CONSTANTIN • SERVAL & ASSOCIÉS

CERTIFIED PUBLIC ACCOUNTANTS AND ADVISORS

HTDA

HIGH TECH DATA AUDIT

LOGICIEL INTELLIGENT POUR L'AUDIT

# Audit As A Service

Presentation at Forum of Firms – 7 December 2017 – Florian Quinquis

# SUMMARY

I. Principle
II. “AAAS” Audit as a service
III. Mission - Core Team
IV. Platform
V. Example of POC : work in progress
VI. Questions

# PRINCIPLE

- Process based on collection of all or part of the data for each operation in the system.
- Collection by origin, type, date and all necessary information for processing the data.
  - For every operation, date & chronology are recorded.

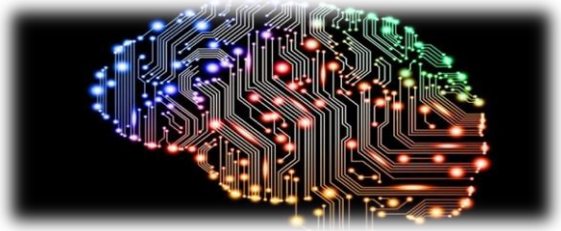
- Chronological and temporal grids.
- Single, cumulative and balanced volumetric grids.
- External grids:
  - Location, weight, nomenclatures, identification

- An operating system for checking by reconciliation.
  - Automatic, dynamic

# PRINCIPLE

- More than a simple cube
- A multidimensional approach with :
  - Enterprise process
  - Staff
  - Date & Time recorded and real process
  - Value

- Based on AI and Machine Learning mechanism



# MISSIONS & CORE TEAM

- *HTDA offers a new way of auditing based on the incredible progress of technology*
  - Real Time data collection with API & ETL; Open Source Data; AI to explore, aggregate and analyse data; Very high volume of data manipulated)

- **Jean François Serval**: A visionary in the state of the art of audit (Constantin, Groupe Audit, …) and a new approach of the audit (combination of humans and technology),governance committee.

- **Philippe Coup-Jambet:** A Serial web entrepreneur in software and web(PayTop, Tekora, ISO, Andyne) with competences in FinTech, Business Intelligence, ETL, Datamining, Platform Saas.

- A Scientific committee, Strategic committee and Partnerships with Labex-Refi Sorbonne, Stony Brook.

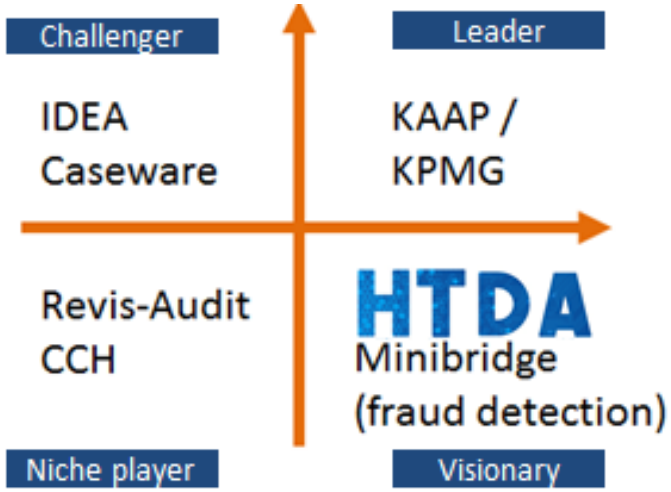
- A team of experts in ETL / Datatake / Big Data / BI / Mathematics / Data Scientist

# HTDA : The first « AAAS » platform ?
# Audit As A Service

- AAAS is based on a highly secured platform autonomously usable by corporates and auditors.
- API / ETL allow the real-time collection and processing of transactions data as well as their evolutions (creation, modification, removal) over time.
- AI and Machine Learning make possible the processing of high volumes of data and software generated control regulations.
- A high Level of security to protect data , access to the data lake and the HTDA engine.

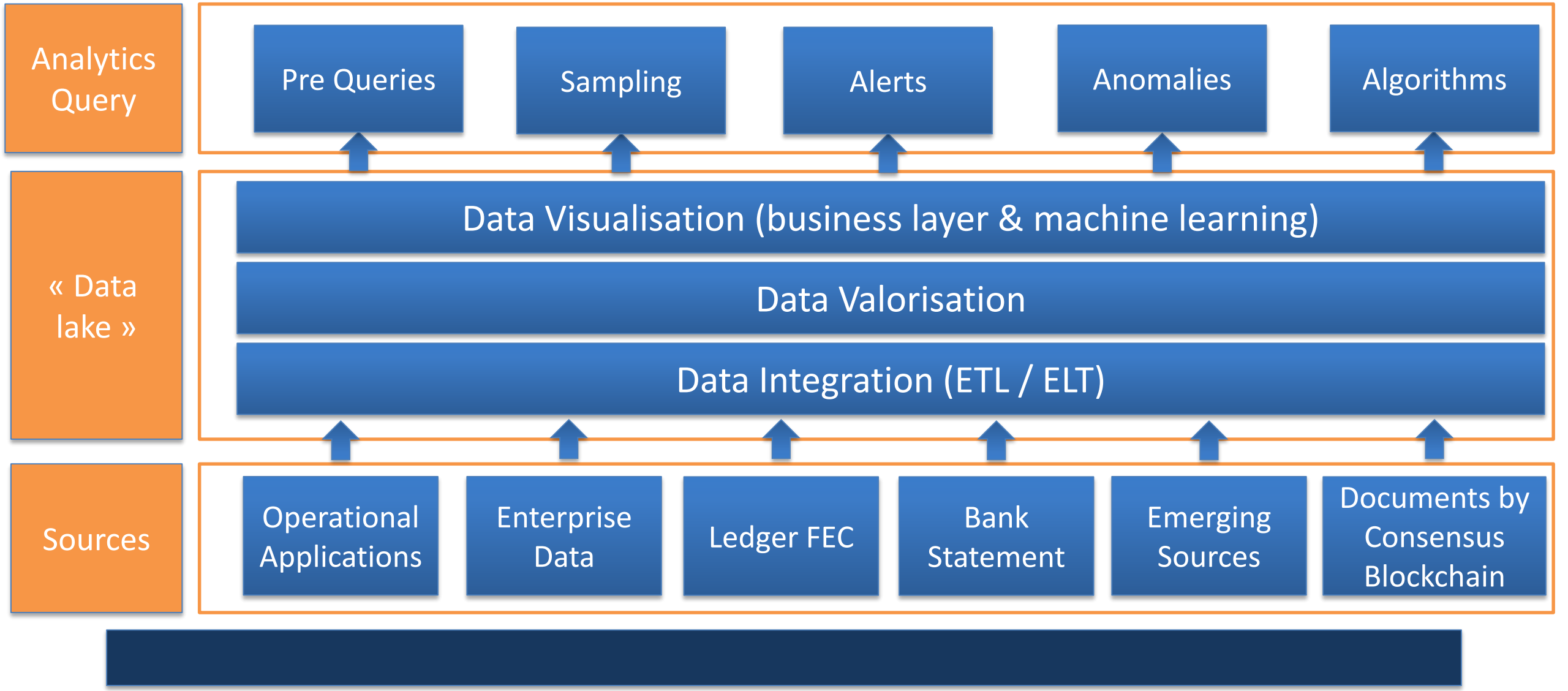
# HTDA : The first « AAAS » platform ?
# Audit As A Service

- Audit tools benchmarking :

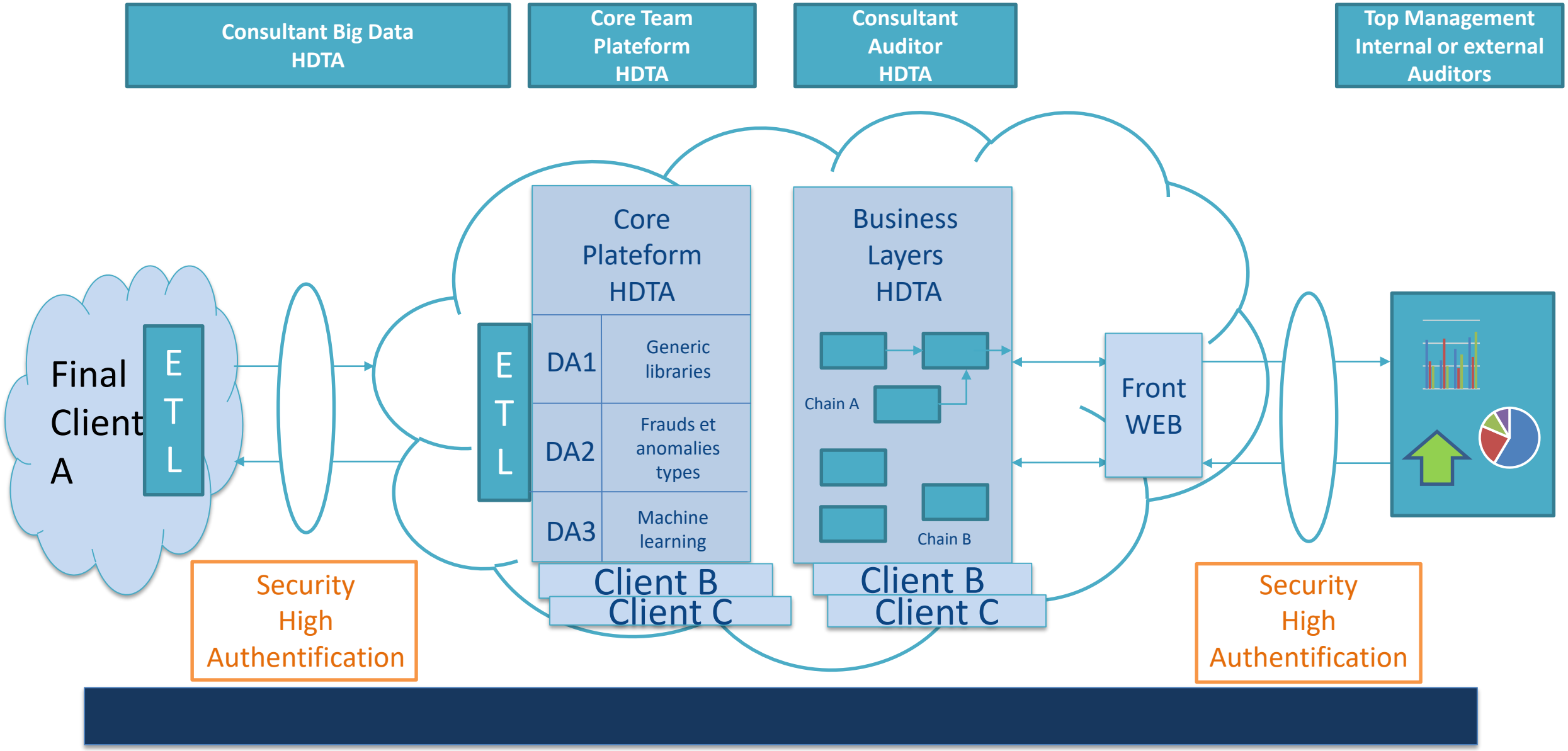



- HTDA offers advanced features such as:
  - real time surveillance;
  - detection of known and unknown fraud and anomalies through Machine Learning;
  - detecting rare activity sequences using Markov Modeling;
  - reduce false alarms using fraud scoring.

# Architecture & Real Time Platform



# A Multi-Roles Platform



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# THANK YOU FOR YOUR ATTENTION

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