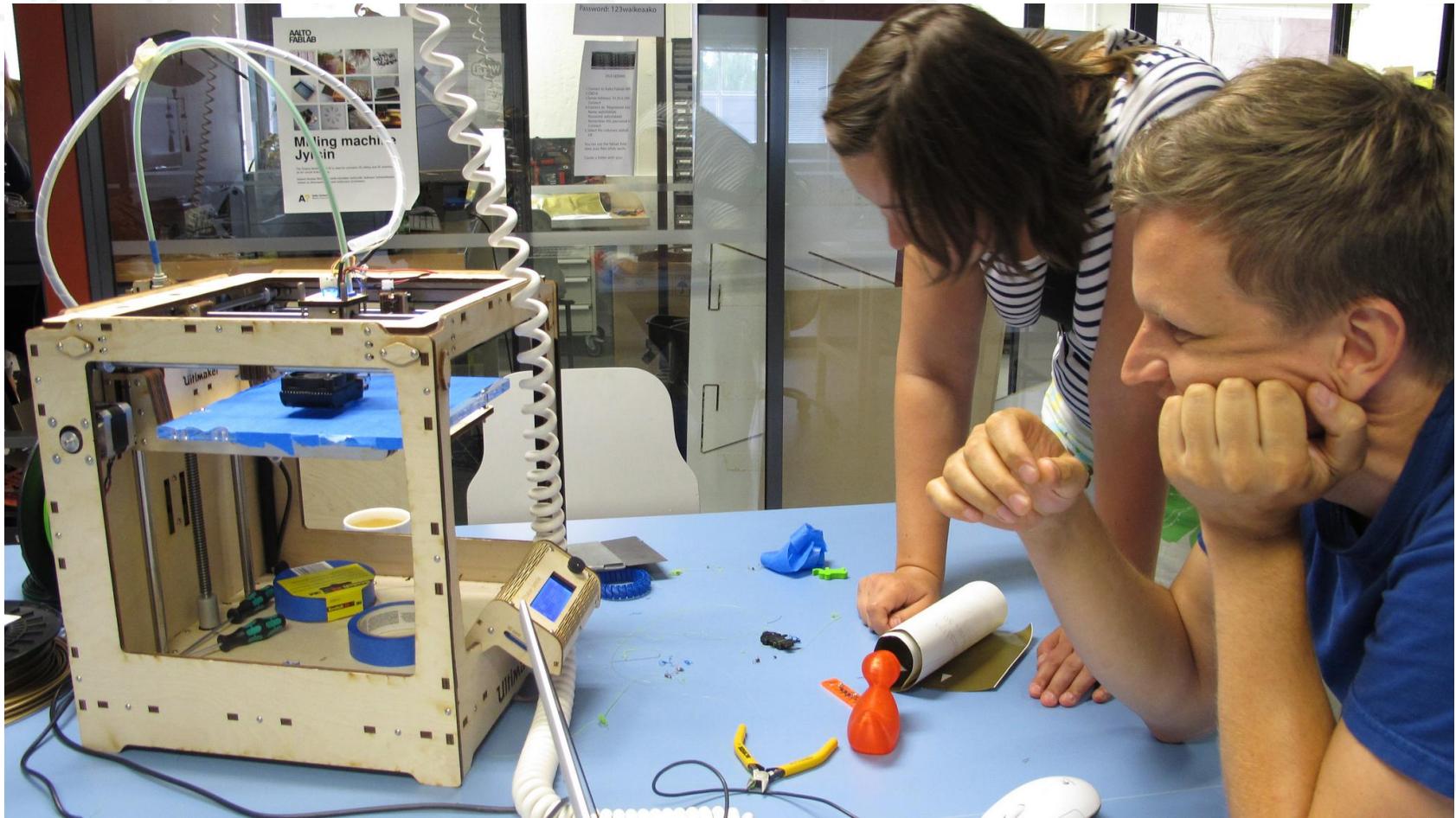


# Fab City Dashboard

## Visualizar'16

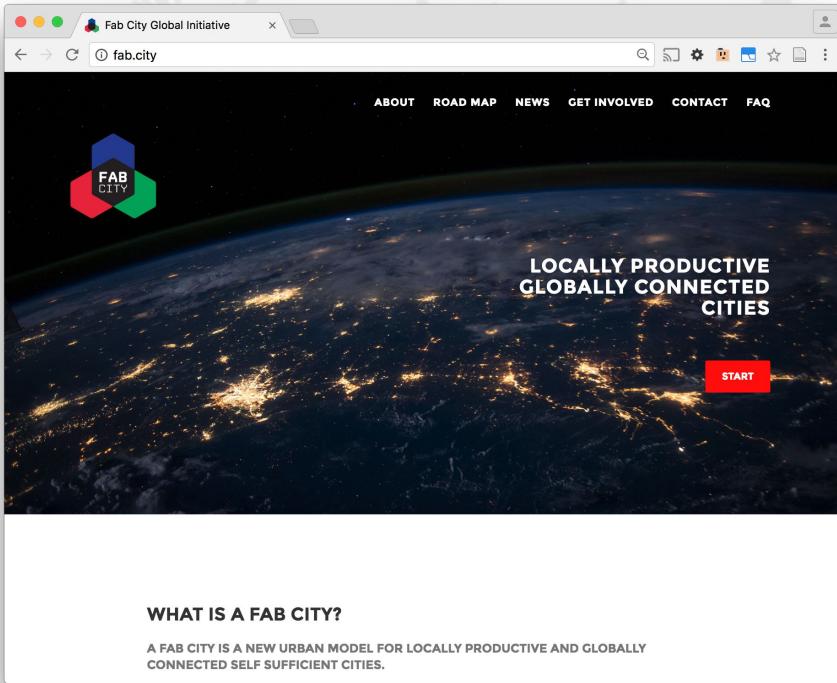


Iaac|FAB LAB  
BARCELONA

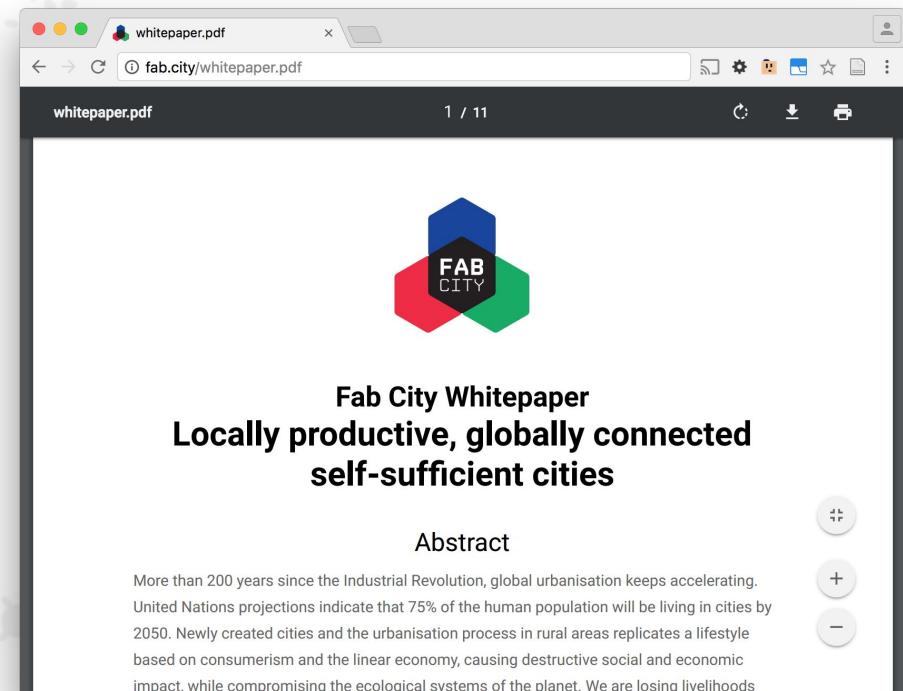


Makers: people, laboratories, technologies, ...

(Source: <https://www.flickr.com/photos/aaltofablab/9458872118/in/album-72157635386143531/>)



The Fab City Global Initiative website features a dark background image of Earth from space at night, showing city lights. In the upper left corner is the Fab City logo, which consists of three overlapping hexagons in red, blue, and green. The text "LOCALLY PRODUCTIVE GLOBALLY CONNECTED CITIES" is centered in white. Below this is a red "START" button. At the top, there is a navigation bar with links: ABOUT, ROAD MAP, NEWS, GET INVOLVED, CONTACT, and FAQ. A small "fab.city" URL is visible in the address bar.



The Fab City Whitepaper PDF page 1 displays the title "Fab City Whitepaper" and subtitle "Locally productive, globally connected self-sufficient cities" in large, bold, black font. The Fab City logo is centered above the text. The page includes a "Abstract" section and a detailed paragraph about global urbanization and its impact. There are zoom controls (+, -, ×) in the bottom right corner.

A global project for the development of locally productive and globally connected self-sufficient cities.

<http://fab.city/>

Fab City Global Initiative

fab.city

ABOUT ROAD MAP NEWS GET INVOLVED CONTACT FAQ

37 275 01 07 18

YEARS DAYS HOURS MINUTES SECONDS

until we're globally connected  
and locally self-sufficient.

714 Fab Labs registered on [fablabs.io](#)

**FAB CITY**

BARCELONA  
BOSTON  
SOMERVILLE  
CAMBRIDGE  
EKURHULENI  
KERALA  
GEORGIA  
SHENZHEN  
AMSTERDAM  
TOULOUSE  
OCCITANE REGION  
PARIS  
BHUTAN  
SACRAMENTO  
SANTIAGO  
DETROIT

Cities join the Fab City initiative every year during the Fab Lab network meetings. We work with local communities of Fab Labs, government and organisations in order to develop local strategies for Fab Cities. [Contact us](#) in order to start this conversation in your city.

A global project for the development of locally productive and globally connected self-sufficient cities.

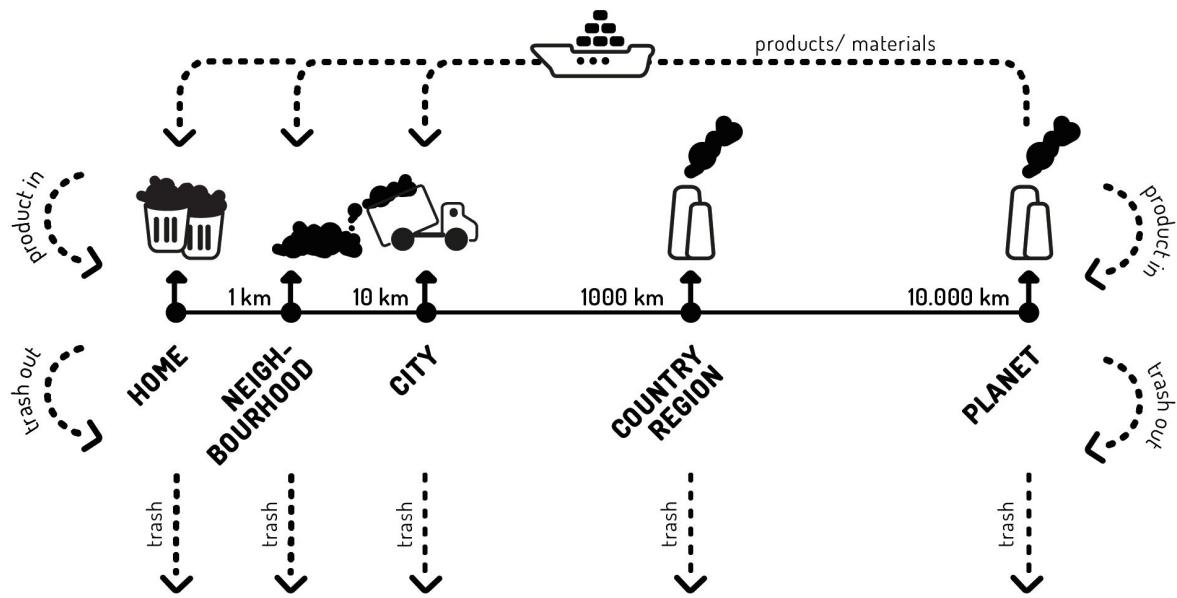
<http://fab.city/>

# From PI TO

[product in trash out]

**The city as a linear trash machine.**

[products and materials travel thousands of miles to become waste, leaving massive ecological and social footprints behind]

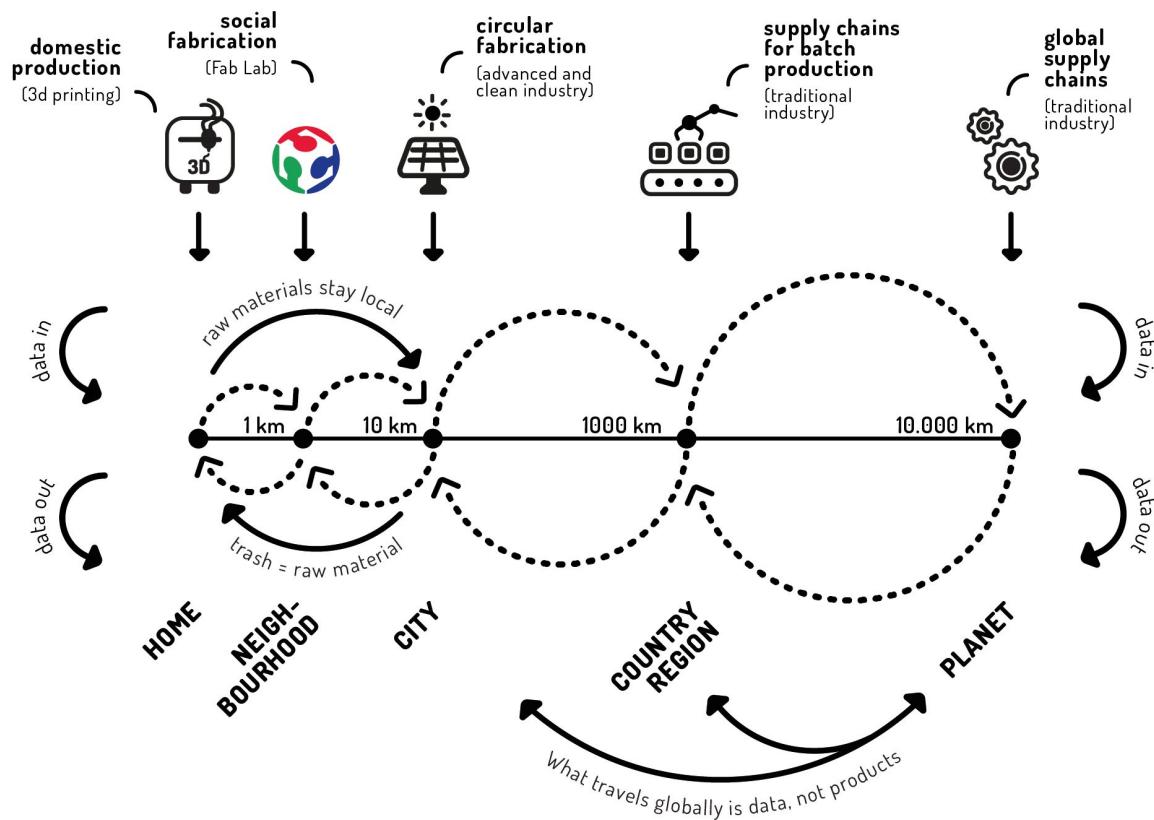


# To DIDO

[data in data out]

**City's imports  
and exports  
are data, not  
products or  
materials.**

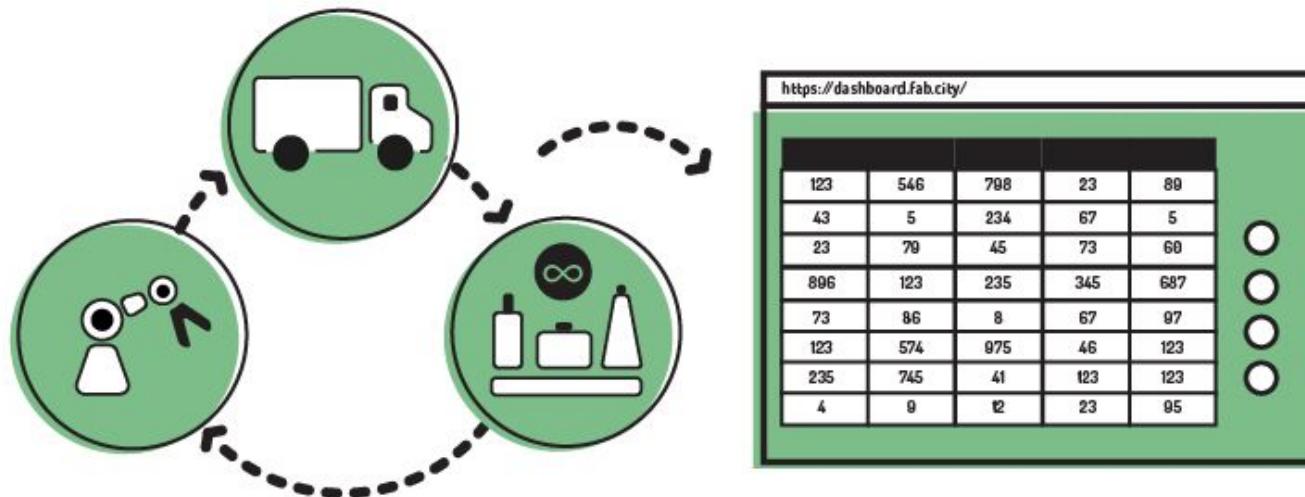
[resilience increases /  
energy consumption and  
carbon emissions are  
drastically reduced / raw  
materials and fabrication  
stay local]



The screenshot shows the homepage of the [MAKE-IT](http://make-it.io/) website. The page features a header with navigation links for About, CAPS for Makers, News, Results and impact, Contact us, and Sitemap. Below the header is a logo consisting of four geometric shapes (green circle, orange hexagon, red square, blue triangle) connected by a black line forming a loop, with the word "MAKE-IT" in bold capital letters underneath. The background is white with a faint, abstract network graph pattern. The main content area includes a subtitle "Understanding Collective Awareness Platforms with the Maker Movement" and two sections with orange horizontal bars: "MAKE-IT: Platforms for Maker communities" and "What is MAKE-IT?". A detailed description follows: "MAKE-IT is a Horizon2020 European research project focused on how the role of **Collective Awareness Platforms (CAPS)** enables the growth and governance of the **Maker movement**, particularly in relation to Information Technology, using and creating *social innovations* and achieving *sustainability*." At the bottom, a cookie consent banner states, "This website uses cookies to ensure you get the best experience on our website. [Read more](#)" and contains a "I agree" button.

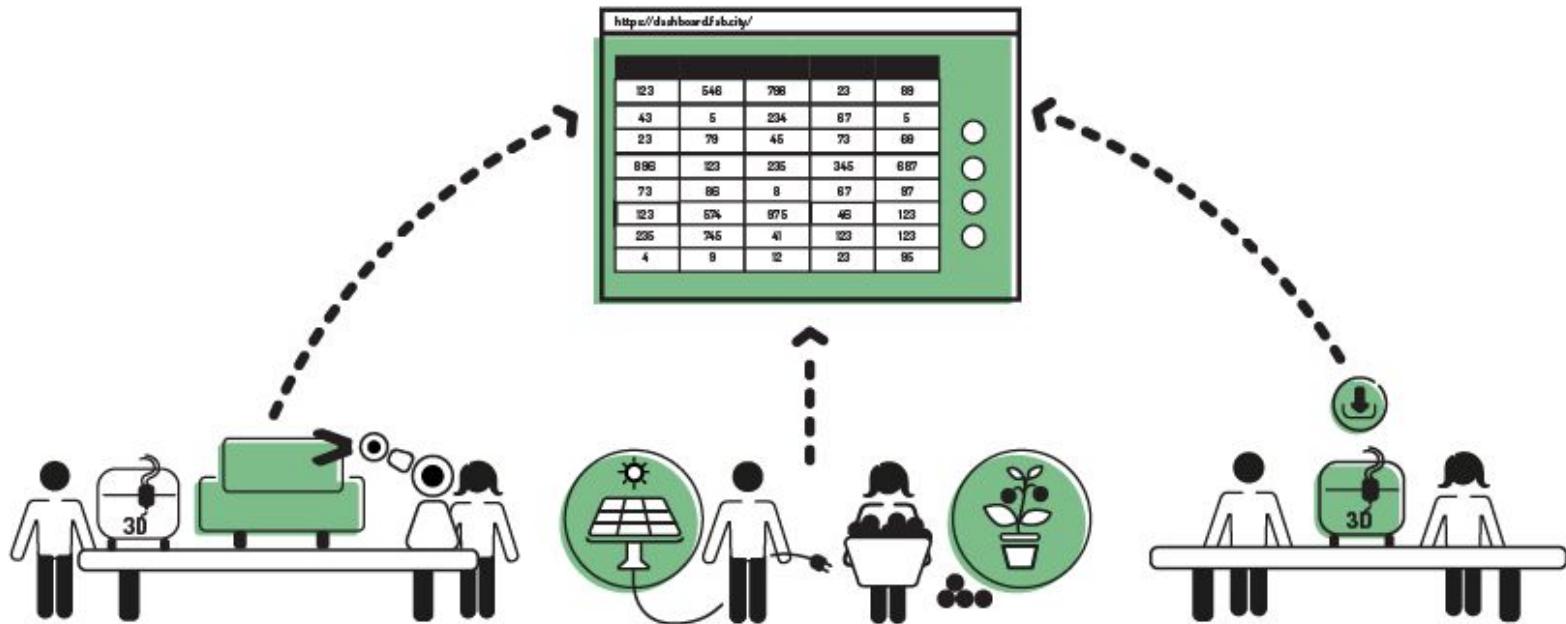
... and about participation and governance in Maker communities ...  
<http://make-it.io/>

# Fab City Dashboard

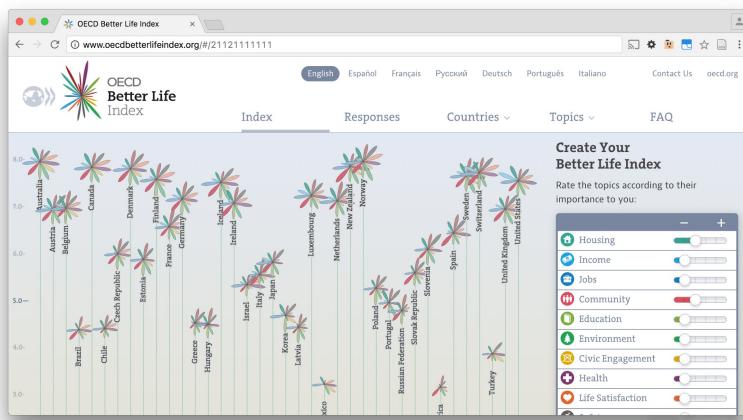
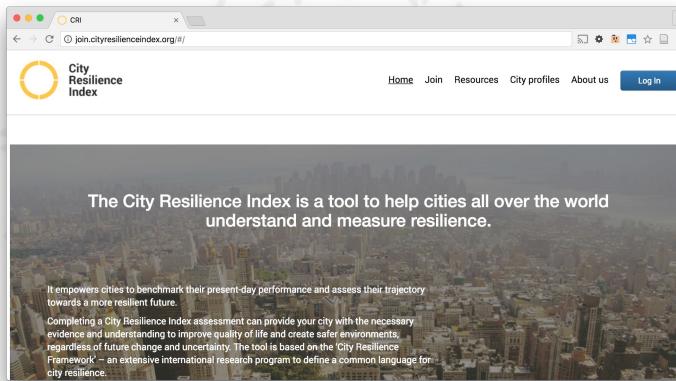


**What is the resilience of a city regarding its manufacturing, distribution and consumption of goods?**

**What is the role of citizens in shaping a Fab City with open, distributed and collaborative projects and making activities in the city?**



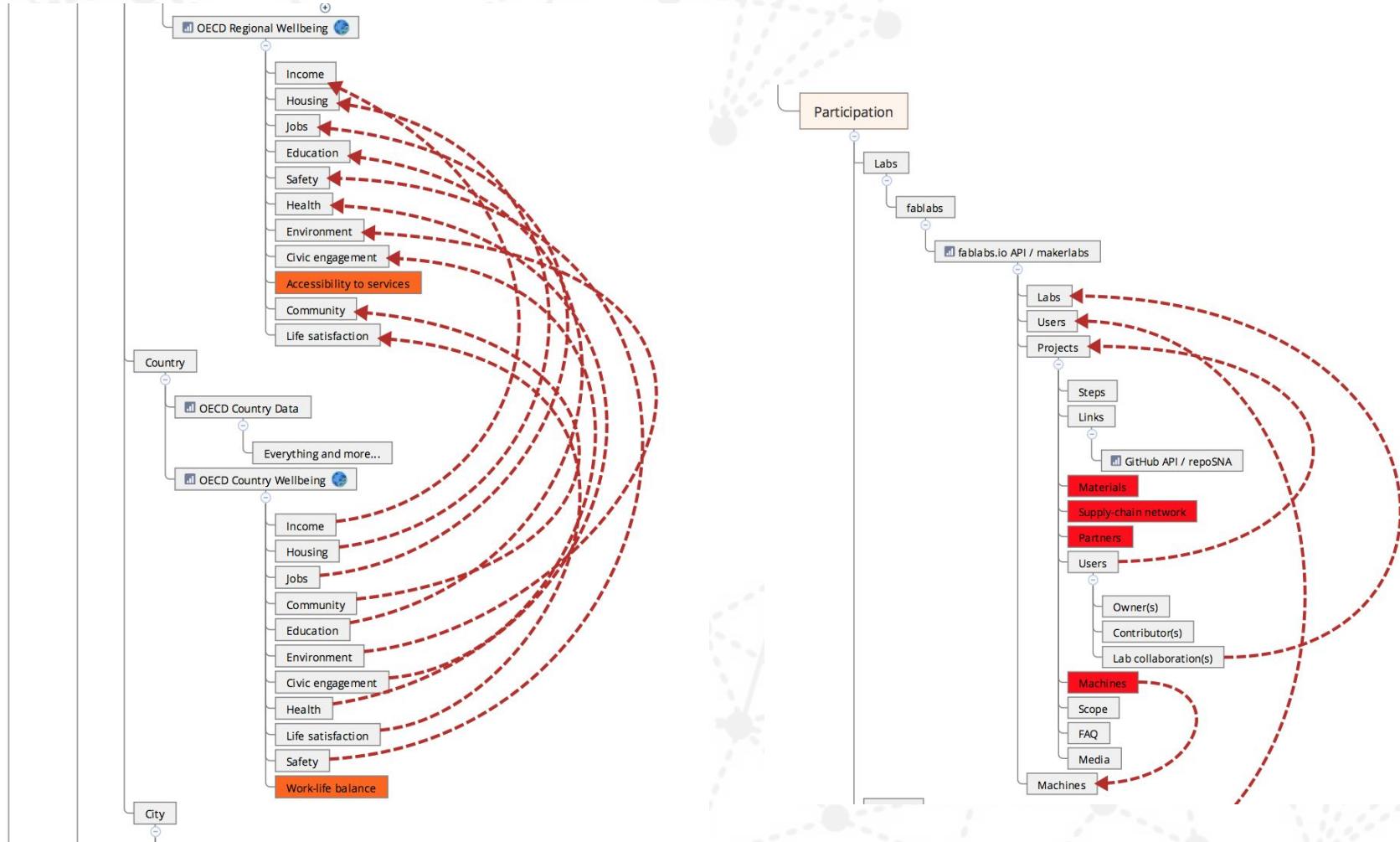
A dashboard where citizens can understand **the existing resilience of cities** and how **the Maker movement** and its projects is having an impact on this.



## Arup - Rockefeller Foundation / OECD

<http://join.cityresilienceindex.org/> - <http://www.oecdbetterlifeindex.org/> -

<https://www.oecdregionalwellbeing.org/>



Fab City Dashboard v.0.1

127.0.0.1:5000/user/demo/ESP

FAB CITY DASHBOARD V0.1

INDEX CITIES PROJECTS ABOUT

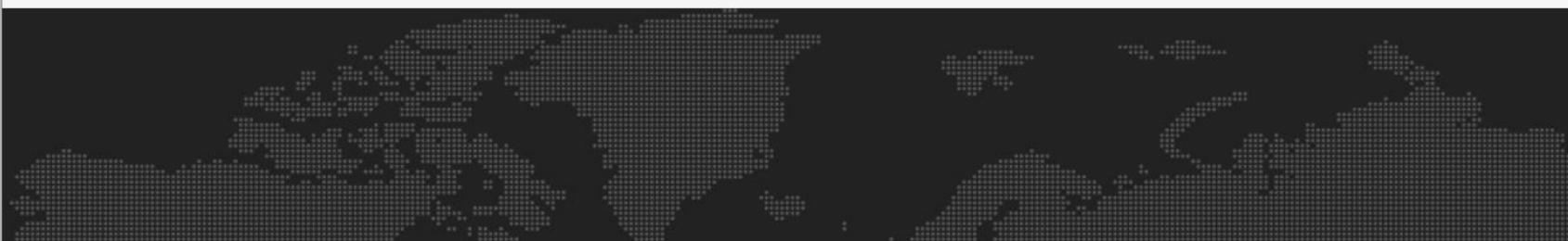


# Fab City Dashboard

A tool for monitoring city resilience.

A dashboard for all the Fab Cities where citizens, civic leaders, digital fabrication laboratories and makers can understand the existing resilience of their cities and how they having an impact on it.

[start](#) [about the fab city initiative](#)



Fab City Dashboard v.0.1

127.0.0.1:5000/user/demo/ESP#resilience

FAB CITY DASHBOARD V.0.1

INDEX CITIES PROJECTS ABOUT

# City Resilience Index

How close is a city to being resilient, self-sufficient and guaranteeing opportunity and wellbeing to its citizens so that they can be the masters of their own destiny?

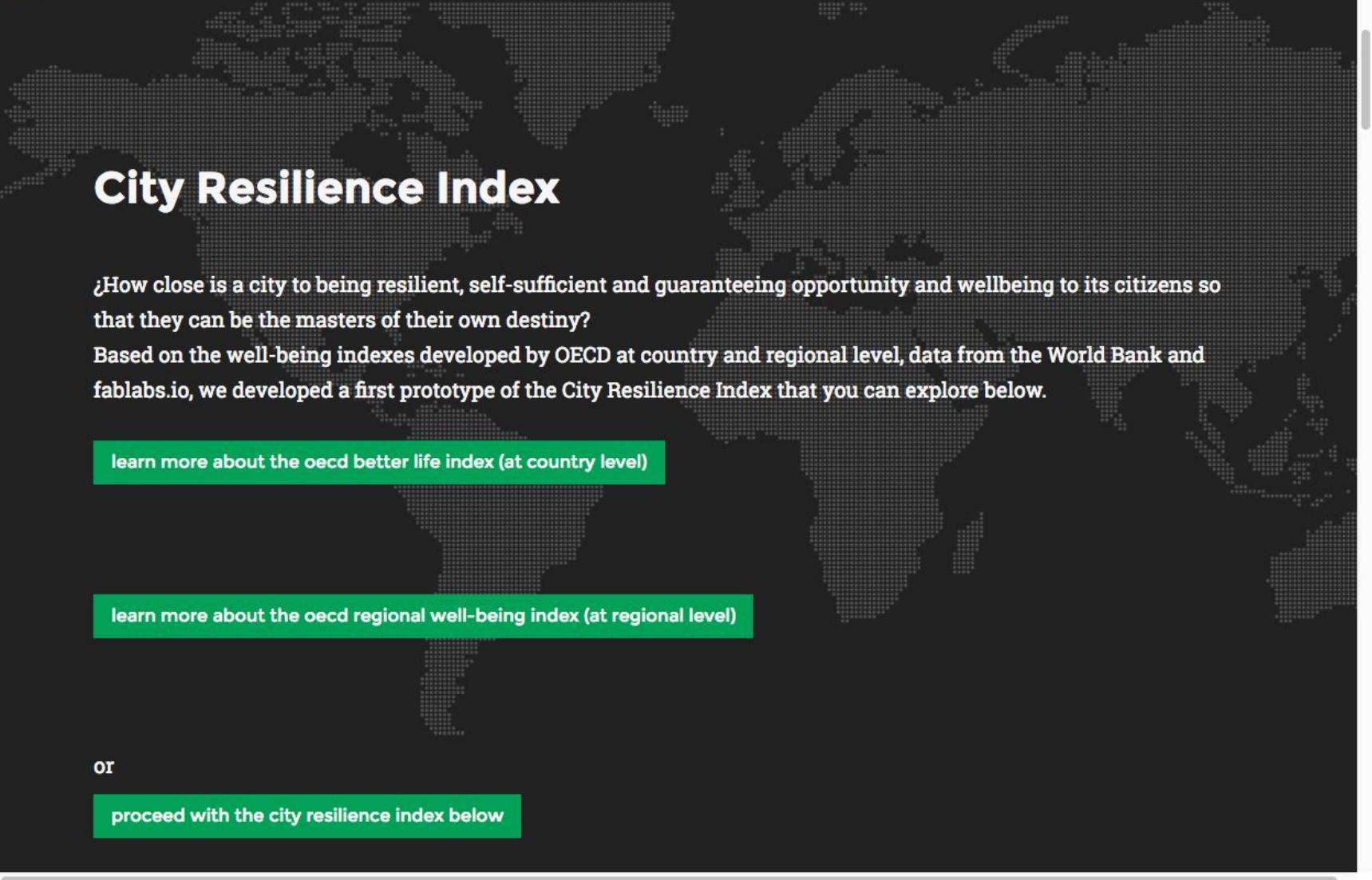
Based on the well-being indexes developed by OECD at country and regional level, data from the World Bank and fablabs.io, we developed a first prototype of the City Resilience Index that you can explore below.

[learn more about the oecd better life index \(at country level\)](#)

[learn more about the oecd regional well-being index \(at regional level\)](#)

or

[proceed with the city resilience index below](#)



Fab City Dashboard v.0.1

127.0.0.1:5000/user/demo/ESP

FAB CITY DASHBOARD V0.1

INDEX CITIES PROJECTS ABOUT

# BARCELONA

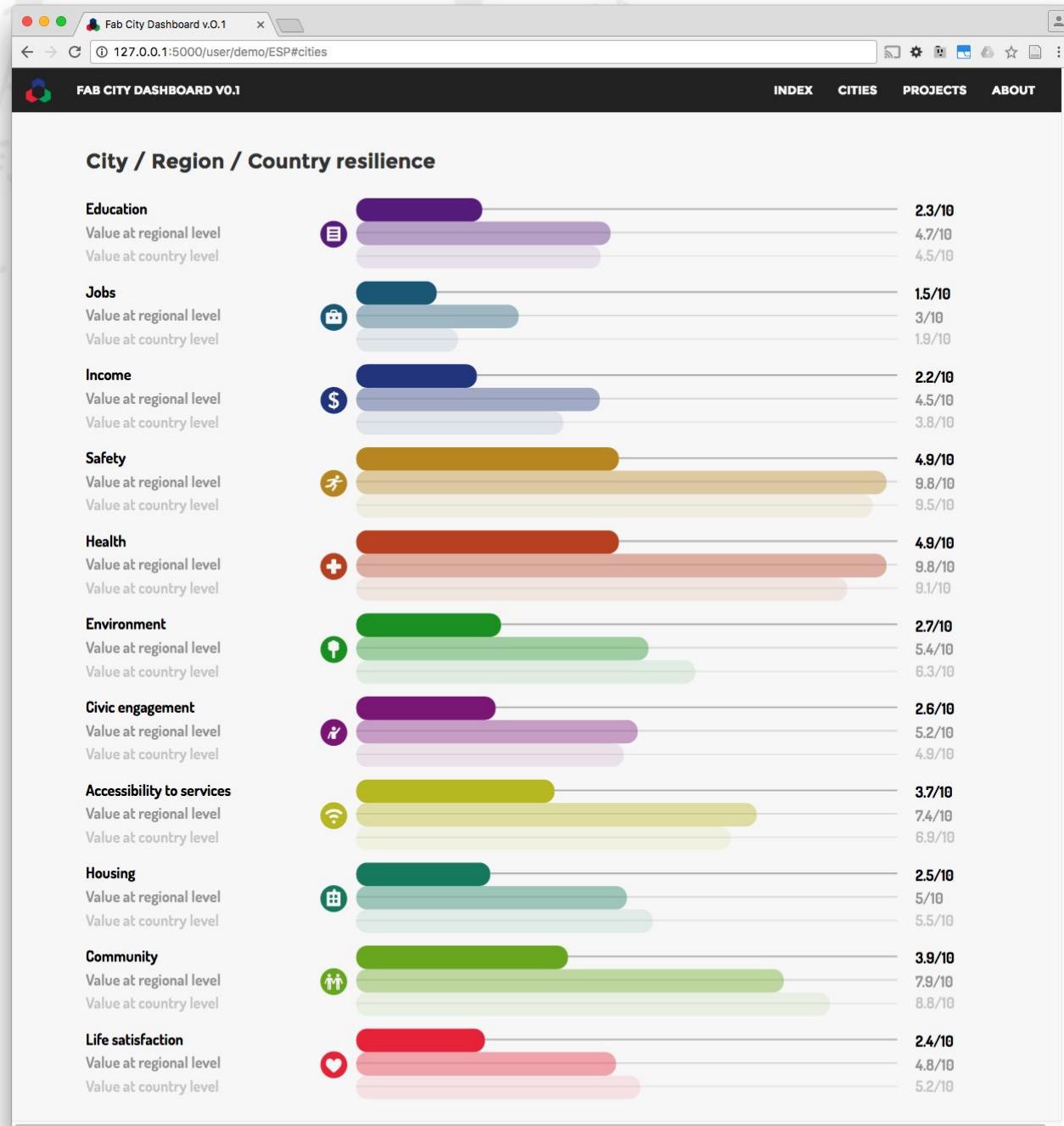
## CATALUNYA / SPAIN

The Barcelona metropolitan area comprises over 66% of the people in one of the richest regions in Europe – Catalonia, with a GDP per capita amounting to €28,400 (16% more than the EU average). Barcelona has a long-standing mercantile tradition. Less well known is that the region was one of the earliest to begin industrialization in continental Europe, beginning with textile-related works from the mid-1780s but really gathering momentum in the mid-19th century, when it became a major centre for the production of textiles and machinery. Since then, manufacturing has played a large role in its history. (Source: [Wikipedia](#).)

### Resilience index

#### City / Region / Country general data

City GDP	135,803.2 \$ (millions)
Region GDP	288,013 \$ (millions)
Country GDP	1,602,661.4 \$ (millions)
City population	3,846,697 persons
Region population	7,416,240 persons
Country population	46,736,260 persons
City surface	1,362 Km <sup>2</sup>
Region surface	31,987.6 Km <sup>2</sup>
Country surface	505,940 Km <sup>2</sup>



Fab City Dashboard v.0.1

127.0.0.1:5000/user/demo/ESP#cities

FAB CITY DASHBOARD V0.1

INDEX CITIES PROJECTS ABOUT

## FAB LABS AND MAKERSPACES

choose a region ▾ choose a country ▾ choose a city \* ▾

Legend  
src:FablabsIO  
Hover over a state

- Grayscale
- Streets
- Fablabs
- Countries

0-1
1-2
2-5
5-10
10-20
20-50
50-100
100+

Leaflet | Map data © OpenStreetMap contributors, CC-BY-SA, Imagery Mapbox

## LABS

### FabLab Barcelona

500 Users Missing Info

Description

"Fab Lab Barcelona is a centre of production, investigation and education, that uses the latest computer-assisted design software for the creation of prototypes and scale models for Architecture, Construction and Industrial Design."

Fab City Dashboard v.0.1

127.0.0.1:5000/user/demo/ESP#cities

FAB CITY DASHBOARD V0.1

INDEX CITIES PROJECTS ABOUT

# PROJECTS

## Precious Plastic

2 contributors

• [inesccprates](#) • [cyrilledubois](#)

Description

"We are building 4 small-scale plastic recycling machines based on the models done by the Precious Plastic team, using the open-source materials uploaded on their site."

Lab

• [Fab Lab Barcelona](#)

Machines

• [Missing Info](#)

Materials

• [Missing Info](#)

Partners

• [Missing Info](#)

Supply-Chain Network

• [Missing Info](#)

Images



Fab City Dashboard v.0.1

127.0.0.1:5000/user/demo/ESP#cities

FAB CITY DASHBOARD V0.1

INDEX CITIES PROJECTS ABOUT

## Impact of the project on resilience

What could happen if the project would scale in the city? Try the simulator.

**Project Impact Missing Info**

This project affects the resilience of the city with different impact on each voice, we simulated the value of each impact.

Category	Value at regional level	Value at country level
Education	0.2/10	0.2/10
Jobs	0.2/10	0.2/10
Income	0.2/10	0.2/10
Safety	0.2/10	0.2/10
Health	0.2/10	0.2/10
Environment	0.2/10	0.2/10
Civic engagement	0.2/10	0.2/10
Accessibility to services	0.2/10	0.2/10
Housing	0.2/10	0.2/10
Community	0.2/10	0.2/10
Life satisfaction	0.2/10	0.2/10

What would happen with more active installation of the projects in the city?

What would happen if the project had more budget?

What would happen if the project had more participants?

**CONTACT US**

Fab-City Global

A Fab City project developed at Visualizar'16 at Medialab Prado. Source on [GitHub](#).

Fab City Dashboard v.0.1

127.0.0.1:5000/user/demo/ESP#cities

FAB CITY DASHBOARD V0.1

INDEX CITIES PROJECTS ABOUT

## Impact of the project on resilience

What could happen if the project would scale in the city? Try the simulator.

**Project Impact Missing Info**

This project affects the resilience of the city with different impact on each voice, we simulated the value of each impact.

Category	Value at regional level	Value at country level
Education	4.7/10	4.7/10
Jobs	4.2/10	4.7/10
Income	4.7/10	3.8/10
Safety	4.7/10	9.5/10
Health	4.7/10	9.1/10
Environment	4.7/10	8.2/10
Civic engagement	4.7/10	4.9/10
Accessibility to services	4.7/10	8.8/10
Housing	4.7/10	5.5/10
Community	4.7/10	8.8/10
Life satisfaction	4.7/10	5.2/10

What would happen with more active installation of the projects in the city?

What would happen if the project had more budget?

What would happen if the project had more participants?

The dashboard displays a grid of resilience impacts for various categories like Education, Jobs, Income, Safety, Health, Environment, etc., comparing regional and country levels. It also features three horizontal sliders for scaling projects: active installation, budget, and participants, each ranging from 0 to 100. The bottom section features a world map background with a 'CONTACT US' header, social media links (GitHub, Email, Twitter, Facebook), and a note about the project's development at Visualizar'16.

A Fab City project developed at Visualizar'16 at Medialab Prado. Source on [GitHub](#).

Fab City Dashboard v.0.1

127.0.0.1:5000/user/demo/ESP#cities

FAB CITY DASHBOARD V0.1

INDEX CITIES PROJECTS ABOUT

## Impact of the project on resilience

What could happen if the project would scale in the city? Try the simulator.

**Project Impact Missing Info**

This project affects the resilience of the city with different impact on each voice, we simulated the value of each impact.

Category	Value at regional level	Value at country level
Education	2.4/10	4.5/10
Jobs	2.4/10	2.4/10
Income	2.4/10	3.5/10
Safety	2.4/10	9.5/10
Health	2.4/10	9.1/10
Environment	2.4/10	8.5/10
Civic engagement	2.4/10	4.9/10
Accessibility to services	2.4/10	6.8/10
Housing	2.4/10	5.5/10
Community	2.4/10	8.8/10
Life satisfaction	2.4/10	5.2/10

What would happen with more active installation of the projects in the city?

What would happen if the project had more budget?

What would happen if the project had more participants?

The dashboard displays a grid of resilience impacts for various categories. Each category has two bars: one for the regional level and one for the country level. The bars are color-coded and have numerical values above them. Below the grid are three horizontal sliders with blue markers indicating current values: 50 for active installation, 50K € for budget, and 30 for participants. The background features a world map. At the bottom, there's a 'CONTACT US' section with social media icons for GitHub, email, Twitter, and Facebook.

CONTACT US

Fab-City Global

A Fab City project developed at Visualizar'16 at Medialab Prado. Source on [GitHub](#).



# Thank you!

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<http://fab.city/>  
@fabcitybcn - @fabcityglobal

[massimo@fablabbcn.org](mailto:massimo@fablabbcn.org) - @openp2pdesign