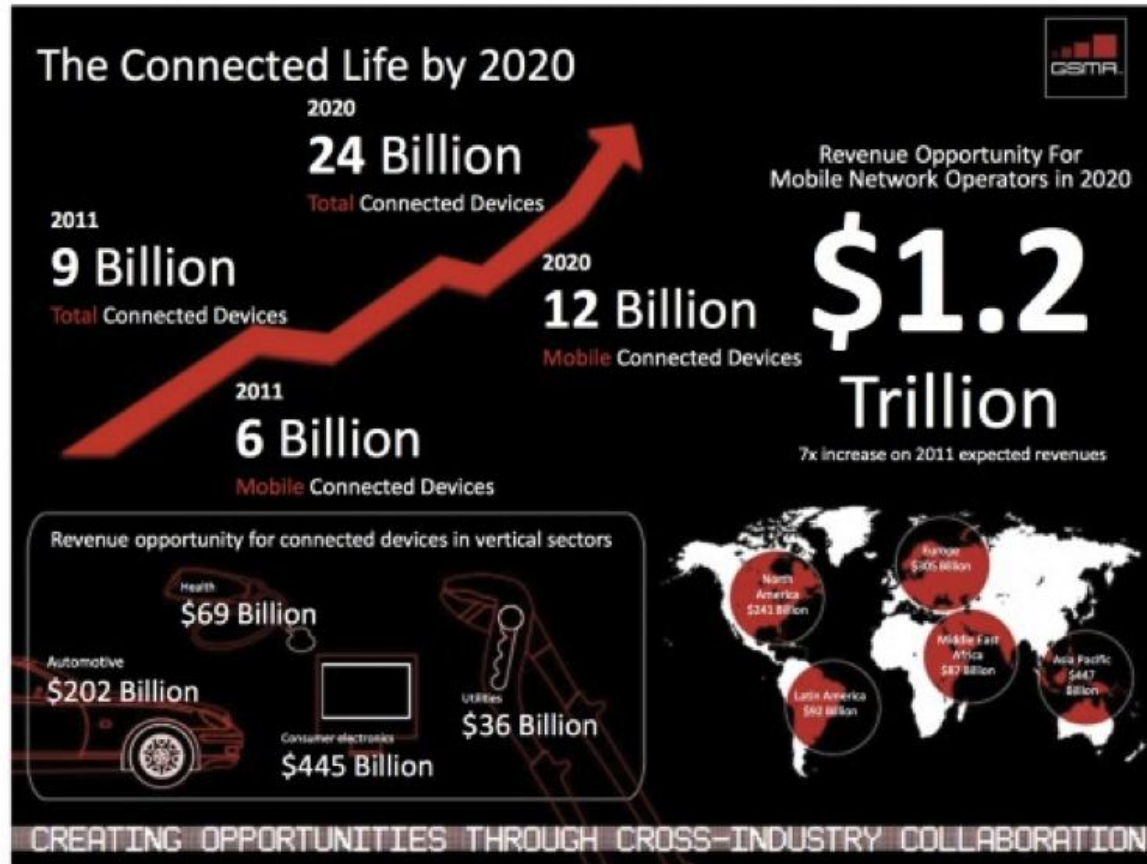
Things have changed....



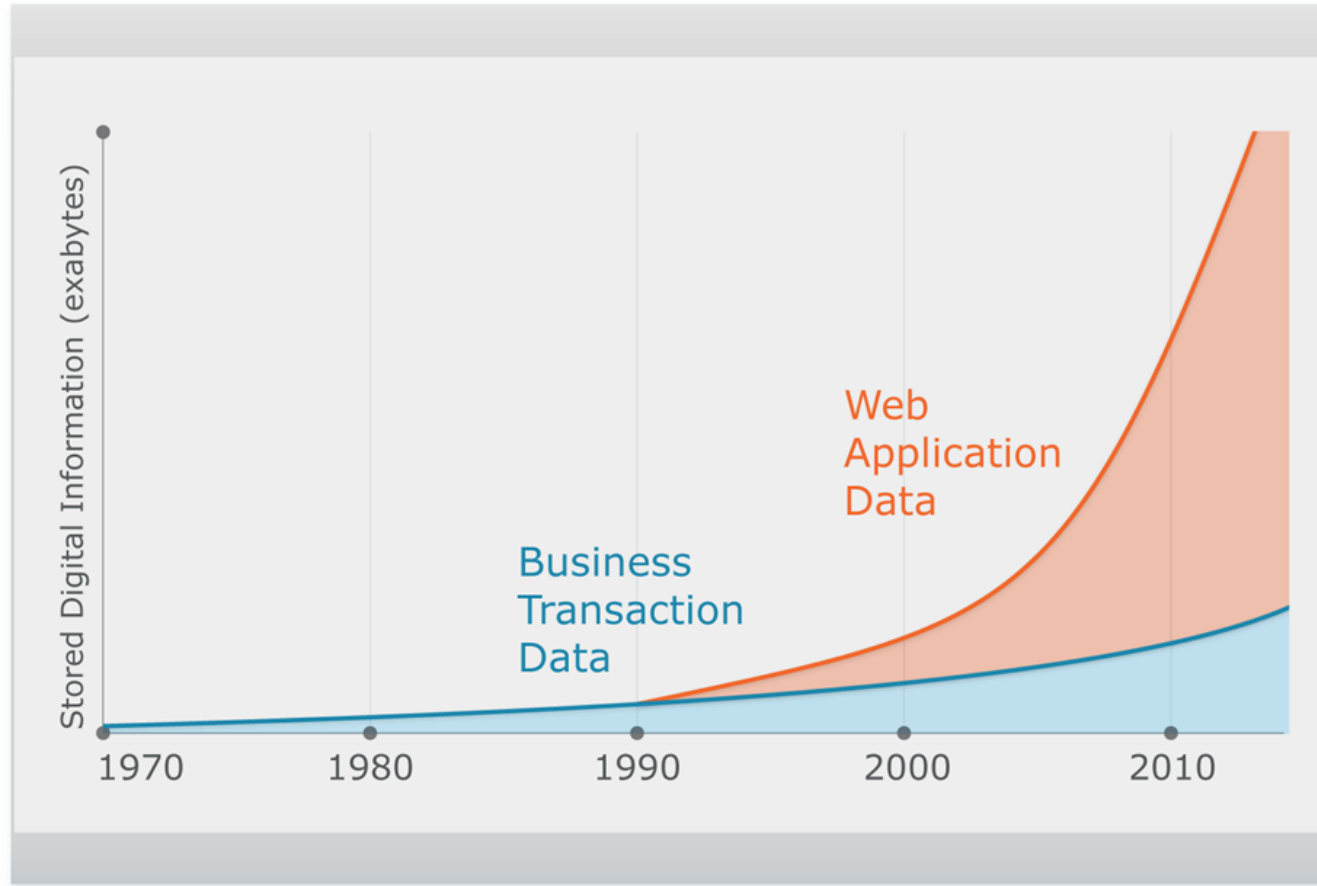
Users want *more*
and *more* data
faster and *faster!*



Connected Devices



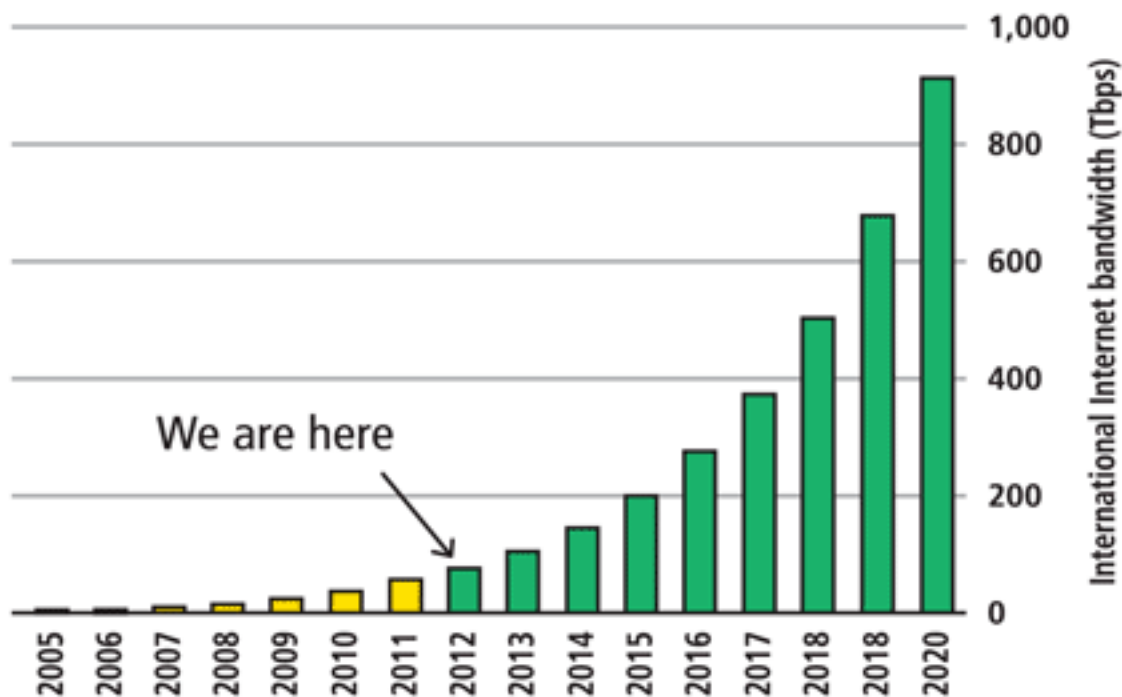
Data Volumes Explode





International internet backbone capacity

Chart 3



Source: TeleGeography



why?

real time™





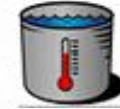
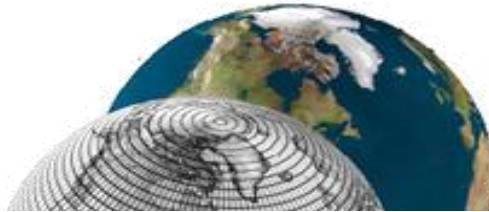
WHY???

WHY GOD WHY!!!



WHEN
GETTING IT
FAST IS TOO
SLOW,
GET IT IN
REALTIME

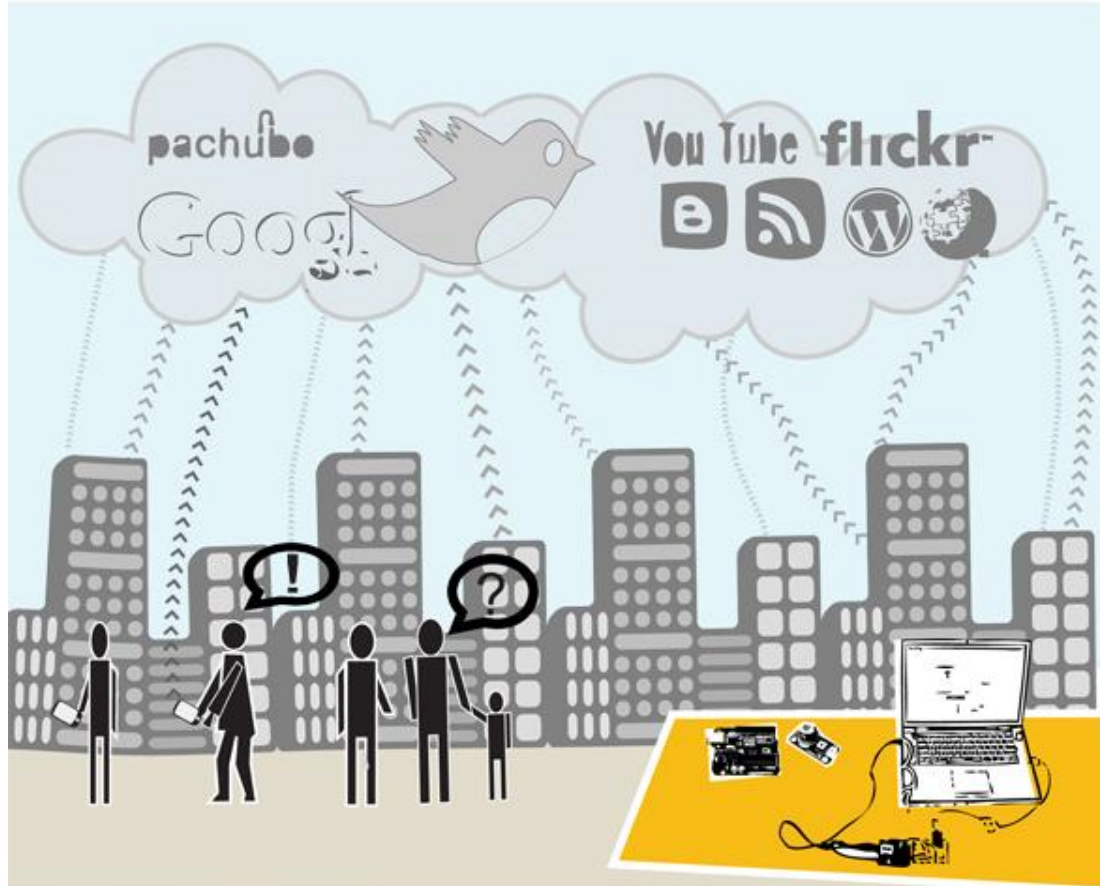
Sensors are everywhere!



By the year 2020 there will be over 2 billion connected sensors!



Citizens as Sensors



Real-Time



Support for Real Time Data

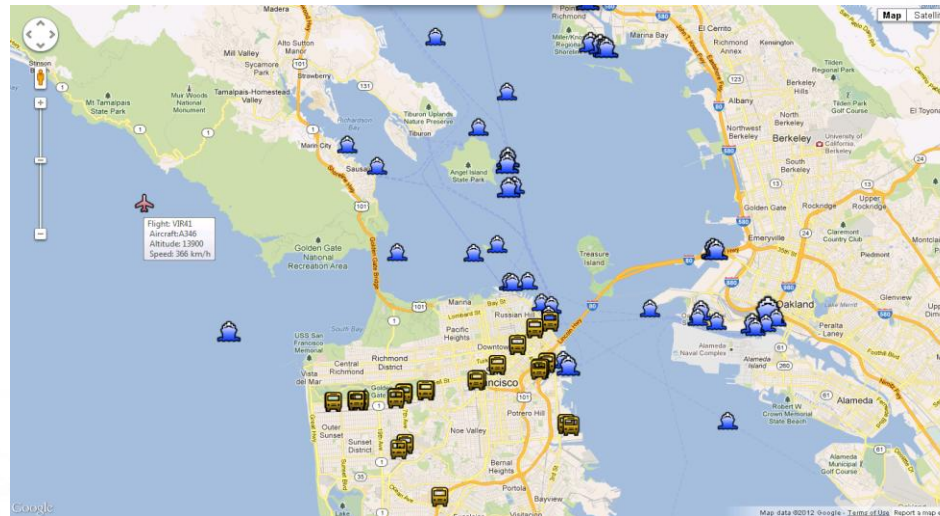


Subscriptions Pull
email udp iOS Android
ASCII Social-Media Real-time Mobile Notifications
http JSON Push XML
Location-Aware Cosm Apple iPhone Protocols
Location-aware CSV Sensors

Live Spatial Dashboard



<http://fme.ly/SpatialDashboard>



Live Spatial Dashboard



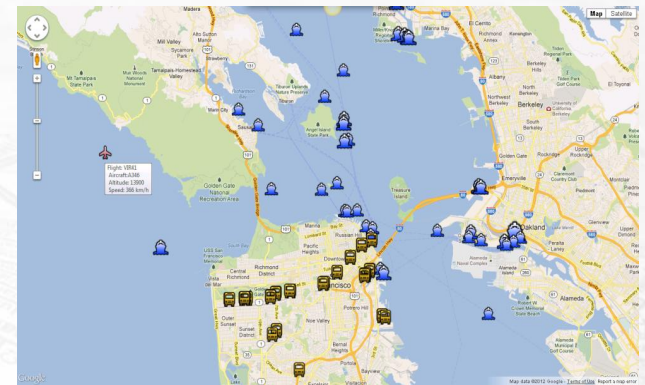
Google Maps - Web Sockets - FME Server

Source data:

- Event Stream (TCP)
- XML
- JSON

Destination data:

- Event Stream (Web Sockets)



Geo-Fence Moving Assets Demo



rule_id	zone_id	spatial_rule	time_start	time_end
1	10001	inclusion	20:00	23:00
2	10003	exclusion	08:00	10:00
3	10004	exclusion	10:00	12:00

rule	assign_id	device_id	rule_id
	1	90001	1
	2	90002	1
	3	90003	1
	4	90004	1
	5	90005	1
	6	90001	2
	7	90002	2
	8	90003	2
	9	90004	3
	10	90005	3

FME Alerts @FMEalerts now
Alert: vehicle 2111 driven by Tim Mitchell has been observed in restricted area 3672 at 14:35:53 on 2012/09/01. View: [fme.ly/ViewAssets](#)
Expand

Geo-Fence Moving Assets Demo

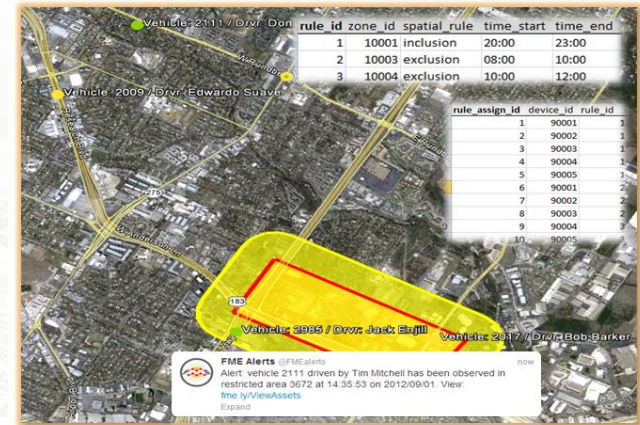


FME Server running compliance checks as data is updated.

Source data is simulated but could be any data stream that FME Server supports.

Destination data:

- Google Earth Network Link
- Push to Mobile.
- Email



Real-Time Asset QA and Update



Realtime Display Send CAD data by email and watch it appear in realtime

User manual

1. Prepare database Database not ready

[Delete data](#)

2. Download example data

[distribution_N25_good.dwg](#)

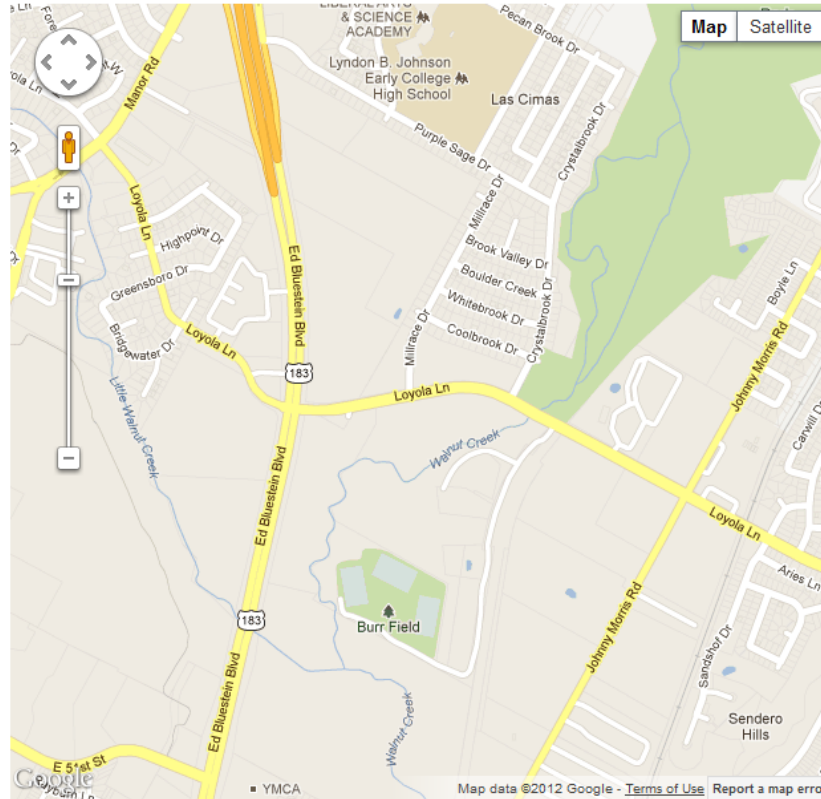
[distribution_N25_bad.dwg](#)

3. Send file to FMEServer

cad_waterqa@demo.fmeserver.com

4. Wait and see

Number of Features received: 0



Real-Time Asset QA and Update



- Simple email interface.
- Users see updates immediately
- Submit data in any format.

- HTML 5 Web Sockets
- No polling

Realtime Display Send CAD data by email and watch it appear in realtime

User manual

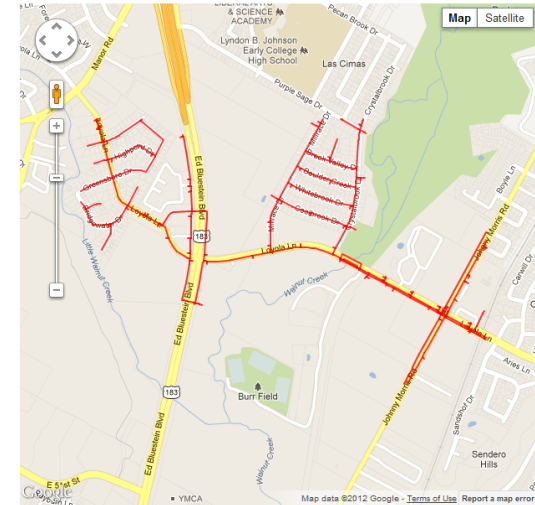
1. Prepare database Database ready

[Delete data](#)

2. Download example data
[distribution_N25_good.dwg](#)
[distribution_N25_bad.dwg](#)

3. Send file to FMEServer
cad_waterqa@demo.fmeserver.com

4. Wait and see
Number of Features received: 388



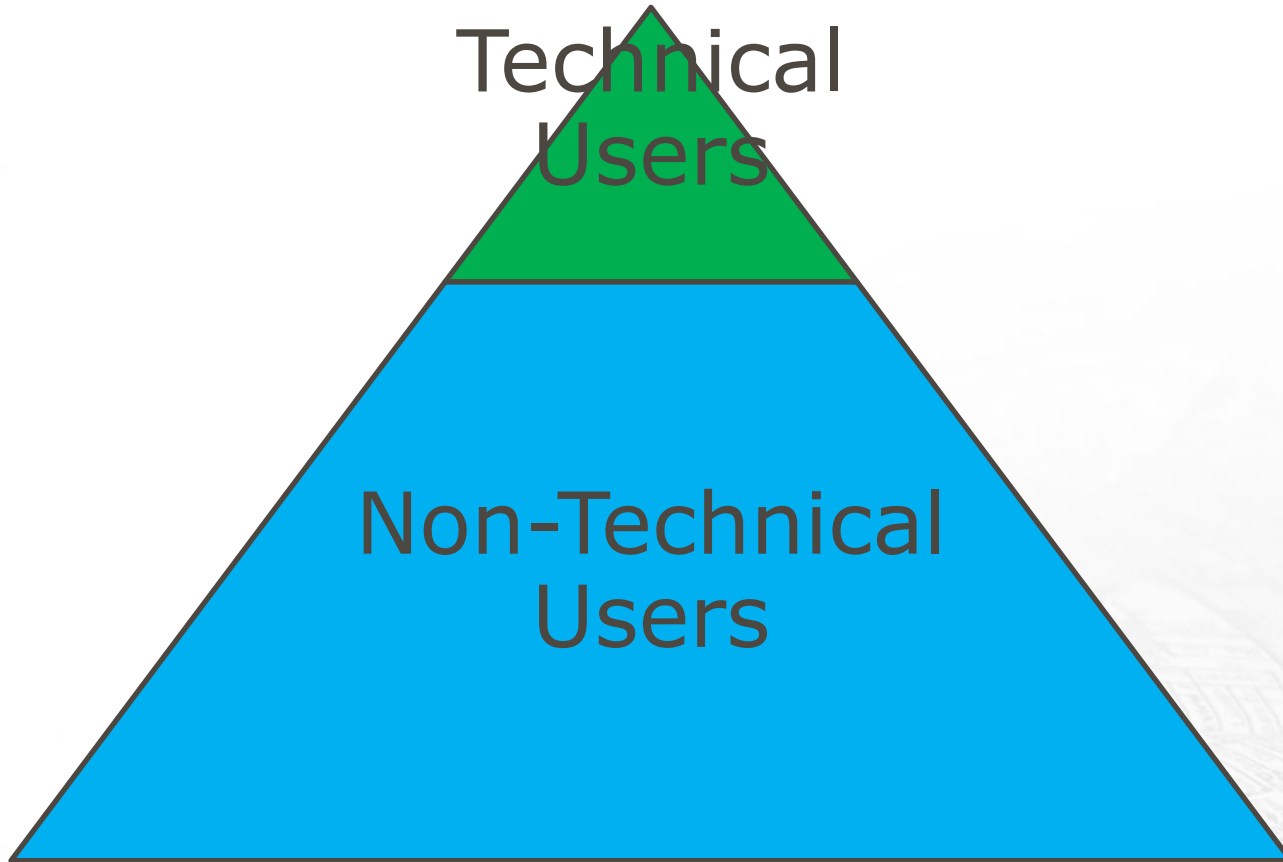
What is Goal here?



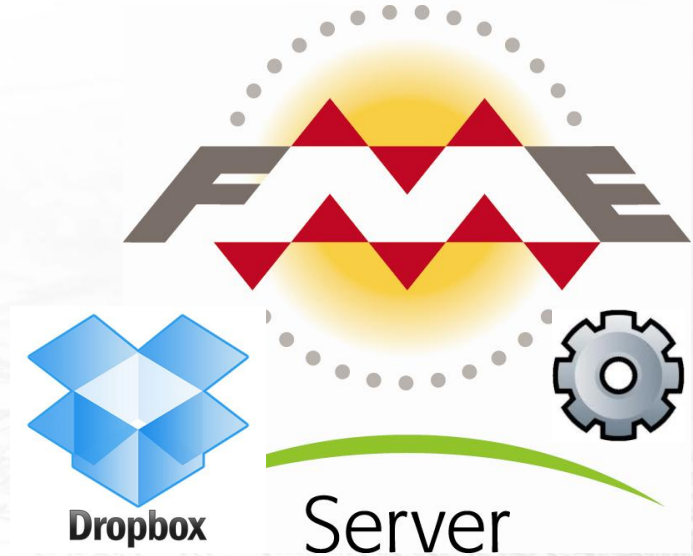
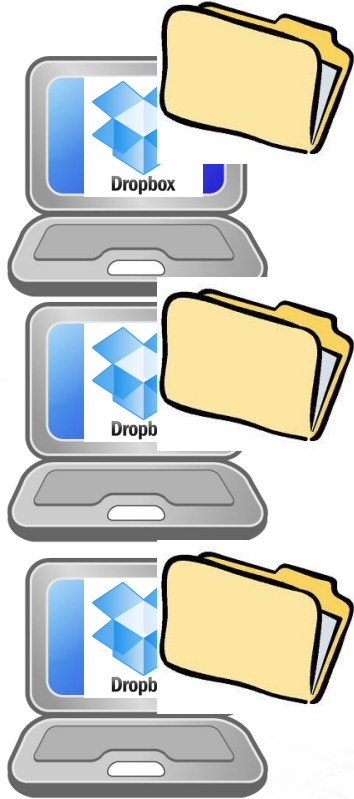
Make it



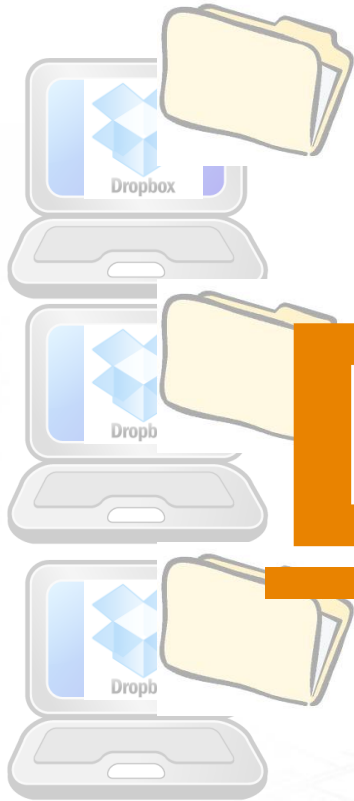
Target Non-Technical Users



Drag and Drop Workflow Execution



Drag and Drop Workflow Execution



Demo



Dropbox



Server



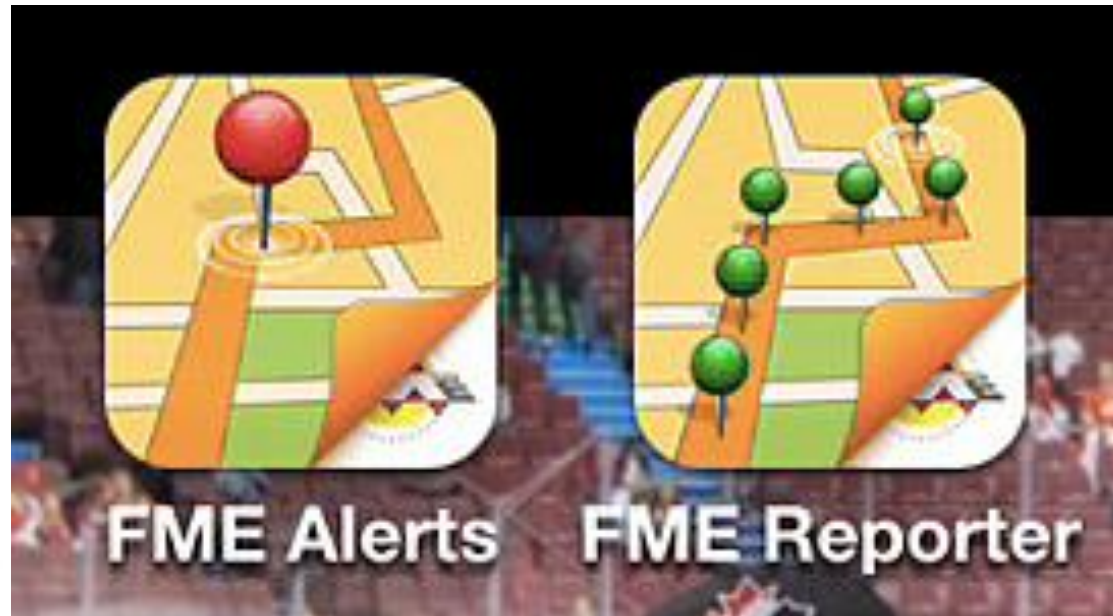
What's Next



Mobile Devices



Generic Mobile Apps

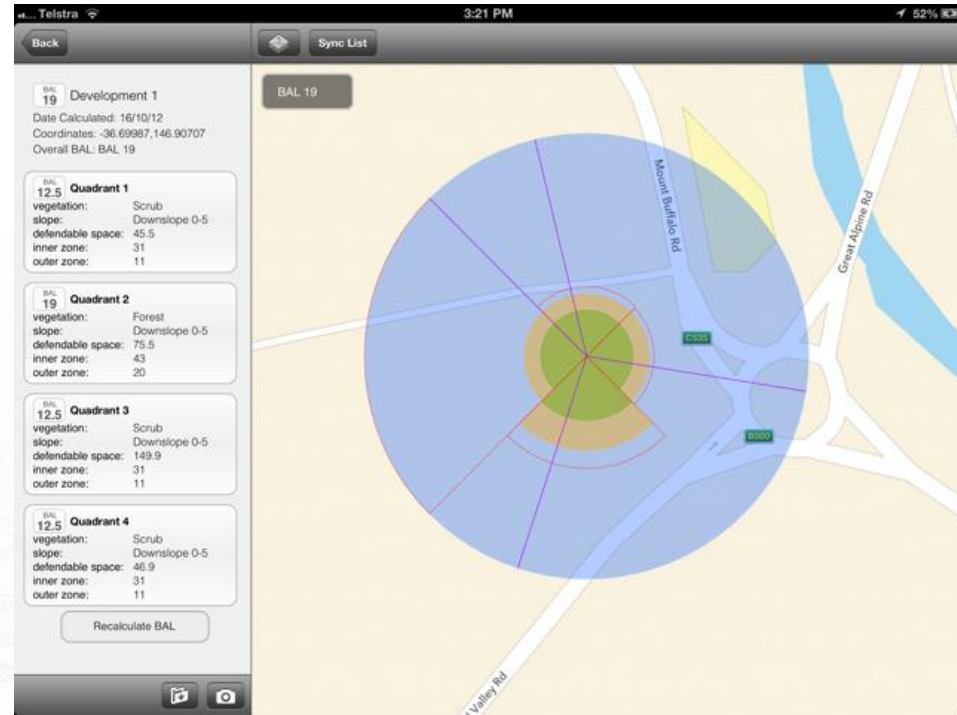


Powering Mobile Apps

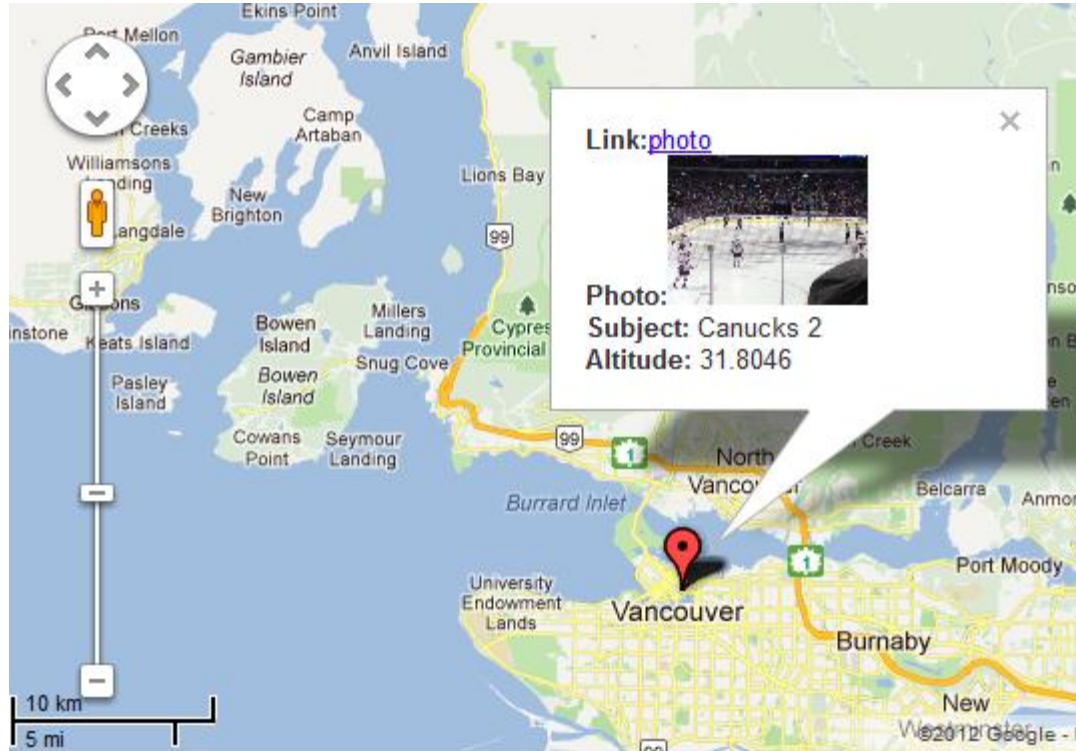


Safe to Build App

- iPad App
- Answers Question: Is it safe to build here?
- App is front end with processing on server.



Geo-Tagged Photo Submission!



Email: <topic>@<hostname>

Make it



Graphical Authoring Environment



No Code!

Find all lots that are owned by the city.

Clip the roads to the lot boundaries

Filter based on whether or not the road has been constructed.

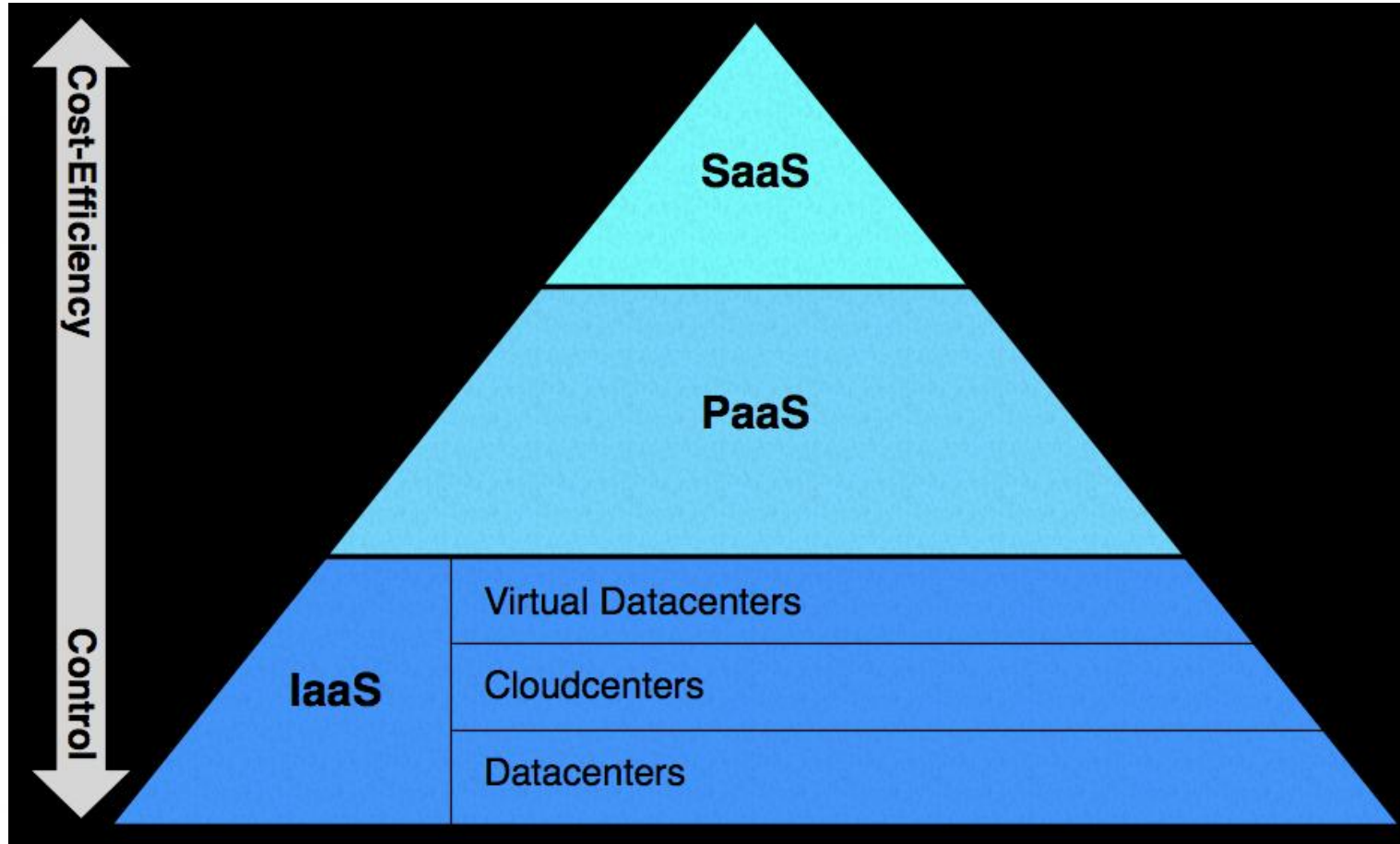
Display the "false" roads using the FME Universal Viewer.

Workspace: Gallery

```
CLIPPER_CLIPPED_INSIDE -> CITY_ROADS Correlator(TeeFactory): Cloned 0 input features into 0 output features
CLIPPER_INSIDE -> CITY_ROADS Correlator(TeeFactory): Cloned 0 input features into 0 output features
-----
Features Read Summary
-----
LOTPOLY                40
ROADS                   2661
-----
Total Features Read    2701
-----
```

Ready

Platform as a Service



Software as a Service





Sign up

Name

* Email

* Password

* Password confirmation

Sign up

[Sign in](#)

[Forgot your password?](#)

[Didn't receive confirmation instructions?](#)



Question & Answer



FME
Server



Real-Time
Data



Thank You!



- For more information, contact:
 - Don Murray:
 - don.murray@safe.com
 -  [donatsafe](https://twitter.com/donatsafe)
 - Support
 - support@safe.com
 - (604)501-9985 ext. 278