

# Decsis Experience with Big Data Standardization

Use Case: *Big Data Platform for External Data*

# Company

## DECSIS

*Est. 1994*

*Offices in Portugal and Spain*

*15M€ annual turnover*

*200 employees*

*12 R&D staff*



**1996**  
ISO 9001  
*First Portuguese IT  
company certified*



**2016**  
ISO 27001  
*Information  
security  
certification*



**2017**  
ISO 20000  
*Service  
management  
certification*

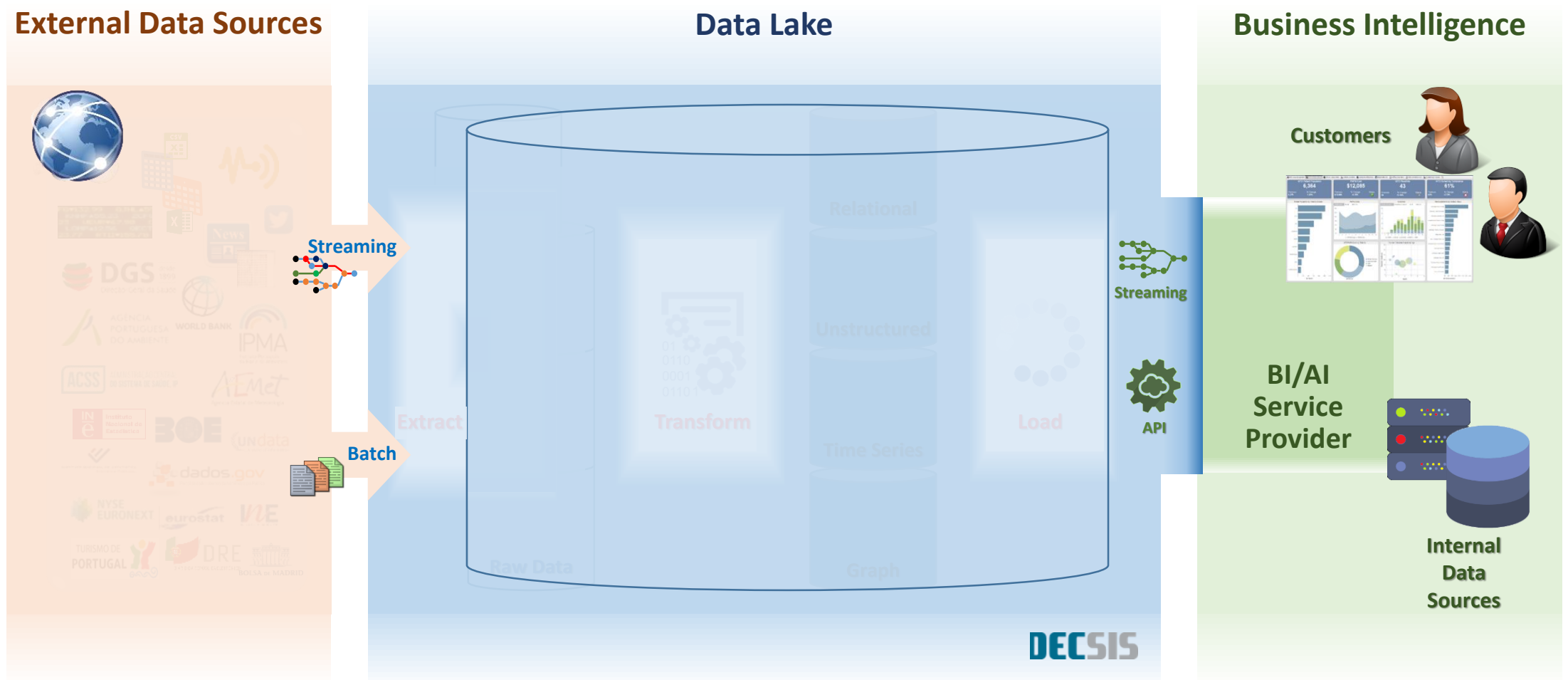
# 360° Intelligence

Internal  
Data  
Sources

External Data Sources



# Overview

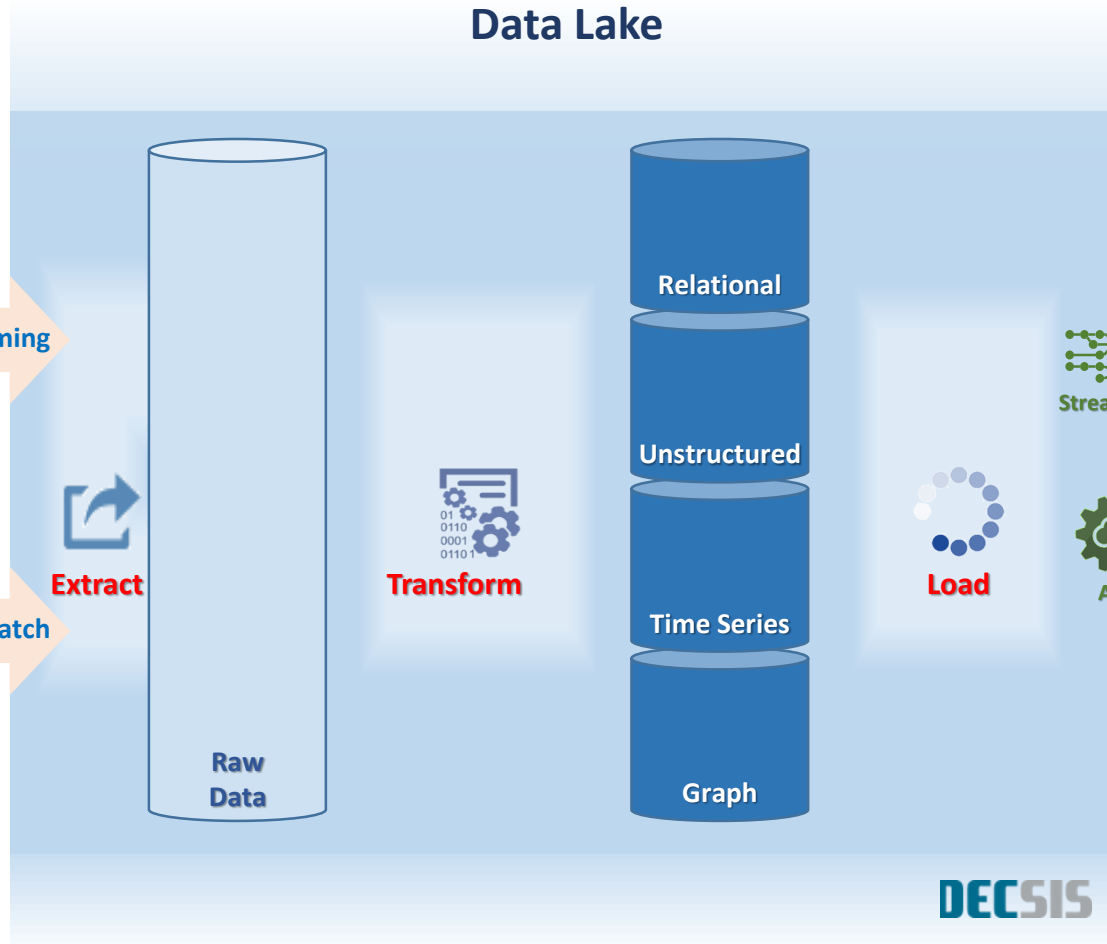


# Architecture

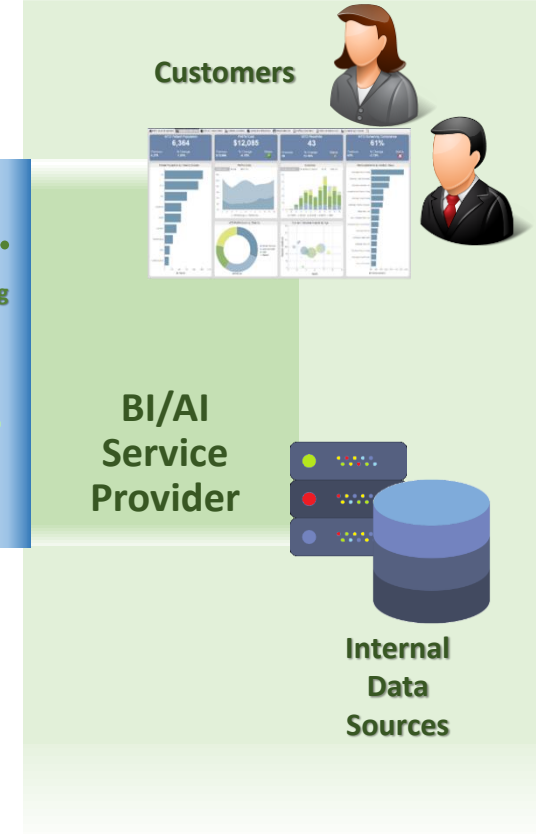
## External Data Sources



## Data Lake



## Business Intelligence



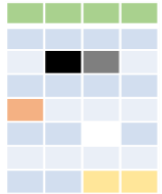
# Resultsets



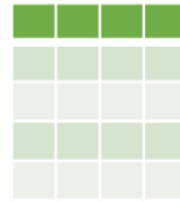
Structured

Semi-structured

Unstructured



**Transform**



## Simple

tabular, multidimensional  
no semantic or graph processing  
from one dataset



## Blended

tabular, multidimensional  
no semantic or graph processing  
from multiple datasets



## Complex

non-tabular  
semantic or graph processing  
from one or more datasets



Streaming

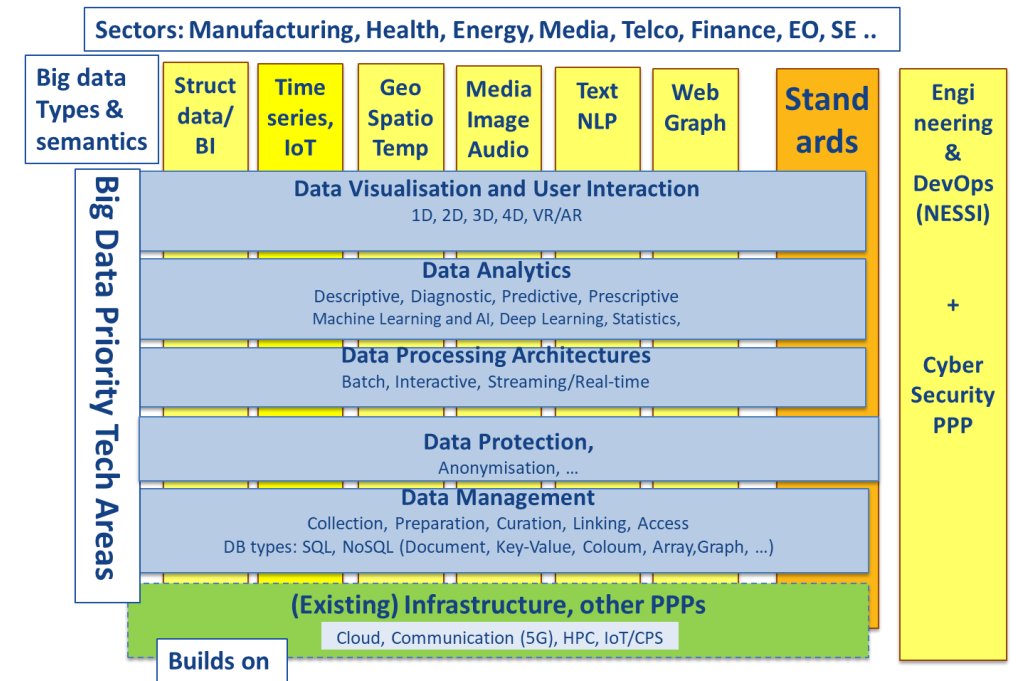
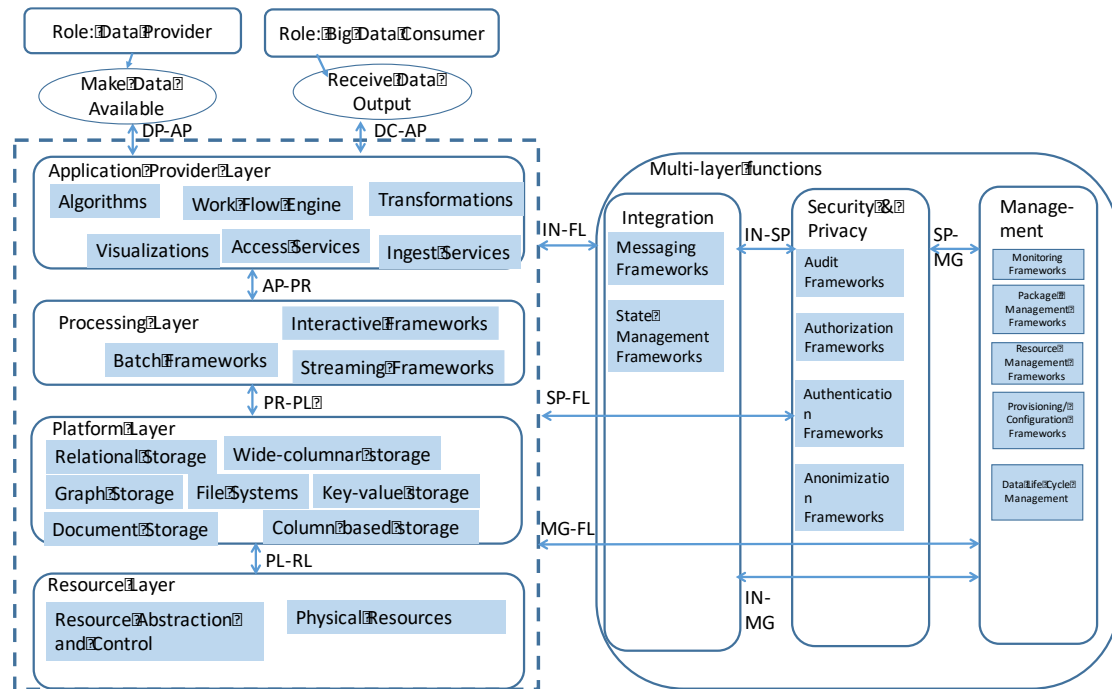


API

# Standards

## REFERENCE ARCHITECTURES

We took advantage of standard/industry reference architectures (ISO 20547-3, BDVA RA) for designing our own



## GAIA-X

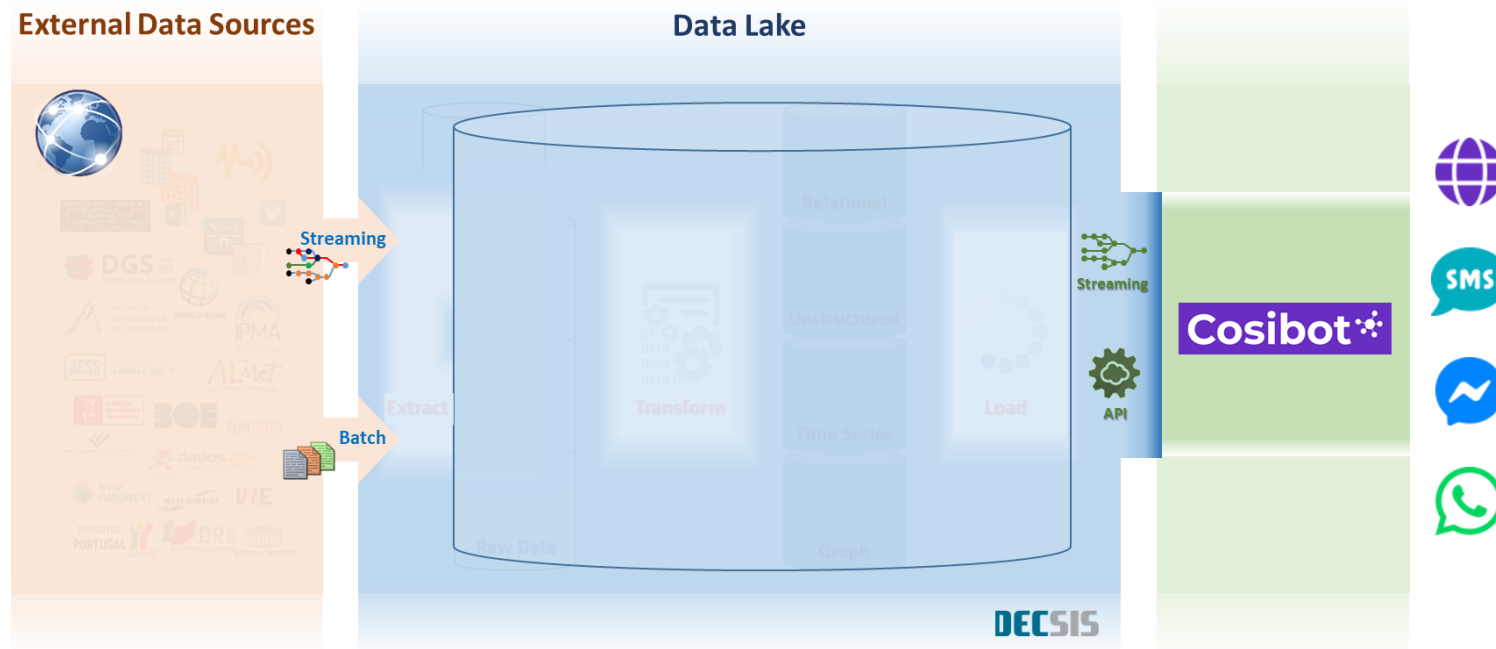
We're participating in WS2 of the GAIA-X project ([data-infrastructure.eu](https://data-infrastructure.eu)), where standardization for interoperability is a key factor

# Use Case



**Cosibot** is an omni-channel bot that informs about the COVID-19 pandemic, relying on quality data from trusted sources, using natural language processing for interacting with users in websites, SMS, Facebook, and WhatsApp

**Cosibot** is an initiative from German start-up **ROBO.AI** ([cosibot.org](https://cosibot.org))



**Cosibot** relies on Decsis for supplying reliable, pre-processed data, collected from trusted sources

Standard architecture and interfaces are key to interoperability between both systems

The logo for DECSIS, featuring the word "DECSIS" in a bold, white, sans-serif font. The letters "D", "E", "C", and "S" are white, while the "I" and "S" are a light blue color. The logo is positioned at the top center of the slide, above a network diagram of a globe.

DECSIS

The text "Thank You" is centered on the slide in a large, white, sans-serif font. It is positioned below the DECSIS logo and above the website URL. The background behind the text is a network diagram of a globe with blue lines and nodes.

Thank You

The website URL "www.decsis.eu" is centered at the bottom of the slide in a white, sans-serif font. It is positioned below the "Thank You" text and above the footer area. The background behind the text is a network diagram of a globe with blue lines and nodes.

[www.decsis.eu](http://www.decsis.eu)



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