e-mobility applications
for sustainable and livable cities

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Introduction

Throughout history cities have been the generators of human culture and economic wealth …

… and their importance is growing.

To be sustainable and livable cities need to become …

… more efficient and attractive.

How do we make cities
more efficient and attractive?

Traditional strategies

- Big capital improvements

- Big bureaucracies

- Big political processes

- Centralized systems

… are failing.

Could …

… small-scale, local, citizen-based
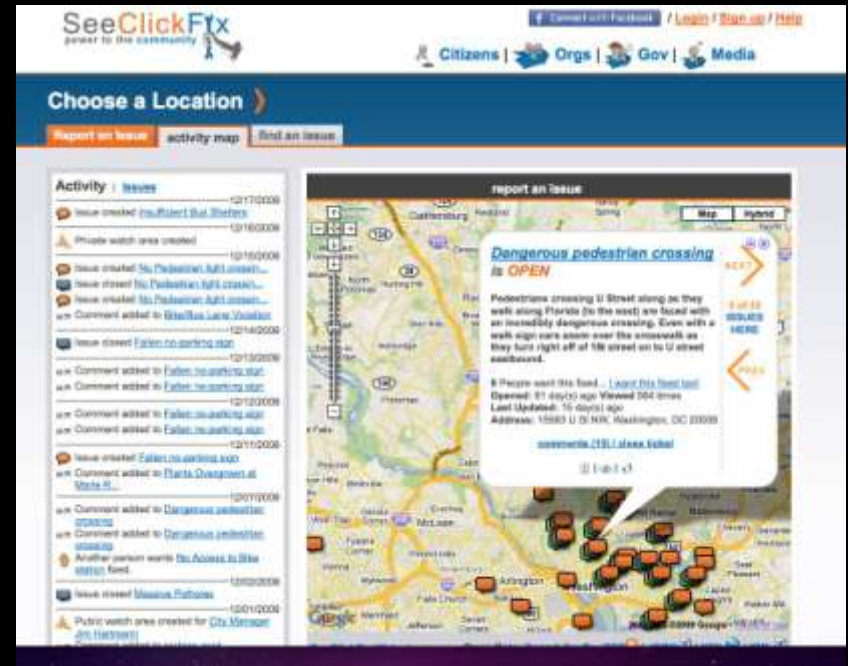efforts replace big centralized programs?

Yes …

… new technologies provide citizens with the tools needed to help create more efficient and attractive cities.

Internet-based applications enable …

everyone …

to develop ideas, and …

help get good ideas implemented.

What are internet-based applications?

Four categories of internet applications

1 - Informational (wikis, mash-ups, traditional websites),

2 - Planning and administration (seeclickfix),

3 - Social networking (Facebook),

4 - Analysis and evaluation (cloud computing, games).

The best integrate several of these into a single application.

Research Database

Game

Social Networking

Interactive Plan

Bus Meister: an example

Bus Meister helps citizens identify and implement ideas for improving public transport:

- **Game** - players learn how PT priority can improve service on their public transport routes.

- **Crowd sourced research wiki** - documents best practices in PT priority.

- **Social networking tools** - help players generate political support for implementing PT priority improvements.

Bus Meister game:

- Players enter information (routes, stops, etc.) about their PT route into the game;

- Google maps/ GPS-enabled device interfaces facilitate data entry;

- Players test PT priority improvements by dragging "widgets" onto the route maps;

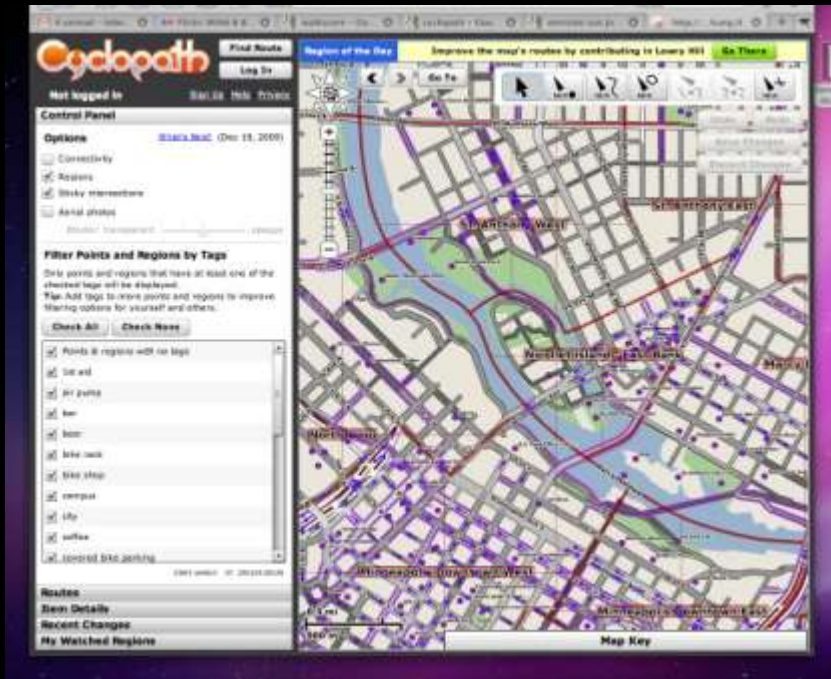- Game educates players, increases interest and helps identify best solutions.

Why a game?

Games provide the main components of happiness:

1. *Satisfying work*

2. *The experience of being good at something*

3. *Time spent with people we like*

4. *The chance to be a part of something bigger.*

Computer games can help solve real problems!

Source: Jane McGonigal, Advant Games; http://www.avantgame.com/

In other words, Bus Meister educates and empowers citizens to improve the efficiency and attractiveness of urban public transport.

The basic approach:

Creating an integrated set of internet applications to educate and empower citizens …

… can help solve many urban problems.

Possible applications (from your list):

- Improve public transport

- Improve parking space management

- Use traffic management to reduce environmental impacts

- Increase traffic safety

- Support zero emission vehicles

- Encourage integrated transport planning solutions (e.g. pollution control)

- City Logistics: optimize freight delivery to improve efficiency, energy use and environment.

- Urban planning: design cities to reduce transportation impacts.

- Create smart grids to ensure energy availability, reduce pollution, etc.

- Use communication tools to improve public transport, traffic management, etc.

In summary

- We need to make our cities more efficient and attractive to create a more sustainable and equitable future for all.

- Traditional solutions focusing on big projects and centralized bureaucracy are failing to achieve these goals.

- Integrated internet applications can educate and empower citizens to develop and help implement new solutions for improving the efficiency and attractiveness of cities.

Questions?

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