

# 2026 Product/IT Roadmap

January 26



# 2025 Product/IT Retrospective

The year 2025 was the year of **profound restructuring** of our entire technical base to be able to attack our 2026 projects on a **solid basis**.

## The 12 Labors of Hercules: Key IT Roadmap Initiatives

- ✓ Migration from Azure to a **scalable 100% Kubernetes AWS** infrastructure (staring our partner at Deloitte).
- ✓ Complete rethink and rewrite of the "**Data Forge**" pipelines for **high performance** daily data processing.
- ✓ Increase our skills in **MLOps industrialization by** development and release of the new **COA model, PICOS,...**
- ✓ Improvement of **Product Design** methodology to deliver **Clinical Landscape** Analysis and prototype the **BRA platform** – with externalised Design and Web dev

# 2025 Product/IT Retrospective

The formation of a **fully multidisciplinary team**, now prepared to address upcoming technical challenges, was completed in **2025**

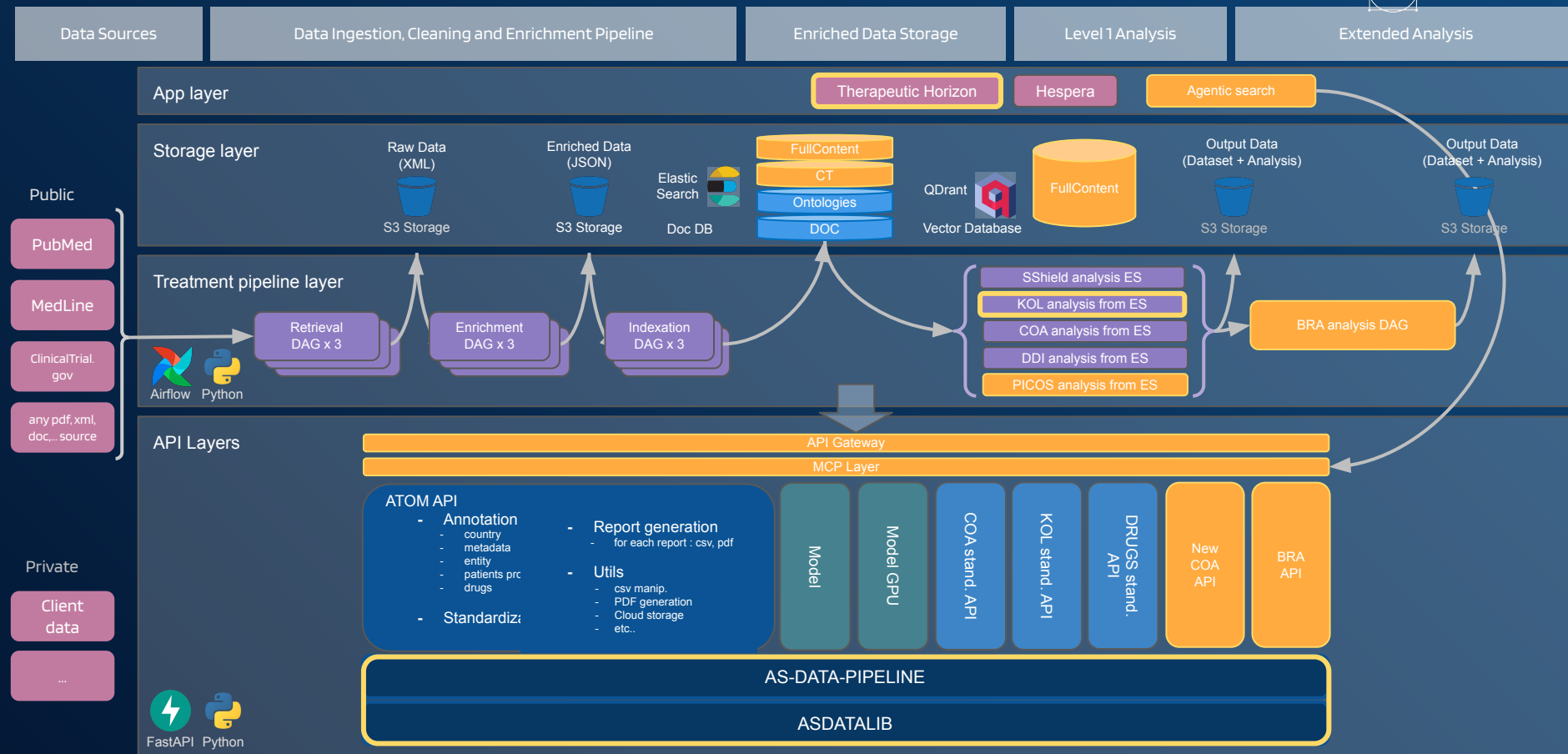
## IT Core team:

- Product Team : **Charbel, Clarisse**
- AI/ML Team : **Natalia, Praise, Dimitri**
- Lead Data Engineer : **Anne-Cécile**
- Lead Full Stack Web : **Fayez**
- Lead DevOps : **Ons**

## External help:

- Product Design : **Michael**
- Dataviz Design : **Silvia**
- DevoPS : **Deloitte**
- Web Development : **The Software House**
- Medical annotators :

# Software architecture (current and future)



# 2026 Product/IT Goal & Challenges

Our primary objective for 2026

is the successful **delivery of the web-based BRA platform**

this while maintaining significant **R&D capacity** for the future initiatives

## **The main challenges we are facing**

- **Fast Time to Market (FTTM):** Deliver a basic but functional initial version of the platform in **Q1**.
- **Continuous delivery** to propose a full product before the end of the year

# Solutions & Risks

## Strategy to Tackle the Challenge

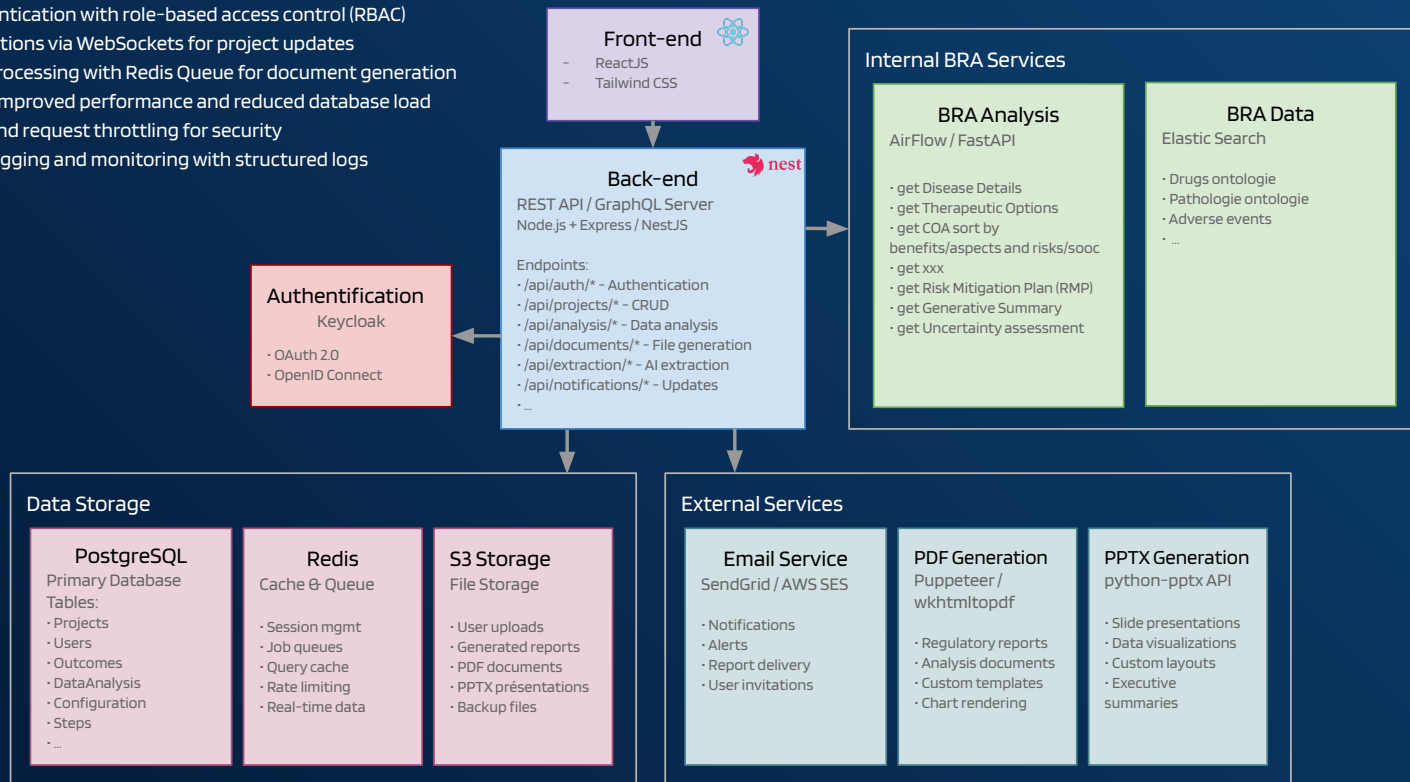
- **Increase resources**
  - Integrate **external resources** to assist with the development phase.
  - Ensure **coordinated** effort across all simultaneous development teams.
- **Adopt a versatile and evolutive architecture**
  - Design a platform capable of **seamless, incremental upgrades** to core elements.
  - Implement a **phased** approach for treatment ( fake > semi-automated > fully automated).
- **Reduce workload**
  - **Leverage** the prototype interface components developed by Lovable.app.
  - Utilize **AI-generated code** for non-strategic components.

## Identify Risks

- **Team coordination:** Coordinate the work of all the teams that will be involved simultaneously
- **AI/ML new treatment** ready in time with right level of quality

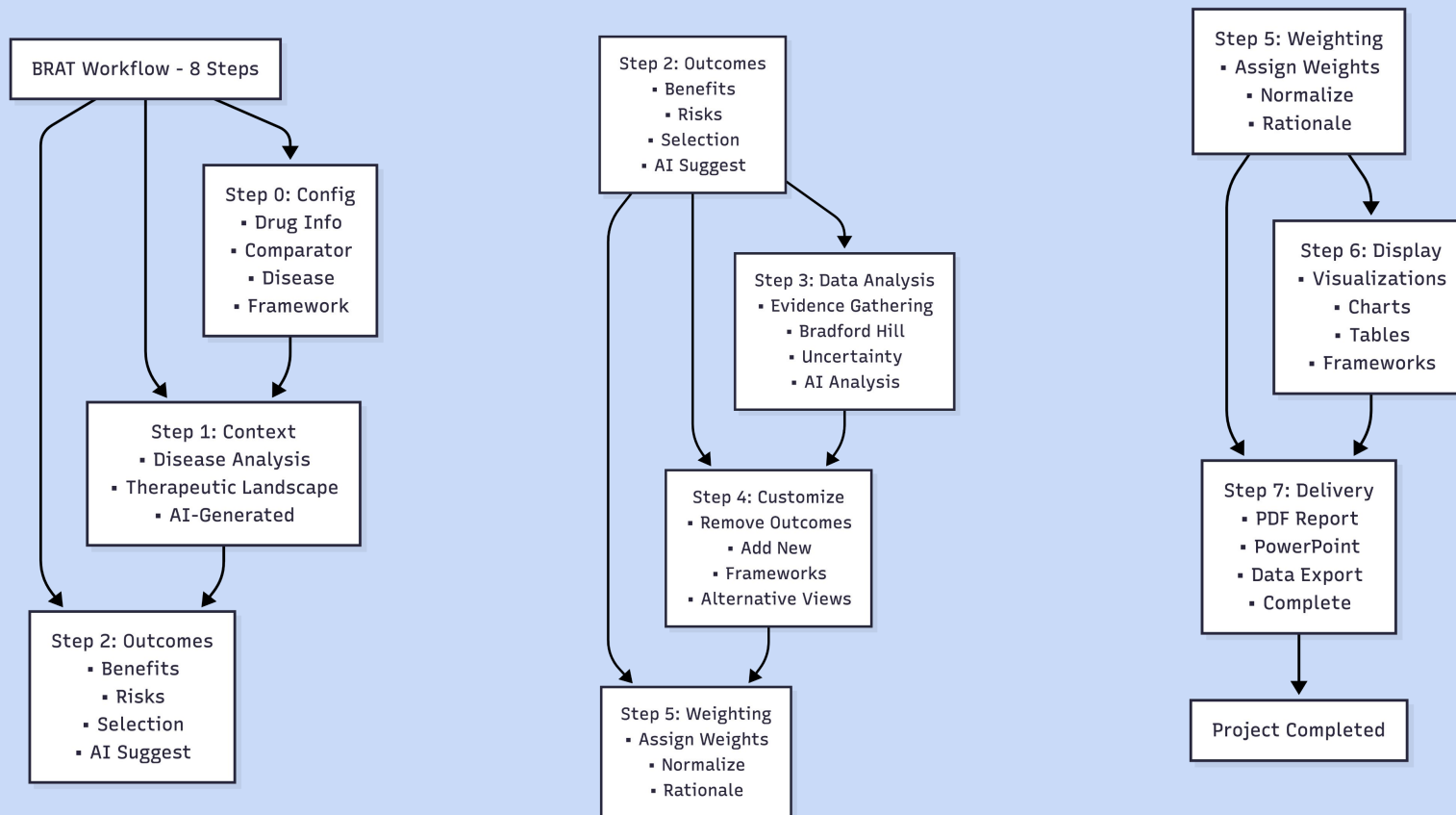
# BRA Platform Global Architecture

- RESTful API architecture with versioning support
- JWT-based authentication with role-based access control (RBAC)
- Real-time notifications via WebSockets for project updates
- Background job processing with Redis Queue for document generation
- Caching layer for improved performance and reduced database load
- API rate limiting and request throttling for security
- Comprehensive logging and monitoring with structured logs



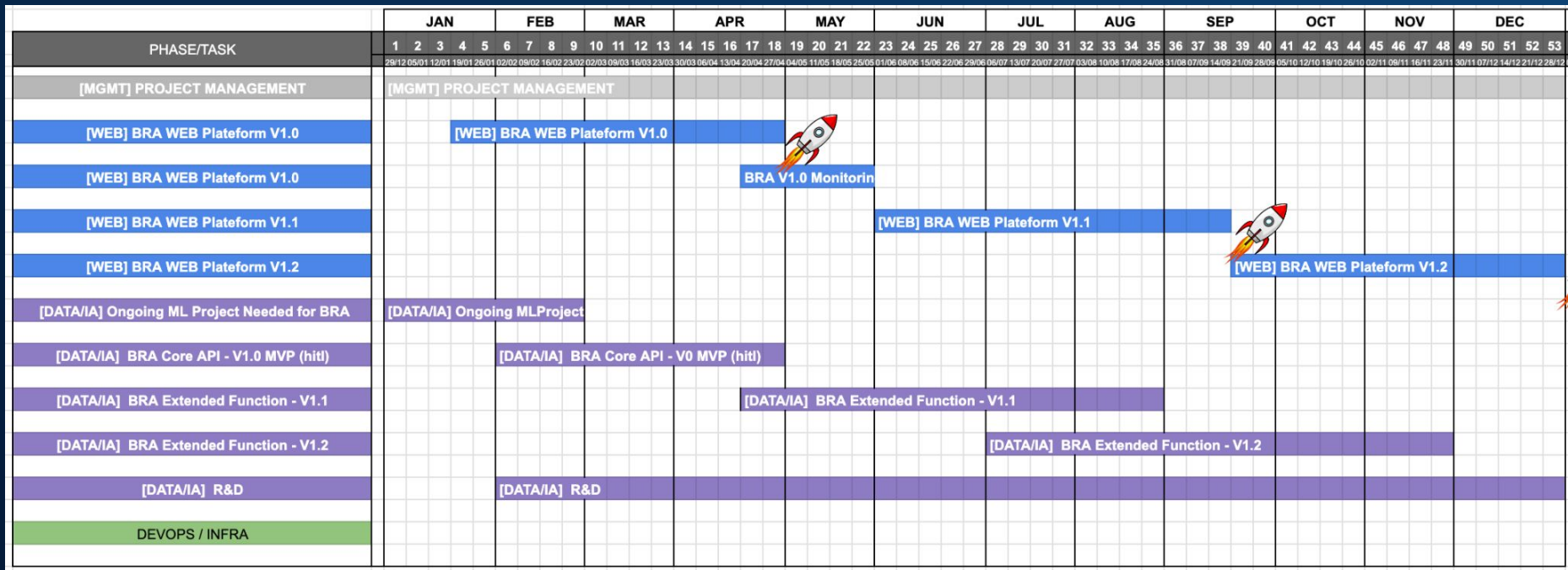


# BRAT framework Steps

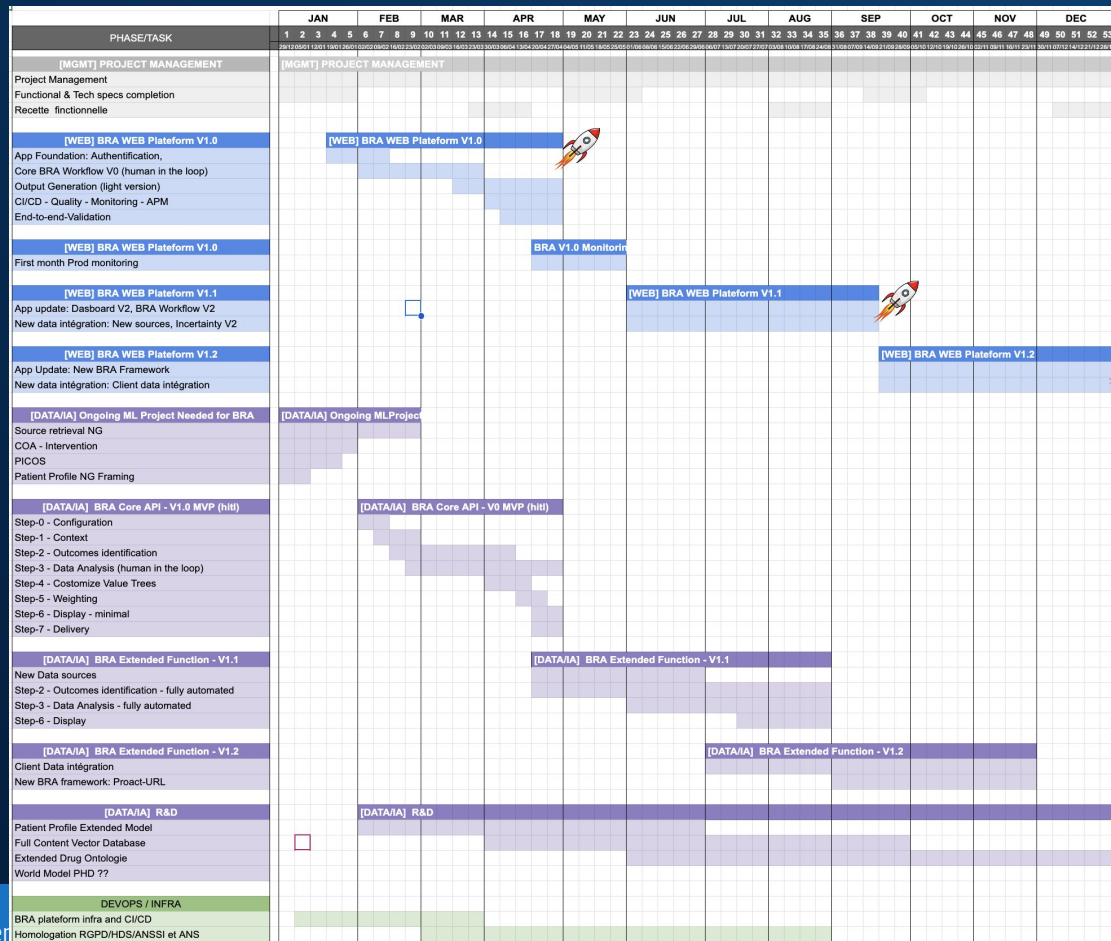




# BRA Platform Global planning



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# More resources

BRA SaaS – Technical Assessment V1.0 (MVP)

[https://docs.google.com/presentation/d/1HUXHti\\_Jy84fLCcmjYociu8yX8xAYVw3jfcw9vOLPo/edit?usp=sharing](https://docs.google.com/presentation/d/1HUXHti_Jy84fLCcmjYociu8yX8xAYVw3jfcw9vOLPo/edit?usp=sharing)

AS – BRA SaaS – Workload / Planning / Data/ML work

[https://docs.google.com/spreadsheets/d/19XfbxIOwSpdxaikaOC\\_V8i2wMOIQto0\\_p9H\\_a0\\_zleg/edit?usp=sharing](https://docs.google.com/spreadsheets/d/19XfbxIOwSpdxaikaOC_V8i2wMOIQto0_p9H_a0_zleg/edit?usp=sharing)