

Conclusion and discussion

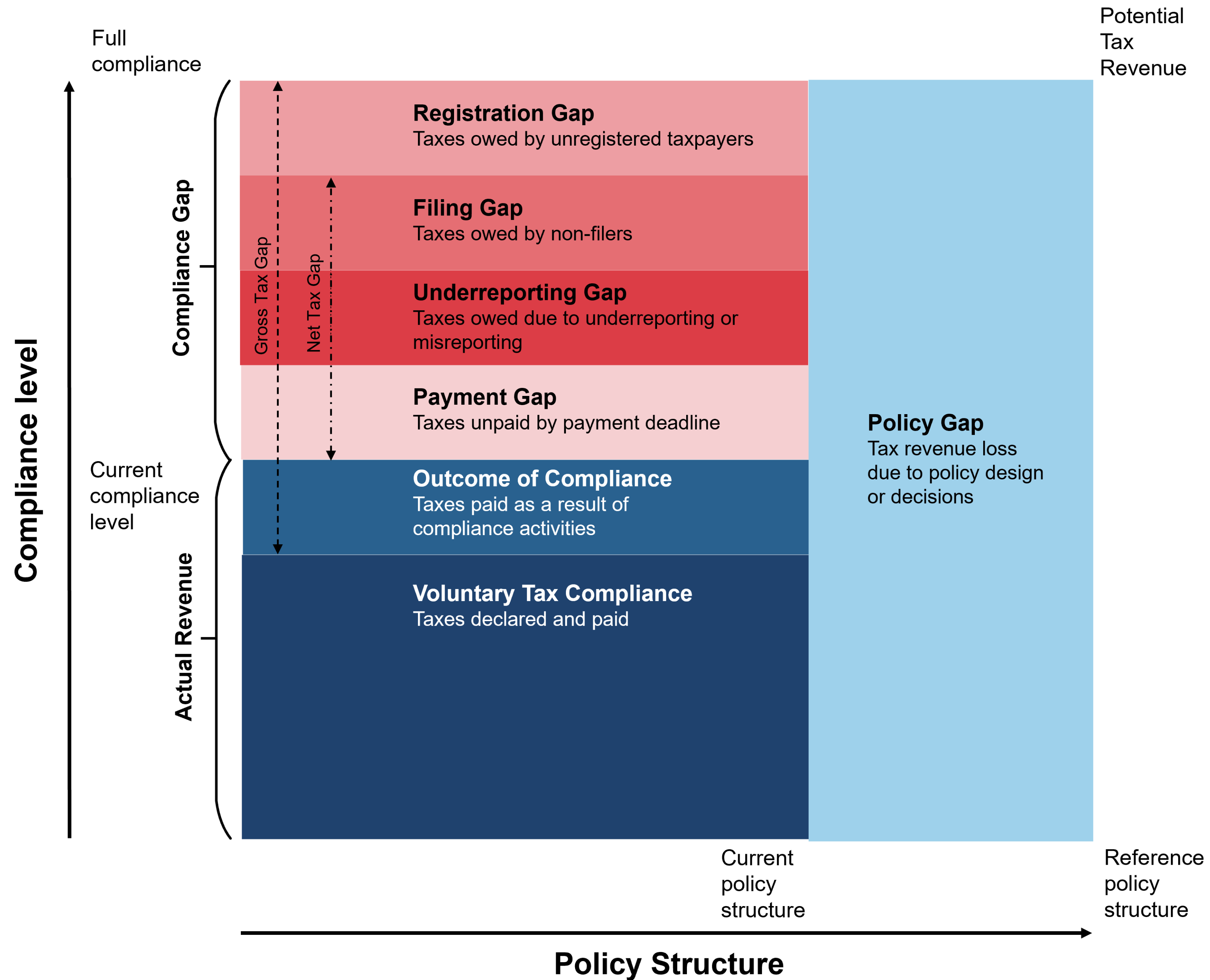
Dr Maria Jouste, Research Associate, UNU-WIDER

7 May 2025 | Follow-up training



The Tax Gap toolkit was developed with support from the [International Tax Compact \(ITC\)](#), which facilitates the Secretariat of the ATI. The ITC is funded by the [German Federal Ministry of Economic Cooperation and Development](#), co-funded by the [European Union](#), and implemented by the [Deutsche Gesellschaft für Internationale Zusammenarbeit \(GIZ\) GmbH](#).

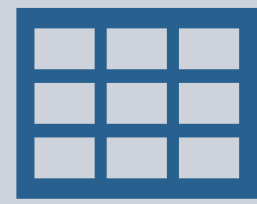




Learning objectives



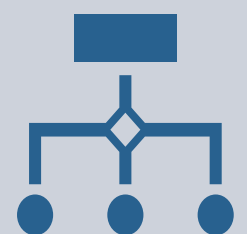
Set up the Stata environment and folder structure



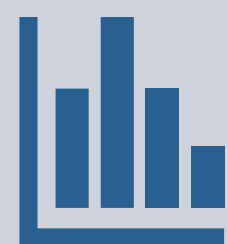
Prepare tax return and audit data
(variables, dates, duplicates)



Combine datasets into one file to use in the tax gap estimation



Choose the model for ML
(iterations, variable selection, testing the model)



Estimate the tax gap



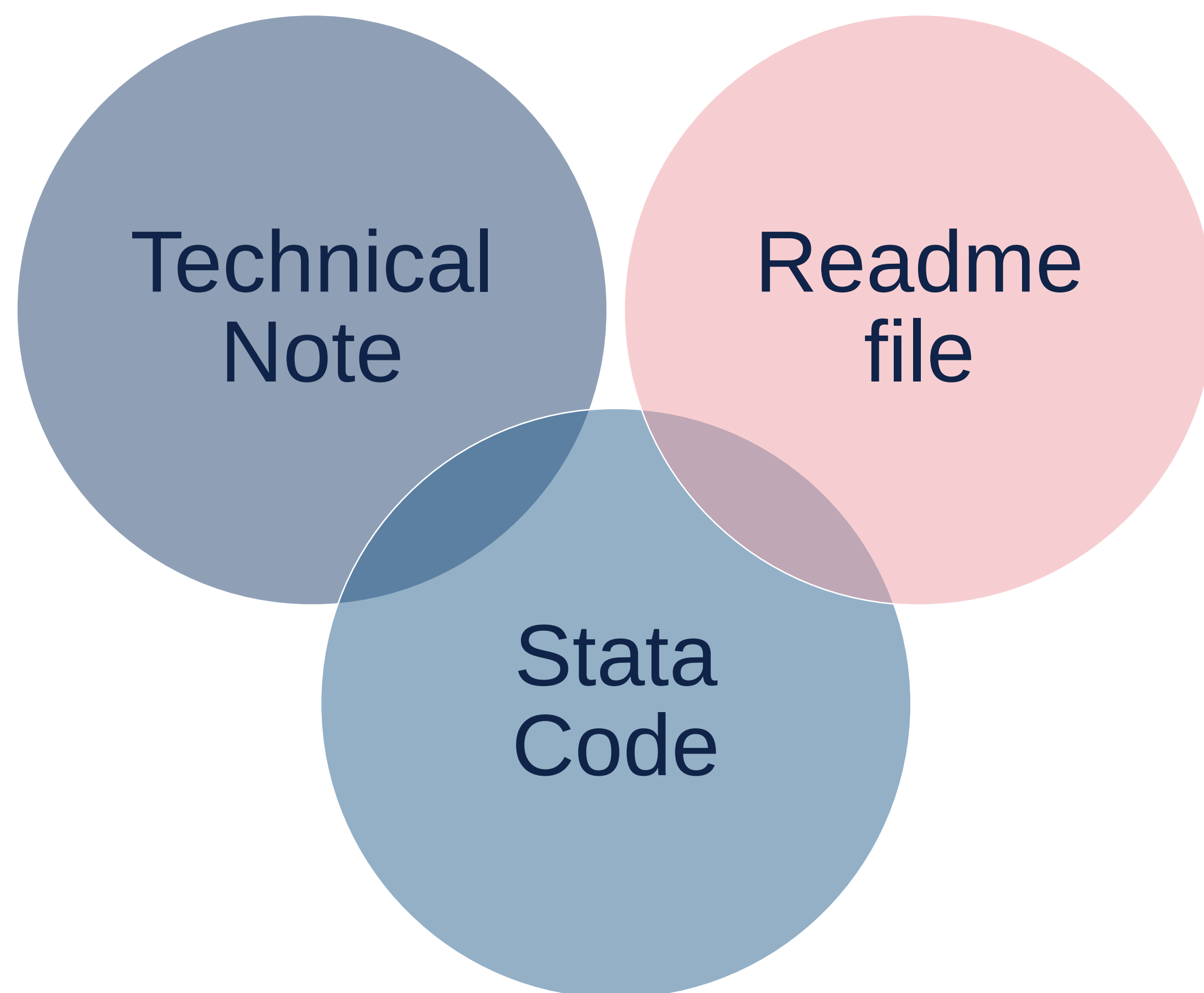
Investigate disaggregated results

How to apply this to your own setting?

- Check the purpose of each step in the Tax Gap Toolkit -> adjust the code to match your case if needed
- Variable selection can be guided by the audit department -> interact with them when possible
- You are the experts of your own setting! Trust the process.

The Tax Gap Toolkit will guide you through all steps and provide examples for CIT, VAT and PIT

What is the Tax Gap Toolkit?



A package of **adaptable materials** to implement tax compliance gap **estimation** based on the bottom-up approach using **machine learning**

Toolkit materials – available for free

Tax Gap Toolkit [Technical Note](#), [Readme files](#) and example [Stata codes](#) now available on the UNU-WIDER's webpage. (Available in French, Spanish and Portuguese).



The Tax Gap toolkit was developed with support from the **International Tax Compact (ITC)**, which facilitates the Secretariat of the ATI. The ITC is funded by the **German Federal Ministry of Economic Cooperation and Development**, co-funded by the **European Union**, and implemented by the **Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH**.



**UNU
WIDER**



Facilitated by



More information available online

wider.unu.edu

Follow us on LinkedIn, Facebook, and Twitter @UNUWIDER