Who owns what: Investigating beneficial ownership using knowledge graphs

Stephen Abbott Pugh



Introduction

Four years as product owner of the Beneficial Ownership Data Standard, the world's leading open standard for structuring and exchanging high-quality beneficial ownership information.

Former head of technology at Open Ownership where I provided extensive support to governments, private sector companies and expert data users to understand beneficial ownership, use data and improve data quality.

More about my experience at <u>beneficialownership.co.uk</u>.





Ultimate beneficial ownership





A **beneficial owner** is the natural person who ultimately **owns** a legal person (e.g. a company) or arrangement (e.g. a trust), can **benefit** from its operations and profits, or **control** its activities









UNDERSTAND BENEFICIAL OWNERSHIP



Explaining relationships between people and entities



People

Information about the person(s) involved in an ownership or control relationship



Entities

Information about a legal person, arrangement or other corporate vehicle that people can own or control



Relationships

Information about the nature of the ownership or control



Policy and legal challenges relating to UBO data

- Fragmented landscape in terms of legislation, adoption, enforcement and definition of beneficial ownership in different jurisdictions
- 2022 CJEU ruling on beneficial ownership and privacy
- Shift towards legitimate interest not public access
- Exploitation of legal differences and loopholes
- Tax havens and secrecy jurisdictions
- USA defunding and undermining transparency reforms









Unknown beneficial ownership



Trusts

International rules from Financial Action Task Force, EU and OECD call for countries to collect information on a range of roles relating to trusts which may be held to constitute beneficial ownership:

- Settlor
- Protector(s) if any
- Trustee(s)
- Beneficiaries / class of beneficiaries
- Any other natural person exercising ultimate effective control over the trust





Nominee relationships

Nominees are people who act on behalf of others to carry out official roles or responsibilities.

While many have legitimate purposes, nominee arrangements constitute a "major vulnerability in the ongoing campaign to curb the use of untraceable shell companies in financial crime".

Nominators - not nominees - must be declared as beneficial owners.





Understand beneficial ownership





The Beneficial Ownership Data Standard (BODS)

- A global **framework** for structuring and exchanging high-quality, usable beneficial ownership information
- Allows for capturing of data on legal entities/arrangements, nominee relationships, full ownership networks and a wide range of interests relating to how people own, control or benefit from companies/trusts
- Range of **open-source tools** available to visualise, analyse and use data



standard.openownership.org



Explaining the BODS statement model

- Statements can be about a person, an entity or a relationship and each represents a claim made by a source at a point in time
- BODS aims to allow people to make sense of data received from multiple sources over extended periods of time
- Series of statements about the same person, entity or relationship linked over time using concept of a record and by a dedicated identifier (recordId)





Use beneficial ownership data





Beneficial ownership data helps...

- Improve trust in businesses
- Fight illicit financial flows and financial crime
- Support effective taxation
- Tackle procurement fraud
- Increase domestic resource mobilisation
- Enforce sanctions regimes
- Trace asset ownership back to people



Exploring register entries and company networks







Ownership networks to trace corporate responsibility



A 🛪 LANGUAGE 🗸

MENU 🗮

Home > Reports & Briefings > World's largest oil and gas plant owners hide billions of dollars in climate costs

 \equiv

World's largest oil and gas plant owners hide billions of dollars in climate costs

Section Navigation

🎝 Anna Mowat

iii November 2024

Saudi Electricity Company — the largest owner of gas-fired capacity in the world — did not disclose over 7 million tonnes of CO2 in 2022 through its chosen carbon reporting method, finds a new report from Global Energy Monitor about the failure of the world's largest oil and gas companies to properly account for their emissions.

For just five of the top companies owning oil- and gas-fired power plants, GEM found 10.7 million tonnes of hidden CO2 emissions for 2022. The <u>social cost</u> of this much carbon is \$2 billion in climate costs per year, or \$43 billion of the remaining lifetime climate cost of all hidden gas plants.



Risk-based analysis and insights from national data



20% of entities in UK register don't declared any individual people as beneficial owners

Some individuals appear as beneficial owners in hundreds or even thousands of entities

Around 20% of entities have declared more than one beneficial owner, with at least one individual holding multiple types of interests



Spotting risks using procurement and ownership data



Government Transparency Institute

Research Projects

Publications -

Using beneficial ownership data for large-scale risk assessment in public procurement. The example of 6 European countries

🛗 July 5, 2024 🛛 🗁 Working papers

Arista, Irene Tello; Fazekas, Mihály & Volkotrub, Antonina (2024), Using beneficial ownership data for large-scale risk assessment in public procurement. The example of 6 European countries. GTI-WP/2024:02, Budapest: Government Transparency Institute



Spotted sanctioned people/PEPs who own companies





Create high-quality knowledge graphs - Kuzu + Senzing





Interpreting + using beneficial ownership data as RDF

Metadata IRI https://vocab.openownership.org/terms Title Beneficial Ownership Data Standard v0.4 Description The RDF vocabulary for the Beneficial Ownership Data Standard v0.4

Beneficial Ownership Data Standard v0.4

Classes

A	dress Type ^c	
IF	https://vocab.openownership.org/terms#Add ressType	

Table of Contents

Metadata

Classes

Address Type Alternative addressAlternative name Appointment of board Beneficiary of a legal arrangement Birth name **Board chair** Board member **Business address Closed Record** Conditional rights granted by contract Control by legal framework Control via company rules or articles Enjoyment and use of assets Former name Interest Type Legal name Name Type New Record Nominator Nominee Official register Other influence or control Place of birth Primary research Protector **Registered address Residential address**





Uncovering beneficial ownership data





Public BODS datasets republished by Open Ownership

Datasets featuring more than 12m entities in standardised BODS format:

- <u>United Kingdom</u>
- <u>Denmark</u>
- <u>Slovakia</u>
- Latvia (historical)
- <u>Global Legal Entity Identifier</u> <u>Foundation</u> - parent/child company relationships





Places to get public beneficial ownership information

Europe

- <u>France</u> (legitimate interest)
- <u>Denmark</u> (legitimate interest soon)
- <u>Latvia</u> (historical)
- <u>Slovakia</u>
- <u>United Kingdom</u>
- <u>Norway</u> (legitimate interest)

International

- <u>Canada</u>
- <u>Nigeria</u>
- <u>ICIJ's Offshore Leaks</u> <u>database</u>
- <u>Armenia</u>
- <u>Botswana</u>
- <u>Indonesia</u>



Places to search corporate/beneficial ownership data

Free/open

- <u>OpenCorporates</u>
- <u>Global Legal Entity Identifier</u>
 <u>Foundation</u>
- OpenSanctions
- Global Energy Monitor
- Global Media Registry
- DARC Library



S open sanctions







