




Weather Storytelling with Metabase

“When the Heat Rises, the City Suffocates”


Team: [Ibrahima AW, Badr-Eddine
Fetchali]

1. Context & Objectives




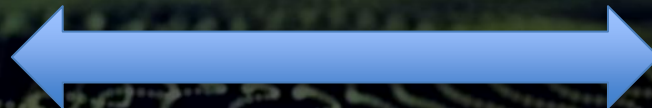
 Climate change increases heatwave frequency.



 Paris is vulnerable to extreme summer temperatures.



 Objectives:



Study evolution of summer Tmax averages



Raise awareness on urban vulnerability



Analyze number of days $>35^{\circ}\text{C}$ per year

2. Technical Approach

 Data: Météo France (CSV)

 Preprocessing: Python (Pandas) → Clean CSV

 PostgreSQL database (Docker container)

 Dashboard: Metabase connected to PostgreSQL

 Docker: Used for PostgreSQL + Metabase

3. Dashboard Overview



Line Chart: Avg Summer Tmax per year



Bar Chart: # Days $>35^{\circ}\text{C}$ by year



Insight Card: Most extreme year



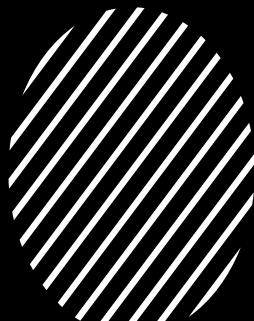
Filter: Select Year Range



Clear • Interactive • Relevant



4. Data Storytelling & Analysis



Heat intensifies over time (2010–2023)



2022 & 2023: 15+ days $>35^{\circ}\text{C}$



2003: Historical heatwave



Health risks, energy demand, infrastructure strain



Future: Up to 30+ extreme heat days by 2050



À partir de Évolution de la température moyenne estivale

Rechercher

+ Nouveau



Météo France / Températures Paris

Filtre

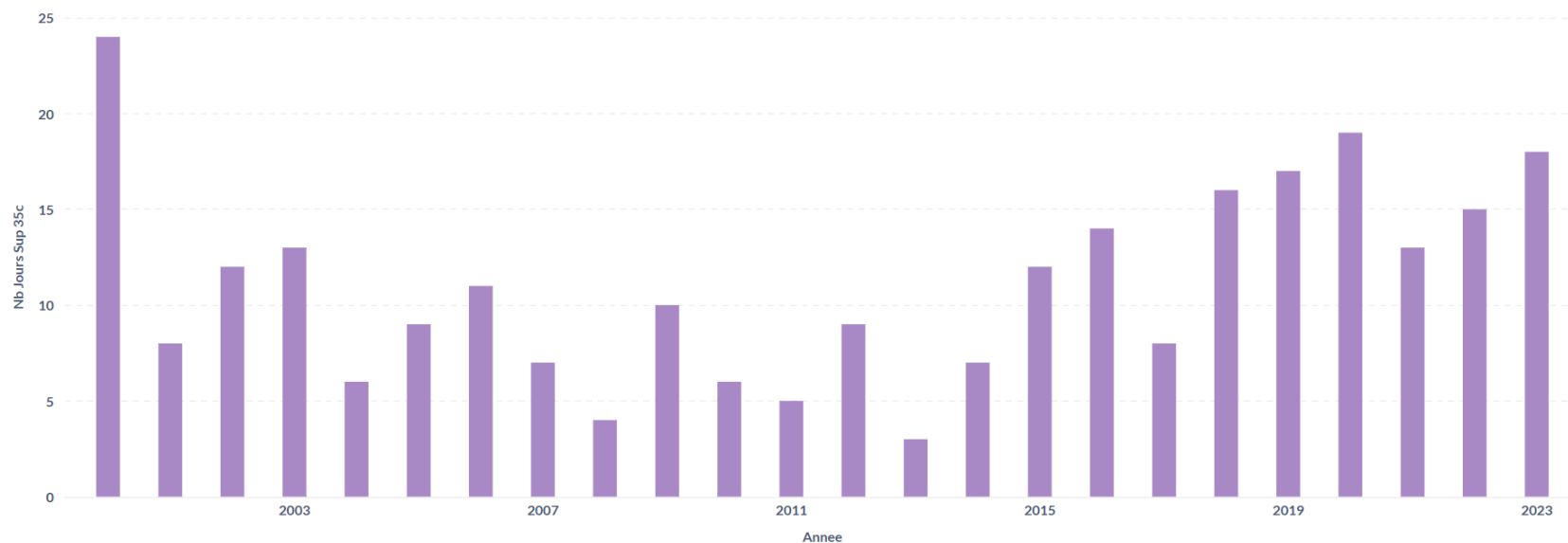
Σ Résumer

Editeur



Sauvegarder

Nb Jours Sup 35c Moyenne Ete Tmax



Visualisation



Affichage de 24 lignes

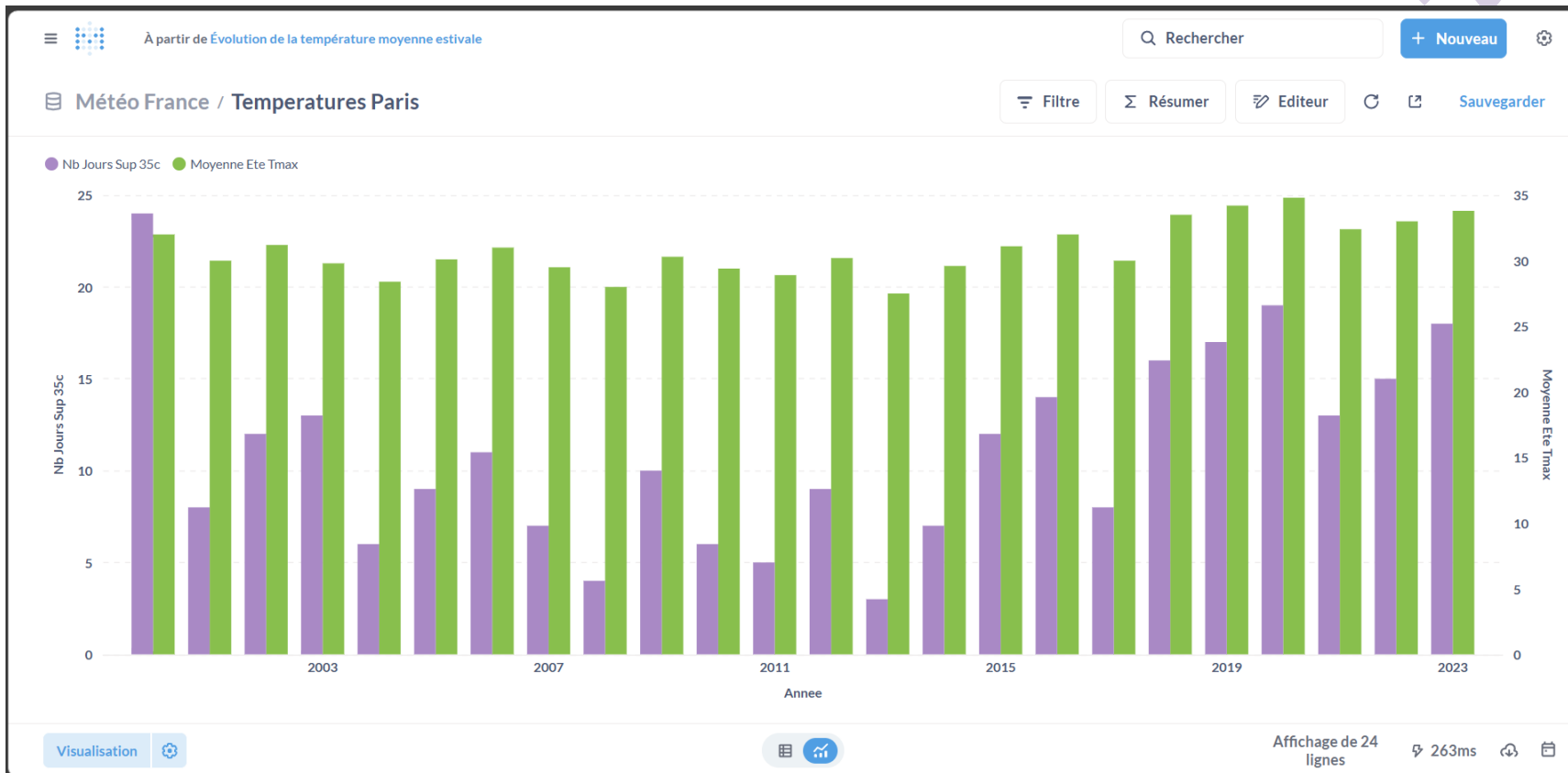
263ms



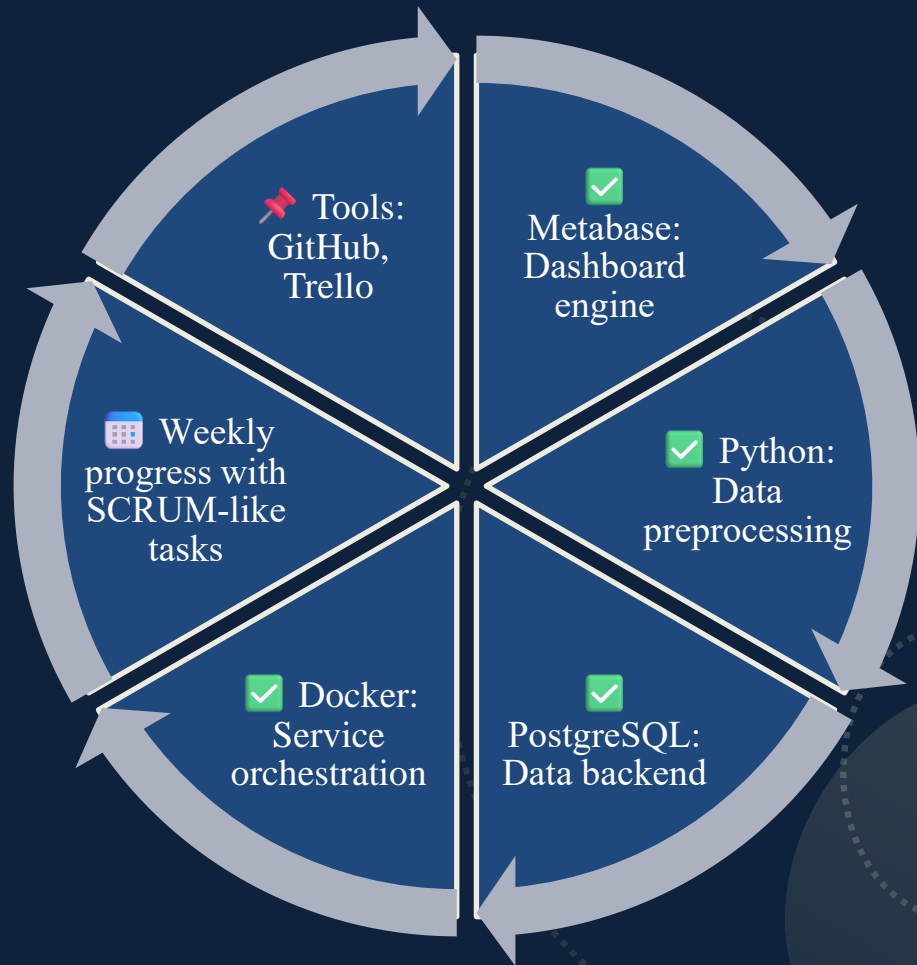
Nombre de jours $> 35^{\circ}\text{C}$ par année



Évolution de la température moyenne estivale



5. Tech Stack & Agile Approach



6. Conclusion

- ✓ Climate data reveals urgent trends
- 📊 Dashboard helps visualize and communicate insights
 - 💡 Questions?