



# Smart City Program City of Brussels





Changement  
climatique



Lifestyle



Urbanisation



Globalisation



Innovation



**80%**

of global GDP is generated in cities

**30**

billion  
of connected  
devices in 2020

**75%**

of greenhouse gas emissions  
are generated in cities

**44**

zettabytes  
of valuable data will  
be available by 2050

# CITY?

“The 19th century was a century of empires,  
the 20st century was a century of states,  
the 21<sup>st</sup> century is a century of cities.”

Wellington E Web, former Mayor of Denver,  
Colorado, 2000

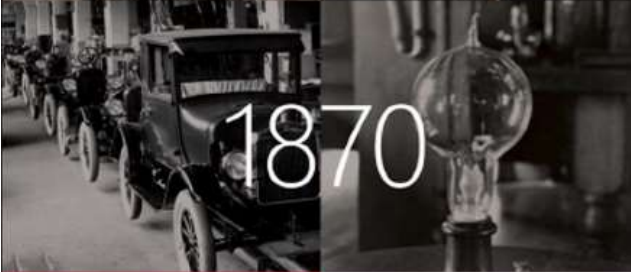
**DIGITAL  
DATA  
DISRUPTION**



## First Industrial Revolution

Steam, water

Mecanical production



## Second Industrial Revolution

Labor division, electricity

Mass production



## Third Industrial Revolution

Electronics, IT


Automated production



## Fourth Industrial Revolution

Data analytics, mobile devices, artificial intelligence, machine learning, robotics, genomics





**WITH  
A  
NET**

**THE  
DIGITAL DIVIDE  
IN AMERICA**



**Changing  
labor market**



**Rate of  
obsolescence**

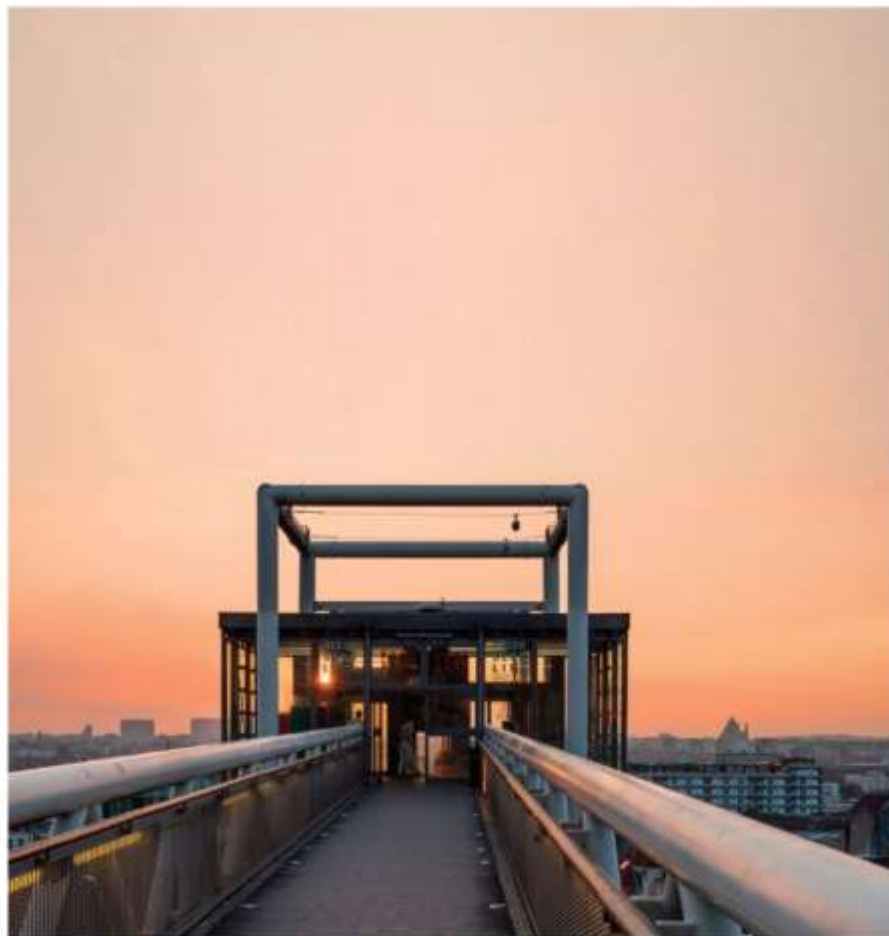


**Privacy**



**Dataism**

# Smart City vision and projects at the City of Brussels





# Political program 2018-2024

- Holistic smart city approach
- Themes: governance, service delivery, education, cleanliness, security, sustainability, economy, mobility, youth
- BXL2021 program



# Vision and objectives of the BXL2021 program



*Develop a modern user-oriented city that offers contemporary services through different channels, using new ways of working to improve the working conditions of employees*



## AN ORGANISATION...

...focused on the user (citizens, companies and civil servants)...

...that ensures that citizens, businesses and civil servants interact with the City without dependence on analogous information, nor time or place...

...with adapted services and offered in an innovative way...

...and aligned with the principles of a city taking the lead and inspired by the principles of a smart city



## Vision

**« a connected city for a high quality of life and a sustainable urban development »**





# Structural elements



Collectivity



Data



Infrastructure



# OPEN DATA PLATFORM



## Parking spaces for disabled

[Informations](#) [Tableau](#) [Carte](#) [Analyse](#) [Export](#) [API](#)



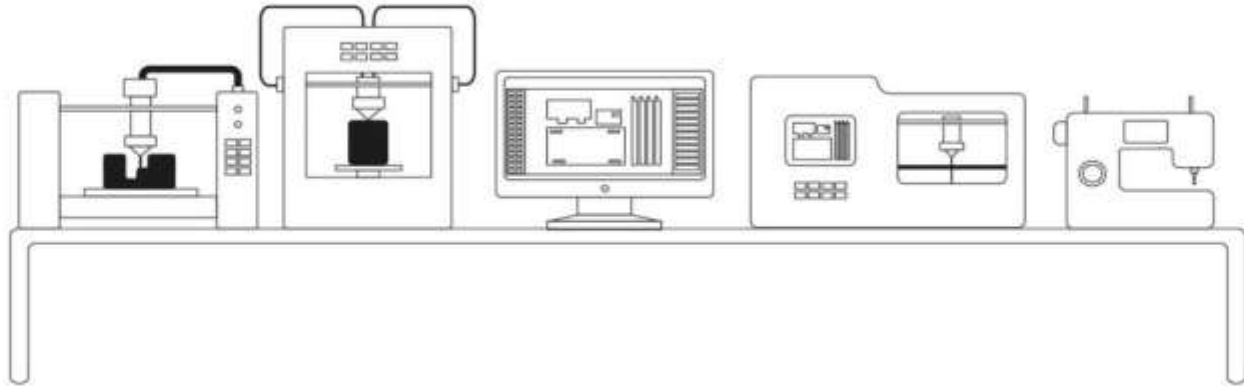
## A PHILOSOPHY AND A PRACTICE

**It is part of a trend that considers public information as a common good ... whose dissemination is of public and general interest**

# FABLAB CityFab1



The mission of Cityfab 1 is to give **access** to tools and knowledge to **educate, invent and innovate using new technologies**. So that any person, whatever his or her level of knowledge can (almost) **make everything**



**ACCES &  
EDUCATION**



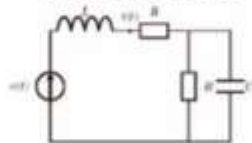
**HAND TOOLS**



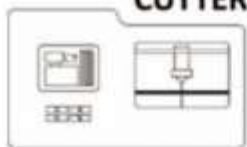
**COMPUTER &  
SOFTWARE**



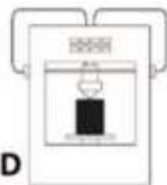
**ELECTRONICS**



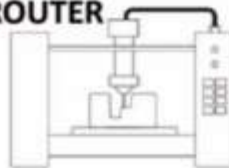
**LASER  
CUTTER**



**3D  
PRINTER**



**CNC  
ROUTER**



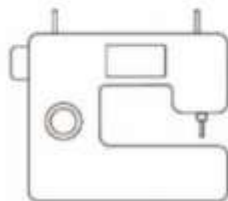
**VARIOUS  
MATERIALS**



**VYNIL  
CUTTER**



**SEWING &  
EMBROIDERY  
MACHINES**





**A fablab is also:  
an open **community**  
which stimulates  
emulation between its  
members**



# water leakage sensors

**Manneken Pis: 1000-2500 liters a day**

Asia Australia Middle East Africa Inequality Cities Global development

## Manneken Pis no longer peeing water down the drain

Famed Belgian statue wasted 1,000 to 2,500 litres of fresh clean drinking water each day





Thank you