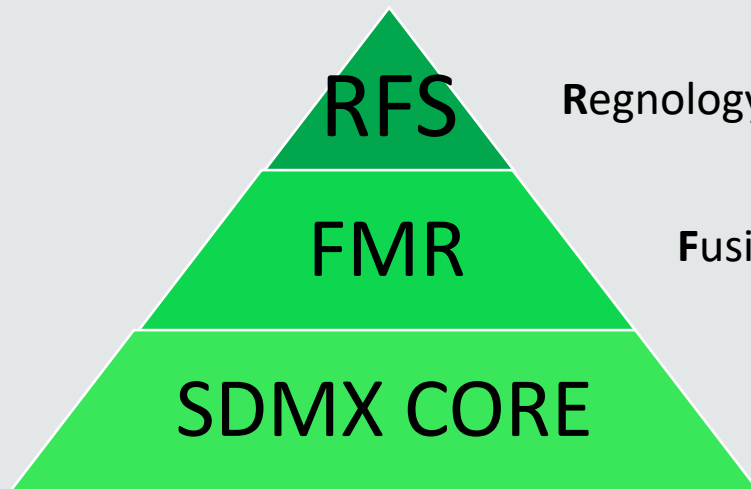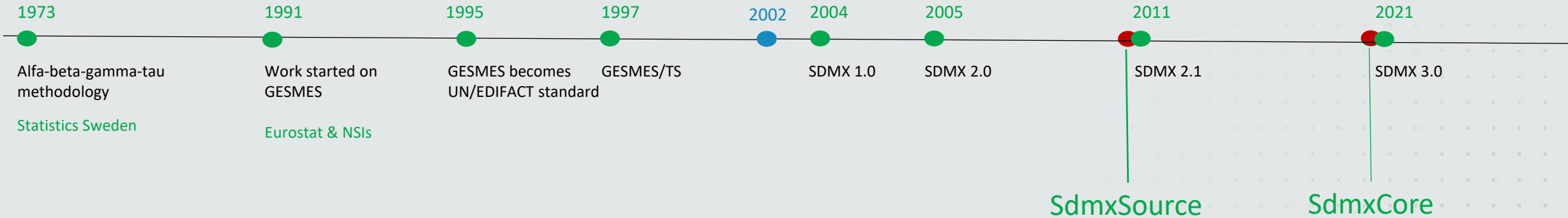# Leveraging open-source software & data standards as the backbone of your Open Data Strategy

IFC October 2023

Regnology

SDMX History and Open Source

The heads of the statistics organisations sponsoring the Statistical Data and Metadata eXchange (SDMX) met on 14 June 2002 to agree on concrete projects that will advance their joint initiative. The institutions and their respective constituencies favour open and effective international cooperation in maintaining and if necessary developing new e-standards for their data exchanges.

1973
Alfa-beta-gamma-tau methodology
Statistics Sweden

1991
Work started on GESMES
Eurostat & NSIs

1995
GESMES becomes UN/EDIFACT standard

1997
GESMES/TS

2002

2004
SDMX 1.0

2005
SDMX 2.0

2011
SDMX 2.1
SdmxSource

2021
SDMX 3.0
SdmxCore

RFS — **R**egnology **F**usion **S**tatistics – Commercial, extending functionality of FMR

FMR — **F**usion **M**etadata **R**egistry – Open Source, free

SDMX CORE — **SdmxCore** - Open-Source Java Software for SDMX

Business case for Open Source

- **Cost Saving** - free

- **Longevity** - reduce the risk

- **Control** – ability to make changes

- **Robust** – many eyes

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There is a strong business case for Open Source, but the decision must be a considered one

There are parallels between standards and open source; both can be used to reduce risk and protect investment

Both custom and commercial software can leverage open source. The relationship can be symbiotic, benefitting both parties

Open Data

What does good look like?

- **Discoverable** – to be able to find information

- **Accessible** – to be able to easily retrieve the information

- **Interoperable** – to be able to exchange and make use of information

- **Interpretable** – to be able to understand, interpret, and use the information for various purposes

URL API

what data do you have?

retrieve data for 'x' for time 'y'

retrieve supporting documents

Open Data Service

Open Data

How is this achieved?

- **Standards** – common framework and structure, consistent formatting

- **Software** – help foster the use of the standard

SDMX

what data do you have?

retrieve data for 'x' for time 'y'

retrieve supporting documents

Open Data Service

Regnology Fusion Statistics

Fusion Metadata Registry

sdmx.io