

# CULTURAL LOOM

A DATA-DRIVEN ANALYSIS  
OF ANALYSIS OF CULTURAL  
ACCESSIBILITY AND  
TERRITORIAL INEQUALITIES  
IN FRANCE

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Ironhack Bootcamp  
Data Analytics  
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# PROJECT OVERVIEW

## Dataset:

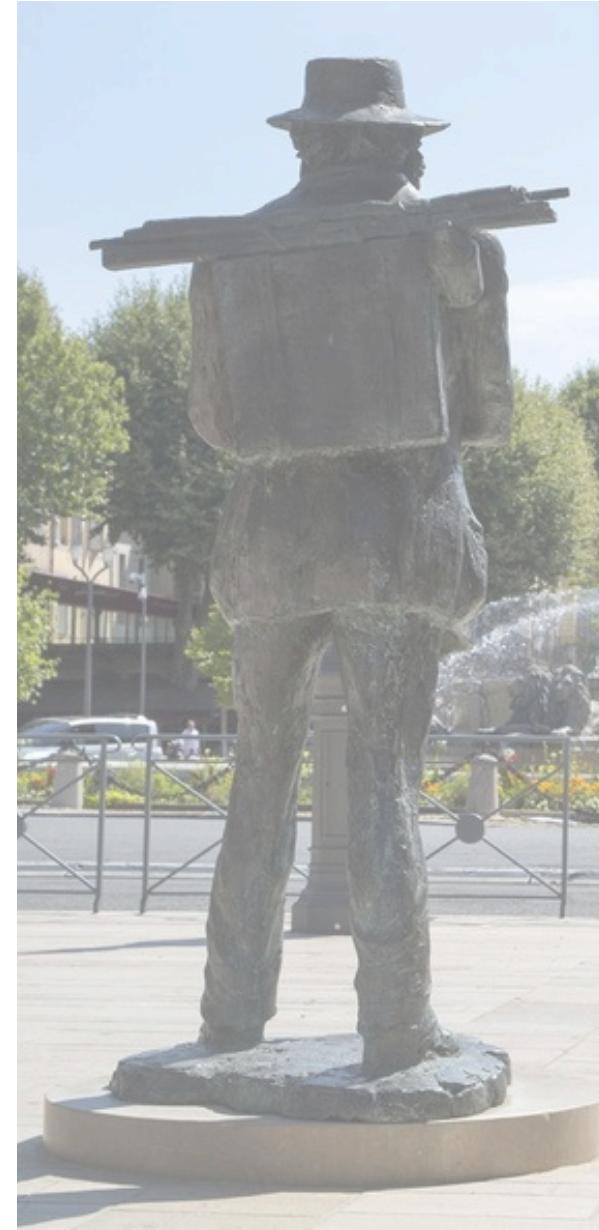
88037 cultural infrastructures, across 21331 communes

## French Ministry of Culture (2024):

~ 50% go out less than pre-COVID

Crédoc survey (October 2023)

3,000 French residents aged 15+



# CHALLENGES AND OPPORTUNITIES



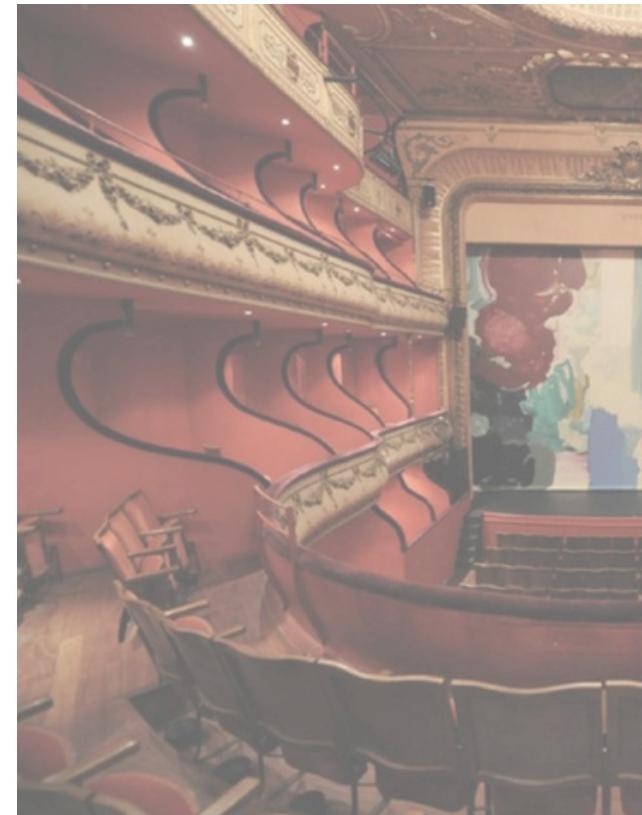
- Identify underserved market
- Inform engagement strategies
- Guide annual cultural funding
- Data makes inequality visible

# DATA SOURCES AND INTEGRATION

## BASILIC (Ministry of Culture)

+ 88000 infrastructures

Libraries, cinemas, theaters, museums ...



## INSEE (National Institute of Statistics)

Geographic boundaries, population demographics,  
administrative hierarchies

## FILOSOFI (Income Database)

Median income, poverty rates, Gini index (inequality)

# DATA ANALYTICS PIPELINE

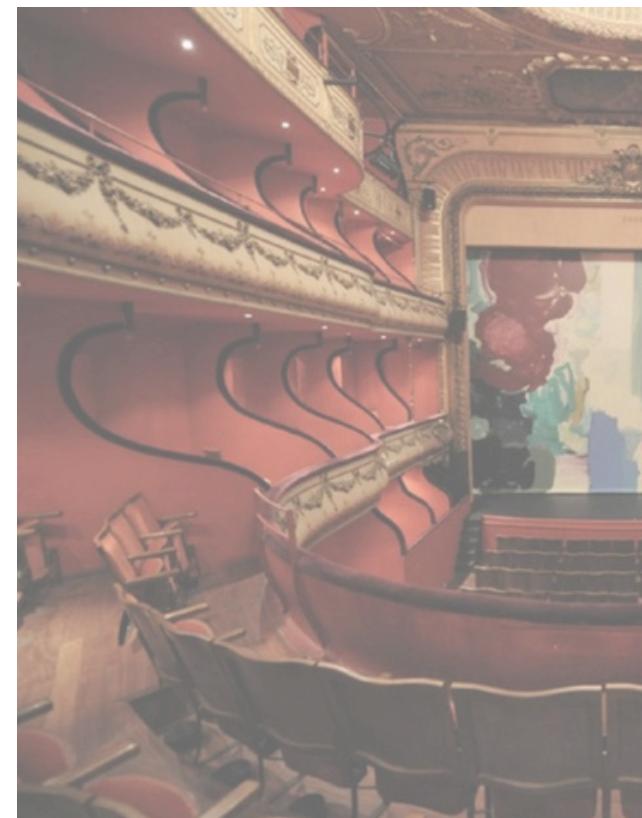


- 3 government datasets
- SQL Database
- Python EDA
- Statistical analysis
- Additional visualisation

# SQL DATABASE

## SQL Database

- **Cultural venues (BASILIC):** 88,000 records with venue types, locations, management structures
- **Communes:** 35,000 French municipalities with population data
- **Departments:** 101 administrative divisions
- **Regions:** 18 French regions
- **Income data (FILOSOFI):** disposable income and poverty rates at commune level
  - ‘Communes’ and ‘Iris’



# EXPLORATORY DATA ANALYSIS



## Approach:

- Statistical testing
- Visualization for pattern identification
- Evidence-based conclusions

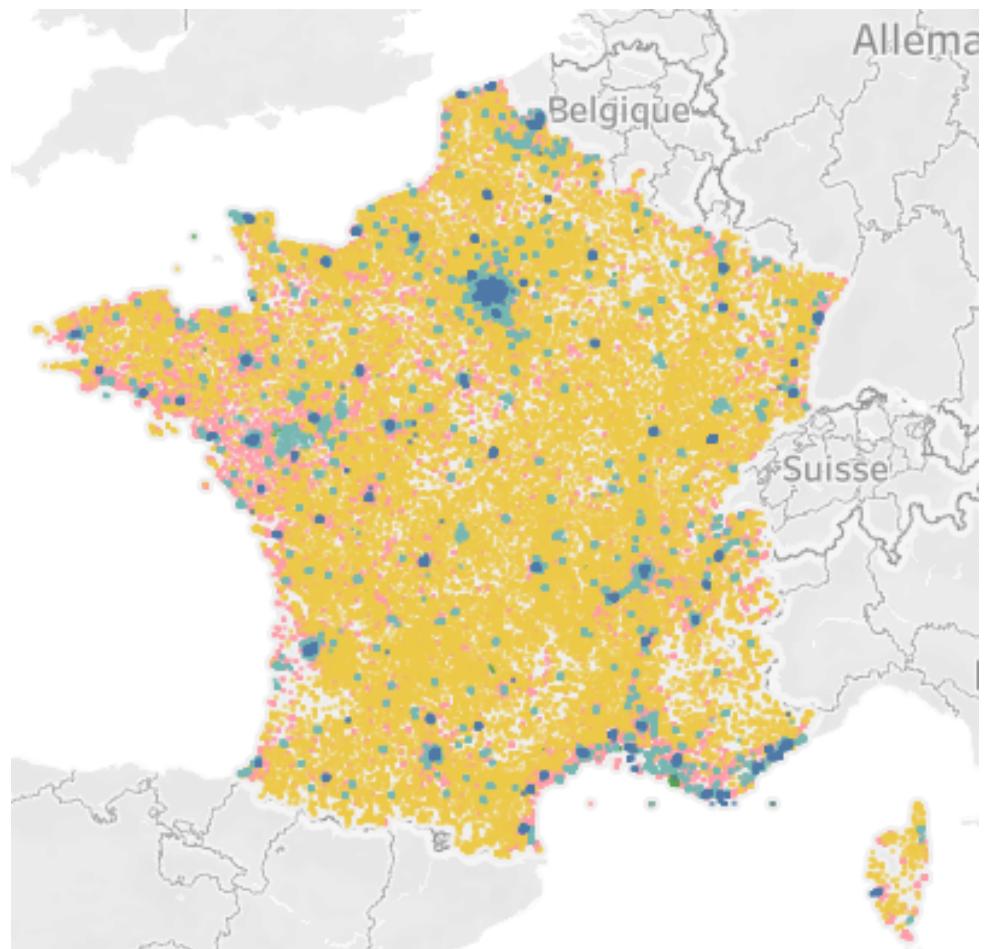
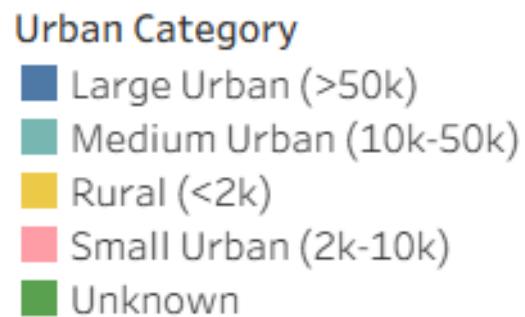
# KEY FINDING AND INSIGHTS



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## Urban/Rural divide

2 - 3x difference in density



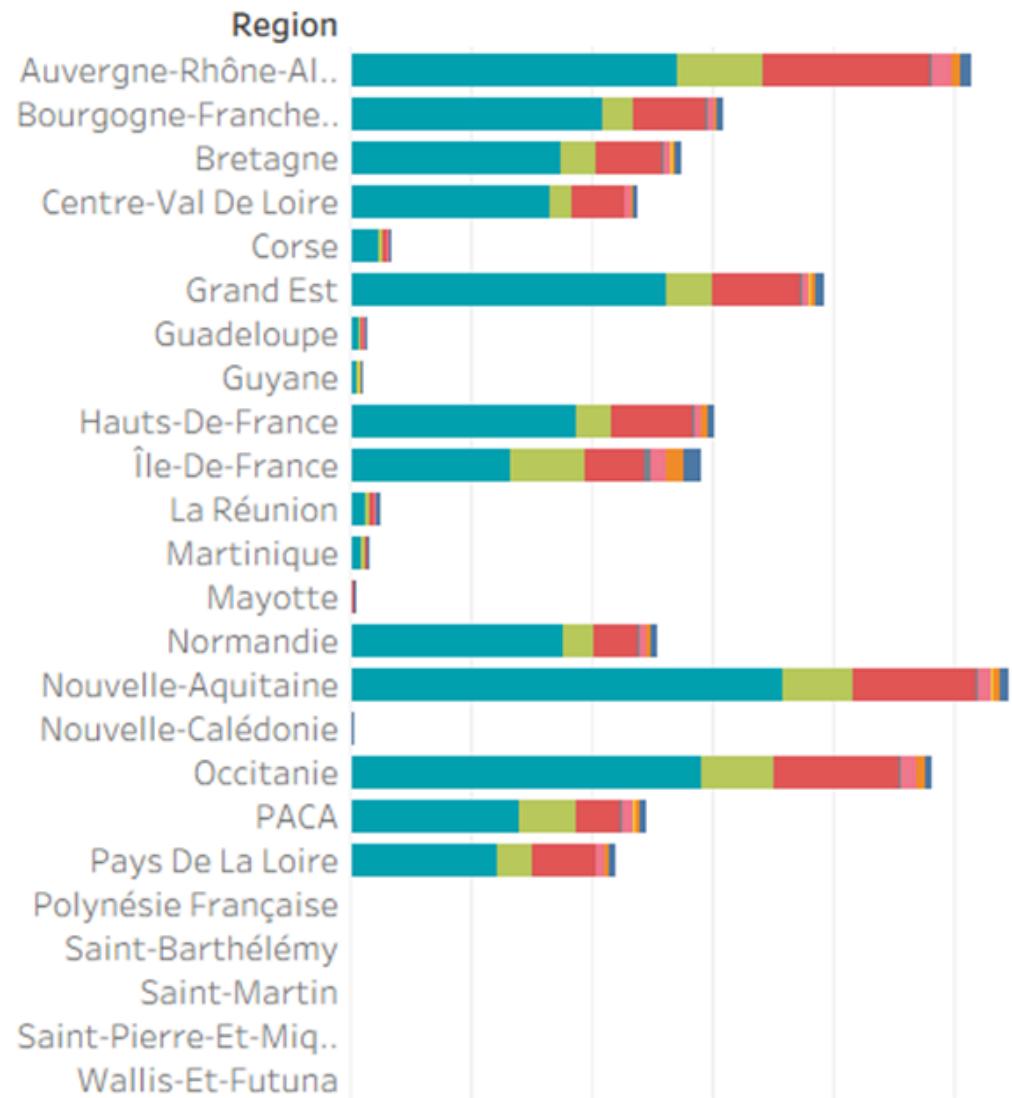
# KEY FINDING AND INSIGHTS

## Income correlation

Strong correlation between  
income and cultural supply  
at the commune level



# KEY FINDING AND INSIGHTS



## Cultural imbalance

### Patrimoine :

+ 60% of all venues

(Librairies, museums, historical sites)

### Domaine

- Archives
- Arts Du Spectacle
- Arts Visuels
- Cinéma
- Éducation Et Formation
- Lecture Publique
- Livre Et Presse
- Patrimoine

# RECOMMENDATIONS AND IMPACT

- Mobile/digital cultural programs
- Target high-gap rural regions
- Address affordability barriers



# CHALLENGES AND LEARNINGS

- Many-to-many relationships
- Integrating 3 datasets with different schemas
- Ensuring complete geographic coverage



# FUTURE RESEARCH DIRECTION

- Recollection of data on private venues
- Cross-reference with transportation data
- Sociological field research integration  
(Surveys, interviews)
- Analyze Ministry of Culture investments



A painting of a garden with blue and yellow flowers.

**THANK YOU**

**Project repository:**

<https://github.com/mmouwaffak/cultural-infrastructure-index-fr>