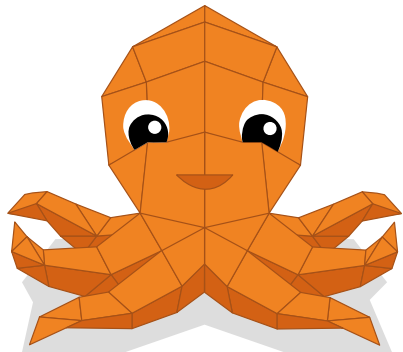


sdmx.io



Solutions for official statistics use cases



What is sdmx.io?

sdmx.io is not a single project but an **ecosystem of open source tools, patterns, guidance, learning materials and other resources** like pre-configured containerised environments that make the software quick and simple to deploy.

- An **open-source SDMX software and resource portal**
 - Software releases (FMR, .Stat Suite, etc.)
 - E-learning courses and webinars
 - Knowledge and use-case articles
- **Governance in place, incl. Prioritisation and User Advisory Groups**
- **Officially public**, after the SDMX Sponsors approval

- Share software tools and components based on SDMX
- Complement existing tools in order to achieve statistical use-cases
- Interface SDMX with other standards or tools
- Promote reusability of SDMX software

Want to publish your open-source SDMX tool on sdmx.io? Please contact us contact.sdmx.io@bis.org

sdmx.io partners



Organisation for Economic Co-operation and Development



Bank for International Settlements



European Statistical Office



Eurosystem



Statistical Information System Collaboration Community

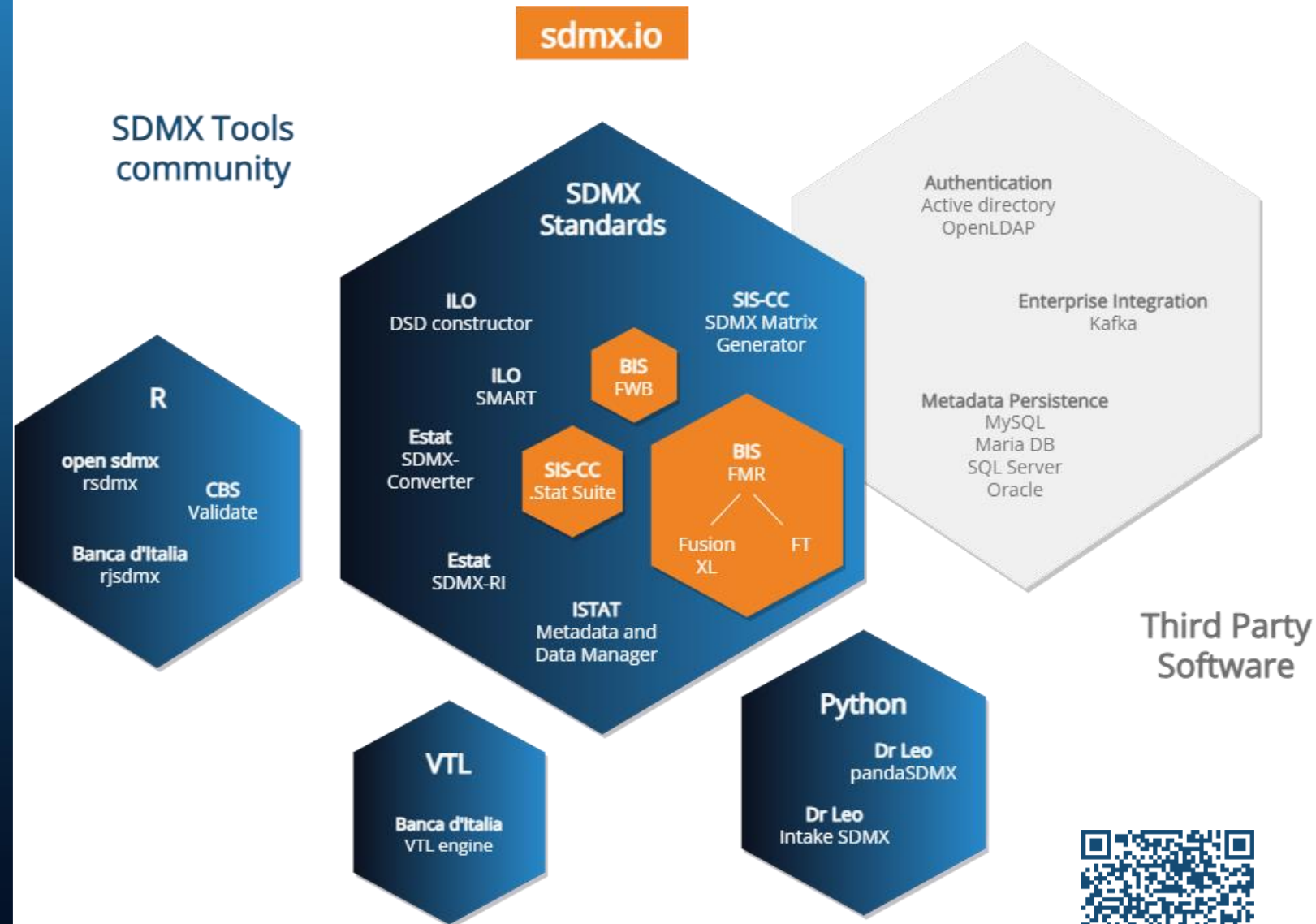


European Central Bank



The sdmx.io tools ecosystem

The sdmx.io ecosystem includes a collection of open source SDMX software tools cooperating to solve official statistics use cases.



sdmx.io

Solutions for official statistics use cases



<https://sdmx.io>



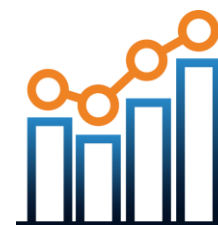
Data domain modelling

Model data domains using the SDMX information model



Data collection

Efficiently collect data from multiple providers



Statistics production

Repeatable and systematic metadata-driven statistics production



Statistics dissemination

Publishing statistics that are discoverable, understandable and consumable



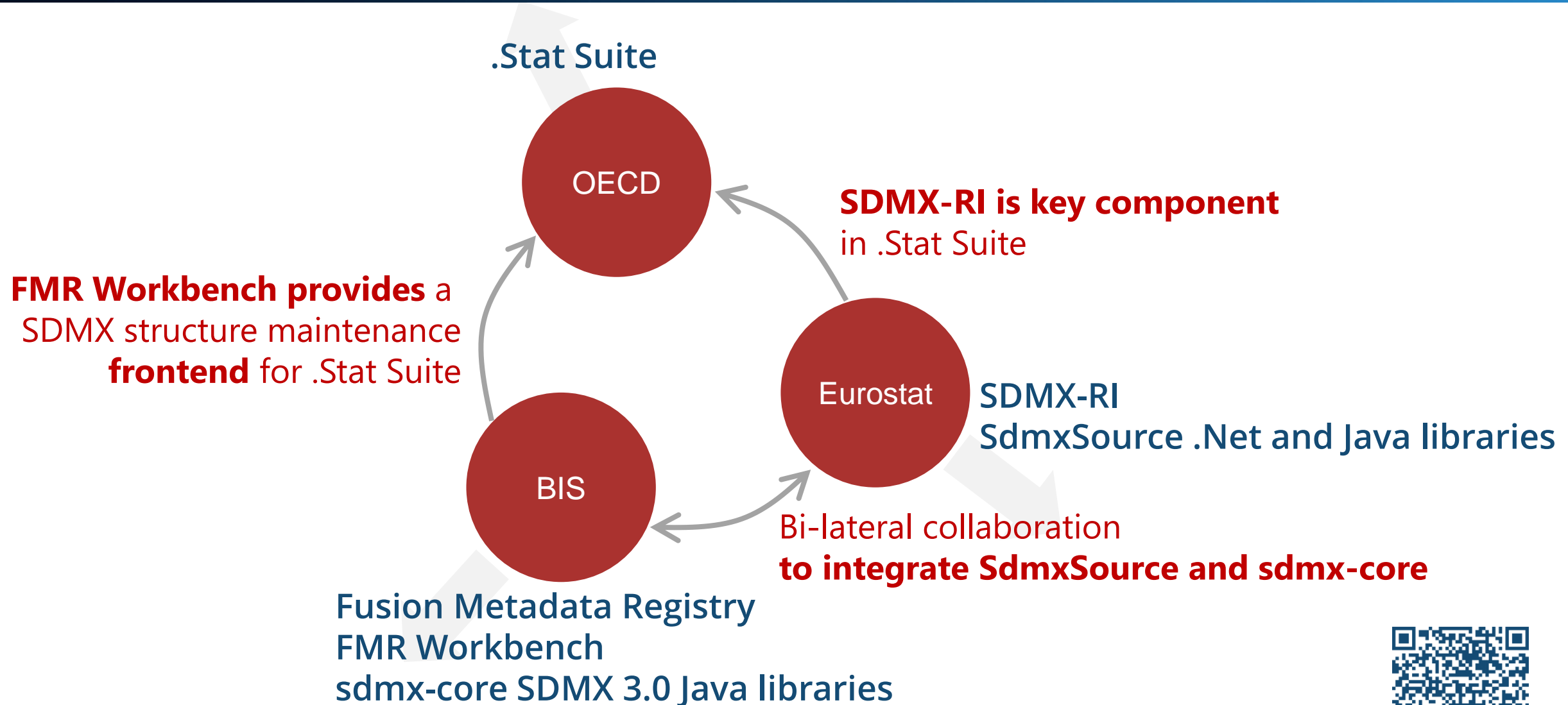
Collaboration Activities

The SDMX and official statistics community produces a lot of great open source software tools. sdmx.io brings these together to help solve concrete problems, with practical guidance and worked solutions to download and deploy.

- IMF: IMF SDMX Central is powered by FMR11 (since Sep 2023)
- SIS-CC/Eurostat/BIS: working closely on achieving SDMX 3.0 compliance
- OECD/SIS-CC: .Stat/FMR integration for the National Bank of Belgium (NBB) use case
 - FMR Workbench
 - .Stat Suite on sdmx.io
- NBB: Launch of FMR Workbench user group (targeting CBs and SIS-CC members)
- Eurostat: SDMX Reference Implementation for SDMX 3.0
 - sdmx-core evolution (Java/.Net)
- Banca d'Italia: VTL Engine & FMR → exploring the use cases
 - UNSD working with Bdl on the first use case
- Meaningful Data: SDMXthon & pySDMX → exploring integration



BIS-OECD-Eurostat collaboration on SDMX software tooling



eLearning courses

sdmx.io's library of learning resources covers a diverse range of topics including how to use software tools, SDMX theory and data modelling best practice.

- Introduction to Structural Modelling for Statisticians
- Essential SDMX Structural Modelling
- Running FMR in Docker
- Data conversion fundamentals
- Validating data; Data collection using Excel templates (Webinar recordings)

To be published soon:

- *Essential SDMX and the Fusion Metadata Registry (FMR)*
- *Template driven data collection using Reporting Templates.*
- Data often needs to be described (structural model) in different ways for various processes and actors. Learn how with *Recoding data using the SDMX standard and the Fusion Metadata Registry (FMR).*



Expert articles

Articles and guidance from contributing statistical and tools experts provide an invaluable repository of knowledge.

- Dimensions vs Attributes and Time Series Breaks
- Simplifying Data Collection thru Dissemination using open source tools and SDMX
- Creating balance equality validation rules using hierarchical codelists in FMR
- How to use an external database with the FMR Docker image



2023 SDMX Hackathon

Certificate of Award for

Best Solution

Team ***BISDMX***

Cristina Stefana Leonte
Pietro Patelli
Stephan Probst
Olivier Sirello

Co-Winner

SDMX Dashboard Generator (SDMX-DG) is an open-source Dash application that generates dynamic dashboards by pulling data and metadata from SDMX Rest API. It supports the version 2.1 of the standard. It leverages the open-source library SDMXthon to retrieve and parse data and metadata in SDMX. Data and metadata are supported by asynchronous retrieval. A dashboard is composed of several visualizations as defined by the specifications provided in a .yaml file. The specifications are interpreted by a ChartGenerator class containing instructions to define the Plotly charts.

2023 SDMX Hackathon

Certificate of Award for

Best Solution

Team *CaledoCoders*

Stanislas Ozier
Thomas Tilak

Co-Winner

A React application (with a splash of NextJS) to generate visualisation rich dashboards based on SDMX data sources pointed by YAML configuration files.

Introduction to Fusion Metadata Registry

Webinar

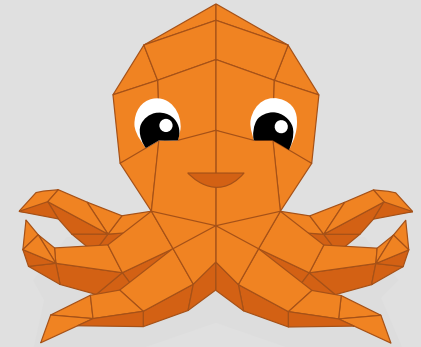
15 Nov 2023 | 13:30 – 15:00 CEST

Glenn Tice
BIS



FMR





<https://sdmx.io>

Thank you!

Brian.Buffett@bis.org

contact.sdmx.io@bis.org

