## Practices Technology

gaming reading traveling wayfinding socializing mobile networks interfaces sensors internet Spaces

city airplane workplace home kitchen



## Data

desk research observations quantitative ethno-mining

## Insights

consolidate results prototype experts workshops

## Solutions

Design brief Specifications Concepts Roadmap





### Lift community of 6000+ experts and lead users

## Cities Networks <u>Frictions</u>



Barcelona Design Week, October 21, 2010. Fabien Girardin

## Knowledge about <u>frictions</u> is a powerful, relevant and original resource to innovate in the networked cities.

## friction |'frik sh ən|

noun the **resistance** that one surface or object encounters when moving over another.





# Phones aren't perfect

## Challenge for the entire industry

### Lubrication: change practices



### Lubrication: patch

#### Get an iPhone 4 Bumper or case at no charge.

Follow these steps to apply for a Bumper or case.

- Download the iPhone 4 Case Program app from the App Store.
- Launch the app on your iPhone 4 and sign in using your iTunes Store account or Apple ID.
- 3. Select your Bumper or case.

For iPhone 4 purchases made before July 23, 2010, you must apply no later than August 22, 2010; otherwise, you must apply within 30 days of your iPhone 4 purchase. To qualify for this program, you must purchase your iPhone 4 by September 30, 2010.

#### Read terms and conditions



### Lubrication: awareness of the seams



#### Status Bar

#### .... Cell Signal

Shows whether you're in range of the cell networks and can make and receive calls. The more bars, the stronger the signal. If there's no signal, the bars are replaced with "No service."

#### E EDGE Network

Shows that your carrier's EDGE network is available, and iPhone can connect to the Internet over EDGE.



Shows that iPhone is connected to the Internet over a Wi-Fi network. The more bars, the stronger the connection.

### Lubrication: frictions as part of the solution

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機場資訊 Information 注

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↑ 專車候車處 Limousine lounge 1

↑ ■隊巴士 Tour coach ■

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In-situ travel survey Any country Any user

Anywhere Accurately Privacy

MCC1:MNC1:LAC1	;	MCC2 : MNC2 : LAC2	Hop within adjacent LACs
214:3:2001	;	214:3:2010	
214-2+2810	÷	214.3.9002	
Q14:3:2002	ş	214:3:2001	
210:3:2801	,	214.1.20551	
214:3:2010	1	214:1:20541	
214:1:20551	1	214:1:21821	
214-1+21021	,	214.1.21592	
Q14:1:21592	ļ	214:3:2010	
214:3:2802	,	214.7.405	
214:3:2001	1	214:3:2003	
214:3:2001	Ţ	214:7:807	Hop within two mobile
214:3:2001	;	214:7:805	operators (MNC)
214:7:805	1	214:7:807	operators (mito)
214:3:2010	;	214:1:20551	
214:3:2002	;	214:3:2011	
214:3:2011	;	214:3:2007	
228:2:5000	;	228:2:6000	
214:3:2001	;	214:1:20541	
214:1:20551	;	214:3:2002	
214:3:2001 214:7:805 214:3:2010 214:3:2002 214:3:2011 228:2:5000 214:3:2001		214:7:807 214:7:805 214:7:807 214:1:20551 214:3:2011 214:3:2007 228:2:6000 214:1:20541	Hop within two mobile operators (MNC)

### Lubrication: design for appropriation

© FOURSQUARE 201

### Foursquare usage and practices



Play



Collect



Recommend



Meet



#1: For designers, companies, users of the networked city, the adoption of technological innovation is a domestication process.

### friction |'frik sh ən|

noun

the action of one surface or object **rubbing** against another.









### Frictions sparkle data



The World's Eyes Where are the locals?



#### Presence of Flickr photographers in Barcelona 2007. Fabien Girardin



Foursquare check-ins during the Lift'10 Conference in Geneva. Lift Lab

Mapping the Fête de la musique 2008 in Paris from the Velib usage data. Fabien Girardin



Mapping the Fête de la musique 2008 in Paris from the Velib usage data. Fabien Girardin

### Frictions as support for services and planning



Flows of traffic in Zaragoza in from Bluetooth data. BitCarrier, Lift Lab, Bestiario

### Visitor experience at the Louvre

Image © 2010 Aerodata International Surveys

Imagery Date: Oct 21, 2007

lat 48.860799° lon 2.335190° elev 0 m

Eye alt 198 m 🔾

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### Support space management strategies

### Measuring occupancy levels and flows





### **Hyper-congestion indicator**



#2: New actors and intermediaries of the city with reorganization of the practices. Frictions are inevitable

They are part of the innovation process

Observe and analyze them

Leverage them!

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