DBnomics

The world's economic database

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CEPREMAP

CENTRE POUR LA RECHERCHE ECONOMIQUE ET SES APPLICATIONS

The birth of the project

Originally a tool to improve data handling processes in macroeconomic research (complementary to Dynare), with three objectives:

- Simplifying retrieval of economic data
- Automatically providing updated data
- Allowing reproducible results

Increasingly, objectives go beyond academia:

- Public/Private Sector: economic indicators, panels, graphs, ...
- Journalism: data journalism, fact-checking, ...
- Civil society: professors, associations, bloggers, ...

Objectives

Create a free, open-source platform to aggregate publicly-available data series provided by national and international statistical institutions.

Value added: a unique economic database with wide, systematic coverage of economic data (70 million series at present)

Four important principles of the project:

- Data series are taken directly from providers and kept unchanged
- Data series are stored in a tree similar to the provider's
- Data series are automatically updated via provider-specific functions
- Archive system: each revision of the data series is archived

A free platform designed for every user

Why use it ?

- A website: https://db.nomics.world
  with different search tools depending on needs
- An API: https://api.db.nomics.world
  to easily access each data series from statistical software (R, Python, Julia, Octave, Matlab, LibreOffice Calc, Excel, SAS, Eviews, Stata)
- Free and Open source (GNU Affero General Public License) to allow the creation of a community

Providers already included

- BIS - Complete : 328,134 series
- ECB - Complete : 870,698 series
- Eurostat - Economy; population; labor : 60,741,121 series
- INSEE - BDM : 161,464 series
- IMF - Complete : 1,971,546 series
- ESRI - Japanese National Accounts : 1,585 series
- Fed - Board of Governors - Complete : 28,494 series
- OECD - MEI and EO : 84,306 series
- World Bank - GEM and WDI : 505,082 series
- BEA - NIPA and Fixed Assets : 33,458 series
- AMECO - Complete : 32,580 series

Plugins already included

Three available formats : SDMX; JSON; HTML
(API: https://api.db.nomics.world)

- Python plugin:
  https://git.nomics.world/dbnomics/dbnomics-connector-pandasdmx.py
- R plugin :
  https://git.nomics.world/dbnomics/dbnomics-connector-sdmx.R
- Matlab plugin :
  https://git.nomics.world/dbnomics/dbnomics-connector.m
- could be used also with Excel, LibreOffice Calc, and Eviews

Planning

Providers:

- Next step: Banque de France, China
- Planned: BLS, India, UN, ILO, Germany, Italy, Canada, Australia, Spain, Sweden, Belgium...

Plugins :

- Next step: Julia and Dynare interface.
- Planned: Octave, Stata, SAS

Technical details and contacts

- Website : https://db.nomics.world
- API REST : https://api.db.nomics.world
- Code : https://git.nomics.world/dbnomics
- Questions : https://forum.db.nomics.world
- Examples : https://macro.nomics.world