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FRANÇAISE**

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FINANCES PUBLIQUES

# AI for Tax Evasion Detection in France

12.03.2025

## Plan

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### **Policy & Governance** 01.

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How we organize the use of AI?

### **Data & Models** 02.

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How we use the data to detect tax evasion?

### **Performance & results** 03.

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How well does it work?

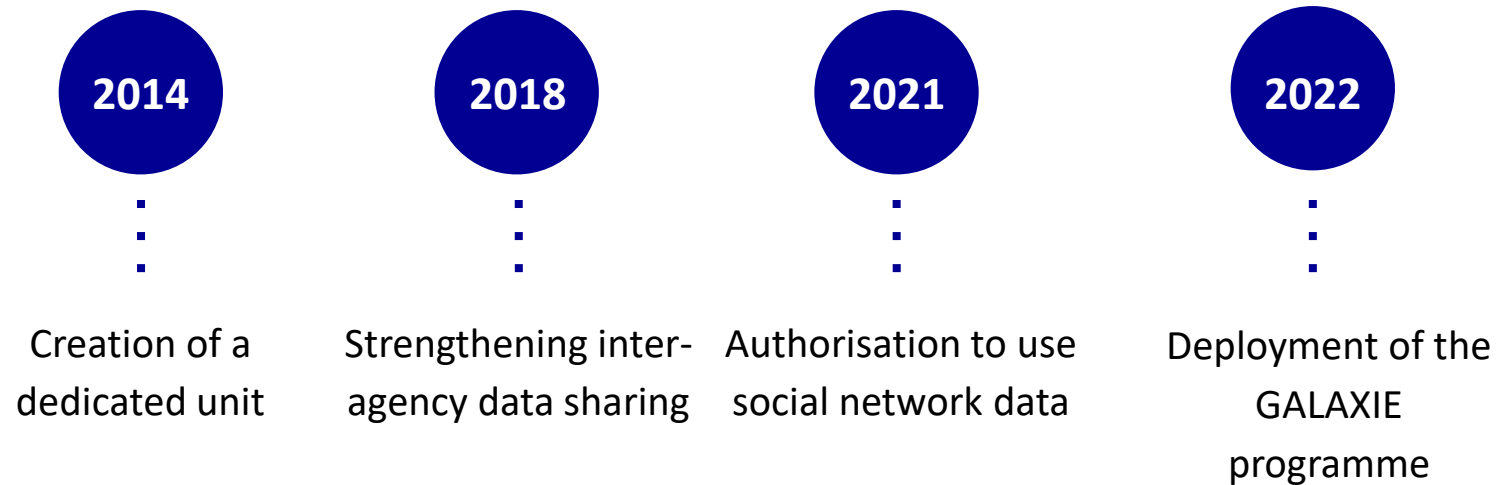
# 1

## Policy & Governance

## A decade-long use of AI

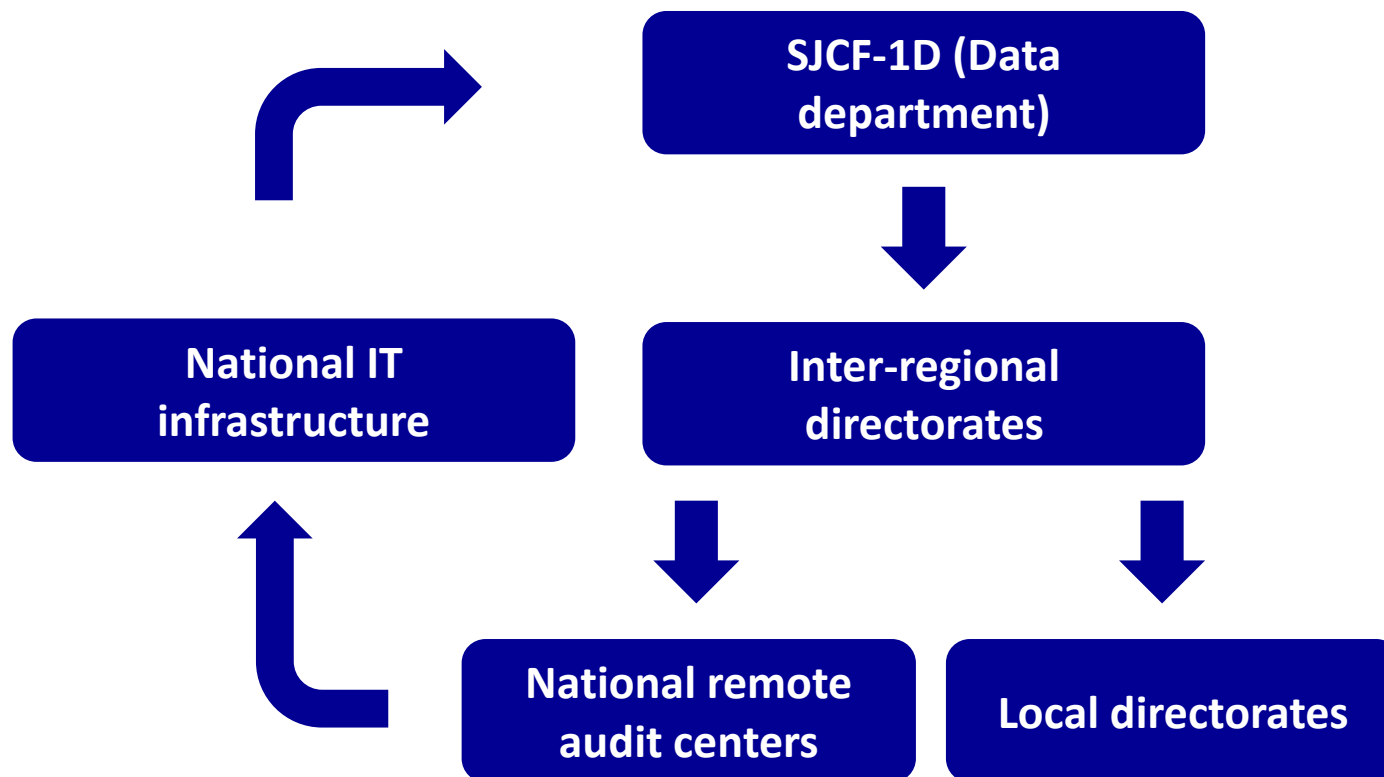
### Milestones

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## AI is upstream in the process

Organization of the tax audit process

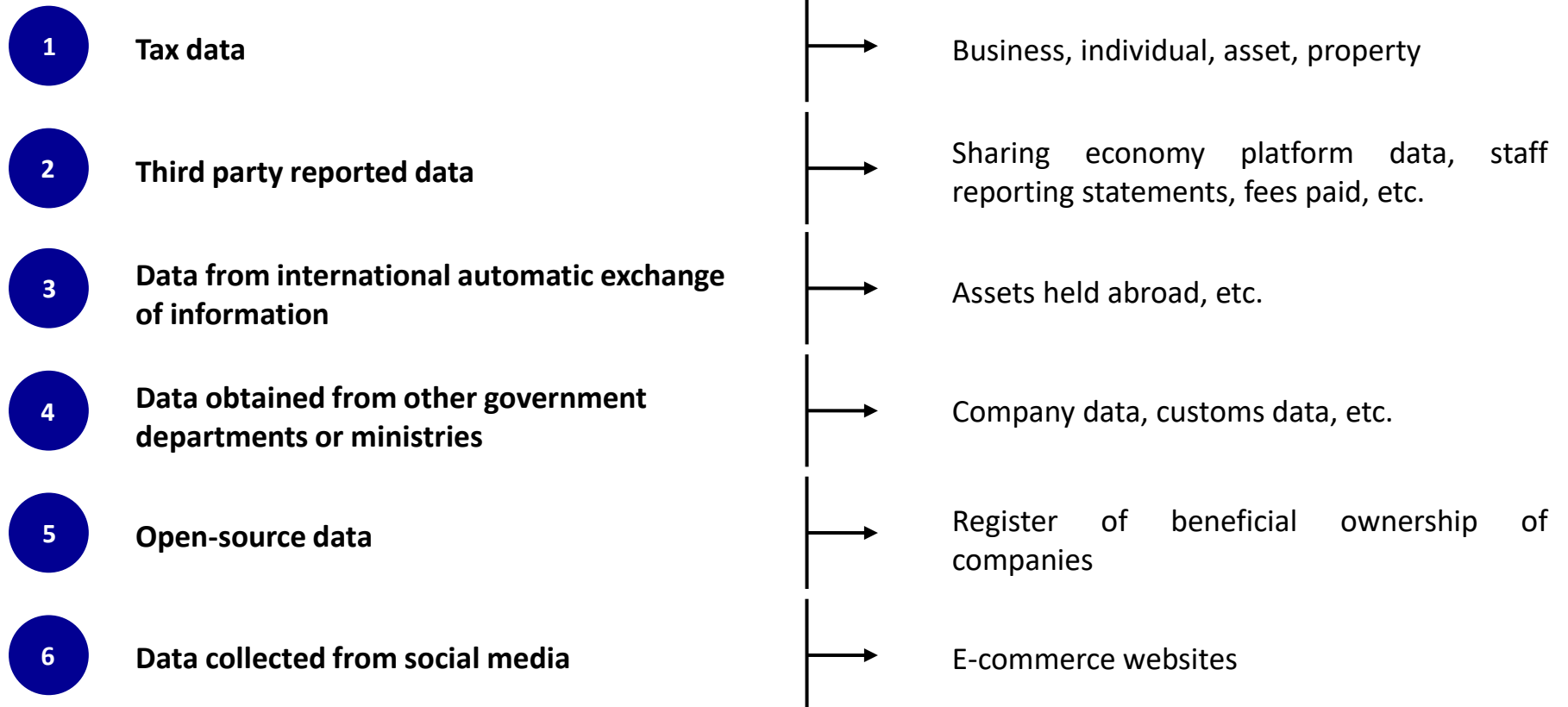


# 2

## Data & Models

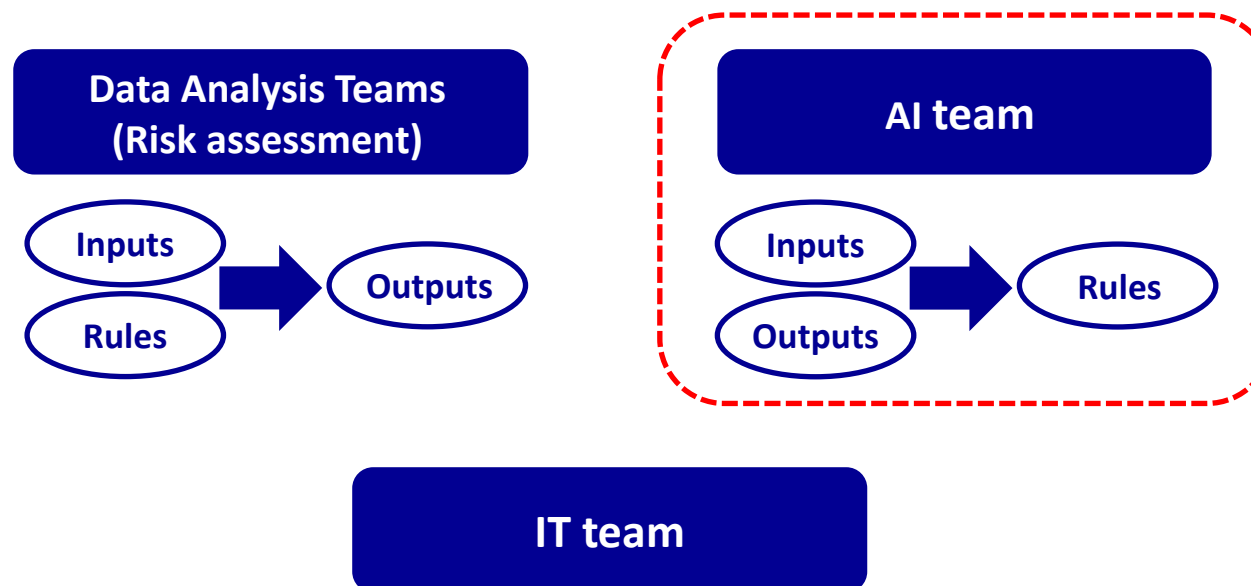
## 55 data flows are collected and stored

The data department stores terabytes of data every year



## The AI team is a part of the data department

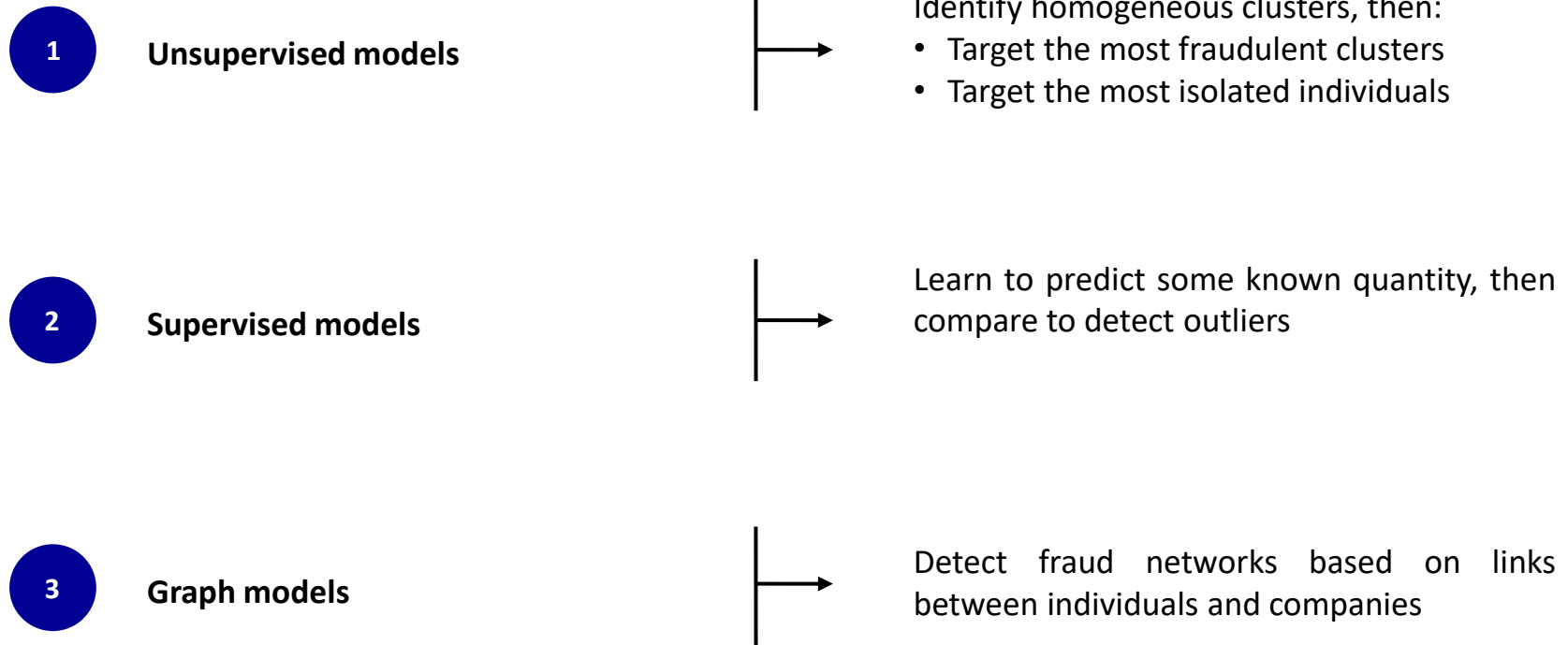
Alongside the analysis team for individuals and the analysis team for businesses





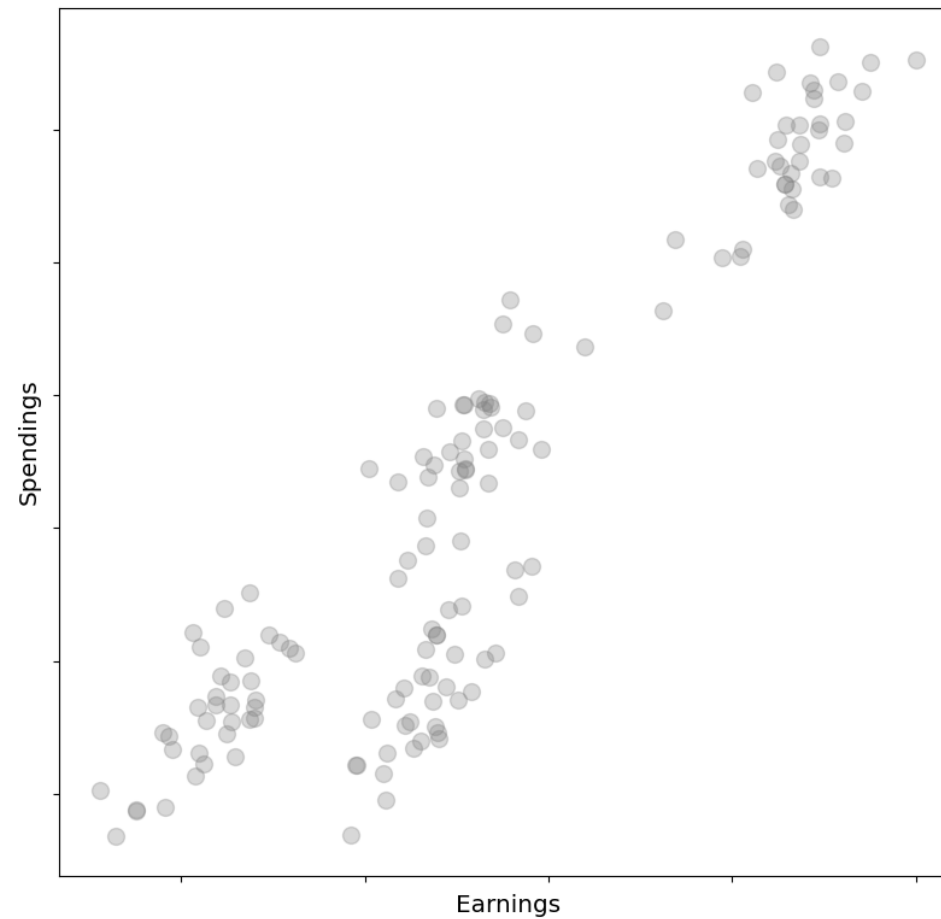
## We use 3 main types of models

In the AI team



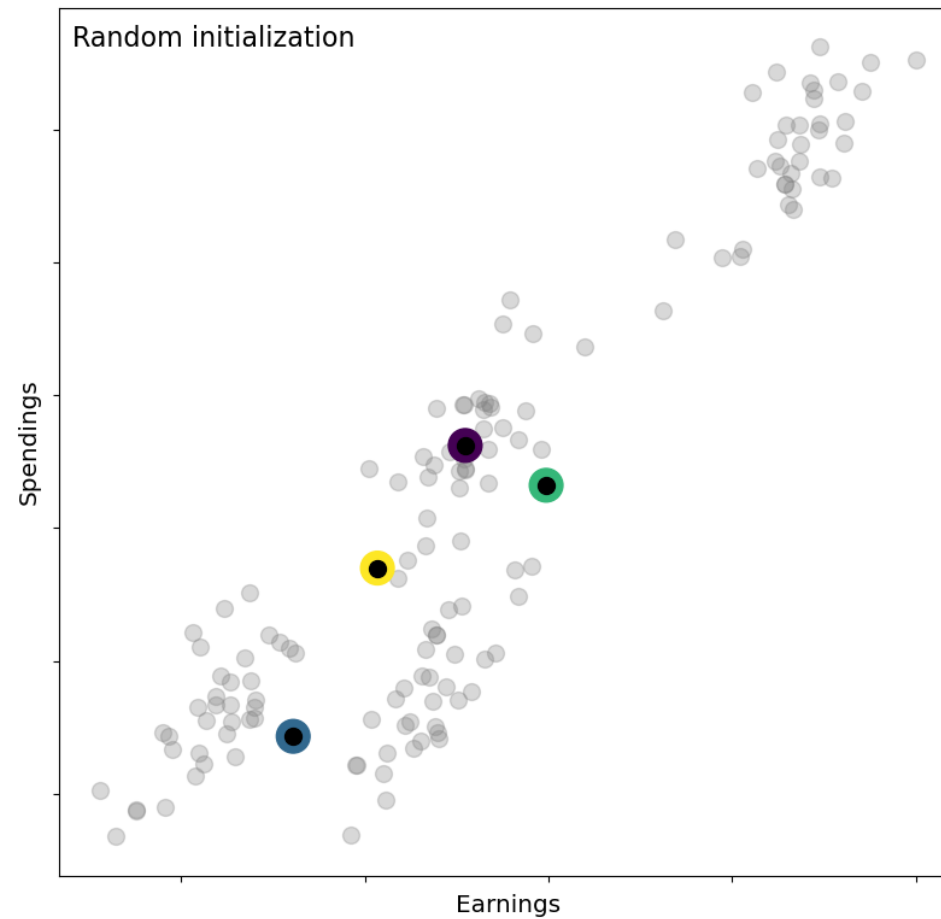
## Unsupervised models

Find homogeneous clusters



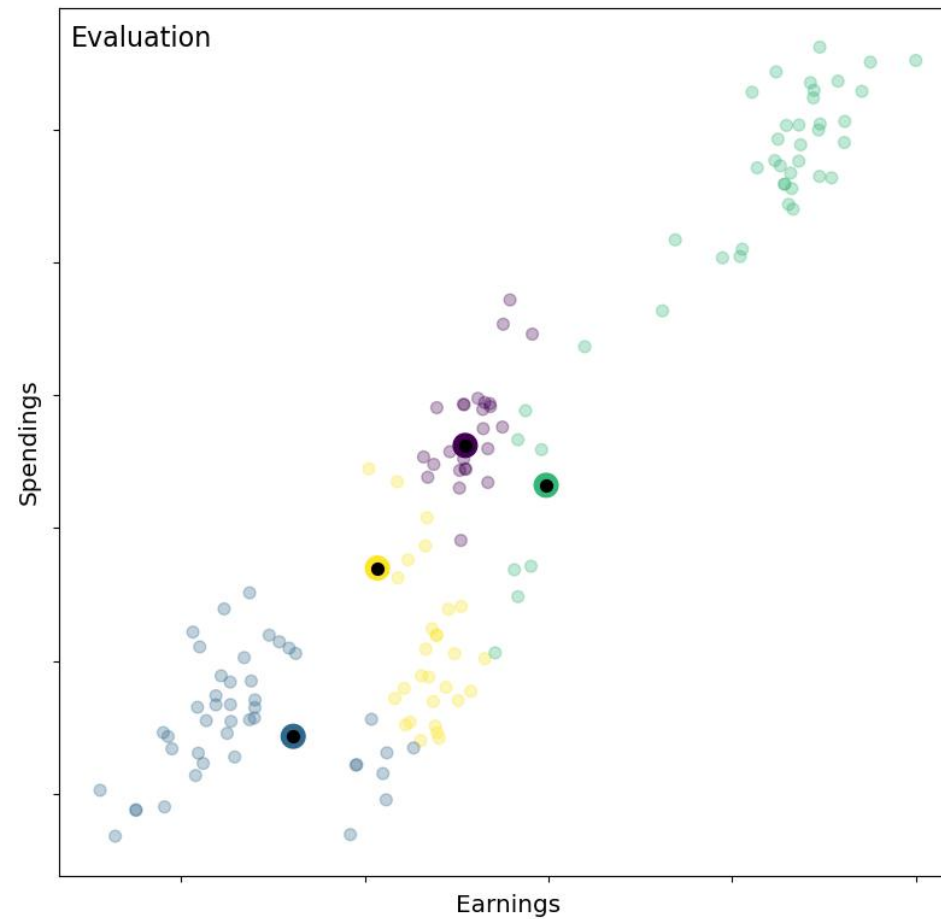
## Unsupervised models

Find homogeneous clusters



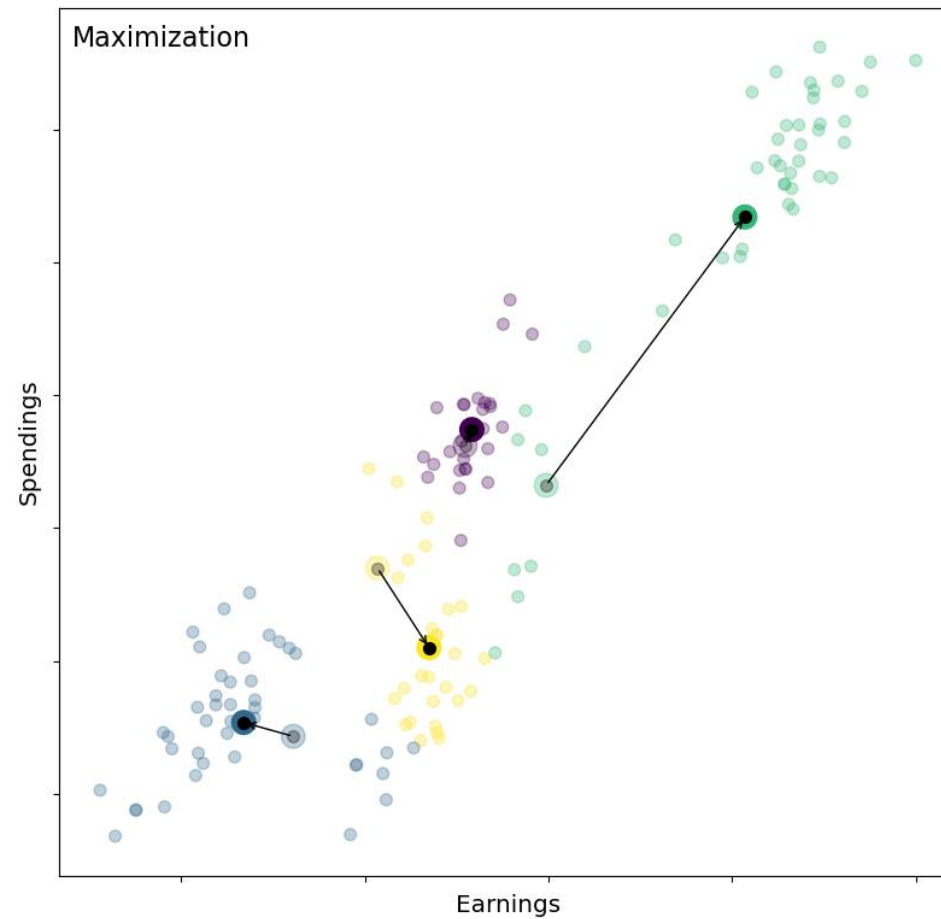
## Unsupervised models

Find homogeneous clusters



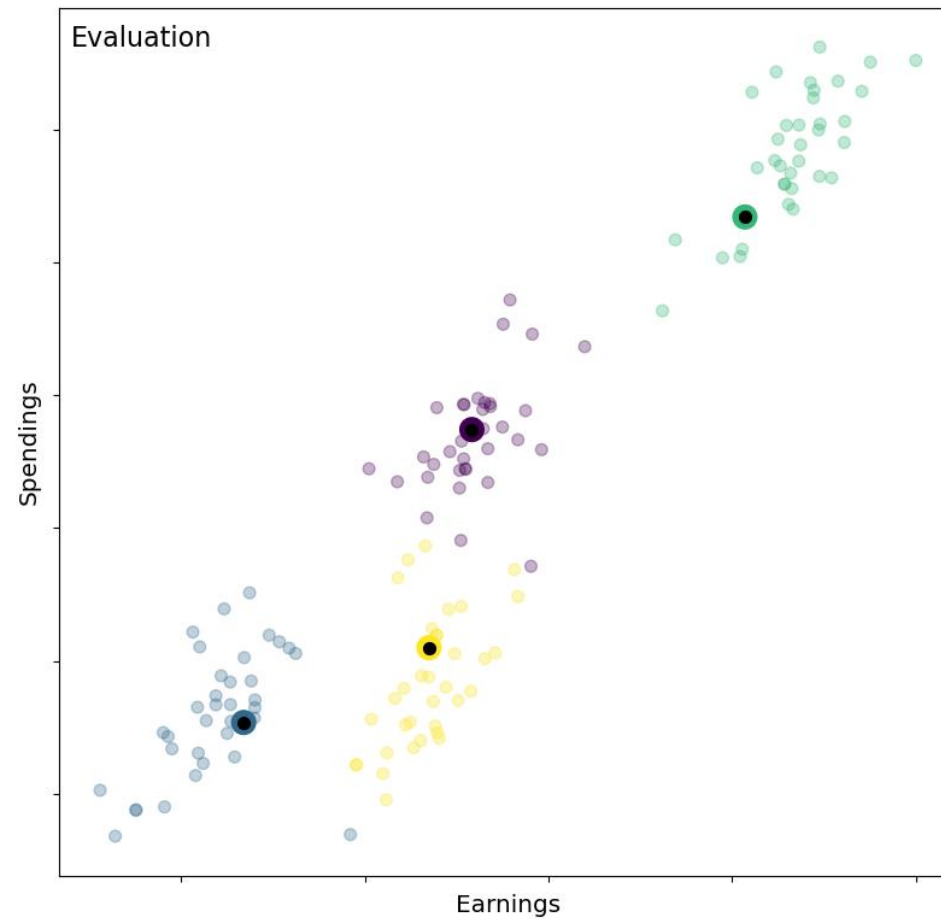
## Unsupervised models

Find homogeneous clusters



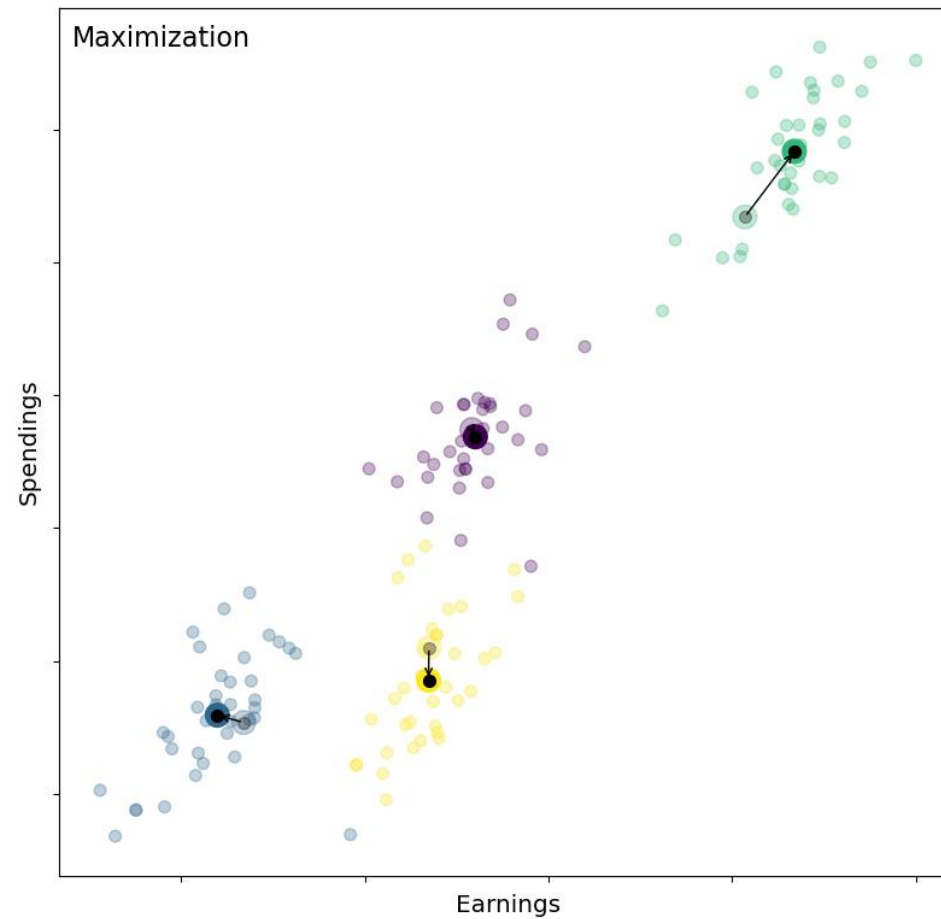
## Unsupervised models

Find homogeneous clusters



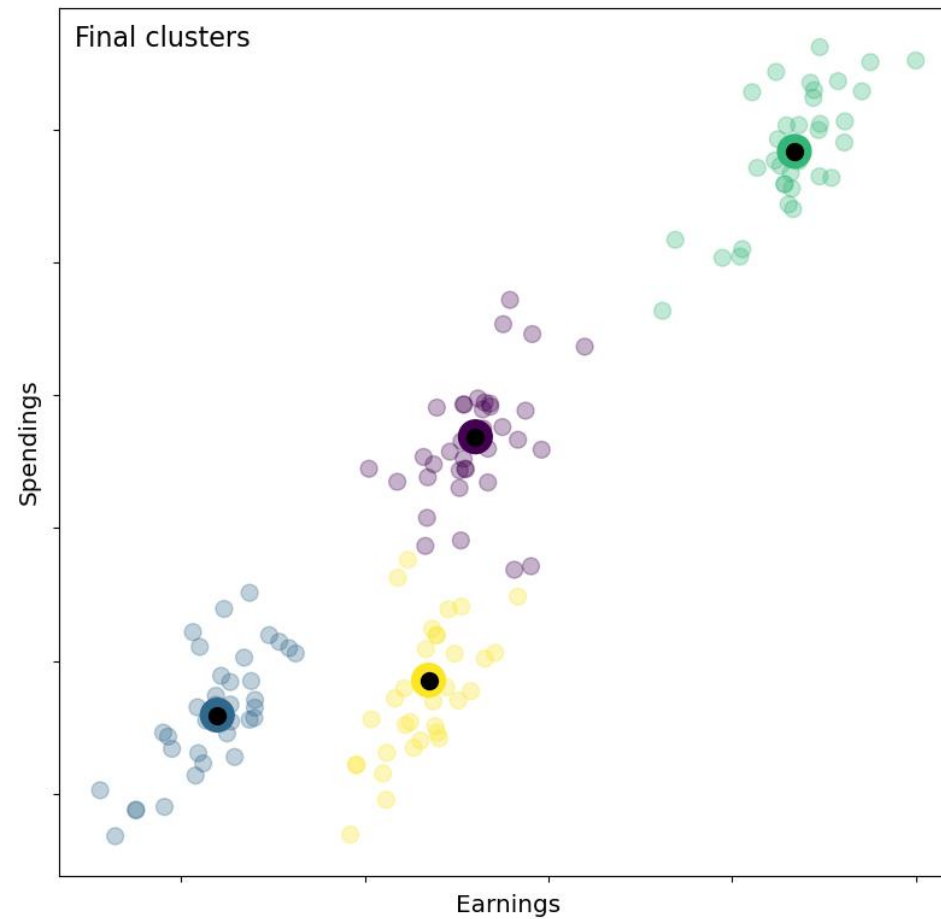
## Unsupervised models

Find homogeneous clusters



## Unsupervised models

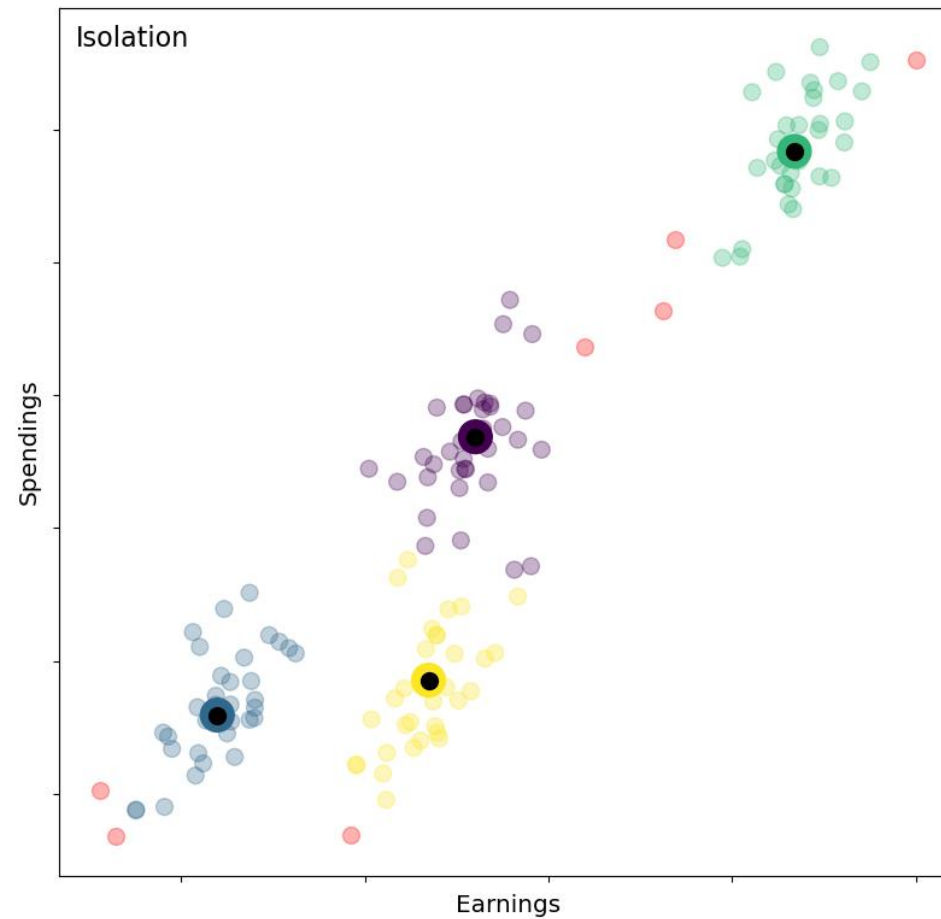
Find homogeneous clusters





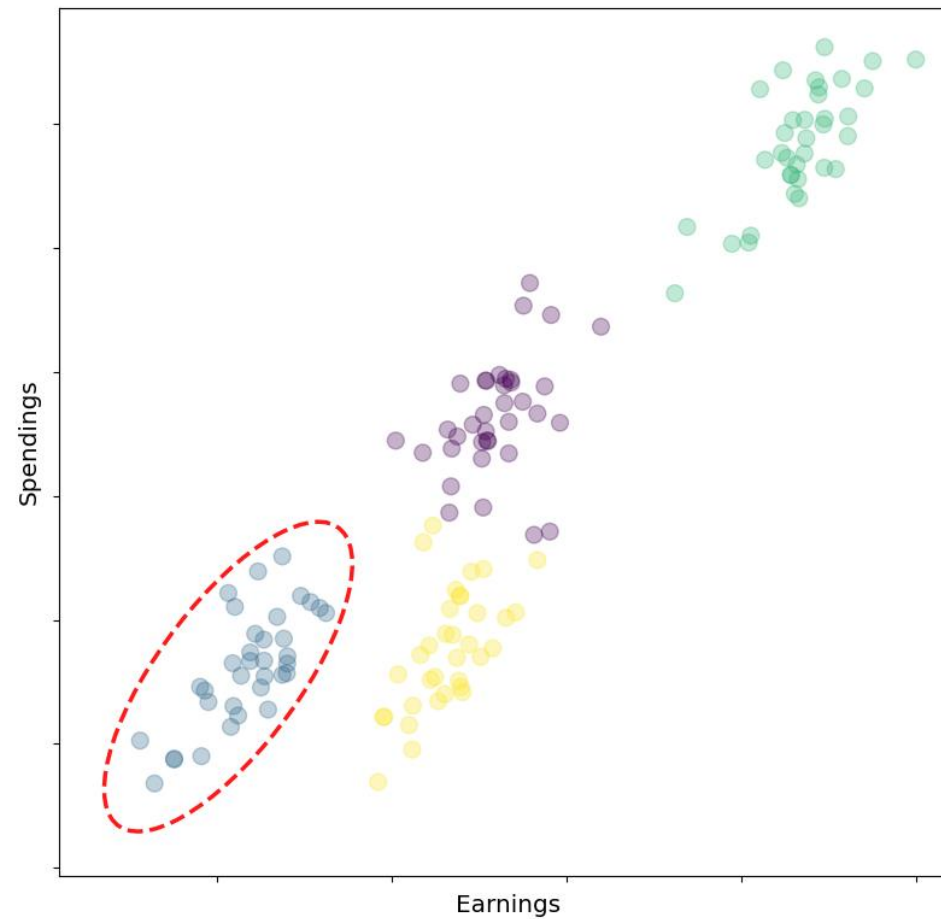
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Find homogeneous clusters



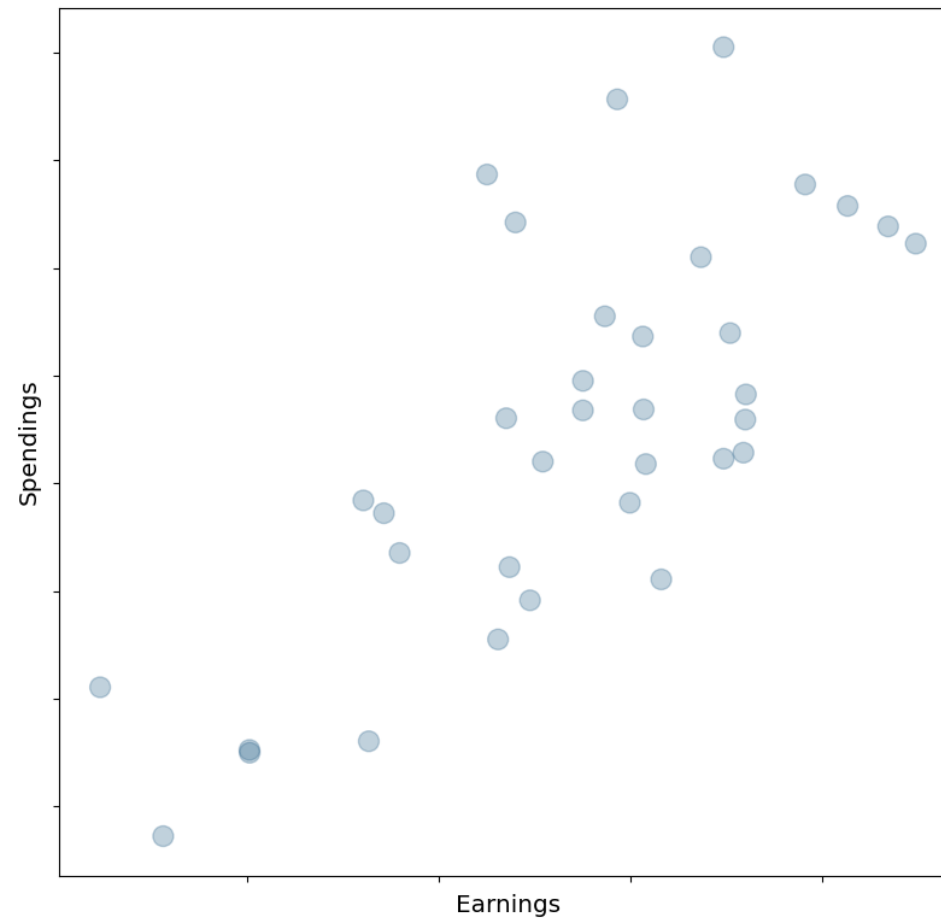
## Unsupervised models

Find homogeneous clusters



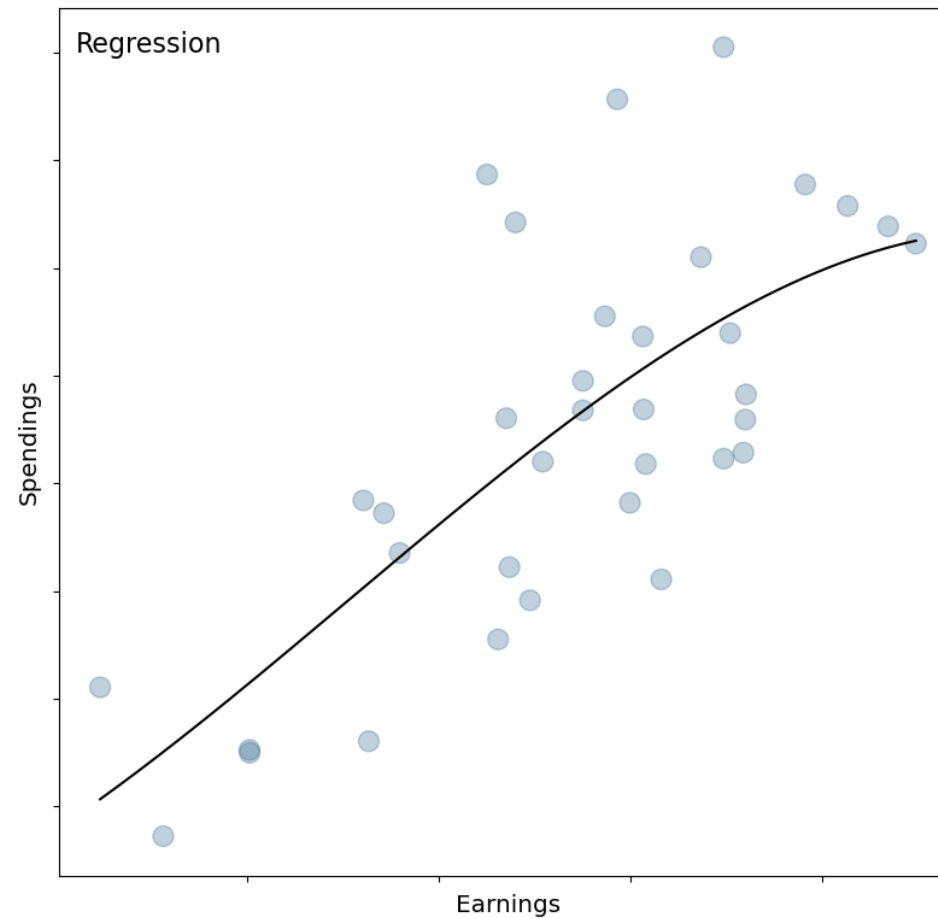
## Supervised models

Learn to predict some known quantity, then compare to detect outliers



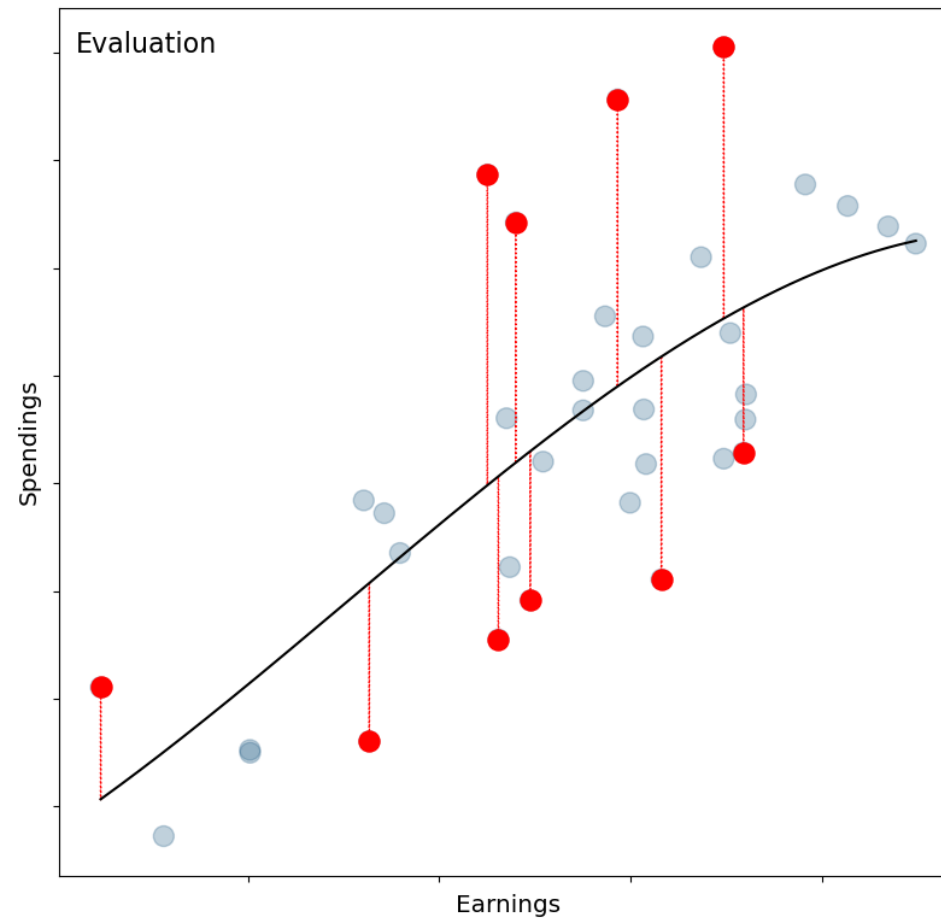
## Supervised models

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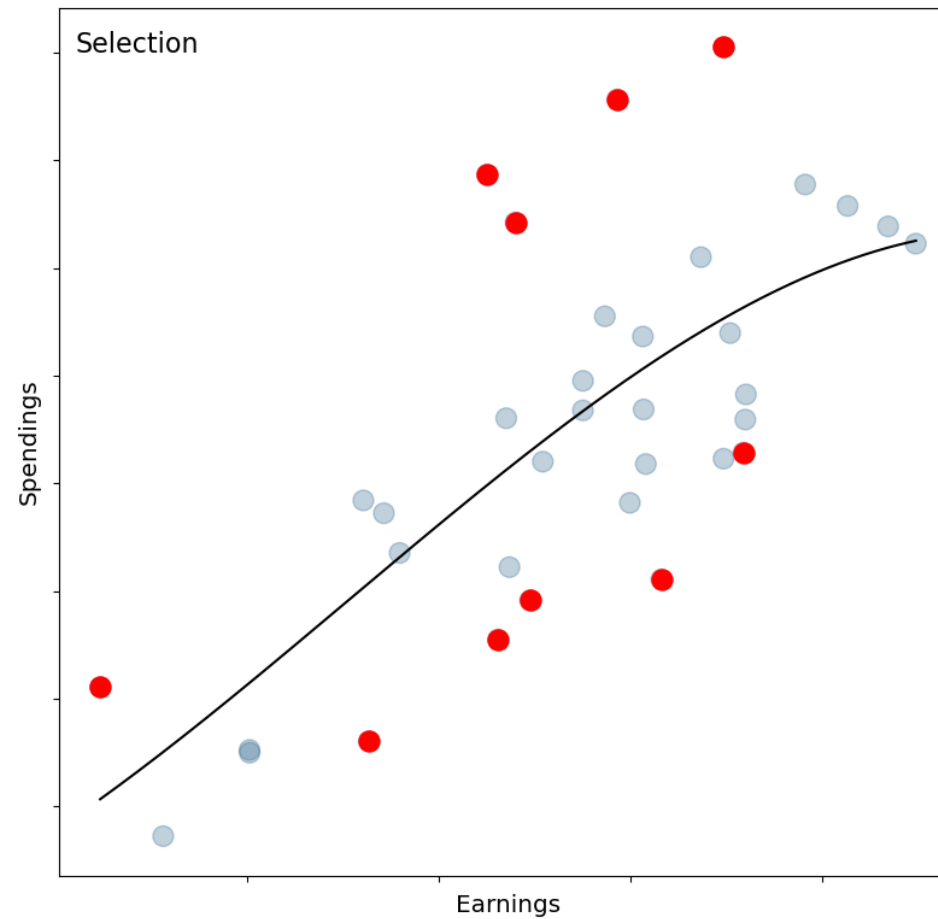
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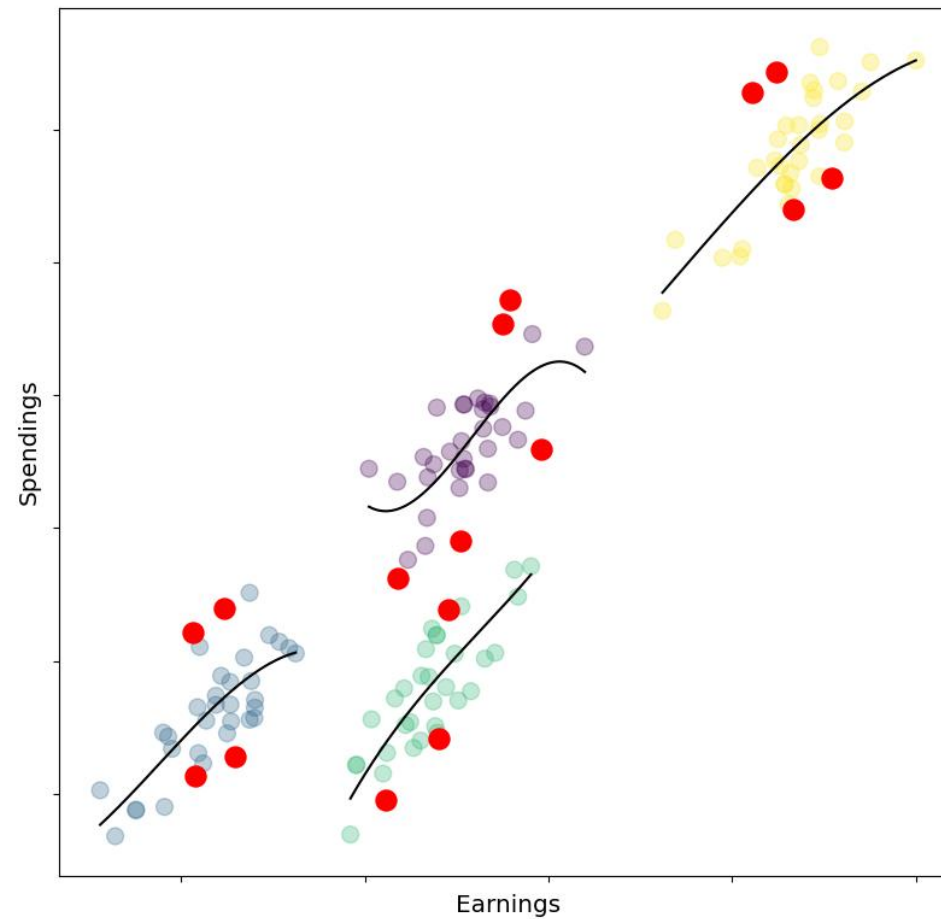
## Supervised models

Learn to predict some known quantity, then compare to detect outliers



## Supervised models

Learn to predict some known quantity, then compare to detect outliers



# 3

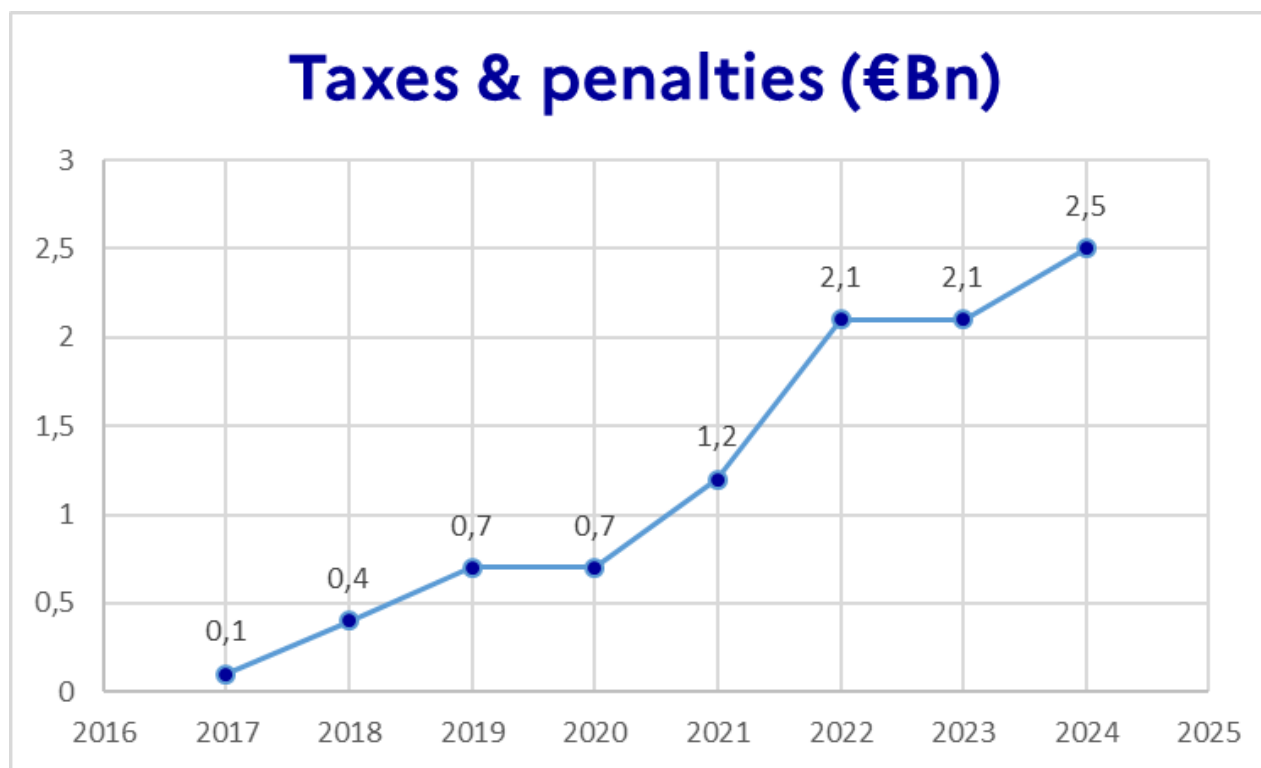
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## Performance & results



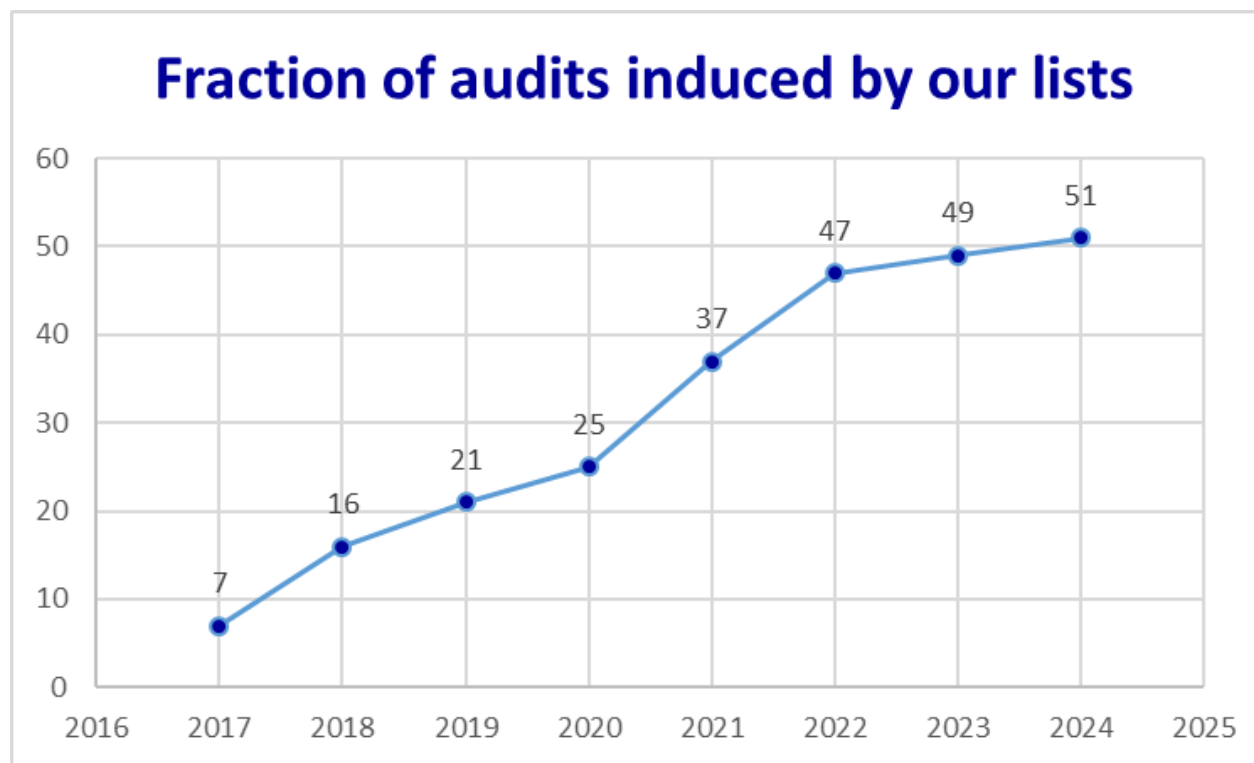
## More than 2.5 €Bn detected in 2024

Including 1.6 €Bn from businesses



## Our lists are used in more than 50% of tax audits

Other tax audits include research & events



## Data analysis setup as of today

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