

Senior Data Project Manager

Technical-functional data project expert

Philippe

Key Takeaways

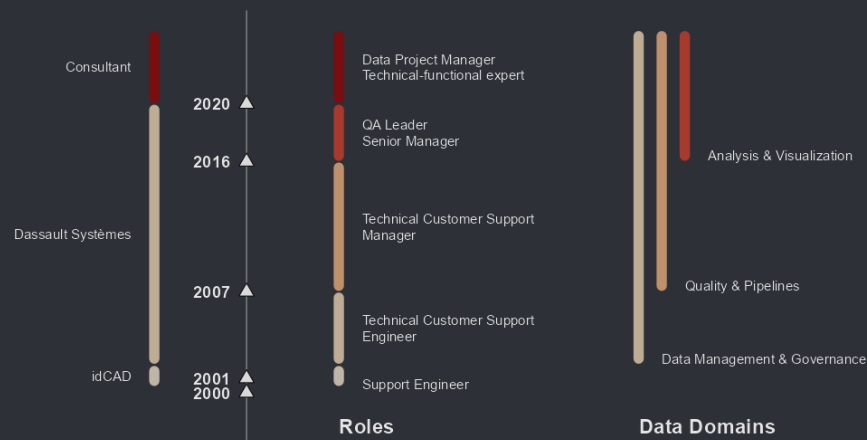
One-page profile summary

Presentation

Since 2001, it has always been about data projects and technical-functional roles:
From Data Management, then Data Exchanges & Transformation to Data Analysis & Visualization

I enjoy working with complex data pipelines & carefully designed dashboards.

Career path (20+ XP)



Data Expertise

- Management & Governance
- Quality
- Pipelines & Transformation
- Analysis & Visualization

Key stack

- R / Python
- SQL

Key tools

- Power.BI
- Data Galaxy

Specific skills

- Collect & advocate business needs
- Full-Stack data approach
- Speak same language as tech. teams
- Problem solver

Latest training

- Generative AI with LLMs

Specific domains

- Transportation & logistic
- CSR

Certifications & Degrees

- Data Science & Machine Learning
- Automotive Engineer (ESTACA)

Team management

- 35 people

Languages

- French (native)
- English (fluent)

CSR Data Project Manager

GEODIS / Oct.2022 - 2023

Within the Corporate Digital & Technology organization and dedicated to the strategic CSR activities of the CO₂ emission calculation & Science Based Target Initiative.

CSR Logistic Datalake Dashboard

Mission & Responsibilities

Functional

- Support CSR & Business Teams with the technical usage of the APIs
- Monitor data flow & CO₂ emission calculation infrastructure
- Capture technical needs linked to emission calculation (ex: low carbon offers)
- Follow-up meetings with the teams & external suppliers

Project Management

- Capture the CO₂ calculation flow into the Datalake
- Deliver a dashboard to monitor the quality of the CO₂ computations
- Define and implement a common architecture of the CO₂ calculation services
- Build roadmap & budget, manage priorities, organize steering committees, workshops

Data & Analysis

- Act as a proxy Data Owner, on behalf of the CSR Organization
- Develop Datalake ingestion validation script
- Perform data analysis to support the businesses and CSR teams
- Participate to governance Data Catalog initiative

Specificities

- 24 x 7 x 365 data flow
- High management attention (comex)

Key figures

56M CO₂ calculations / year 5 lines of Business
4 regions 10 systems connected
4 computation streams

Stack & tools

Cloudera HIVE SQL Porwer.BI Azure API
R Data Galaxy EcoTransIT

Deliverables

Datalake & Dashboard

- CSR Datalake (100k to 300k ingestions daily)
- CSR Data Quality Dashboard (errors & anomalies)

Architecture & Tools

- Target Architecture (REST API Portal)
- 2 Tools (Service monitoring, Carbon Compensation Cost)
- 1 API (low carbon offers support)

Data Analysis & Governance

- Shipment calculation flow analysis (800k dataset)
- Data lineage in Data Galaxy

Technical Data Expert

Freelance / Since 2020

As a freelance worker, to maintain a transversal data knowledge that can support both functional & technical sides of complex data projects.

data quality data analysis data visualization

Mission & Responsibilities

Coaching & Training

- Mentorship @OpenClassrooms on the Data Analyst program
- Support students with projects & exams
- Advocate data culture within business organizations

Data pipelines

- Automate data pipelines (collection, cleaning & transformation)
- Design & develop APIs

Tools & Dashboards

- Produce data analysis & visualizations
- Design & develop tools (Dashboards, Maps, Web apps)
- Develop R packages

Specificities

- R / Shiny expert
- Full-Stack data approach

Key figures

9.8K visits on data.gouv.fr 1 graduated student
40 GitHub repos.

Stack & tools

R Shiny Python SQL Docker GCP
AWS

Deliverables

GEODIS

- Datalake validation scripts
- Monitoring tool (webapp)
- CO₂ computation flow analysis

Tools & Apps

- Election data visualization tool
- ML monitoring dashboard

R Package

- Tabular data management framework
- Admin console, demo apps

QA Leader & Transition Manager

Dassault Systèmes / 2016 - 2019

Within the R&D organization, as a QA Leader for Data Management & Exchanges products and Team Manager.

Data Management Data Exchange Quality Transformation

Mission & Responsibilities

QA Leader

- Be responsible for the quality of Data Management & Exchanges products
- Build and deploy strategies to solve critical program convergence
- Implement decision support tools to anticipate program drift
- Plan and deploy test automation strategy (DevOps)

Team Transformation

- Transform mission & roles inside the team (to prepare for automation)
- Career development (delegate, coach on communication)
- Turn team & network culture towards a proactive approach

Data Project

- Analyze root causes why objectives and expectations were not met
- Build and deploy a complete change of strategy
- Setup a communication process to build support for the project

Specificities

- Team management
- Transformation

Key figures

35 people organization 5 data products

Stack & tools

ENOVIA BI Python SQL Sikuli

Deliverables

QA Leader

- Product & data quality assessments
- GO/NOGO for product delivery

Team & Operations

- 2 Dashboards (Testers / Managers)
- Methodology and KPIs to detect activity drift

Automation

- QA test automation framework

Technical Support (Engineer, then Manager)

Dassault Systèmes / 2002 - 2015

Within the R&D Technical Customer Support, dedicated to Data Management (as an Engineer), then Data Transition & Exchanges products (as a Manager) and assigned to production deployment projects.

Data Management Data Quality Data Exchange Deployment

Mission & Responsibilities

Functional

- Create customer references
- Participate in customer workshops to collect business needs
- Manage backlog to ensure technical convergence
- Participate, then lead a transversal task force to drive product convergence efforts

Project & Deployment

- Participate, then lead follow-up meetings (internal and client)
- Manage customer critical situations
- Build convergence & recovery plans
- Advocate customer & user views to the development teams

Data Management

- Implement data extraction, preparation & processing (transfer & migration)
- Setup data processing strategies
- Ensure data quality & lifecycle
- Analyze and improve performances of the data pipelines

Specificities

- Product convergence
- High management attention (comex)

Key figures

7 years as Engineer 7 years as Manager

Stack & tools

ENOVIA Oracle SQL

Deliverables

Products

- Technical convergence (maturity)
- Documentation of best practices

Data Exchanges

- 3 references (Alstom, Claas, Miele)
- Annual dashboard (areas for improvement)

Data Management

- 1 reference customer (BMW)
- Weekly code delivery