

A grayscale line drawing of a large, ornate classical building with multiple domes and arches, serving as the background for the slide.

# Länder Sommer 2016

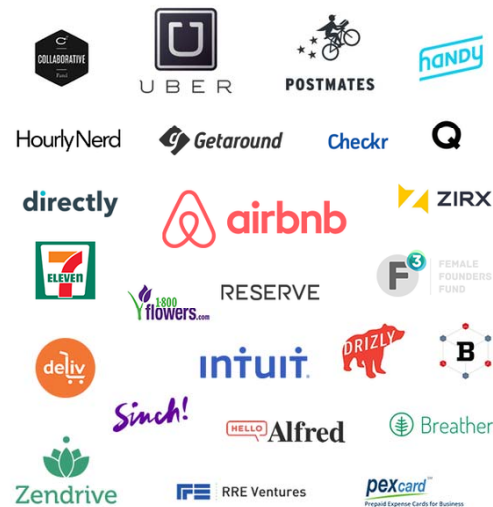
“Sharing Infrastrukturen und Stadtentwicklung“

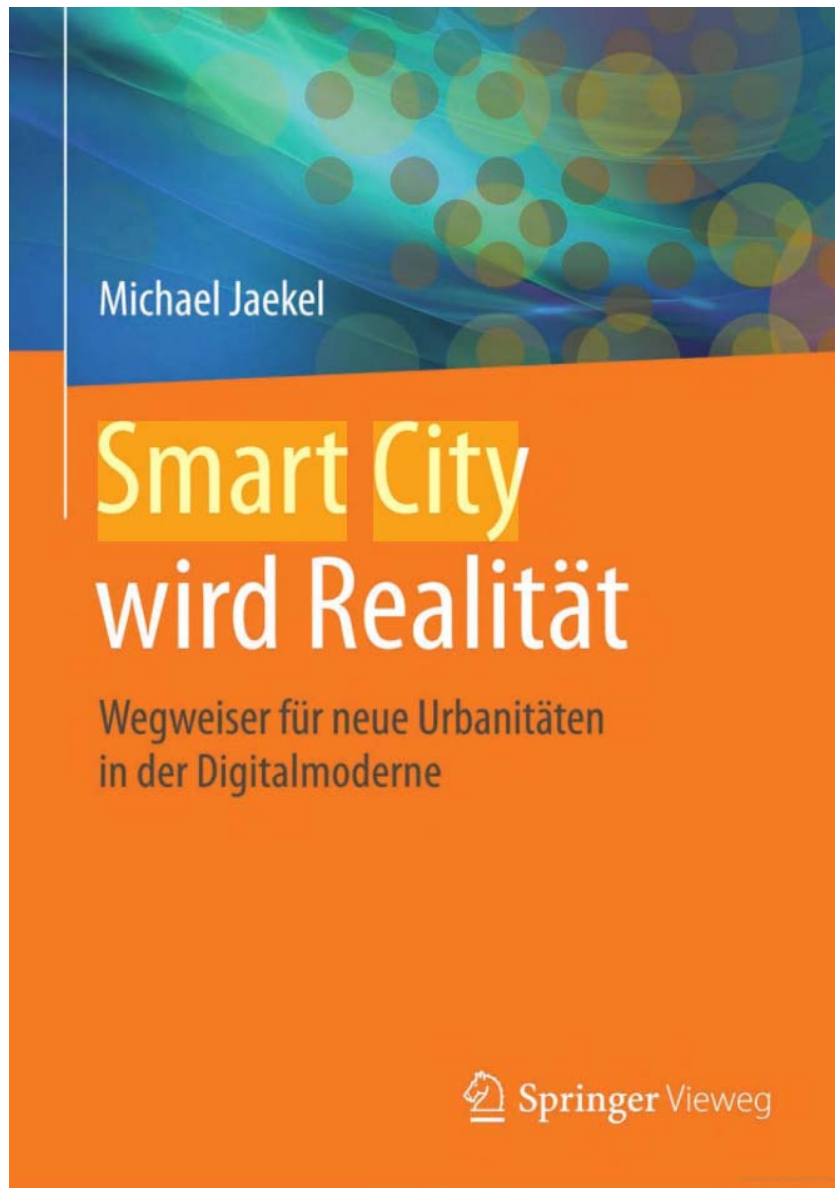
1. Herausforderung für Städte: Sharing Economy
2. Grundprinzip „smarter“ urbaner Transformation
3. Beispiele von „Sharing Infrastrukturen“
4. Mögliche Ziele für die Zukunft



SHARED-USE  
MOBILITY  
SUMMIT

INNOVATION IN MOBILITY  
PUBLIC POLICY SUMMIT





Internet has  
changed our  
lives but it  
hasn't changed  
our cities, yet.



The Self-  
Sufficient City

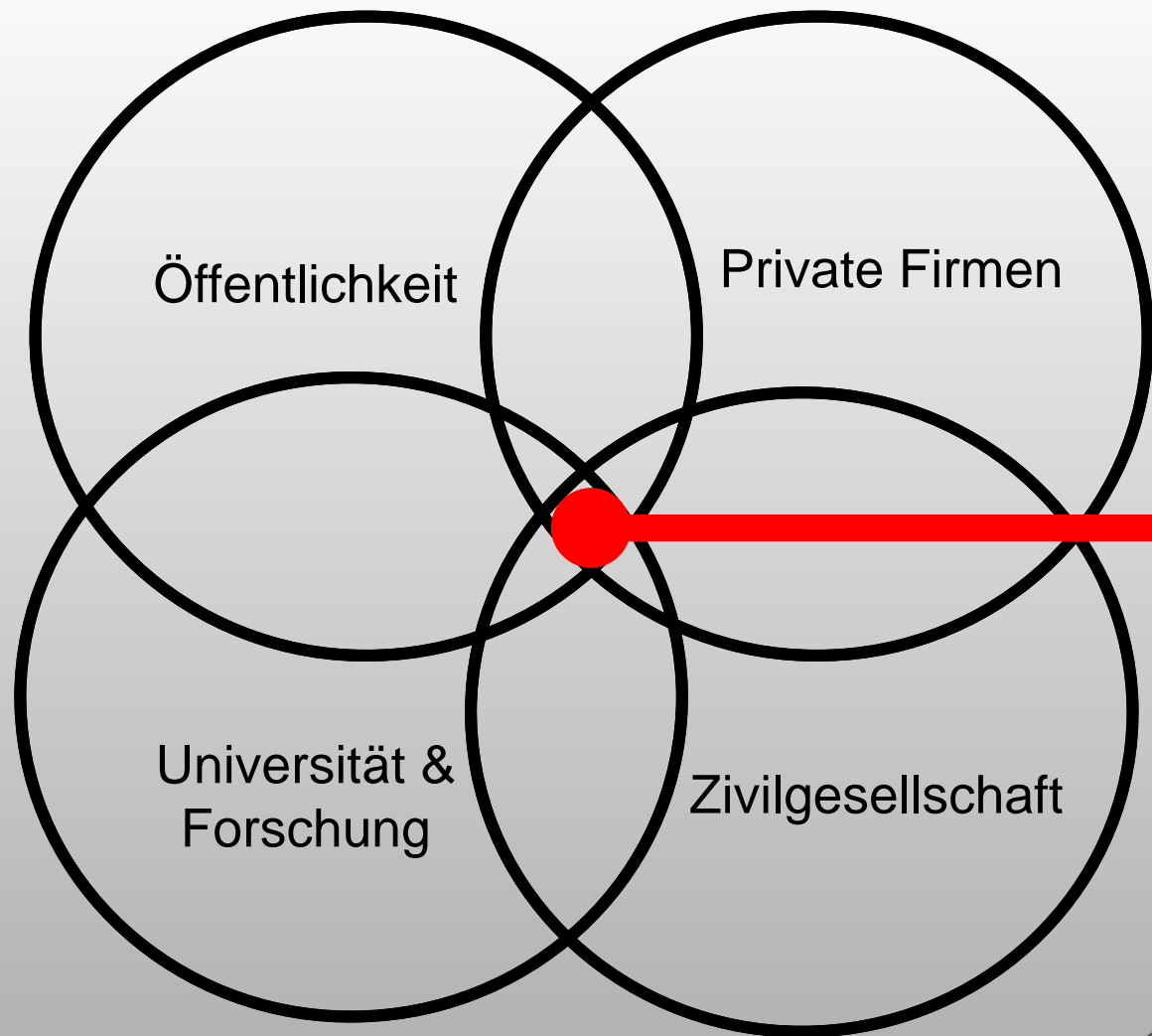
Vicente Gullart

Big actions / Long term / Plans / Government

## Top Down & Bottom Up

Small actions / Short term / Projects / People

Quelle: Vicente Gualart, Institute for advanced architecture of Catalonia



**Ziel ist es,  
soziale  
Innovation und  
Unternehmer-  
tum zu  
ermöglichen**

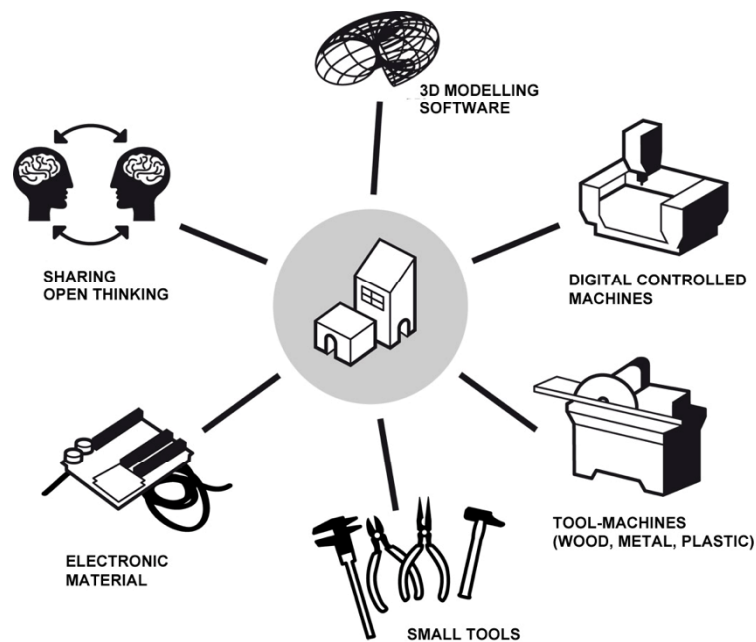
Quelle: Igor Calzada, University of Oxford, Urban Transformations

Gibt es „gscheite“ Beispiele ?









<http://www.honfablab.org/about-2/>

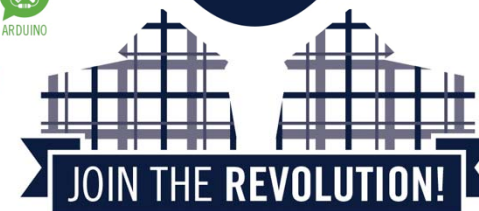
**01** **DIGITAL FABRICATION LABORATORIES** ARE PLACES WHERE RELATIONSHIPS ARE SET UP TO INSPIRE PEOPLE TO TURN THEIR IDEAS INTO NEW PRODUCTS



**02** **HOW?** BY GIVING PEOPLE ACCESS TO A RANGE OF ADVANCED DIGITAL MANUFACTURING TECHNOLOGIES AND KNOWLEDGE



**FABLAB**  
MAKING IDEAS



**03** **IT'S MORE THAN 3D PRINTING.** IT IS AN EVOLVING SUITE OF CAPABILITIES TO TURN DATA INTO THINGS AND THINGS INTO DATA



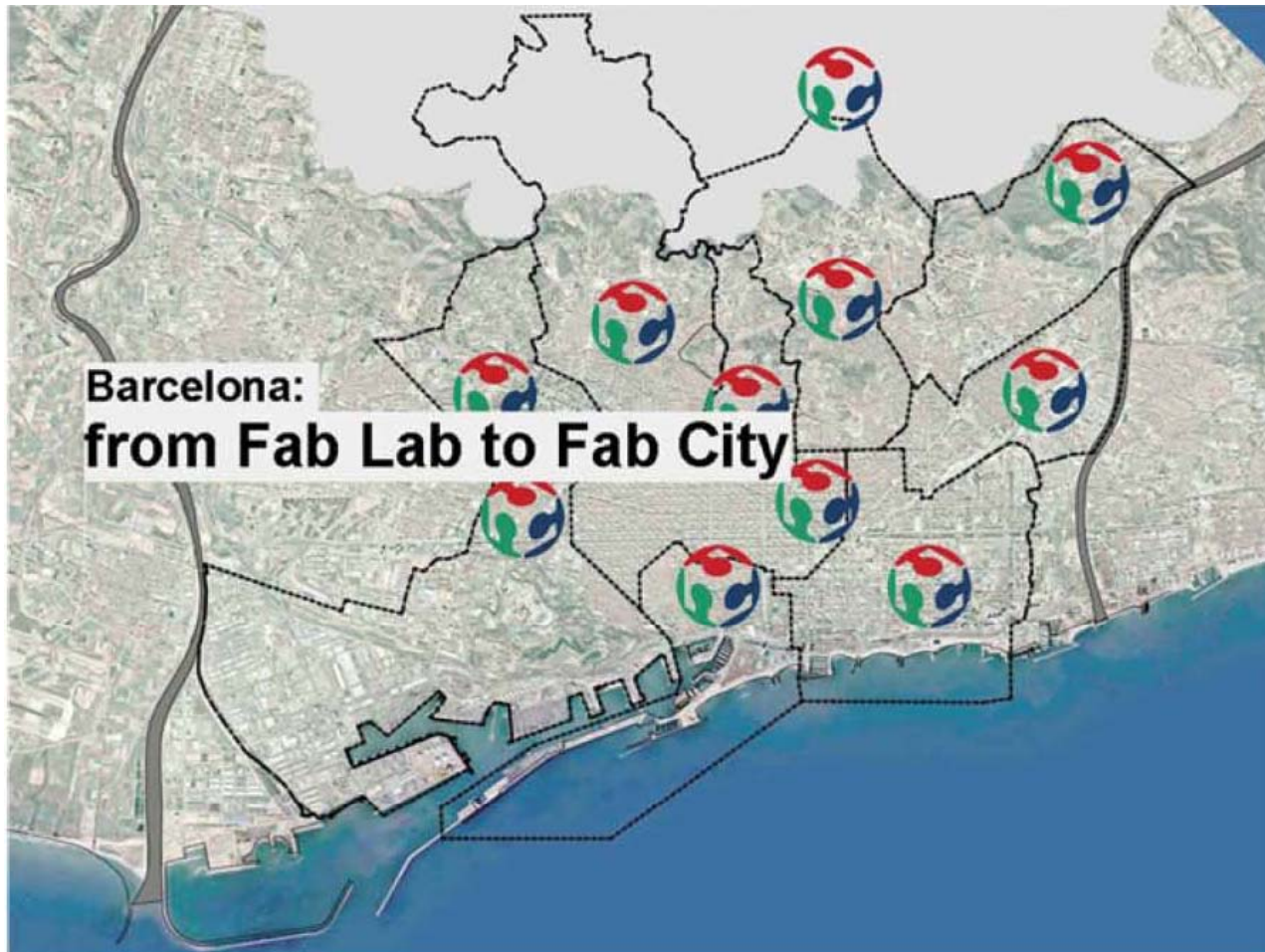
**04** **HOW WILL WE LIVE, LEARN, WORK, AND PLAY WHEN ANYONE CAN MAKE ANYTHING, ANYWHERE?**



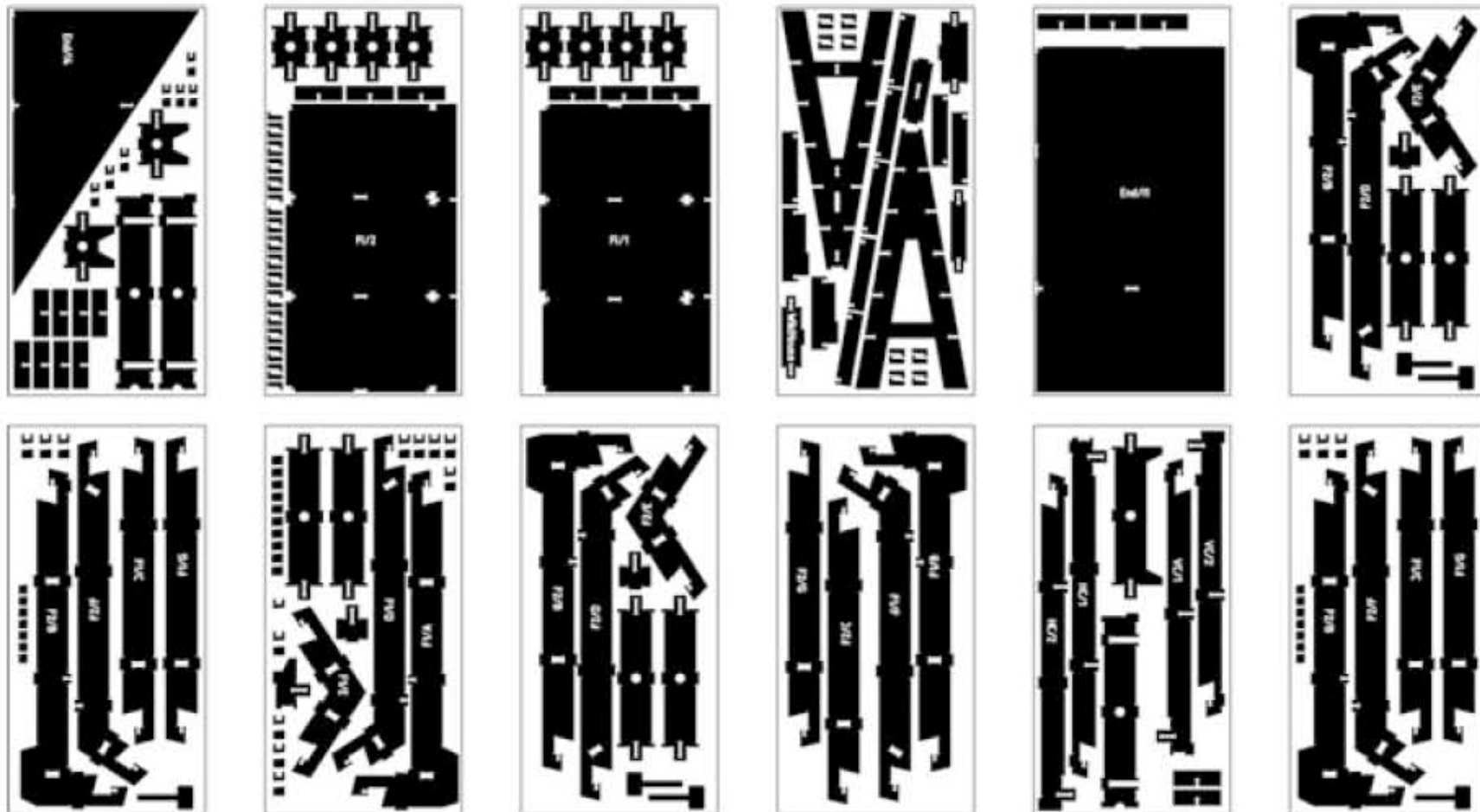
**THE REVOLUTION IS ALREADY WELL UNDER WAY**

Quelle: <https://www.ntnu.edu/fablab/what-is-a-fablab->

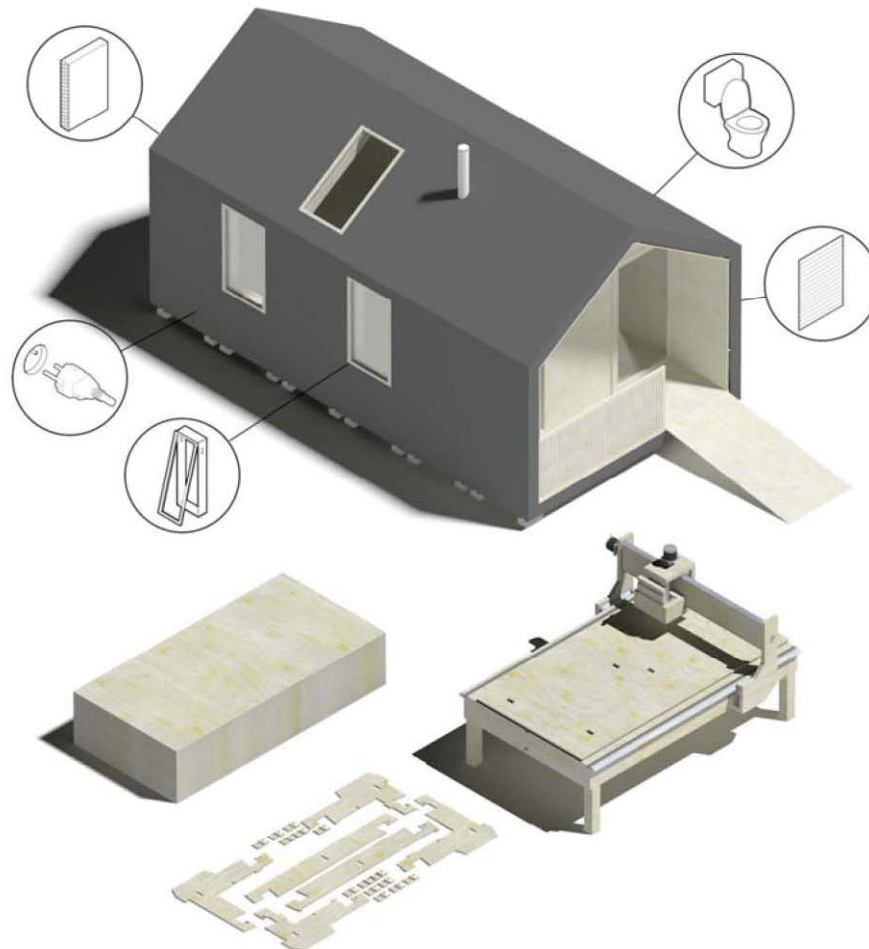
## „Barcelona 5.0“ – Städtisches Netzwerk an FabLabs



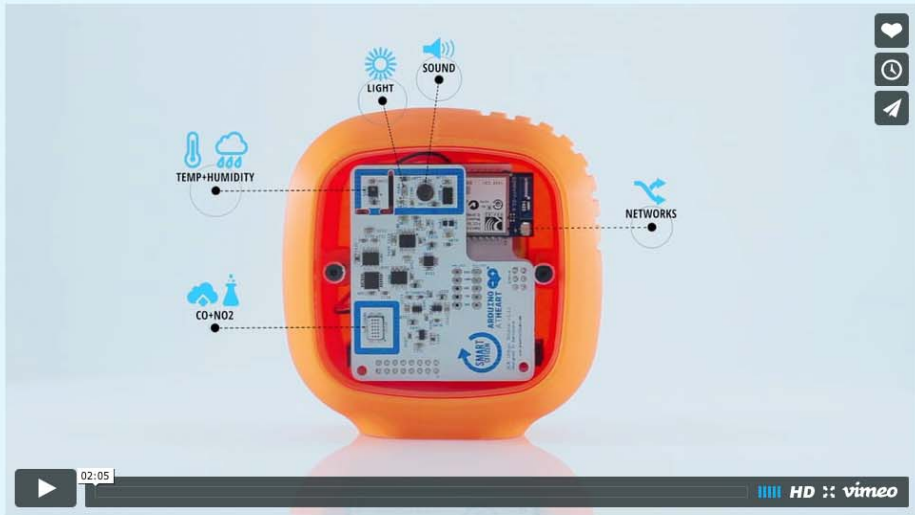
Quelle: Barcelona 5.0








Quelle: © WickiHouse



A video player showing a Smart Citizen kit, an orange, rounded device with a transparent back revealing an Arduino Uno board and various sensors. Labels with dashed lines point to specific components: LIGHT (photoresistor), SOUND (microphone), TEMP+HUMIDITY (DS18B20 and DHT22), CO+NO2 (MQ-135), and NETWORKS (ESP8266). The video player interface includes a play button, a progress bar at 02:05, and a 'HD vimeo' logo.

GET YOUR KIT



32%  
HUM

LAST UPDATE:  
25/08/14 12:28:25 PM

Realtime ambiental monitoring for data analysis  
Connecting people, data and knowledge

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Quelle: <https://smartcitizen.me>



## 10 PRINCIPLES TO MAKE A (REAL) SELF-SUFFICIENT FAB CITY

INFORMATION: Information as a public service, Internet of everything

WATER: 100% Recycling of water, reusing nutrients for nature

ENERGY: 100% renewal energies, Distributed network with local storage

MATTER: Full traceability with 0% waste, 20% reposition chain

FOOD: 100% vegetables local mix production, interaction with the territory

MOBILITY Mobility as a service, no private cars in town

URBANITY: Metropolis of neighborhoods, public space as a common place

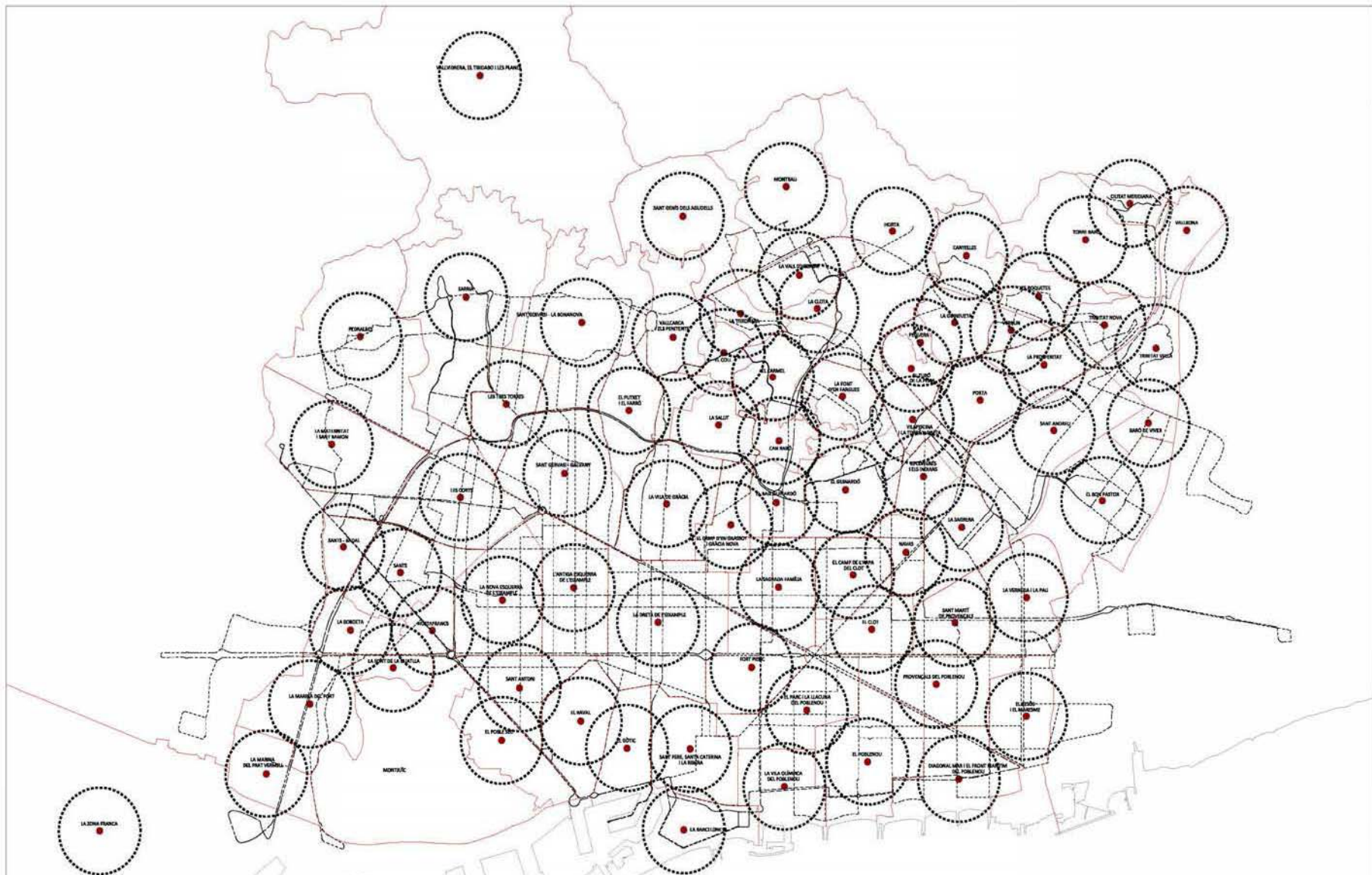
ECONOMY: Distributed economy, empowering innovation

EDUCATION: Global collaborative education, school as a lab

SOCIETY: Civic government, Full open data

## EMPOWERING THE CITIZENS, EMPOWERING THE CITIES

Quelle: Vicente Gaullart, From FabLabs to self-sufficient FabCity Barcelona



Quelle: Vicente Gaullart, From FabLabs to self-sufficient FabCitiy Barcelona



**Herzlichen Dank für Ihre Aufmerksamkeit!**

Arch. Dipl.-Ing. Ernst Rainer  
<https://www.pinterest.com/ernstrainer/smart-urbanism>