SECURE DATA ACESS CENTER

Enabling researchers and data scientists to securely access sensitive data

PUBLIC INTEREST GROUP

A NON-PROFIT CONSORTIUM BRINGING TOGETHER:













(A)

PROCEDURE FOR GAINING ACCESS TO DATA



SECURE DATA ACESS CENTER

SECURE ACCESS TO SENSITIVE DATA

Secure bubble technology (*) is mainly used by researchers and data scientists to perform data analysis. More recently, with the implementation of GDPR and the various security standards set out by the CNIL (French National Commission regulating Data Protection), data is increasingly being used in secure and certified environments for data production.

There are multiple advantages of using secure cloud technology hosted in France:

- data security requirements are integrated, by design, in the architecture of secure bubbles.
- a secure environment designed for data science with a wide range of tools and services available and their associated packages, as well as adequate computing power suitable for processing large volumes of data.
- the ergonomic design of the secure bubbles is particularly adapted to the daily uses of data scientists with a complete virtual office enabling sharing and collaboration.

The architecture also secures remote work from home and facilitates exchanges between production managers and study and research managers in the same secure environment. It also facilitates collaboration with the world of academic research.

NUMBERS

400 data sources provided securely (see the complete list of available sources)

More than **1000 projects** managed and hosted

Nearly 800 secure data user organizations representing 3500 users since our creation

More than 400 referenced publications and communications (articles, book chapters, books, theses, reports, conference papers, etc.)

9/10 Users rate CASD

Source: 2021 Satisfaction Survey

"CASD is an example of the type of infrastructure for sensitive bealth data" — nature

COMPUTING POWER AND AI CPU, RAM, TERAOCTETS, GPGPU

—AI DATASCIENCE

CASD has developed infrastructures for data processing using Artificial Intelligence (AI) algorithms. This was implemented in 2017 as part of a partnership with BNP Paribas to optimize the management of their customers > https://www.margo-group.com/fr/actualite/salon-bigdata-retour-conference-bnp-paribas-retail-banking/

CASD now offers Tensorflow and GPGPU-based configurations for projects aiming to run deep learning algorithms on very detailed data which therefore also require a secure environment to improve the operation and accuracy of the models produced.

CASD proposes a service enabling it to be a reference infrastructure in French AI strategy presented to the European Commission to promote research and development > https://knowledge4policy.ec. europa.eu/ai-watch/france-aistrategy-report_en

"The environment provides a large number of tools and software associated with customizable computing power making it possible to process any type of analysis and algorithm"

Eric Debonnel, IT and Data Science Manager

R&D

user experience.

10 years of investment to optimize the security, reliability and ergonomic design of the system. Ongoing developments to improve

Software tools and Al

Python	ng python"
Tensorflow	Ŷ
R	R
Stata	stata
SAS	Sas
QGIS	QCIS
GIT	🔶 git
SciLab	Sci lab

"A bubble to protect data"

Le Monde

SECURITY AT THE CORE OF CASD ACTIVITIES

CERTIFICATIONS

Protection of personal data FR60212

Health data host

Approval from the health data security repository

Data processing authorization 2014-369

DATACENTERS

Sovereign hosting in Île-de-France in 2 high security datacenters

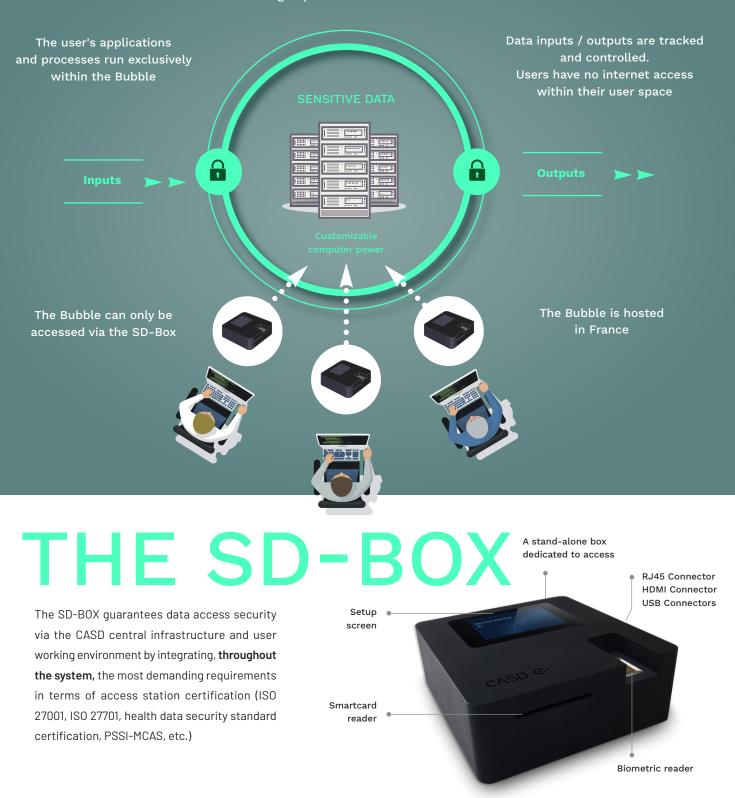




THE TECHNOLOGY

THE BUBBLE

The Bubble is a **complete turnkey Datalab**, with sufficient power and reference software in a familiar environment, forming a tightly sealed group of secure servers



"CASD. a single entry point to a large number of data producers'



"The center (CASD) bolds information. including tax and medical data"

The New York Times

EXAMPLES OF DATA SOURCES HOSTED BY CASD

THE DATA

Insee

Individual & Household data RP / BDF / CVS / DADS / EECa

Company Data EAP / ESS / EAE / DADS

Department of Labor

MMO RESPONSE AGREEMENTS

Tax data

FARE FICUS LIFI IR

Interior

Integrating new entries

Justice

Criminal record

Cassiopée (Application Chain Supporting the Information System on Criminal Procedure and Children)

Social data

ACOSS and CNAF

BPI

Innovation

Health

SNDS

PMSI

CONSTANCES

Private data

BNP Paribas RTE Generali





EXEMPLES OF USER ORGANIZATIONS

Insee

Court of Auditors

Department of Health & Solidarity

Generali

French Department for Ecological Transition

Bpifrance

General Inspectorate of Finance

Department of Higher Education, Research and Innovation

French Assemblée Nationale

Collège de France

Department of Justice

Vidal

BNP Paribas

RTE

Edenred

Constances cohort

Department for the Economy, Finance & Recovery

Institut Curie

Inserm

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