

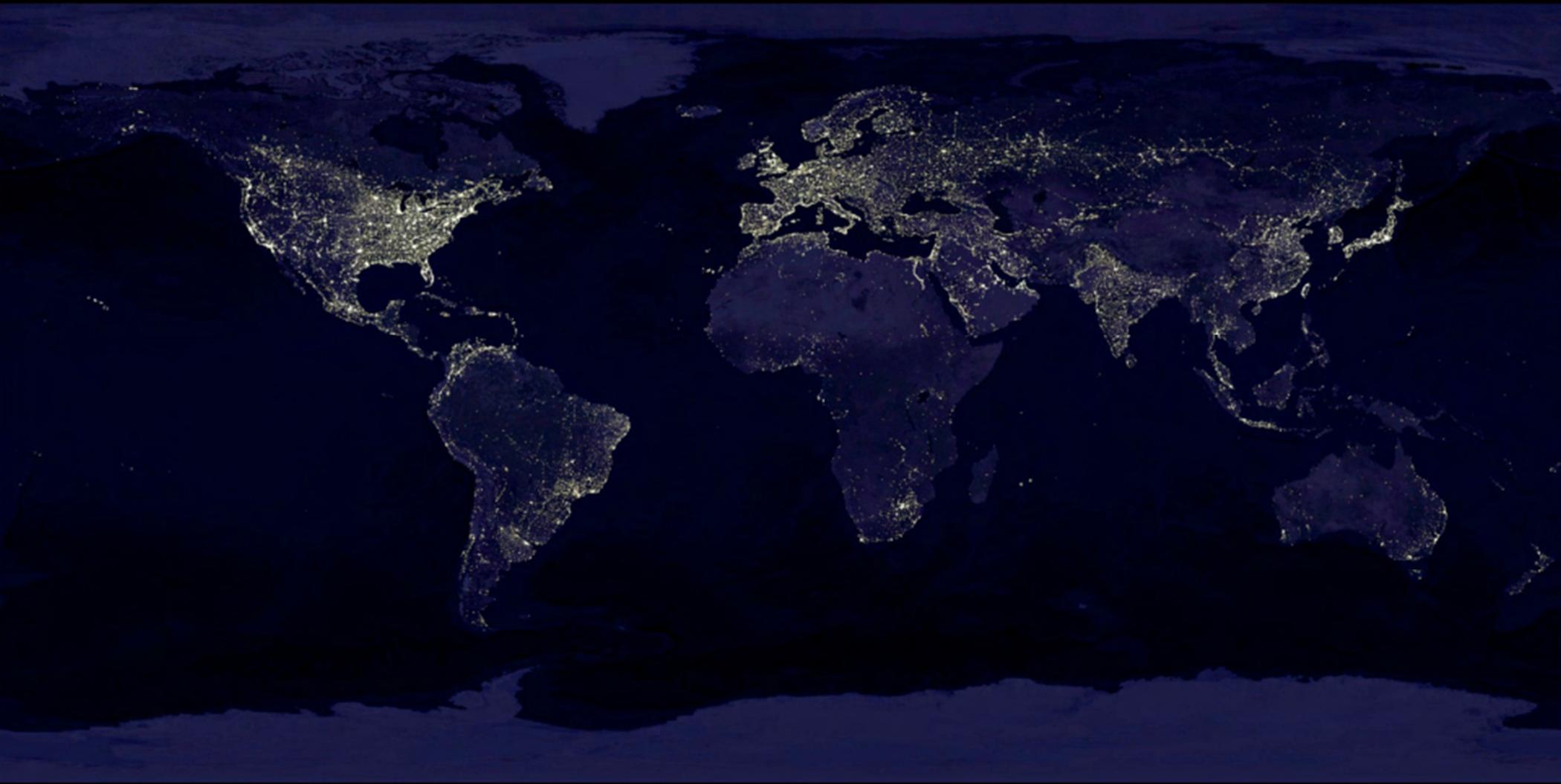
cities and the internet of everything

assaf biderman

associate director

senseable city lab, mit

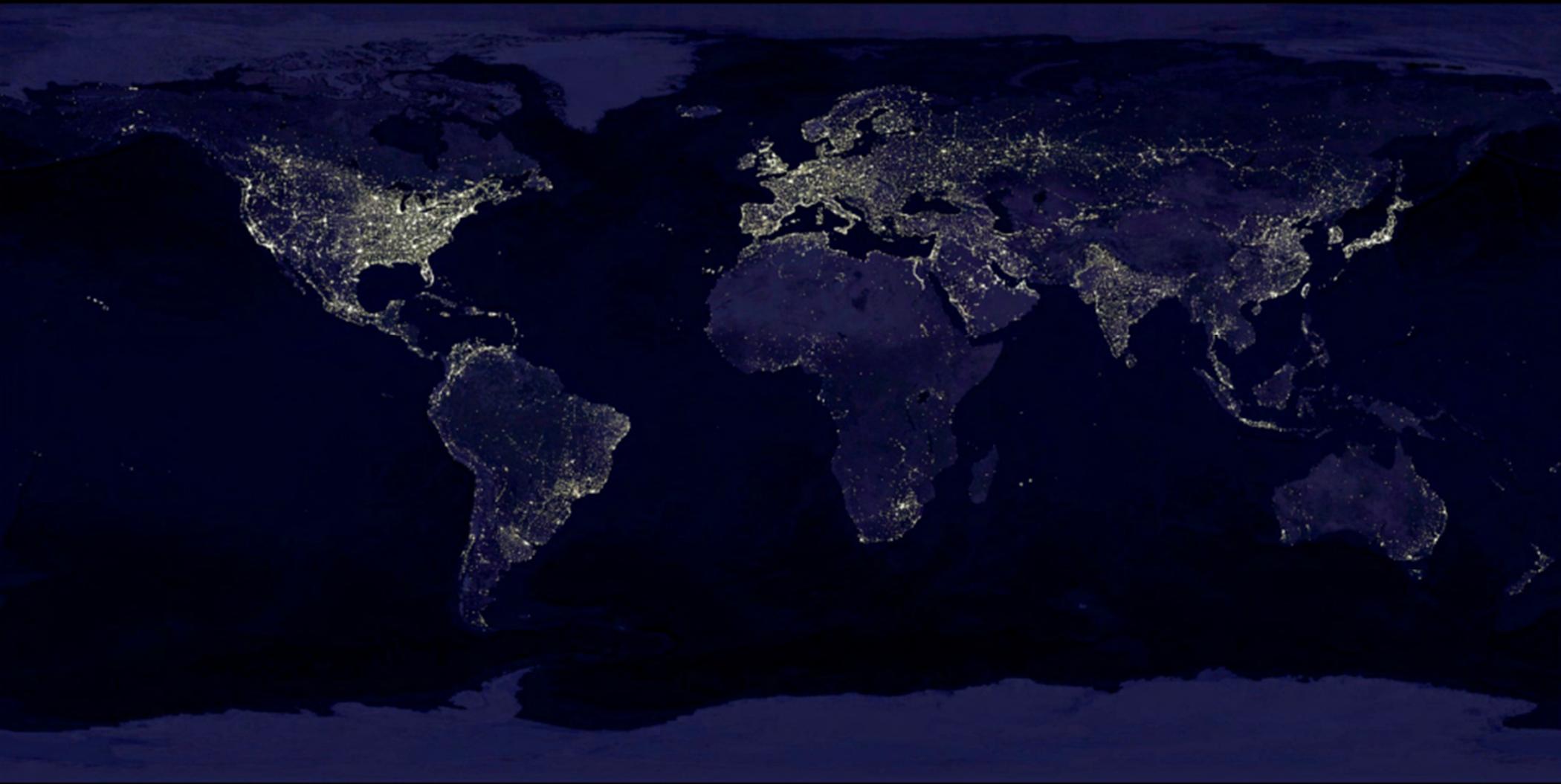
cost exploratory workshop, paris, france 09|26|2011



2 – 50 – 75 – 80



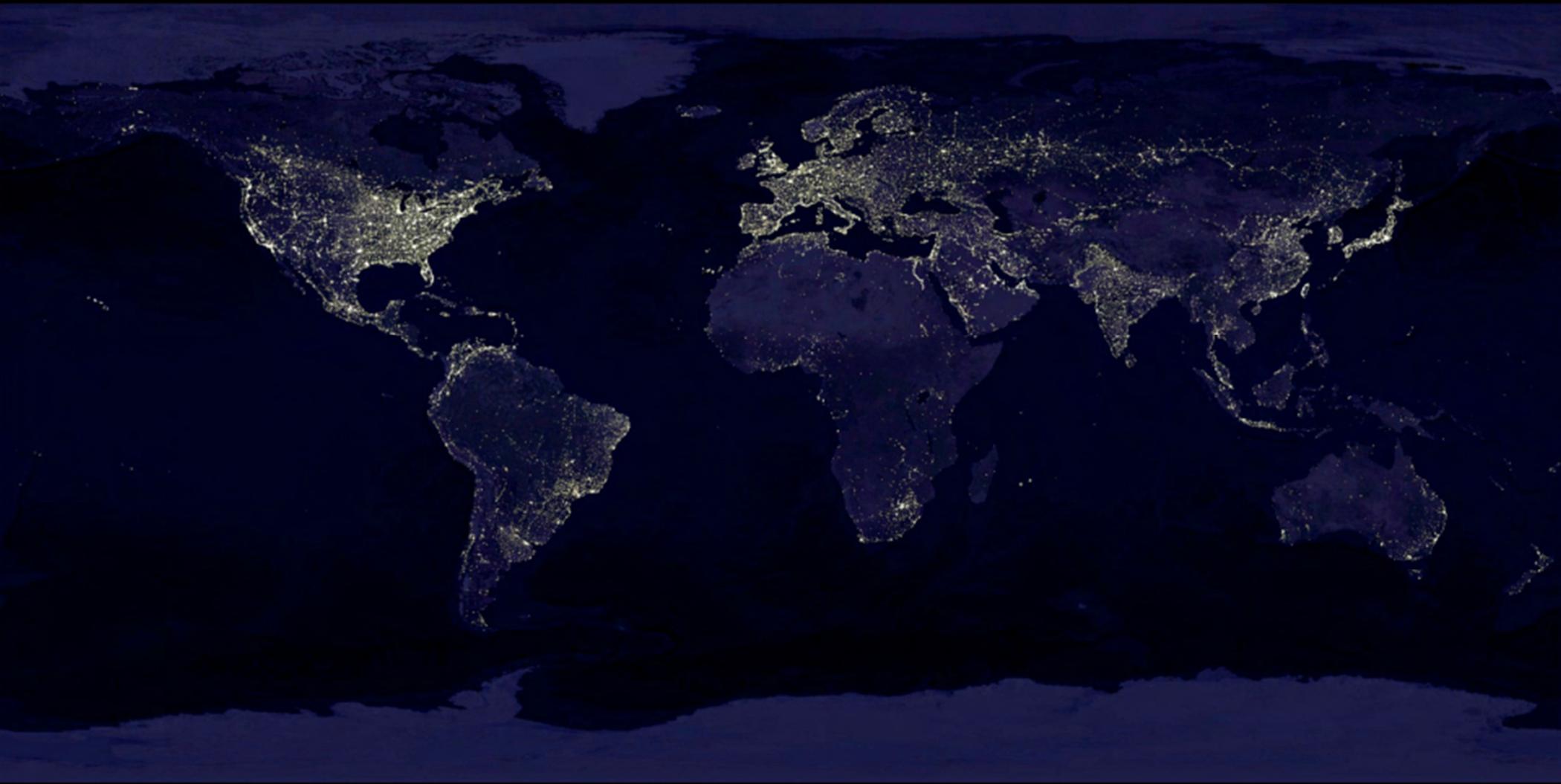
2 – 50 – 75 – 80



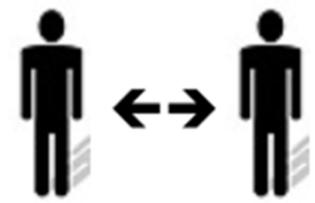
2 – 50 – 75 – 80



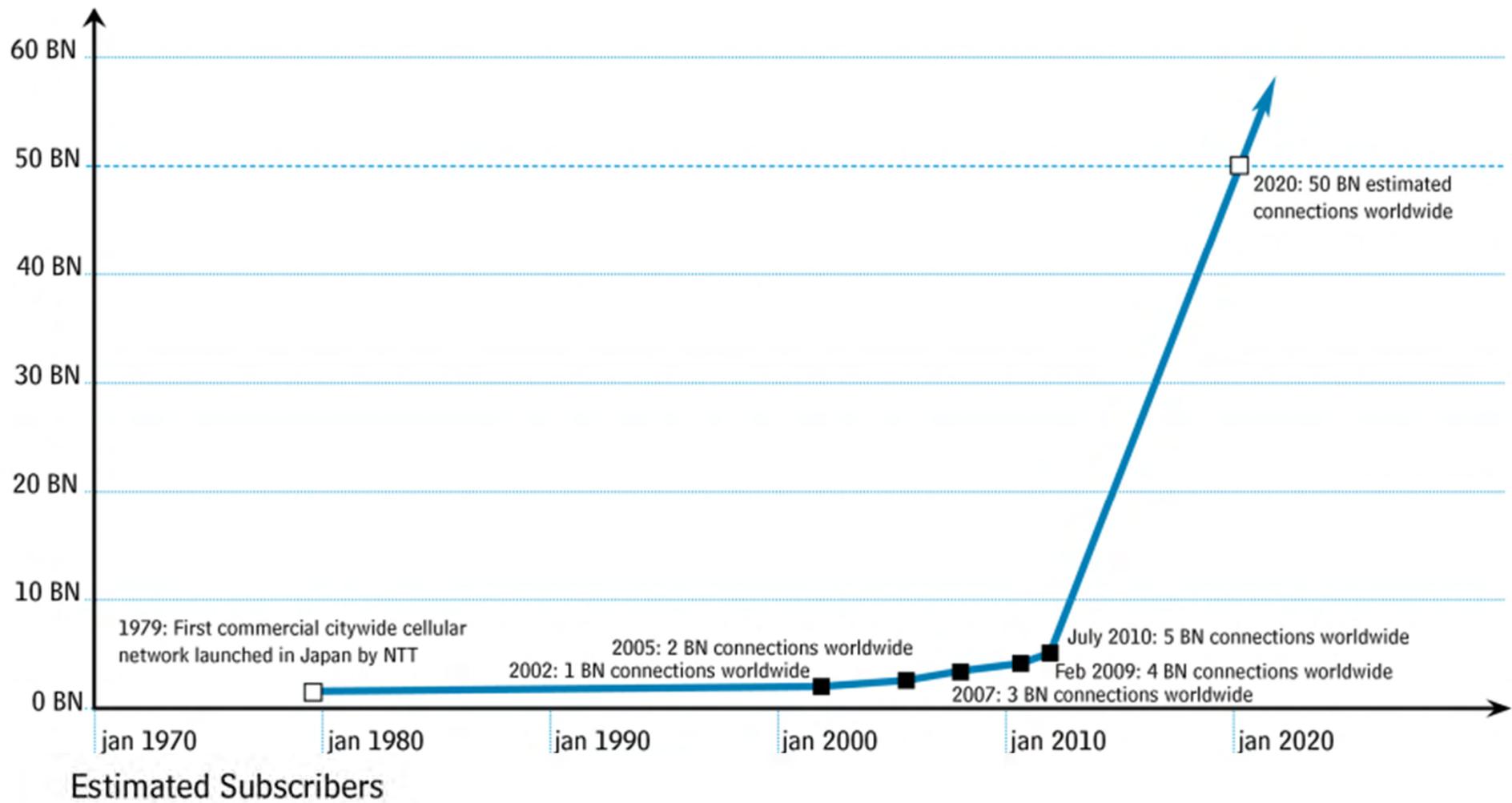
2 – 50 – **75** – 80



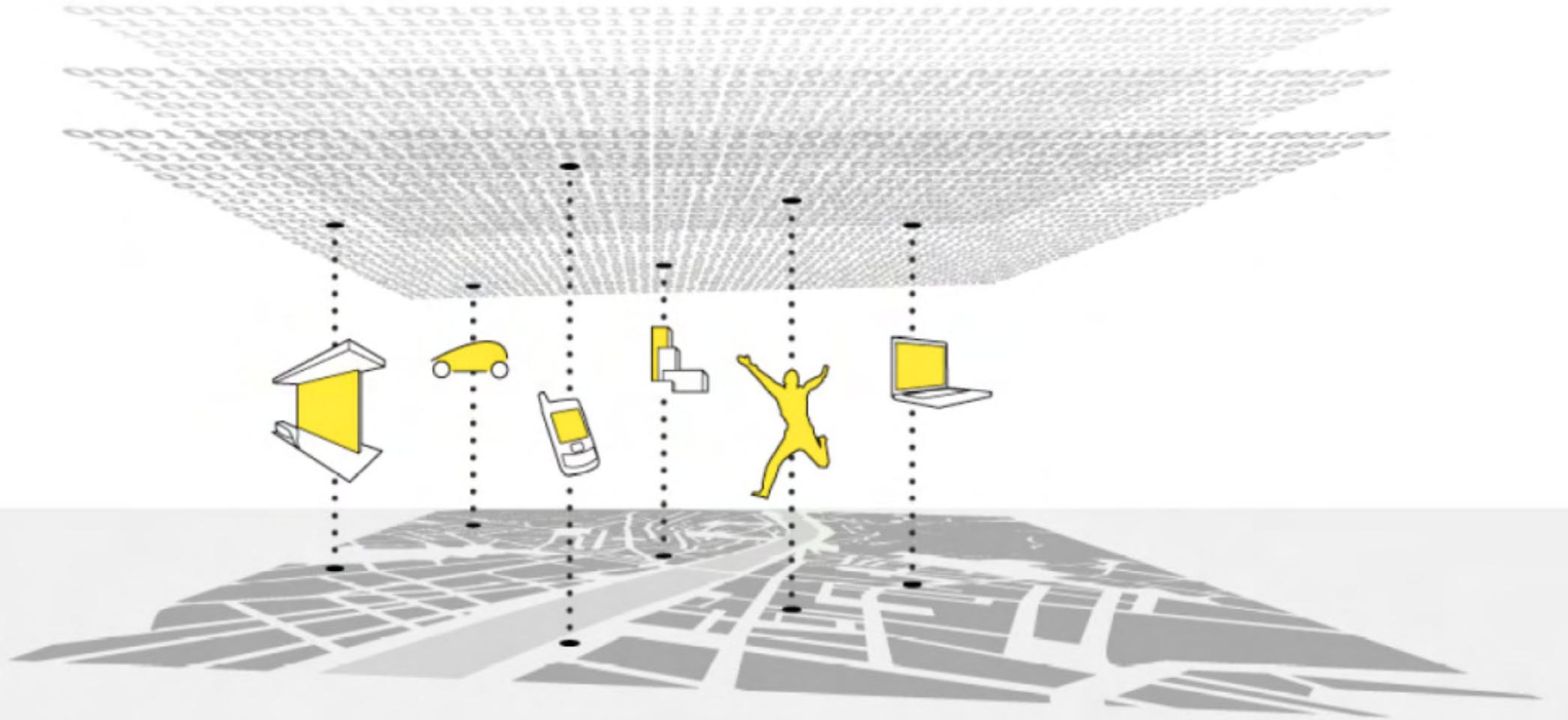
2 – 50 – 75 – 80











a new type of planning?
people + space + technology?

exploring urban futures by
developing partnerships between
cities and MIT...

real time rome 2006

[shown at venice biennale 2006]



venice biennale, 2006



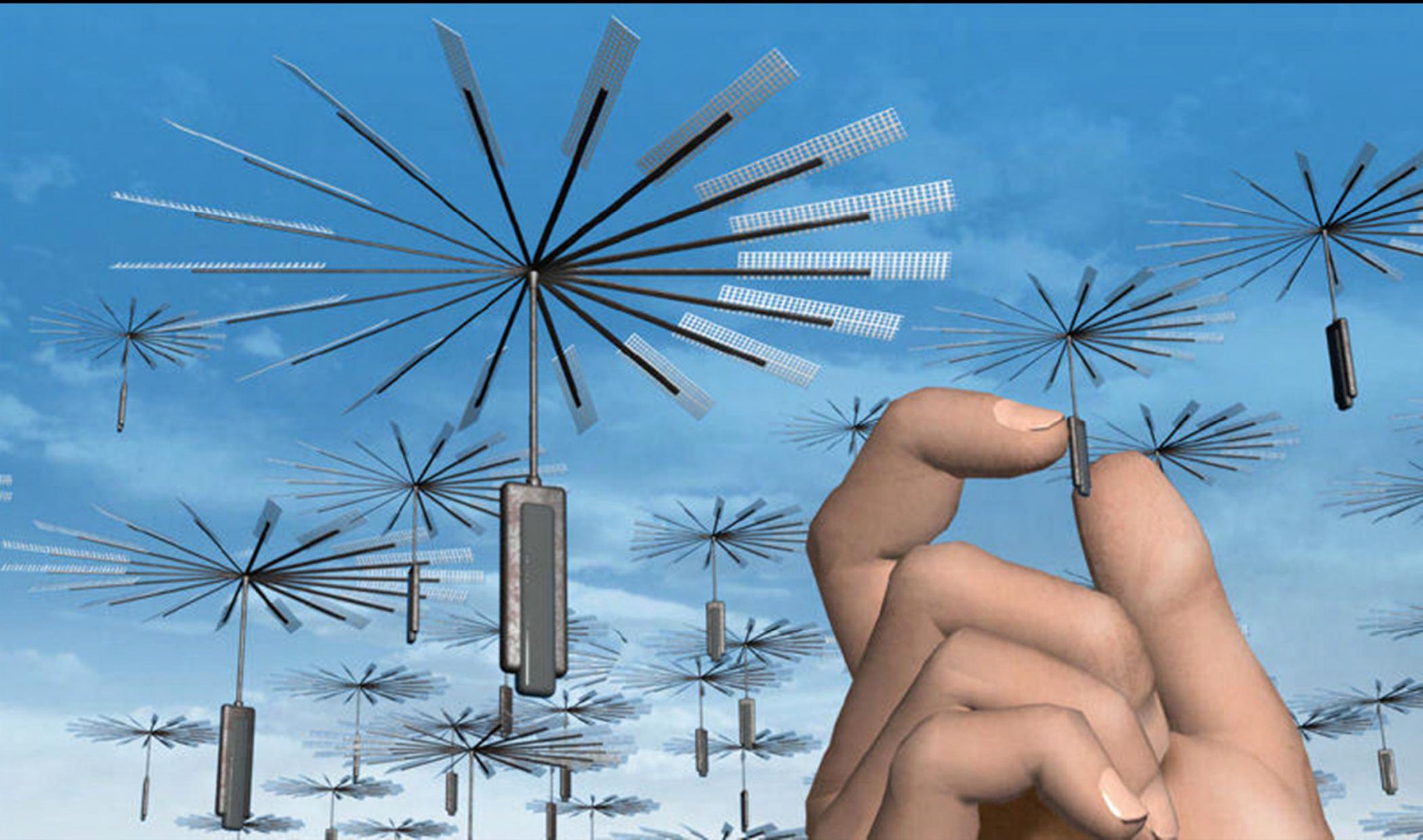


REAL TIME 12:56

low high

trash|track

[seattle, new york, london 2009]



smart dust <http://userwww.sfsu.edu/~infoarts/links/wireless/future.reseach.f/perv.SmartDustFinal.jpg>



smart dust + waste





V



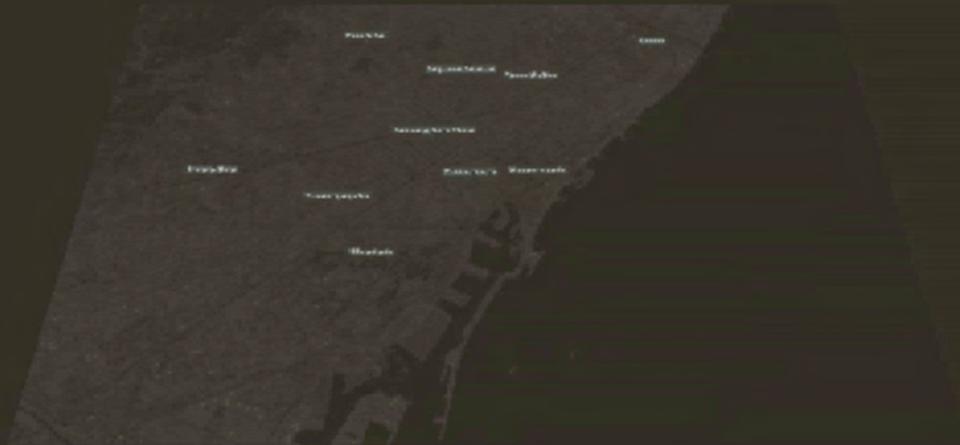


The day of deployment



world's eyes

[barcelona, 2008]



The World's Eyes
Where are the parties?

Current Week in 2007

28

45



The World's Eyes
Where is the color green?

Current Week in 2007

20

22

aida

[in collaboration with audi vw, 2008 - ongoing]

co2go

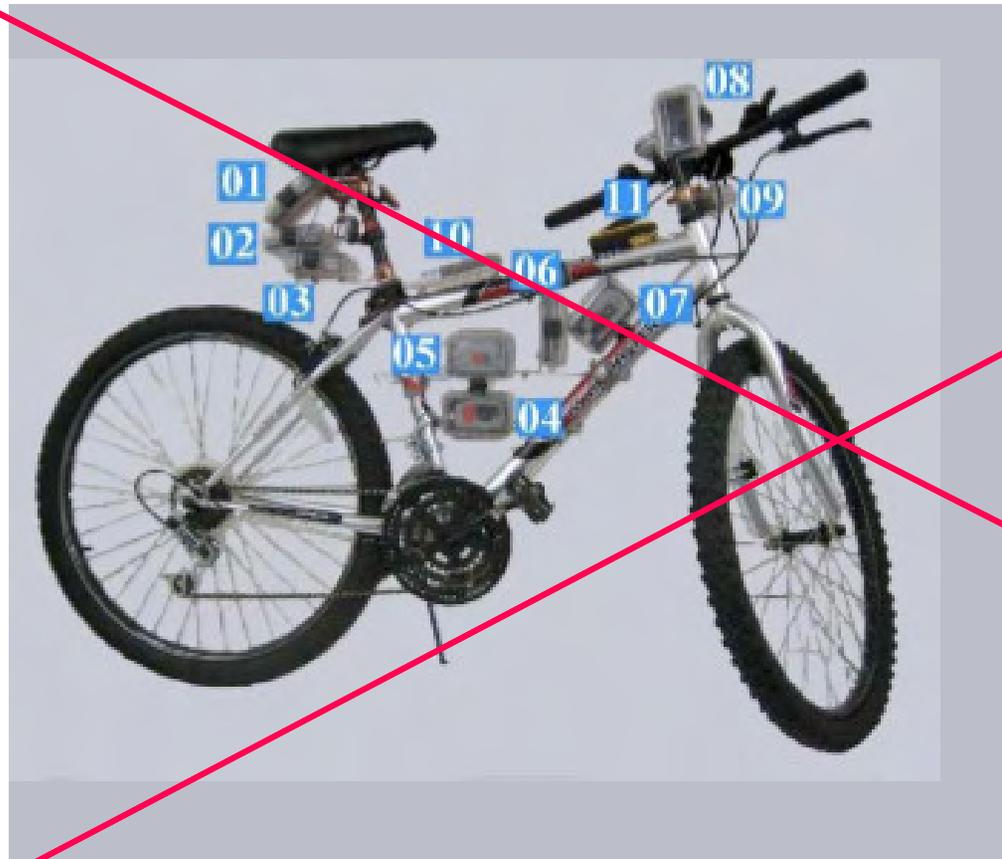
[paris, 2011]

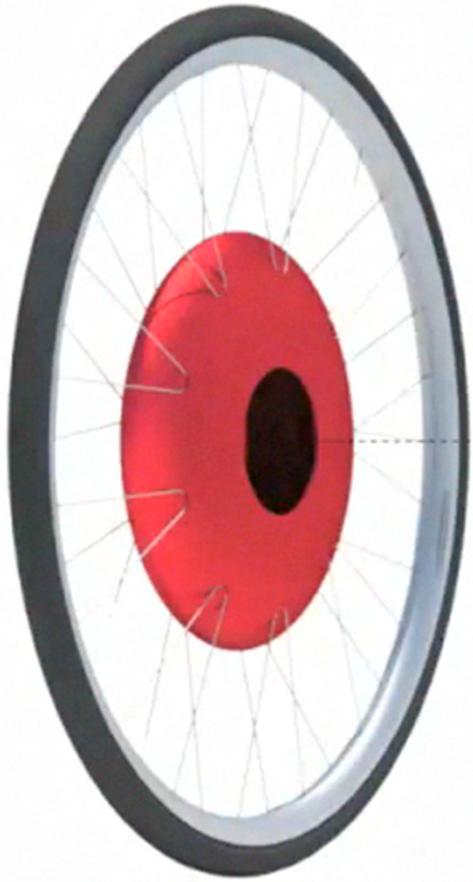
copenhagen wheel

[copenhagen, dec, 2009]











THE
COPENHAGEN
WHEEL

senseable city lab

CO
Carbon Monoxide



REALTIME



MY DATA



Sun Dec 06

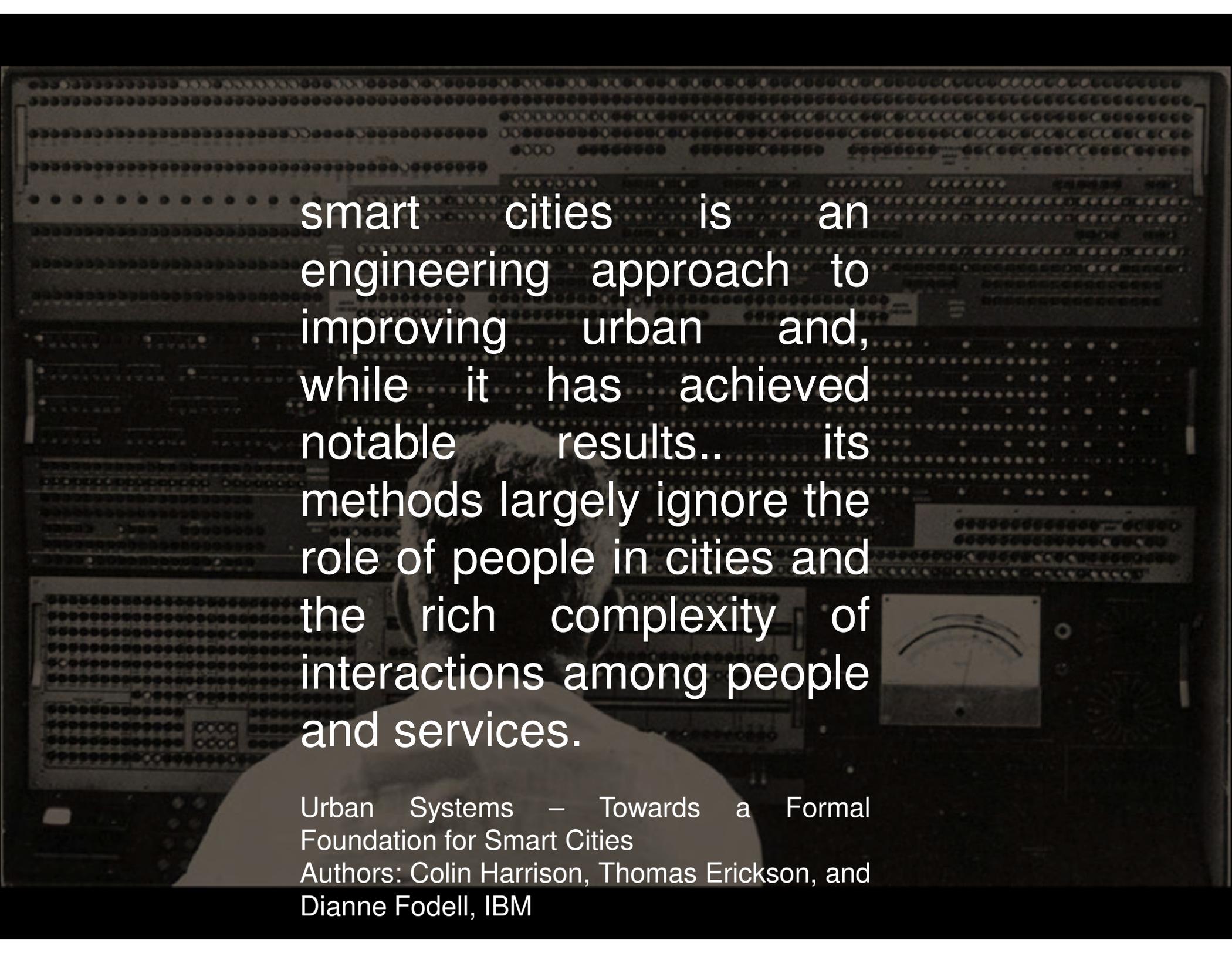


03:47:15 | light rain

people in the loop

masdar – abu dhabi
skolkovo, russia
planIT valley, portugal
lavasa, india
wuxi, china
ka care, saudi arabia
dobuque, iowa
ho-chi-minh city, vietnam
nano-city, india
songdo, korea





smart cities is an engineering approach to improving urban and, while it has achieved notable results.. its methods largely ignore the role of people in cities and the rich complexity of interactions among people and services.

Urban Systems – Towards a Formal Foundation for Smart Cities
Authors: Colin Harrison, Thomas Erickson, and Dianne Fodell, IBM



SAVING

EIGHTH



NO RIGHT TURN

bus

NO RIGHT TURN

NO RIGHT TURN



LEFT LANE
BUS &
TAXI ONLY

[OVERVIEW](#)[SUBMIT YOUR ENTRY](#)[BLOG](#)

A software application competition to make New York City more transparent, accessible and accountable, and an easier place to live, work and play.

\$20,000 in cash prizes

Plus dinner with the **Mayor** and tons of public appreciation.*

* Motivate entrants by showing your support! The winners will get bragging rights for helping all of you.

★ 2,087

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About the NYC BigApps Competition:

The City of New York is improving the way it provides information and transparency to citizens. But delivering great information requires great tools. The NYC BigApps Competition will reward the developers of the most useful, inventive, appealing, effective, and commercially viable applications for delivering information from the City of New York's NYC.gov Data Mine to interested users.

Recent Supporters:

Sandeep P., Bangalore, India

Matthias E., Hamburg, Germany

Sri H., MPLS

John F. M., Monroe College (Bronx, NY)

Helene A., New York, NY

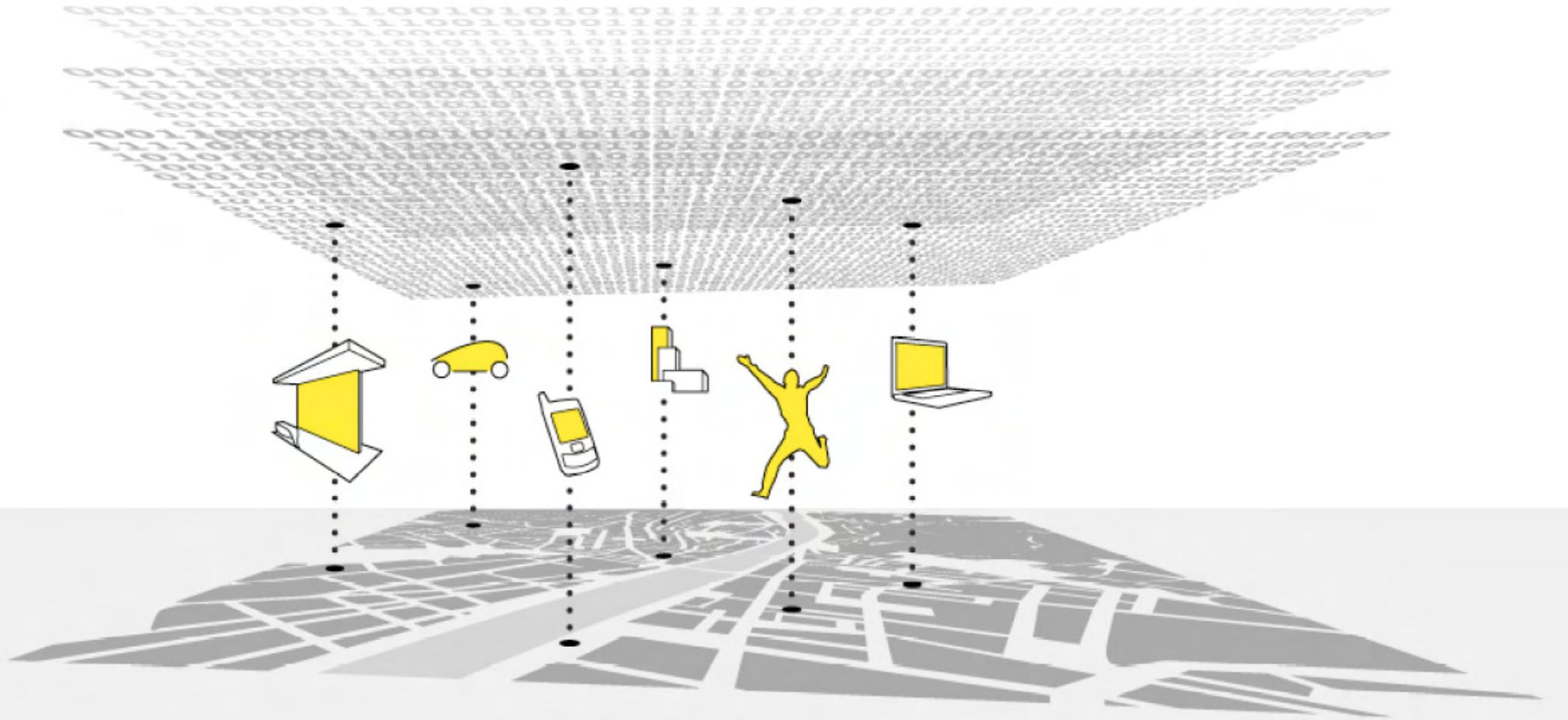
Mickey C., Forest Hills, NY

Rama R., Belmont, MA

live singapore!

[singapore, april, 2011]





thanks!

assaf biderman
[abider@mit.edu]