



LDDBC – State of the union

16th Technical User Community meeting
Oskar van Rest (Oracle)

*registered
in the UK*

The Linked Data Benchmark Council (LDBC) is a non-profit organization which aims to define standard benchmarks and foster a community around graph processing technologies.

*GQL and
SQL/PGQ
standards*

LDBC consists of members from both industry and academia, and is governed by a board of directors.

*regular &
sponsor
members*

*institutions,
individual members*

New members in the last 12 months

- Vesoft
- RelationalAI
- Beijing Volcano Engine Technology Co.
- Alibaba DAMO Academy
- Zhejiang Lab

Membership

23 organizations

- 3 sponsor companies, 17 regular companies, 3 academic institutions



Ant Group



Beijing Volcano Engine Technology Co.



Oracle Labs

Companies

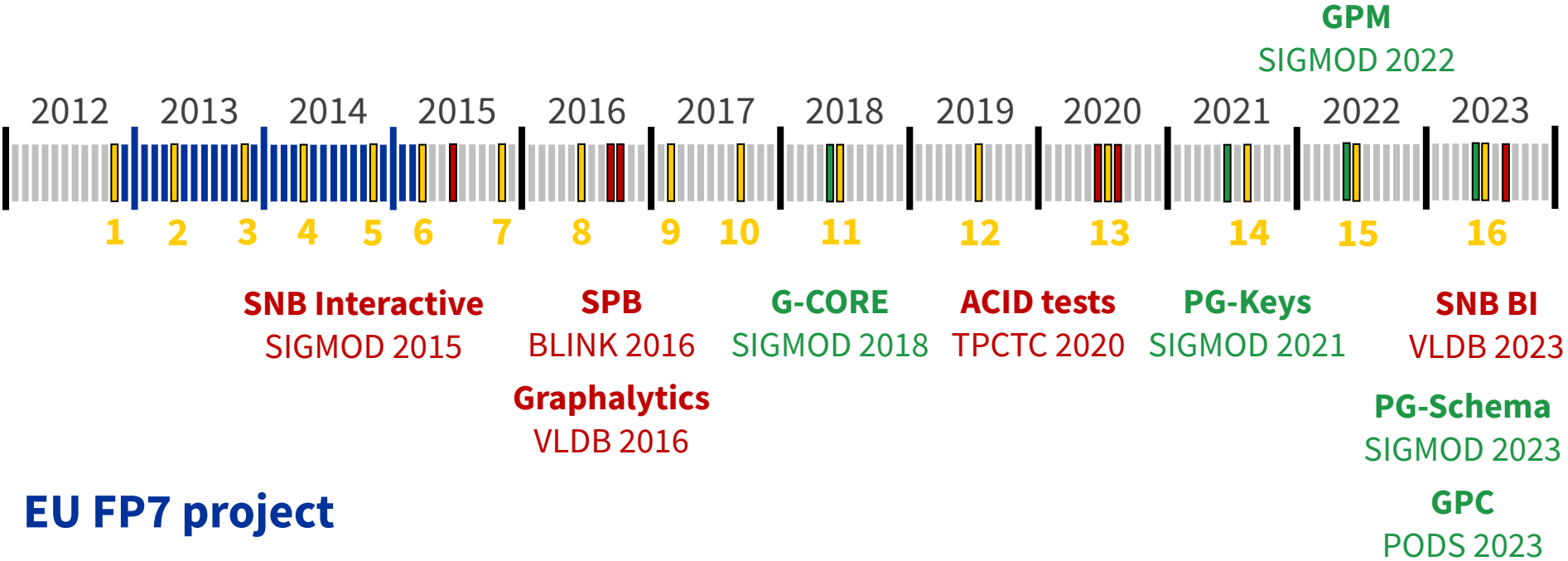


Institutions

Individual
members and
contributors:

65+

LDBC timeline



EU FP7 project

Benchmark papers | **Language/schema papers**

Technical User Community meetings

Organizational structure

Board of Directors

- Acting Chair: Oskar van Rest
- Vice-chair: Alastair Green
- Benchmark Expert: Shipeng Qi
- Advisor: Peter Boncz
- Advisor: Gábor Szárnyas



Company secretary &
treasurer:

Judy Bingham

Benchmark progress in the last 12 months

SNB Interactive 1.0¹

new audits: Ant Group TuGraph, OntoText GraphDB

SNB Interactive 2.0

most of the implementation work done

SNB Business Intelligence (BI) 1.0²

accepted as an official workload;
successful first audits conducted for TigerGraph

Financial Benchmark (FinBench)³

adopted as an official LDBC benchmark

¹LDBC SNB Interactive workload — <https://ldbcouncil.org/benchmarks/snb-interactive/>

²LDBC SNB Business Intelligence workload — <https://ldbcouncil.org/benchmarks/snb-bi/>

³LDBC Financial Benchmark (LDBC FinBench) — <https://ldbcouncil.org/benchmarks/finbench/>

Other progress in the last 12 months

Organizational restructuring

Steering Committee ⇒ Board of Directors
Board of Directors ⇒ Members Policy Council

Fair Use Policy¹

Clear set of rules for publishing audited vs. unaudited performance numbers

Extended GQL Schema (LEX) working group²

New working group focusing on schema language for property graphs

¹Fair Use Policy for LDBC Benchmarks® — <https://ldbpcouncil.org/benchmarks/fair-use-policies/>

²LDBC Extended GQL Schema (LEX) working group — <https://ldbpcouncil.org/benchmarks/fair-use-policies/>

New language standards

SQL/PGQ

extension to SQL

v1 published in June 1st, 2023

(part of SQL:2023)

<https://www.iso.org/standard/79473.html>

GQL

standalone language

v1 publication expected early 2024

<https://www.iso.org/standard/76120.html>

[Join LDBC](#) to get the draft standard documents.

Proposal for audits

The total cost of ownership of audited results includes *maintenance fees*

This is currently required to be enterprise grade with *24/7 availability with a 4h response time*

Proposal: allow systems without 24/7 support to be audited and report 3 tiers of support

	Enterprise	Standard	Community
Requirement	24/7 availability with 4h response time	Availability during business hours	Availability of some community support
Reported information	Cost for 3 years	Cost for 3 years	Open-source project, issue tracker, community forums, etc.

LDBC 

*The graph & RDF
benchmark reference*