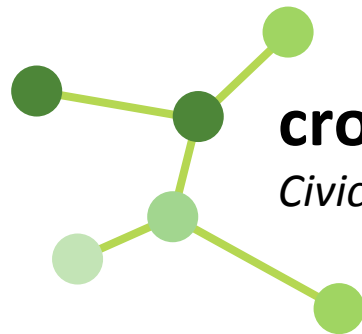# Transport without Planners

Andrew Nash
andy@andynash.com

crowdsourced-transport.com
Civic Technology for Sustainable Transport

Who would have thought?

Brexit
US Election
Populism

...

Visions

Visions

- **How ... do we build visions?**

- **What ... could a vision look like?**

- **Why ... is vision important?**

- **When ... do we begin?**

How? *... Crowdsourcing*

Crowdsourcing ...

- *Uses communications and IT ...*

- *to outsource activities and functions ...*

- *once performed by institutions ...*

- *to a large, undefined network of people.*

... it is (already) completely changing how we plan and operate transport systems.

Transport Crowdsourcing

4 ways to crowdsource transport

- *Report*

- *Analyse*

- *Collaborate*

- *Act!*

Report

Mainstream Social Media: Facebook – Zurich

Generic Reporting App – SeeClickFix

Customised Reporting App – FixMyTransport

Map-based Reporting – Meine Radspur, Vienna

Sensor-based Reporting – Street Bump (Boston)

Analyse

Collecting & Analysing data is *easy*

- Open data;

- Transport application data (tracking);

- Resident-collected data (cheap sensors).

*… vastly improved computing enables **anyone** to analyse scenarios, evaluate service, and develop their own transport plans.*
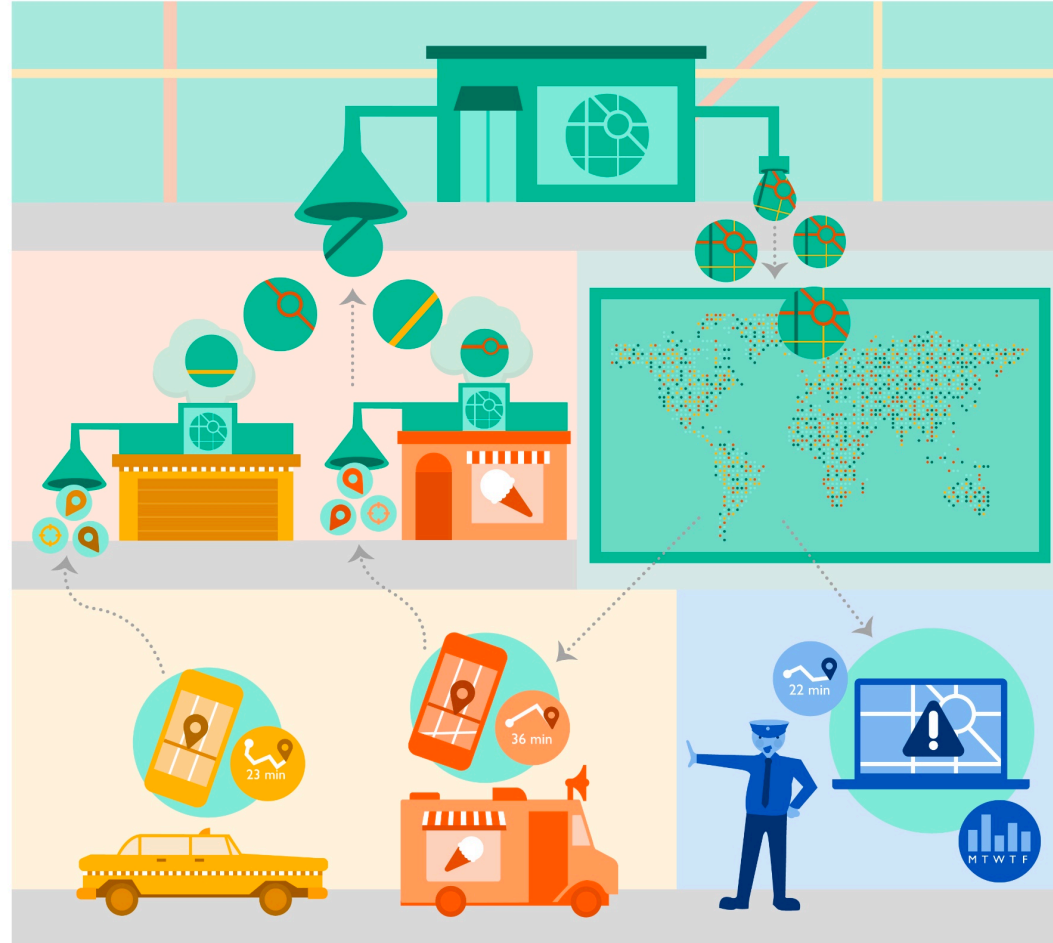
Open transport data – opentraffic.io
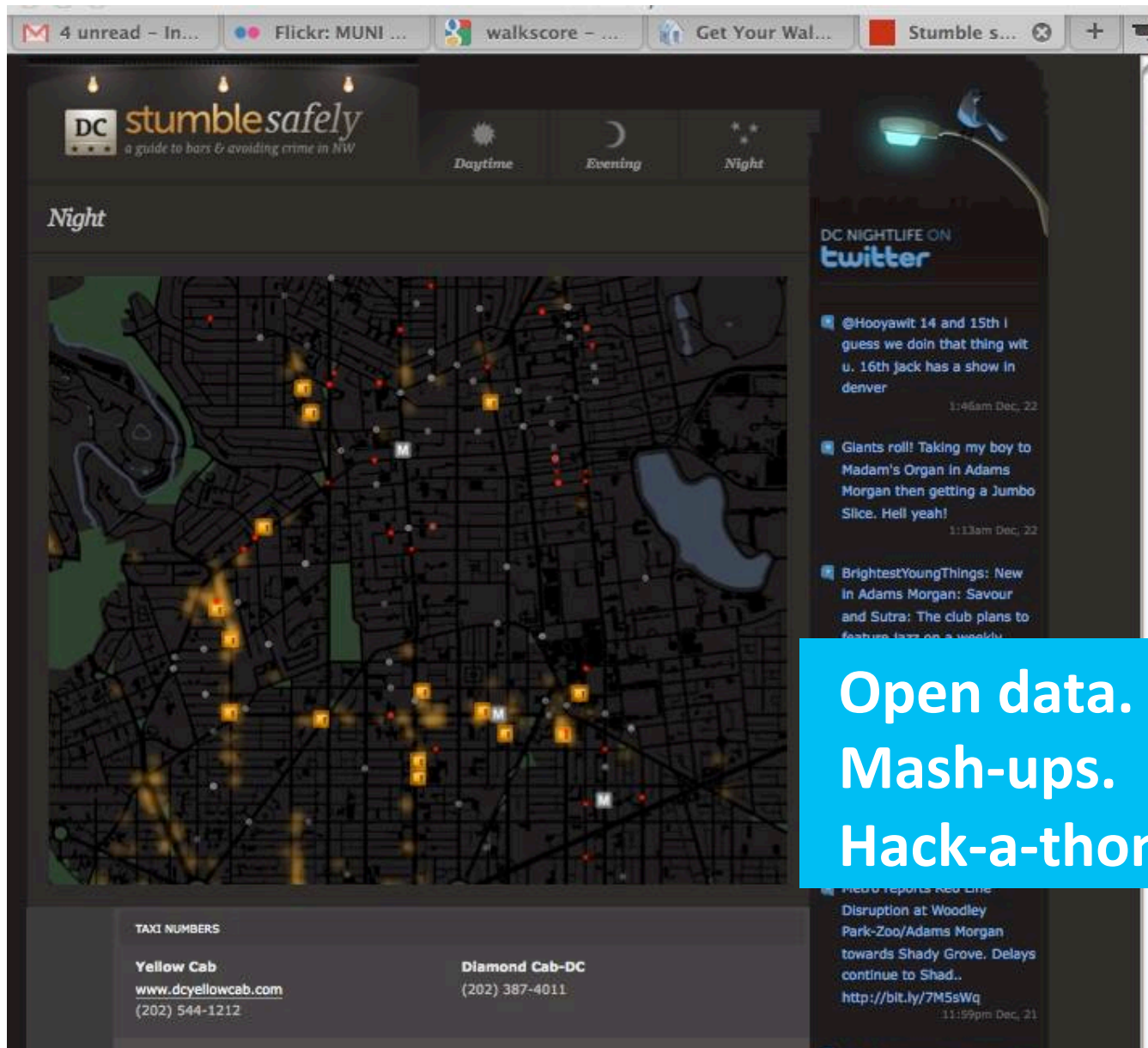
Use Open Data to create apps & visualisations
Stumble Safely, Washington D.C.
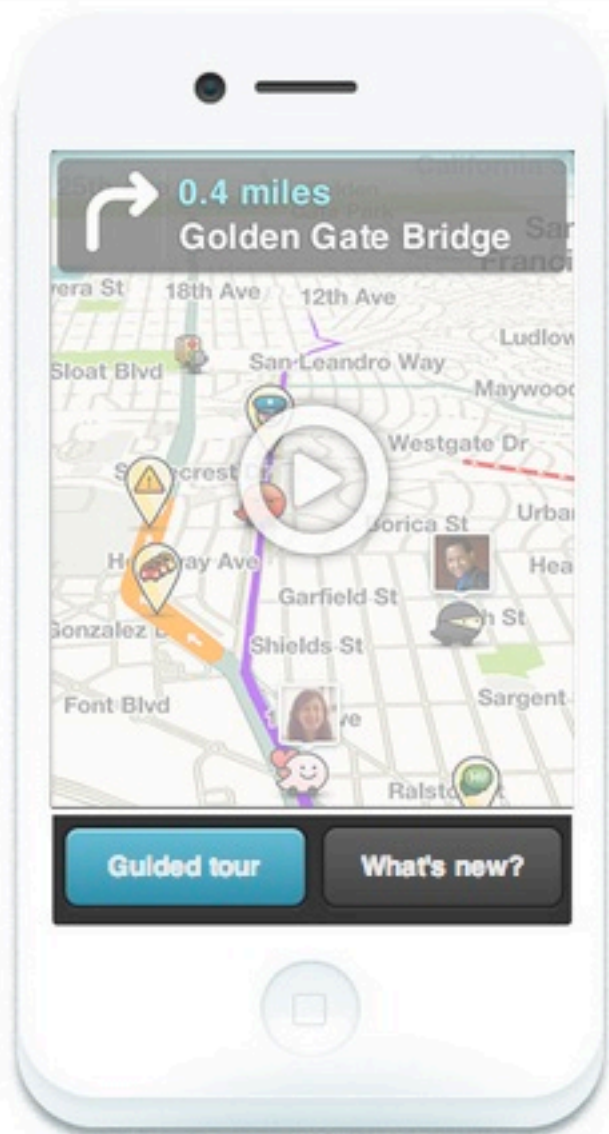
Tracking data.
Incident reporting.
Guidance.
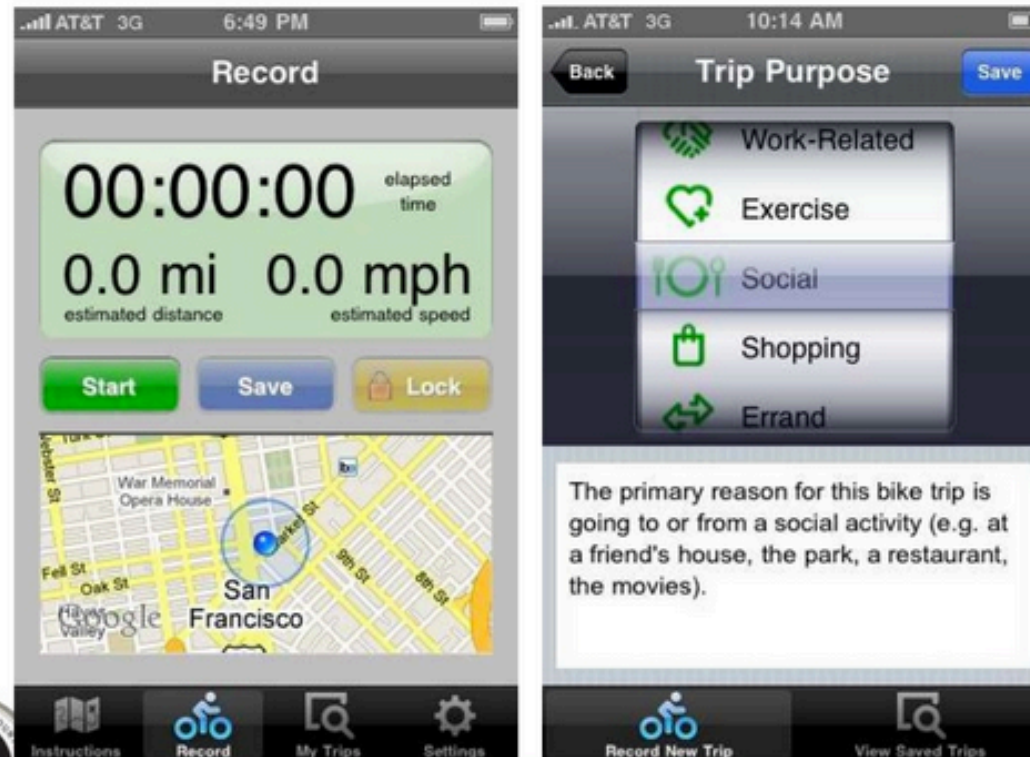
Open Source Bike Tracking App – Cycle Tracks (SF)
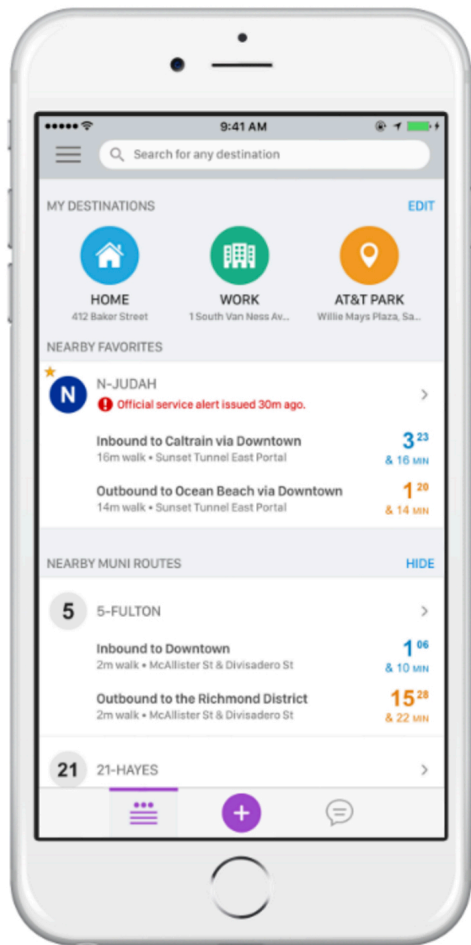
Meet Transitime

Swiftly has developed a more accurate real-time transit arrival prediction algorithm, called Transitime, to provide you with more accurate arrival and departure times. These predictions are accurate up to 20% more often than most current city-wide systems and bus stop signs.

PREDICTION ACCURACY

TRANSITIME

OFFICIAL SF DATA (NEXTBUS)
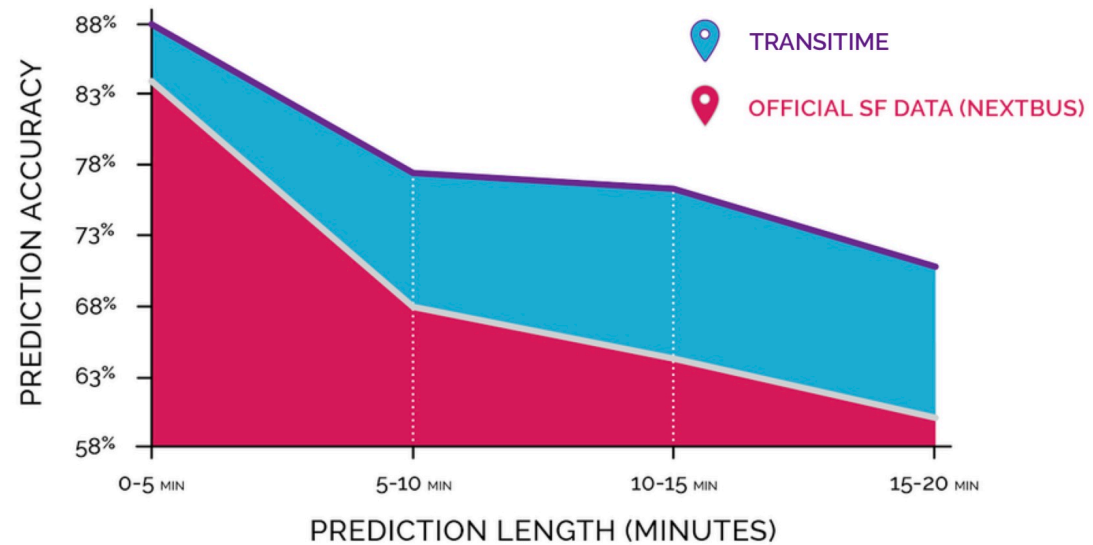
Swift app and "Transitime" analysis tool

More accurate than transit agency data?
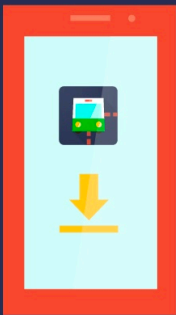
Using GPS tracking (& games) to crowdsource a map

Mexico City private mini-buses

Resident data collection – WayCount traffic counter

Your sensor data available on the Internet for anyone to analyse.
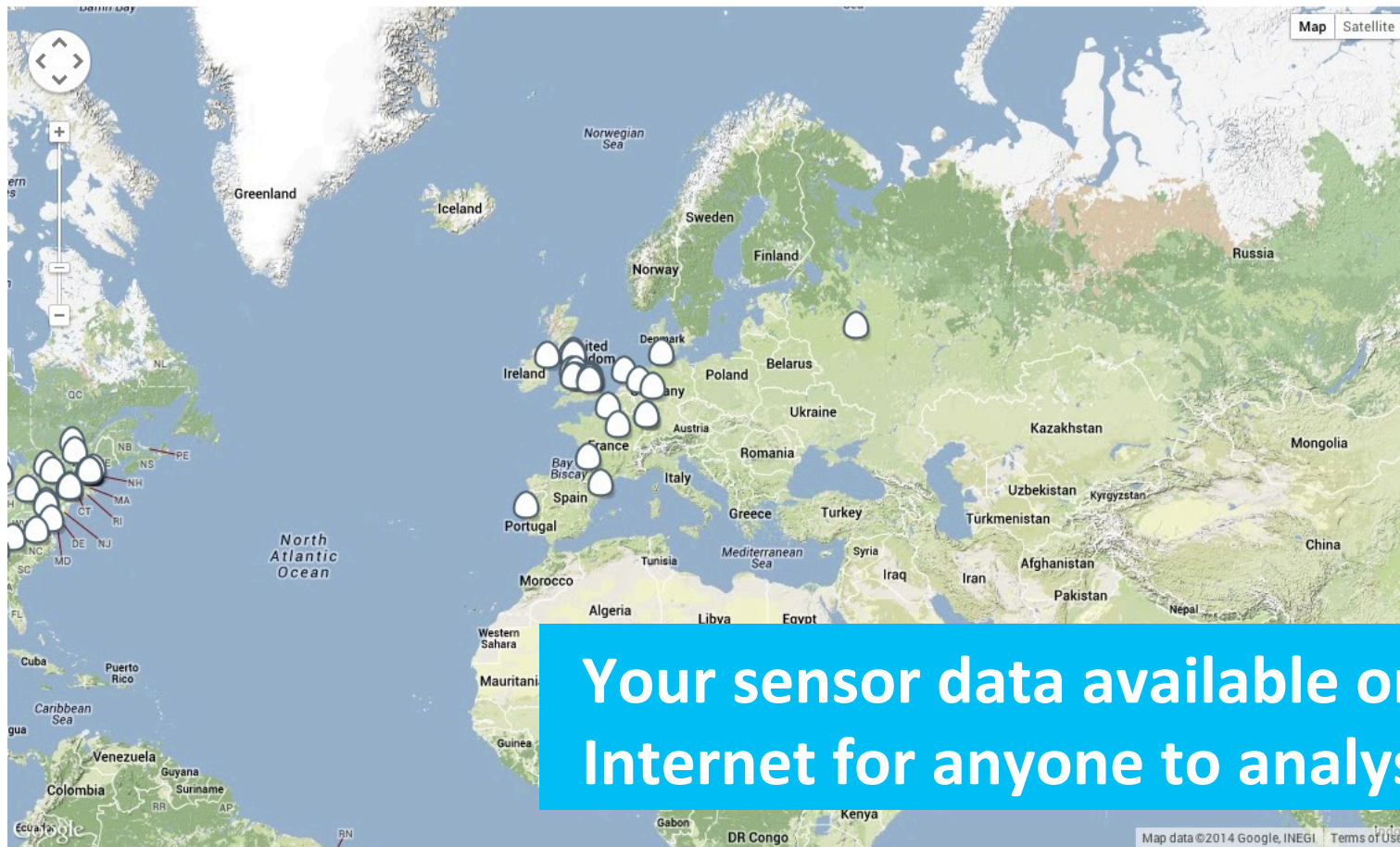
What is it?

A community-led air quality sensing network that gives people a way to participate in the conversation about air quality.

Sharing resident-collected data - Air Quality Egg

Collaborate

Apps make Collaboration more *efficient*

- **Education – problems are complex;**

- **Process – meetings are difficult;**

- **Engagement – more is better.**
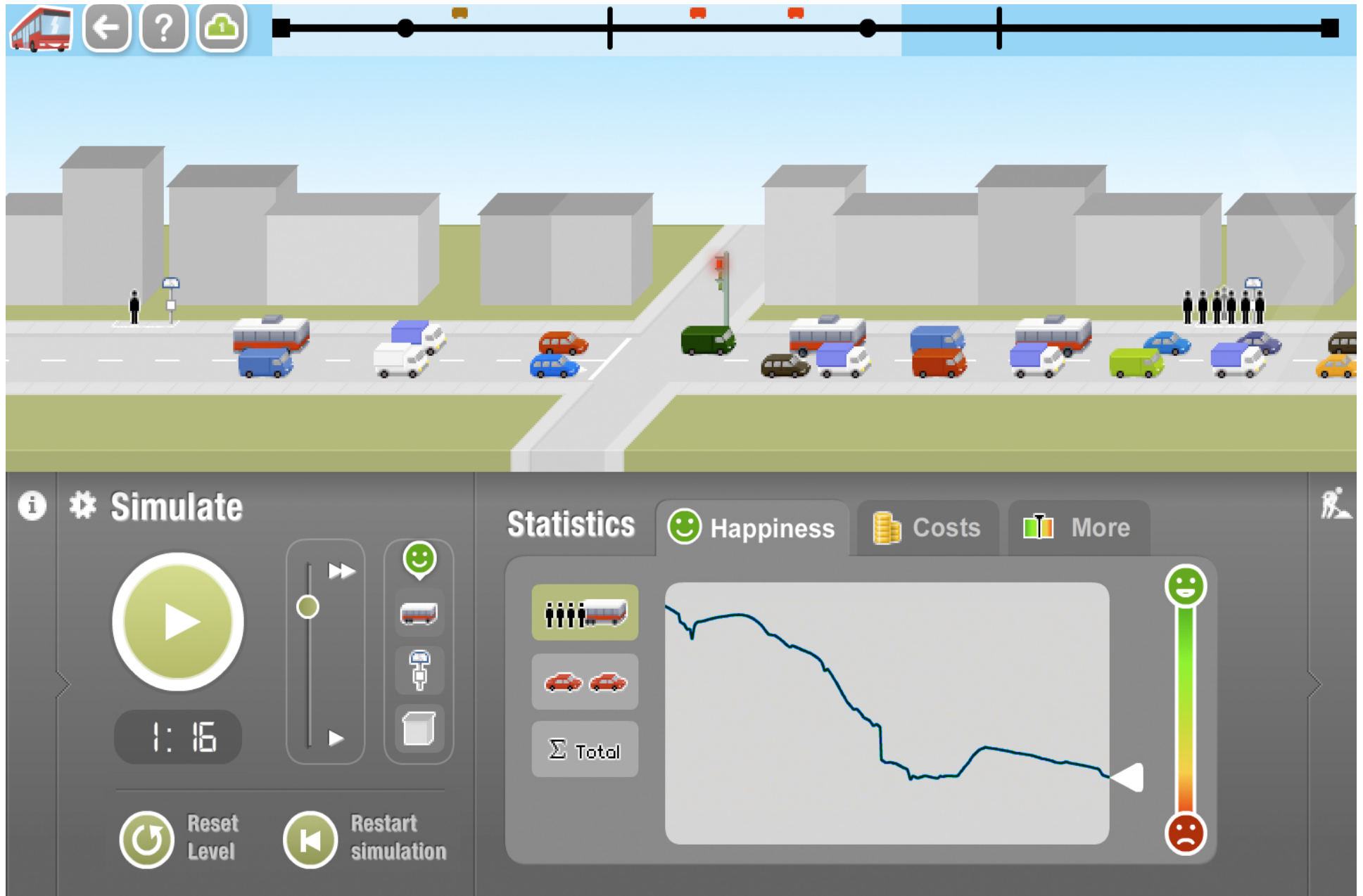
Education: Games – Bus Meister

Education: Visualisation – streetmix.net

Education: Virtual Reality
Participatory Chinatown Boston

Collaboration via Facebook – Green City Streets Forum

Collaboration & Education – MetroQuest
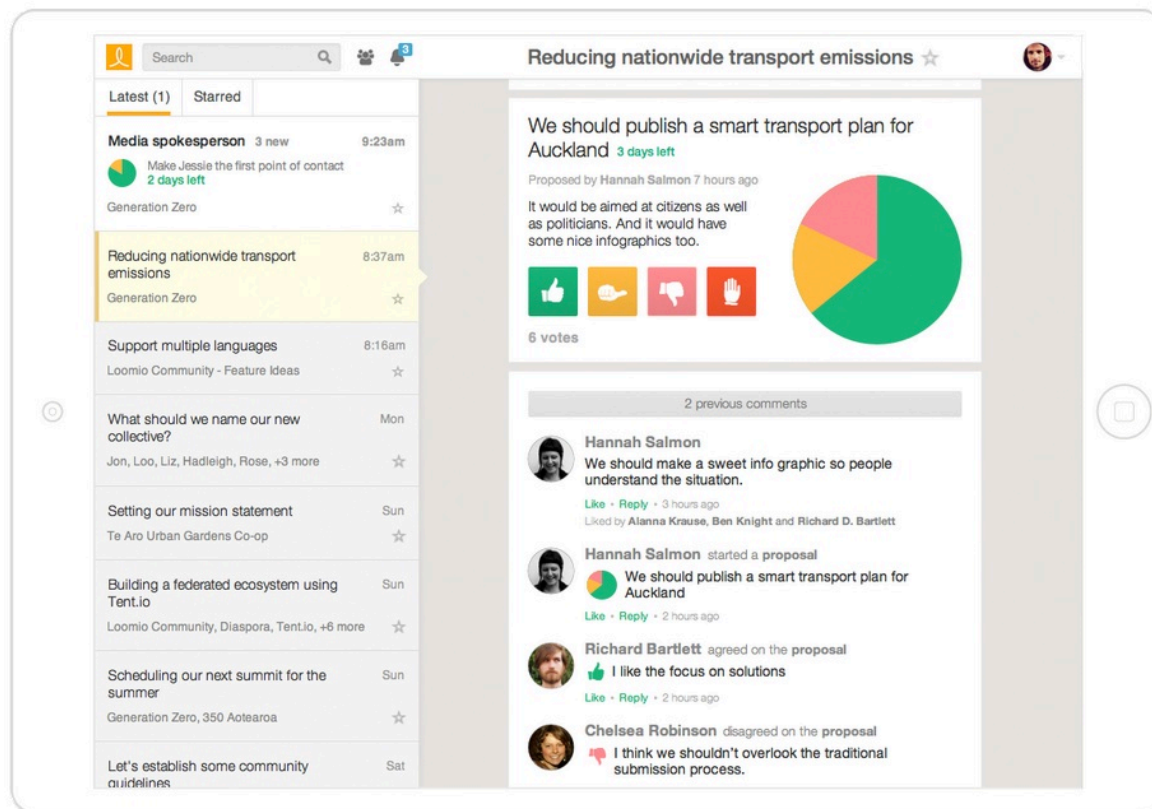
Collaboration tools and app – Loomio

Engagement: Games – Ring Ride Vienna

Act

Apps lead to ACTION

- *Re-use* ... vacant urban land → 596 Acres;

- *Share* ... food with neighbours → Casserole;

- *DYI* ... do it yourself → bike lanes, pedestrian signs;

- *Change* ... travel patterns → Chromaroma, Walk-a-Stop;

- *Fund* ... local projects → Spacehive, Kickstarter;

- *Provide* ... transport service → Uber, BlahBlahCar, Bridj;

- *Create* ... open source software and apps → travel?

ver en Español

Get The News From The Acres

Your email address

Subscribe

GET INVOLVED   NEWS   RESOURCES   PRESS   DONATE   CONTACT   ABOUT   FREQUENTLY ASKED QUESTIONS

Lot size: 0 to   3+ acres

Streetview is below the map when a lot is selected.

Political Borders
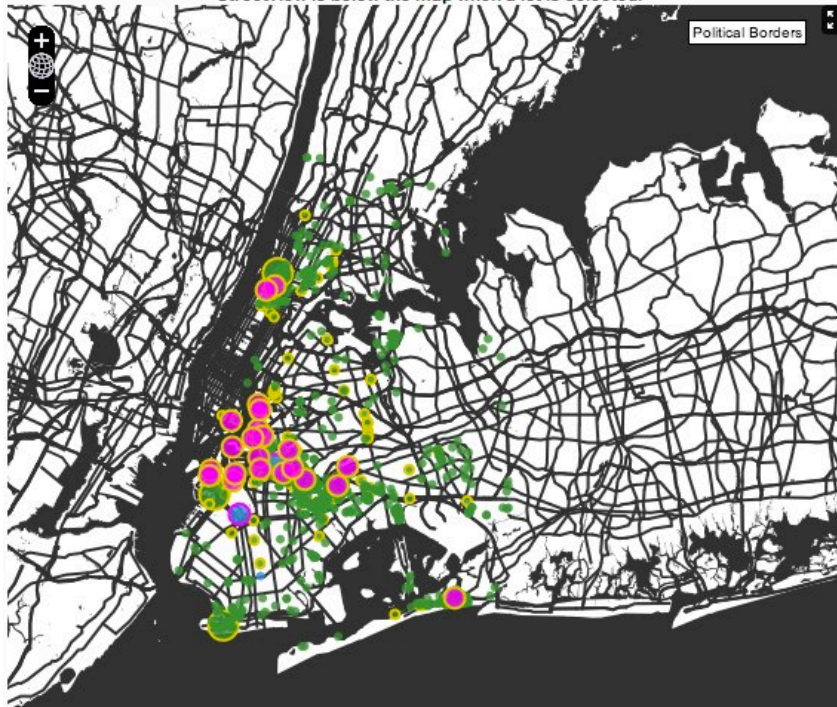
This map shows sites of potential community projects. We have taken several different sources of information about vacant publicly owned land, chosen the most accurate information from each and shared them here. This is our commons. We also add few private lots whose owners have volunteered their land for community use.

☑ ● public vacant lots
☑ ● public vacant sites being organized around (114)
☑ ● public vacant sites where groups have access (22)
☑ ● private vacant sites (1)
☑ ● private vacant sites being used by community (3)
☐ ● community gardens on public land
☐ ● gutterspaces

Acres' People

▶ 0:00 / 1:53   YouTube

Map Data © OpenStreetMap. Rendering © CloudMade.

Upcoming Events

596 Acres at GreenThumb Grow Together in the Bronx
Saturday, March 29 from 8:30 a.m. to 4 p.m.

596 Acres' Citywide General Organizing Meeting
Saturday, March 29 from 8:30 p.m.

Book Binding with 596 Acres at Build It Green in Gowanus!
Saturday, April 5 from 1 p.m. to 3:30 p.m.

view all upcoming events | view past events

Recent news

News From the Acres - March 20, 2014
March 20, 2014 in news from the acres

Vacant Acres Dinner at the Sunview with Uncle Ruth
March 17, 2014 in OtherCities

News From the Acres - March 13, 2014
March 13, 2014 in news from the acres

Search for lots near an address: search   use my current location

Boroughs:
☑ Bronx
☑ Brooklyn
☑ Manhattan
☑ Queens

You are currently looking at:
1221 public vacant sites on **1375** lots on **432.592** acres …how big is that?
**114** public vacant sites being organized around on **214** lots on **54.025** acres …how big is that?
22 public vacant sites where groups have access on **37** lots on **4.218** acres …how big is that?
1 private vacant sites on **1** lots on **0.305** acres …how big is that?
3 private vacant sites being used by community on **3** lots on **0.163** acres …how big is that?
0 community gardens on public land on **0** lots on **0** acres …how big is that?
0 gutterspaces on **0** acres …how big is that?

Information exchange and organisation … 596 Acres

Share: Meals – Casserole (UK)

- *Cooking the meal is as important as receiving it.*

- *Social contact is as important as nutrition.*

STEAL THIS IDEA: A $600 PROTECTED BIKE LANE DEMO AT AN OPEN-STREETS EVENT

Chrissy Lee of the Minneapolis Bicycle Coalition sets up a "pop up" bike lane demo last summer.

DYI – *Do it yourself* – Bike lane (Minneapolis)

DYI – *Do it yourself* – Signs (Walk Your City)
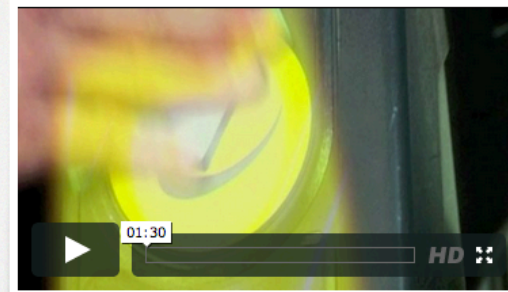
Change Behaviour – Chromaroma game (London)

Activity monitor

+

Real time transport data

+

Social networking

=

Walk-a-Stop

Public transport agency sends push notifications to help manage demand (e.g., crowded station).

Why not walk a stop?

Users receive map and reward (points, coffee on route).
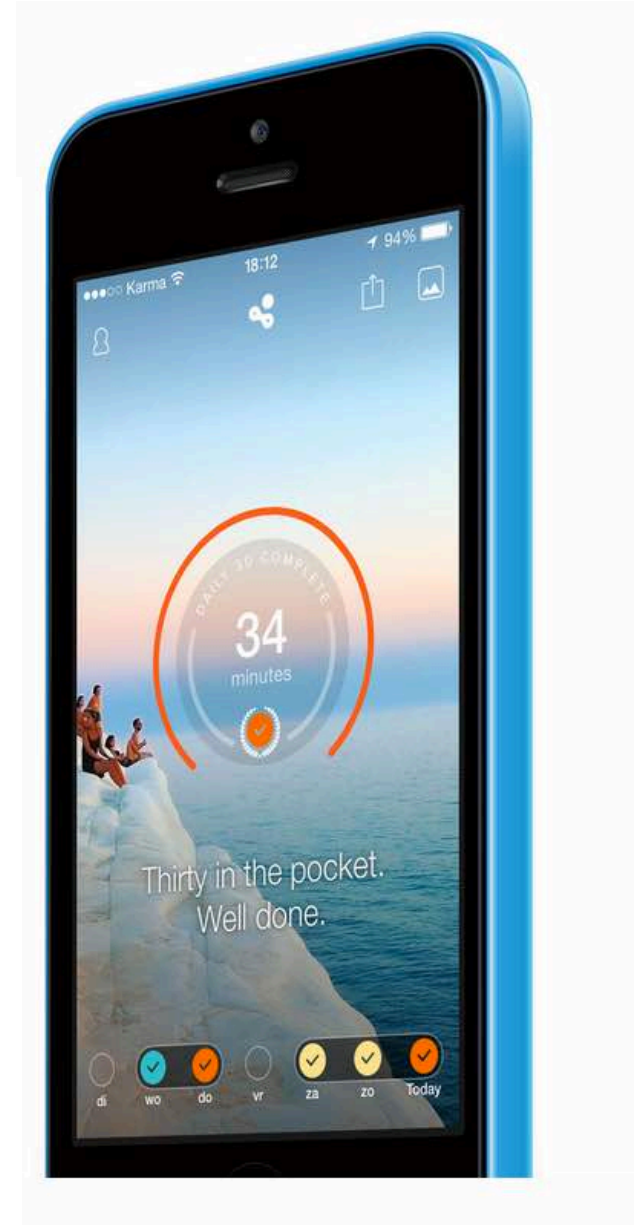
Change Behaviour – Walk-a-Stop (Prototype)

Fund local projects – Bus Shelter (Kickstarter)

Provide transport service – Rideshare (Bla Bla Car)

Provide transport service – Public Transport (Bridj)
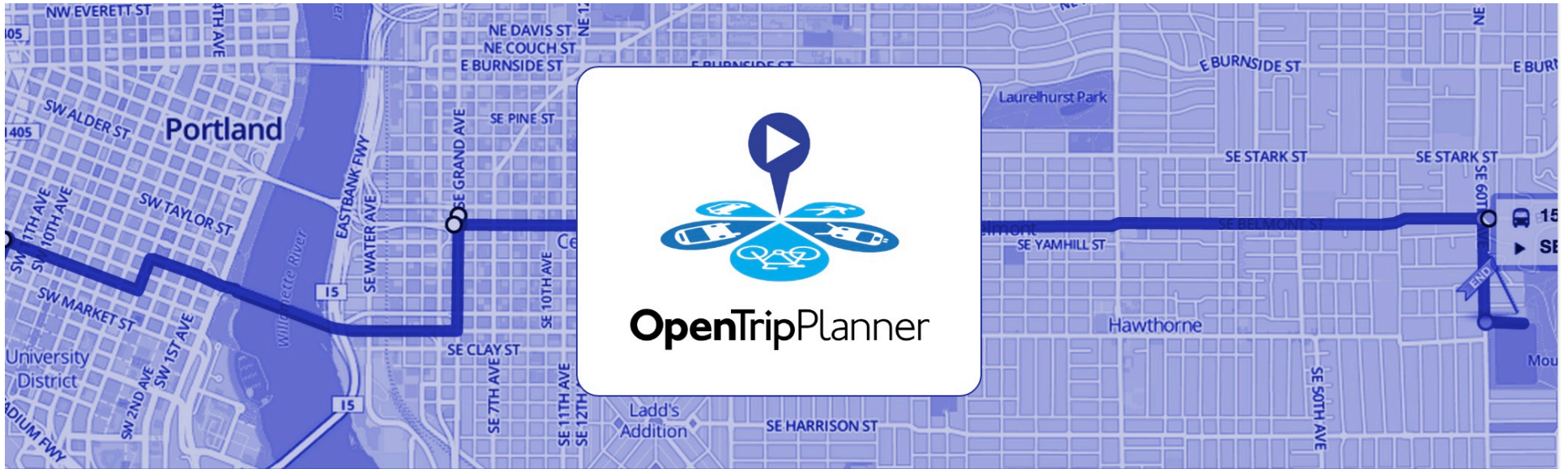
Multimodal trip planning & analysis

OpenTripPlanner provides a range of passenger information and
transportation network analysis features using our infrastructure for
finding itineraries combining transit, pedestrian, bike, and car segments.

Create – Open source software (Open Trip Planner)

What

I cheated ...

How → **What**

Why

Crowdsourcing Applications

Can help address

pressing problems.

Automation, robots, the end of work?

Passion replaces salaries in an age of guaranteed incomes.

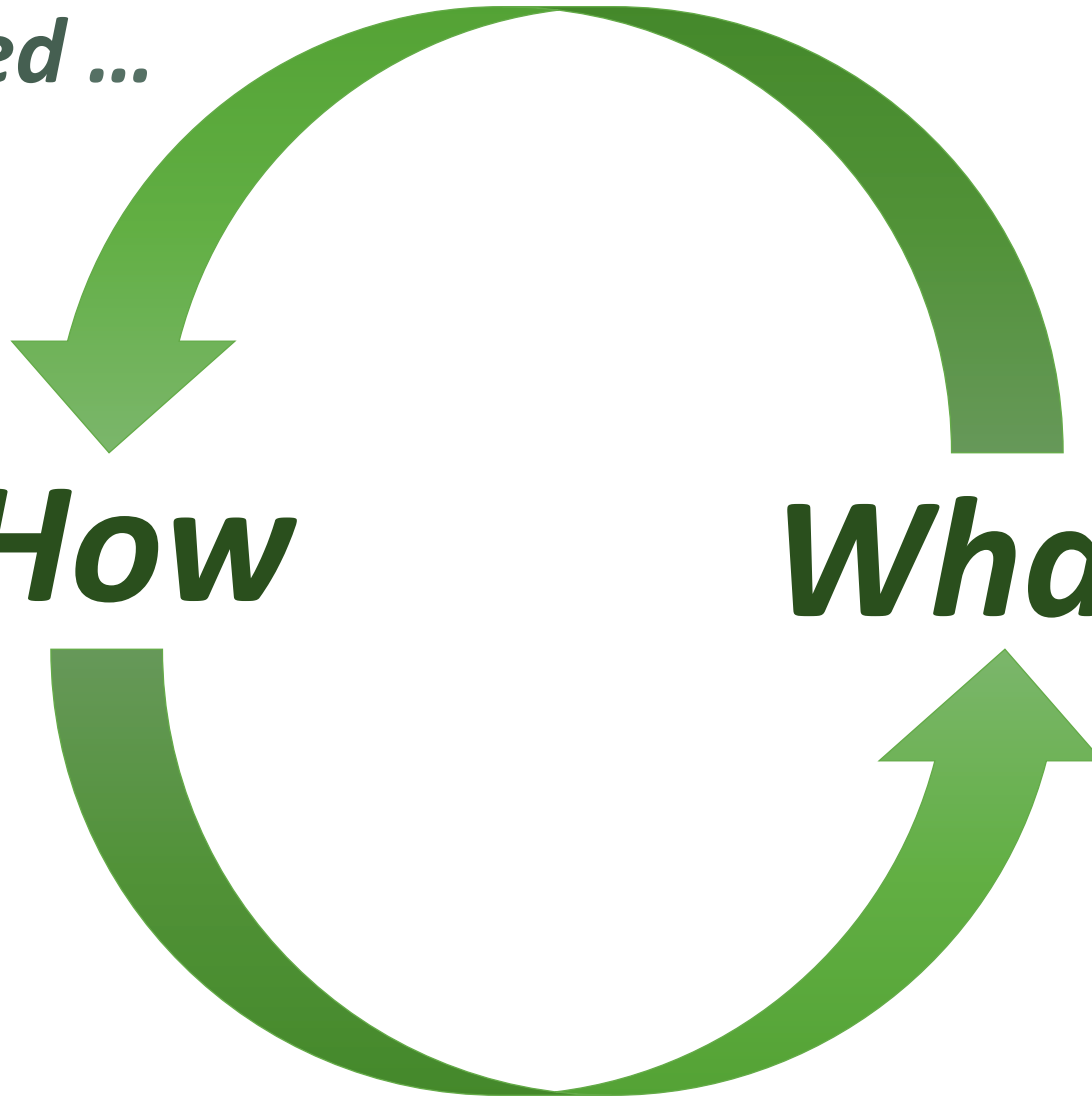**Crowdsourcing apps can help people find opportunities to _____.**

Alienation, elitism, inequality?

Building shared visions creates a foundation for community.
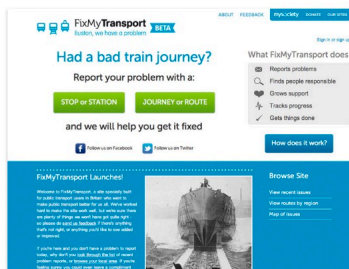
Use crowdsourcing apps to create community.

When

Now ...

crowdsourced-transport.com
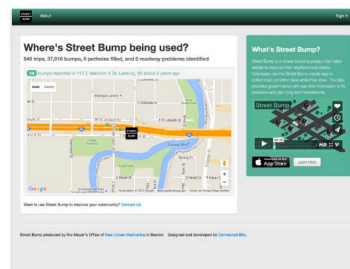## Civic Technology for Sustainable Transport

Four Types of Crowdsourcing in Transportation

Report

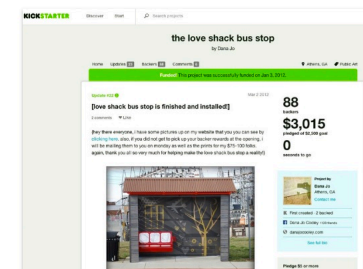Report problems.

read more

Analyse

Collect and analyse data.
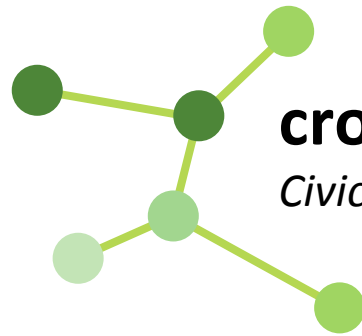

read more

Collaborate

Work together on projects.
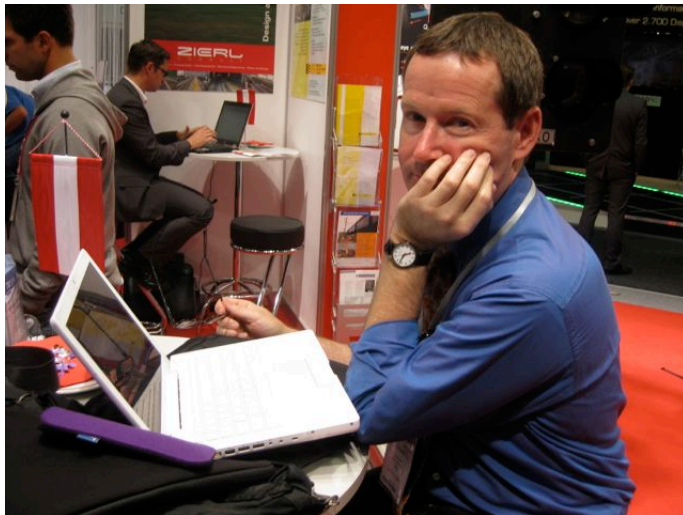

read more

Act

Support and provide transport.

read more

crowdsourced-transport.com
Civic Technology for Sustainable Transport

Andrew Nash develops engaging public participation applications and games designed to improve city live-ability and transport.

- Crowdsourced-Transport.com
- Ringstrasse150.com
- AndyNash.com