

DATAFID Project

ATI Spotlight Session 2024

*Equity and sustainability: building progressive
tax systems*

Know-how in common

Our Agency

French technical cooperation agency

- **Designs and implements** technical cooperation projects
- All around the world, but mostly in **Africa**
- Projects in climate, environment, health, education, stability and security, **governance**, etc.
- Dedicated team to **domestic resources mobilization (DRM)** projects.



Supports customs and tax administrations in using data science to increase DRM

- Cameroon, Côte d'Ivoire, Mauritania, Niger, Togo and Senegal
- Funded by the French Treasury
- 39 months (2021-2024)
- In cooperation with



WORLD CUSTOMS ORGANIZATION



Initiate a cultural and organisational change around data in partners revenue administrations

- Moving beyond scanning towards **digitalisation**
- Supporting **human resources development** on skills related to data in technical teams
- **Departitionning** of departments in revenue administrations
- **Creating a community around data management**: sharing experience and collaborating locally and internationally
- Strengthening the discussion on **data governance** in revenue administrations
- **Independent continuation** of application work in data sciences for technical tasks

Two examples of activities from the project

Use-cases to politically support the development of data governance

- Combine administrative data with data sciences to:
 - **Improve the targeting of controls to combat fraud**
 - **Increase the exchange of data** between tax and customs authorities
 - Provide **statistical monitoring and steering tools**
- Concreat example in Niger customs:
 - RandomForestClassifier tool (R), was tested with data from 2022, demonstrating significantly greater efficiency, with **a 30% improvement in the effectiveness of controls compared with the usual Nigerien method**
 - The benefits identified include significant **time savings for customs officers** and **increased surveillance of potentially fraudulent declarations**

➔ The importance of the example to highlight the need for **quality data** and its use to improve the performance of revenue administrations.

11 co-built training modules on how to use data science in customs and tax administrations

- Data science in public administrations: potential and organisational challenges ; Mastering the challenges of **mirror analysis** ; Understanding the challenges of **performance contracts** ; **Transfer pricing**: how to use customs data? ; Using data analysis to **rationalise tax expenditure**
 - First steps in **R** with customs data ; Conducting an exploratory analysis of customs data in R ; Visualising and reporting data in **Tableau** ; Advanced techniques: analysis and statistical modelling ; Introduction to **geospatial analysis** for customs administrations
- ➔ **Democratise the use of data** at all levels, with **appropriate training** and **exchange of international experience**.

<https://ferdi.fr/ihedd/la-science-des-donnees-au-service-d-une-meilleure-mobilisation-des-recettes-et-de-la-lutte-contre-la-fraude>



DATAFID project in video:
[https://vimeo.com/906658790/c869ed8e59
?share=copy](https://vimeo.com/906658790/c869ed8e59?share=copy)

