

I&M

H-OPTIMAL

OPTIMISATION DE L'OCCUPATION DES LITS D'UNE CLINIQUE

CHIRURGIE NON URGENTE

Sujet 3



GRP 2

Yu LIU

Marc LIN

Eric ZHUANG

Maxime CHARLES

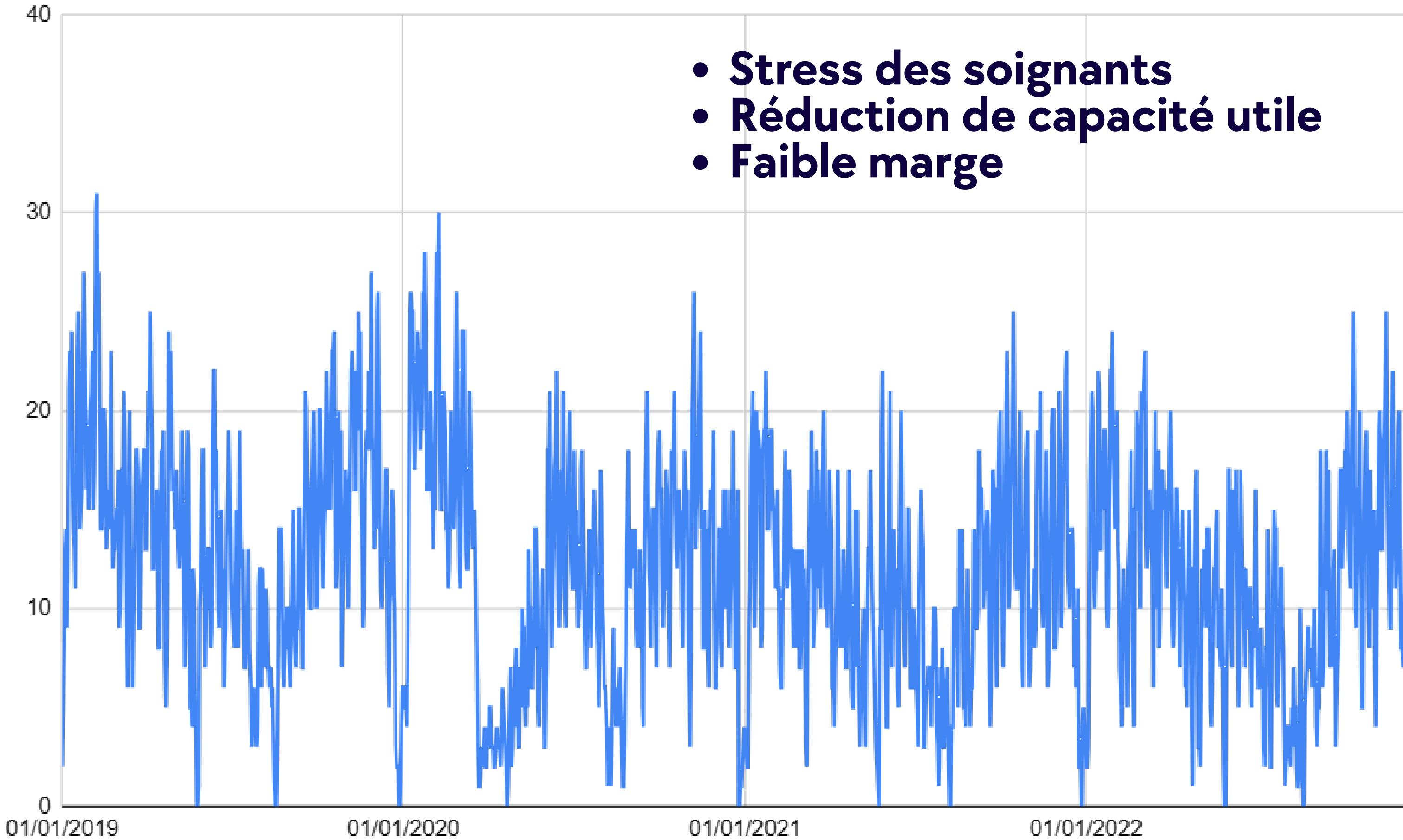
Guillem SOULAINE

Matthieu RICHARD

Guillaume VIDELAINE

Evolution actuelle de l'occupation des lits

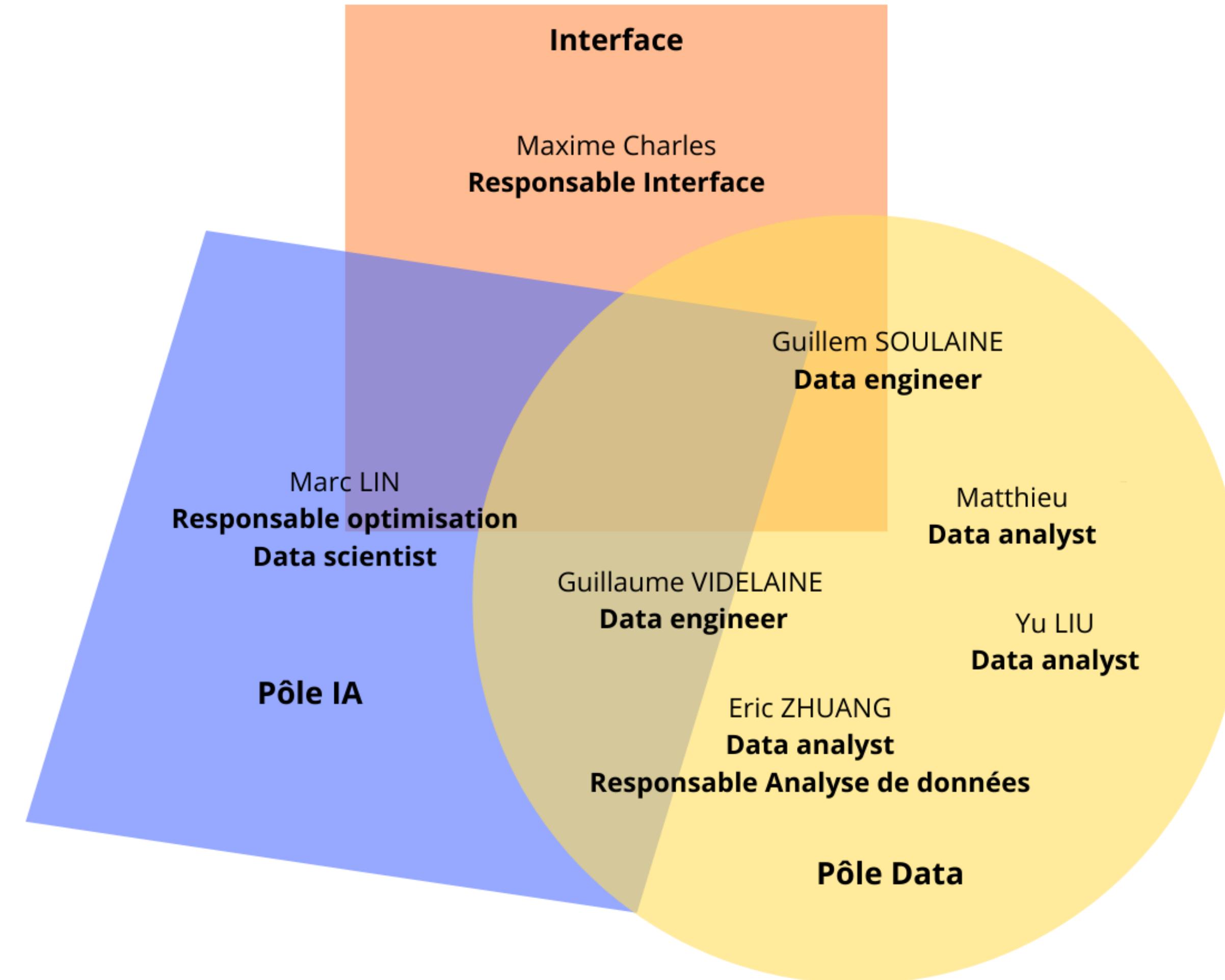
- Stress des soignants
- Réduction de capacité utile
- Faible marge



Etat de l'art

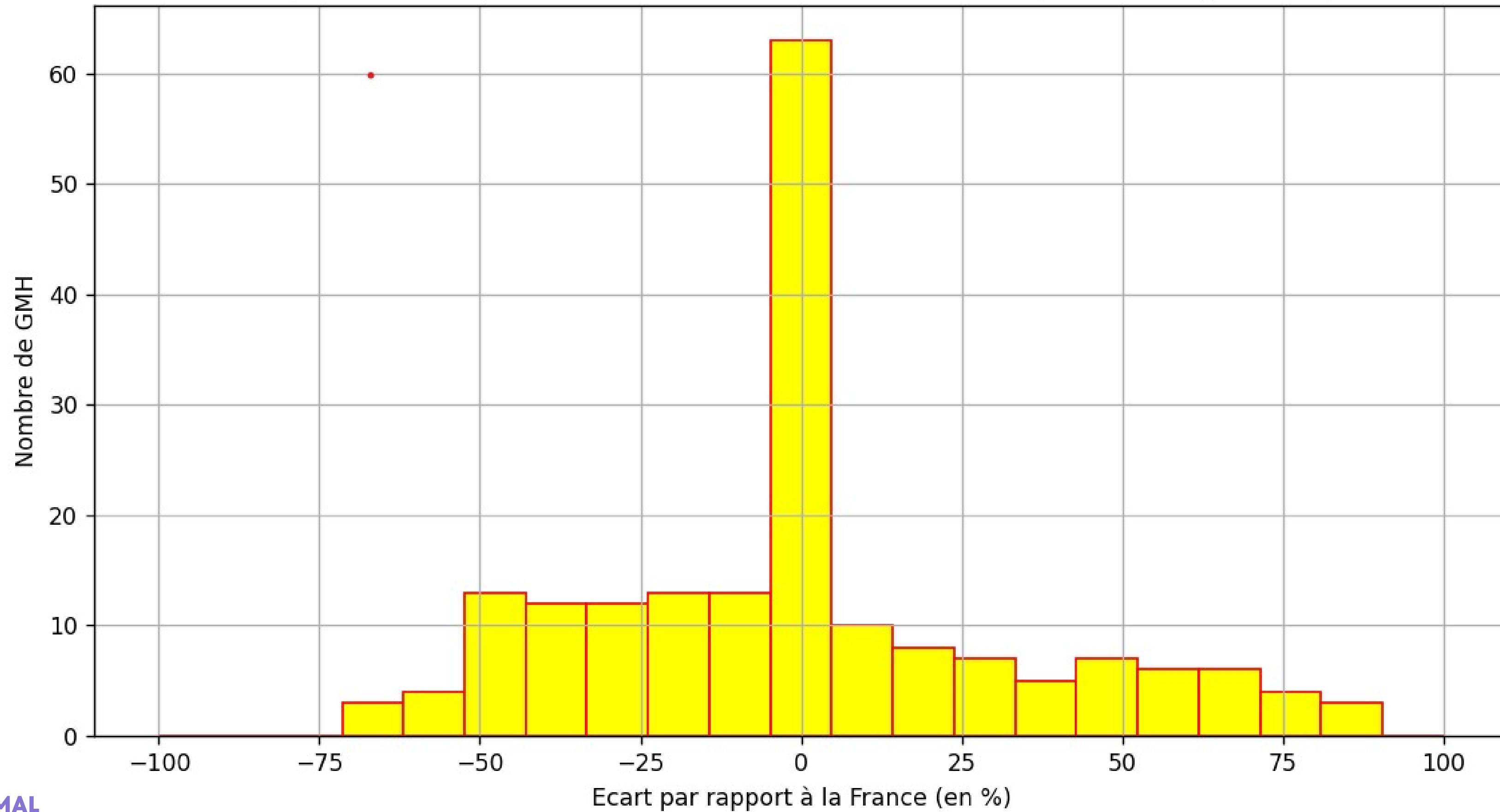


Organisation du travail

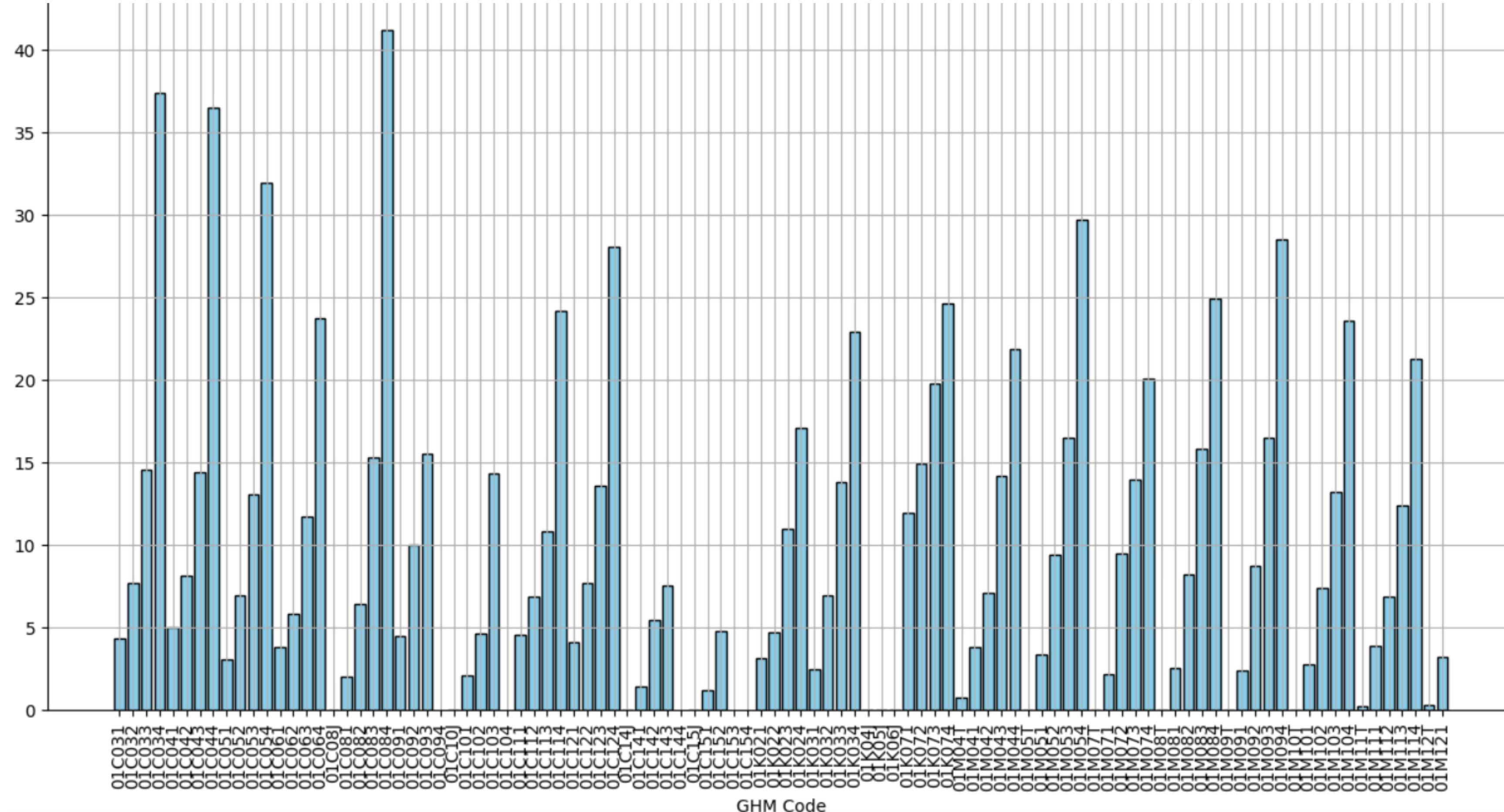


Comparaison

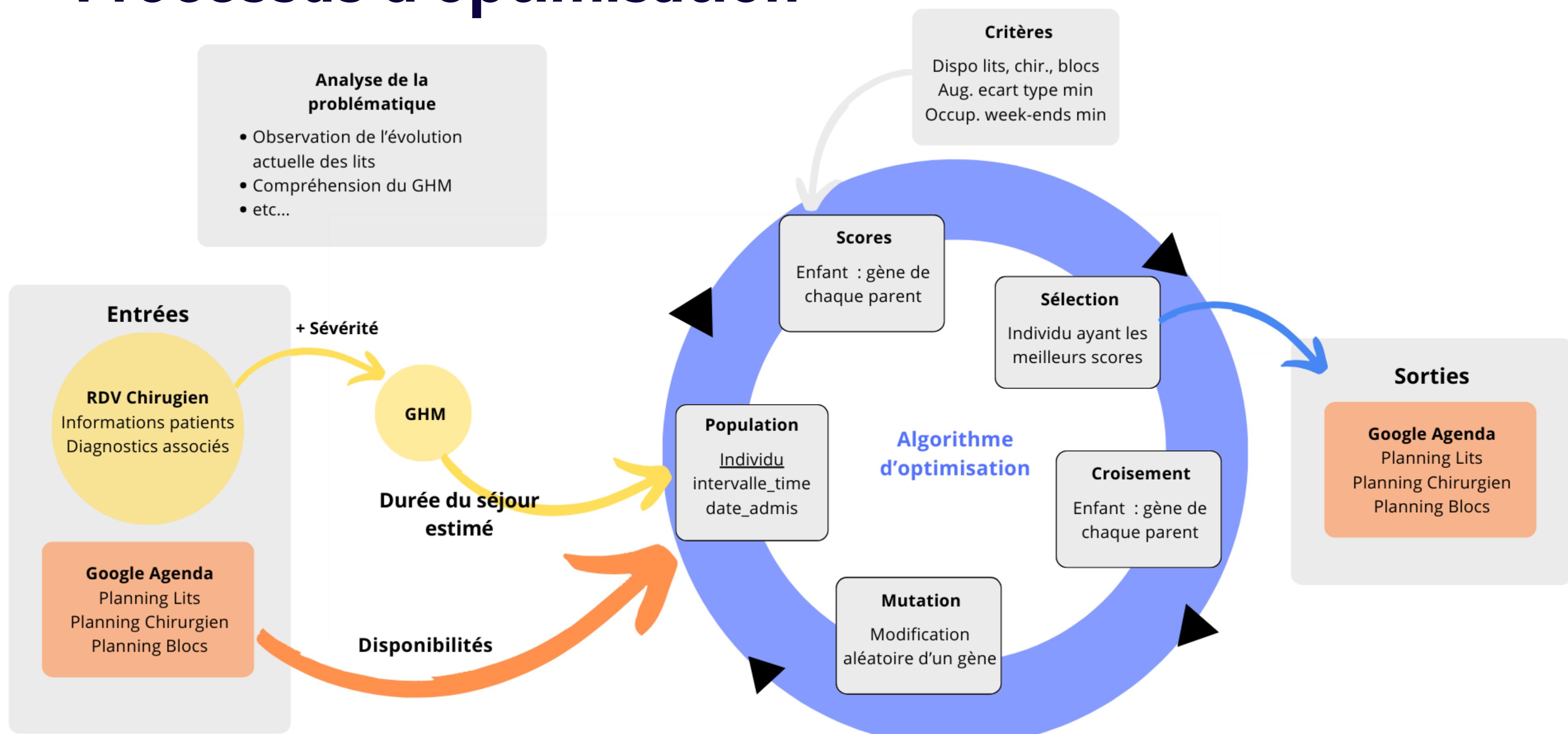
Nombre de GHM pour notre hôpital en fonction de l'écart de durée moyenne de séjour comparé à la France



Durée moyenne de séjour



Processus d'optimisation



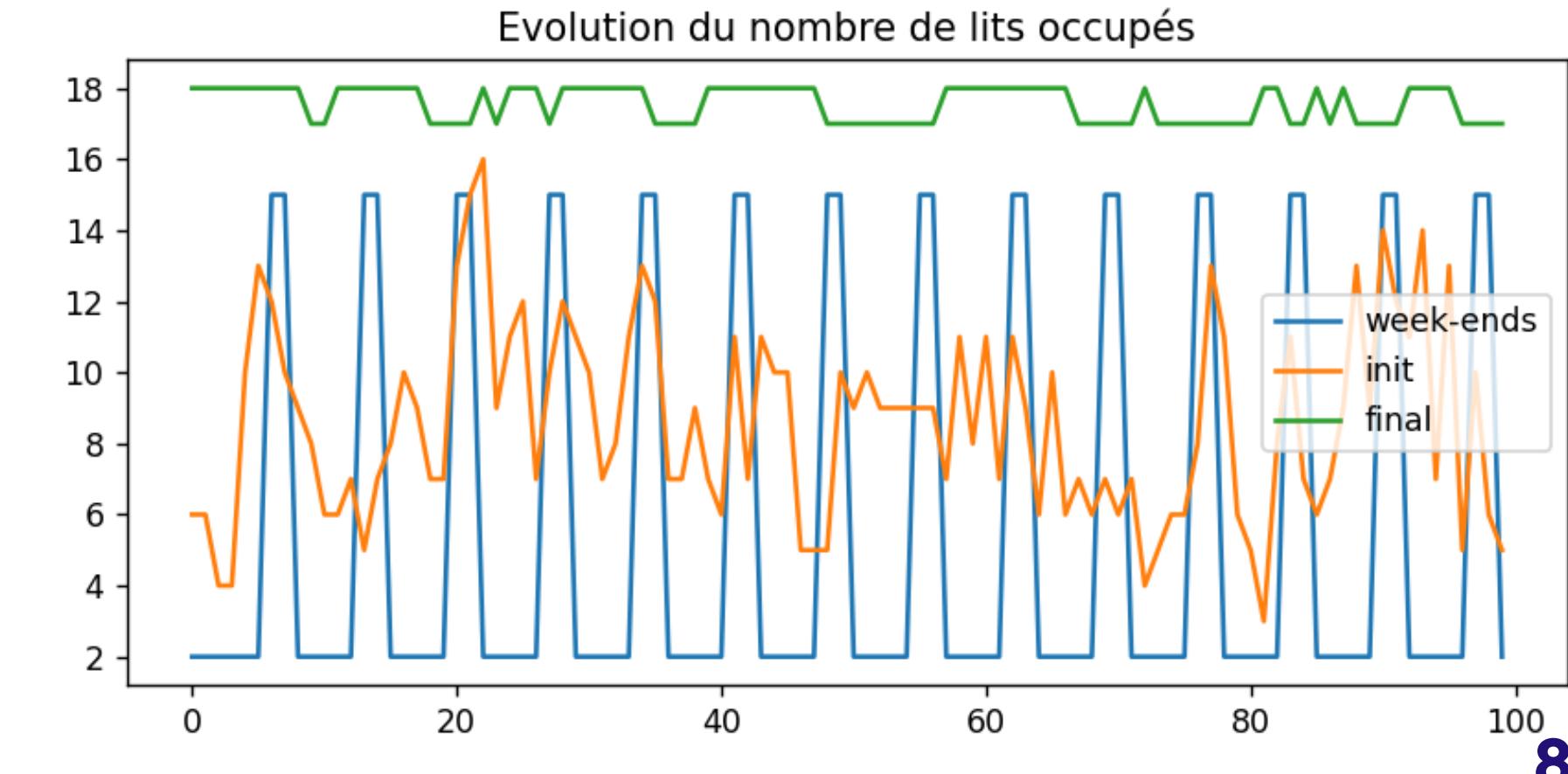
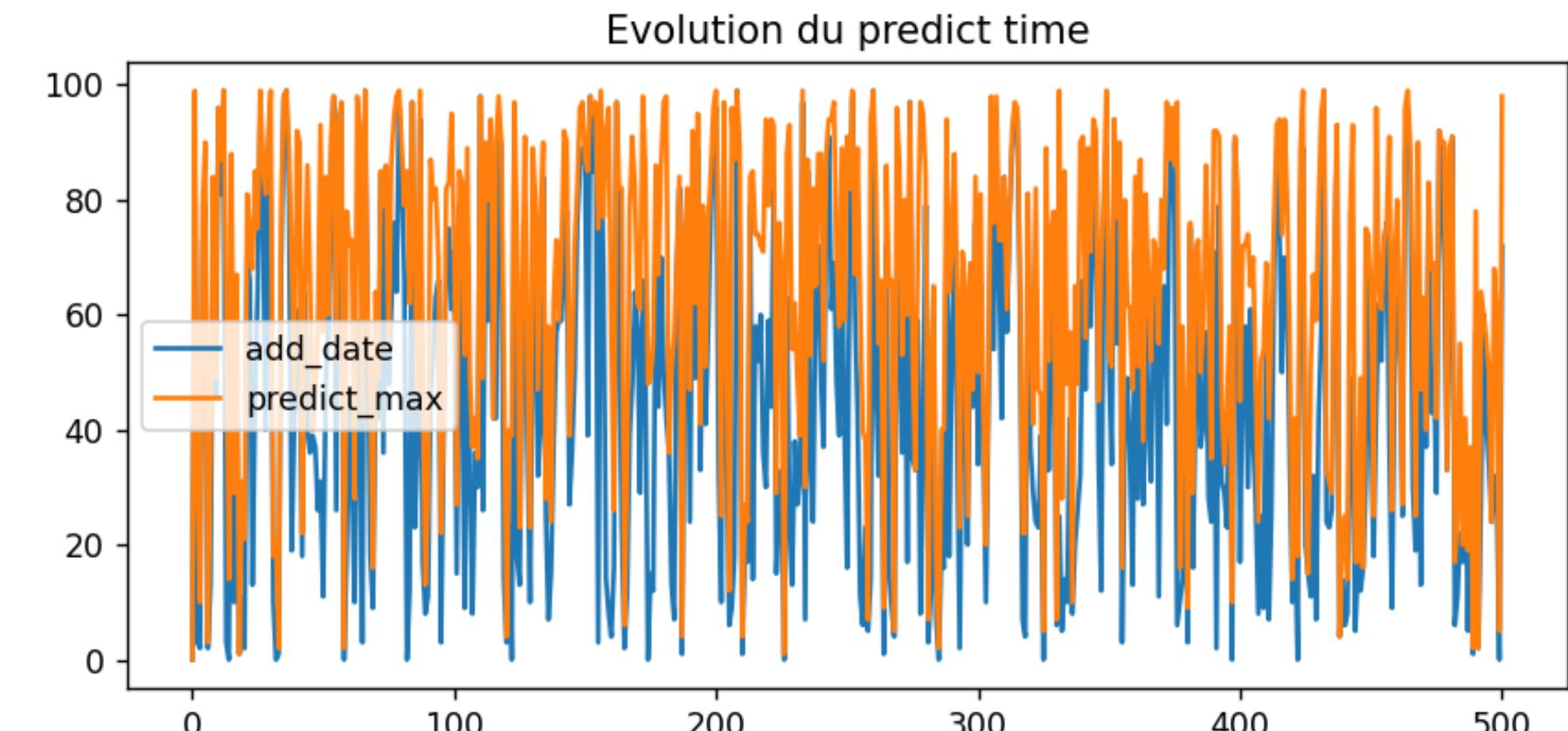
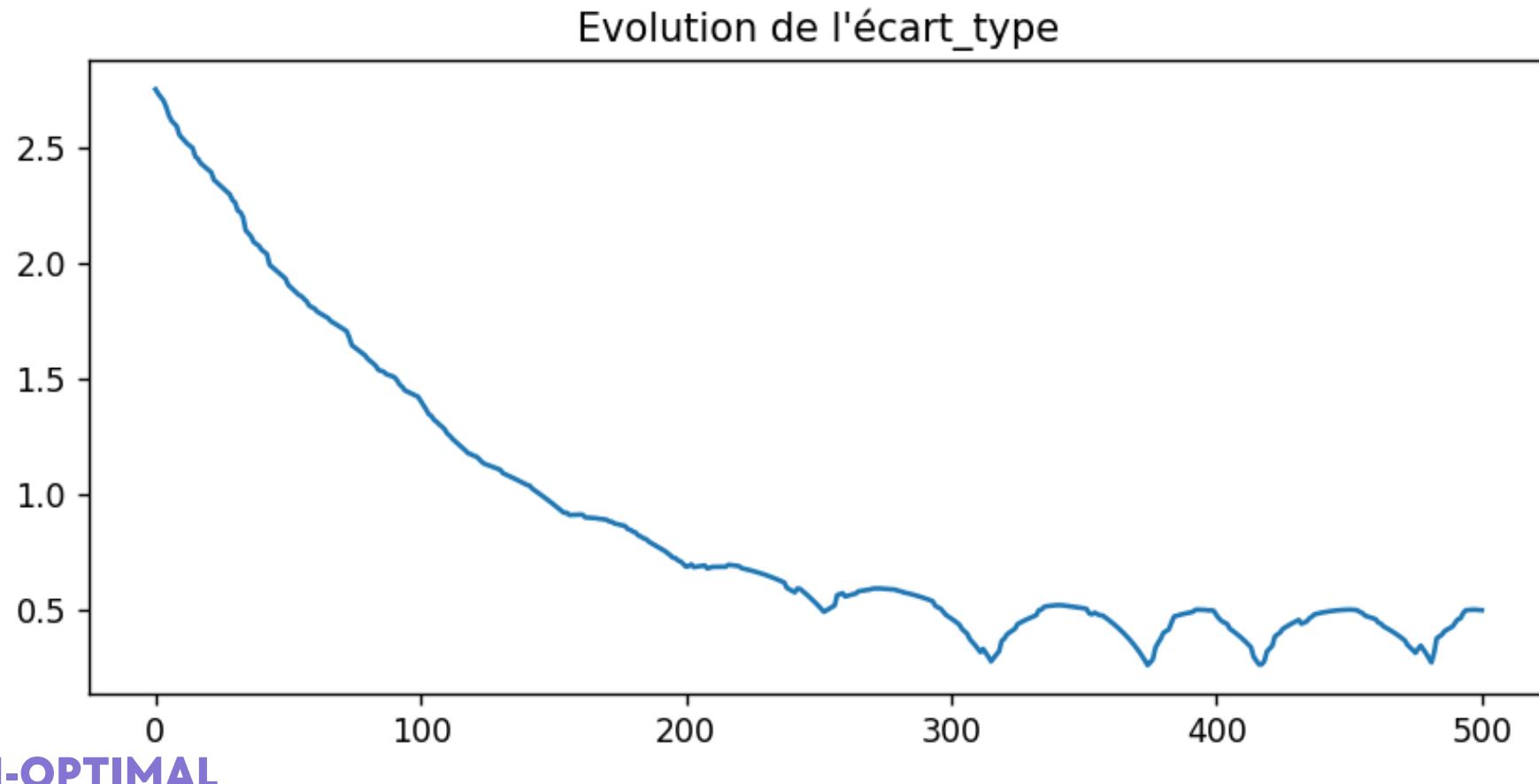
Résultats

Simulation :

- 500 patients initiaux
- 500 patients à placer
- durée séjour : [1:12]

Critères :

- disponibilité lits
- écart type minimal



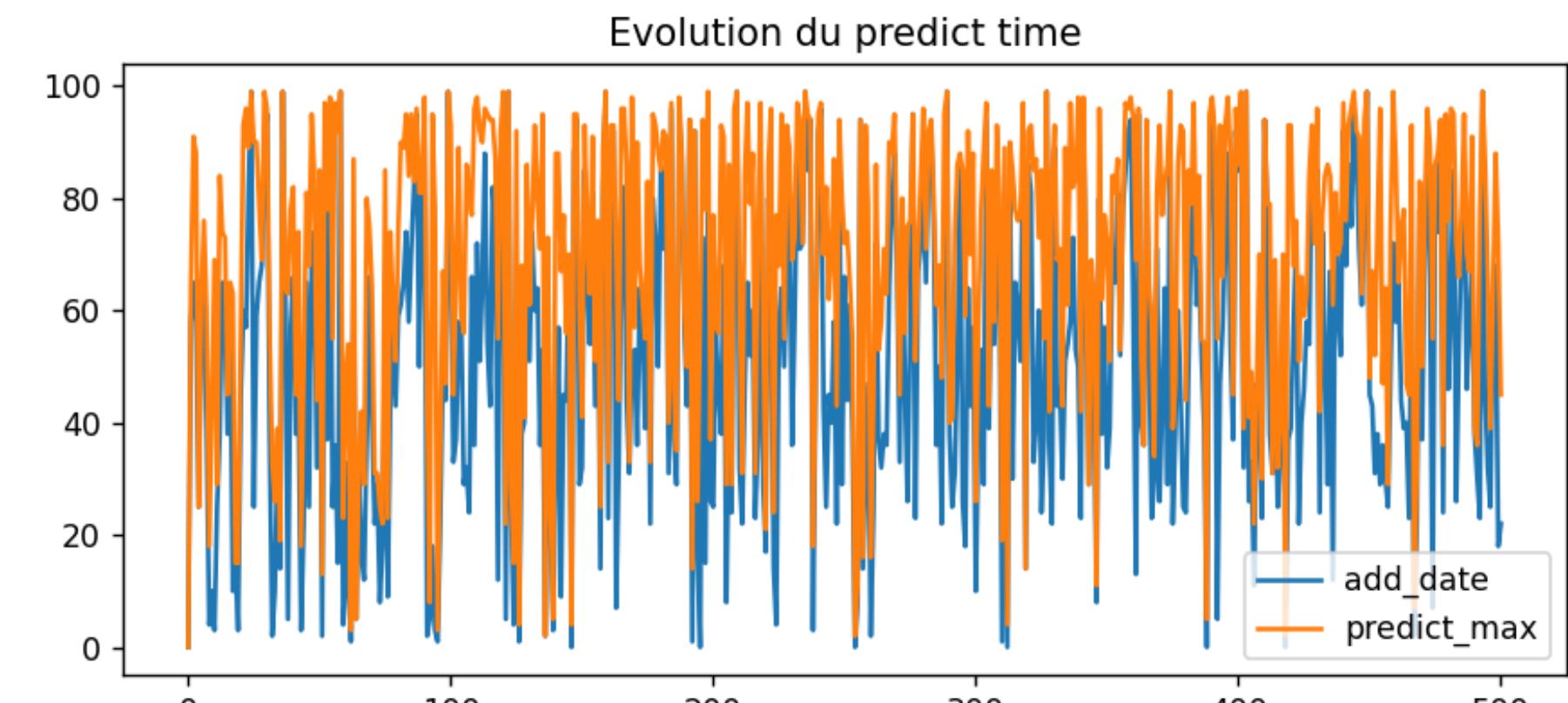
Résultats

Simulation :

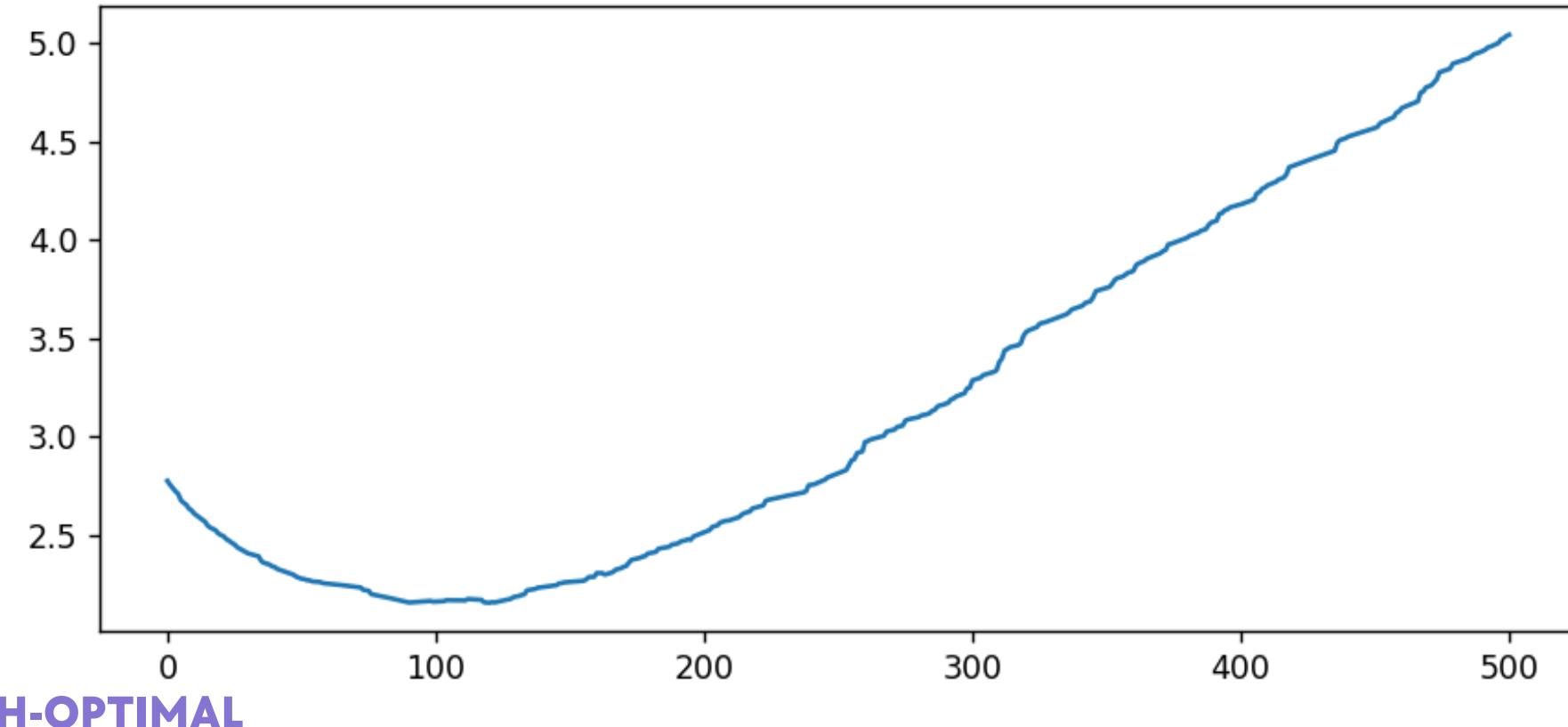
- 500 patients initiaux
- 500 patients à placer
- durée séjour : [1:12]

Critères :

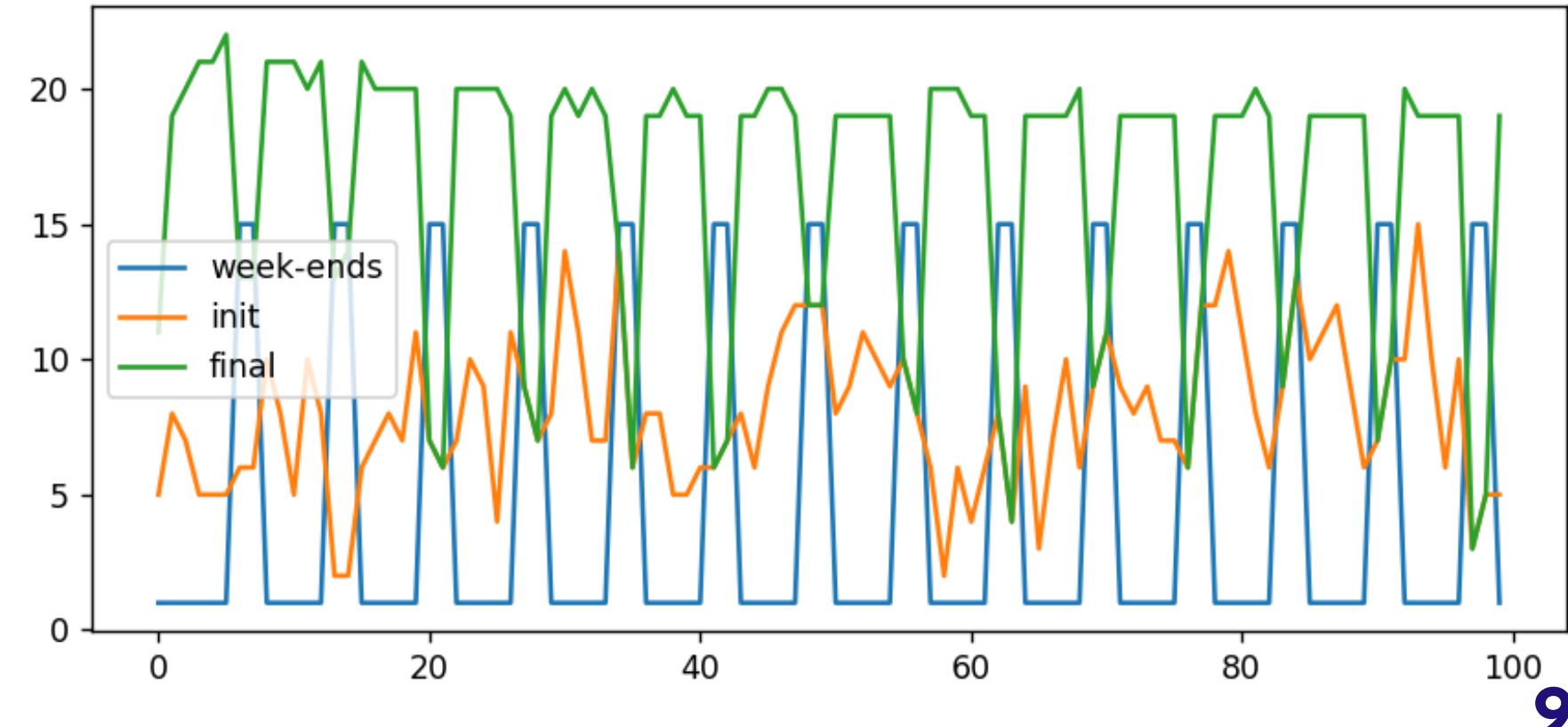
- disponibilité lits
- écart type minimal
- malus week-end



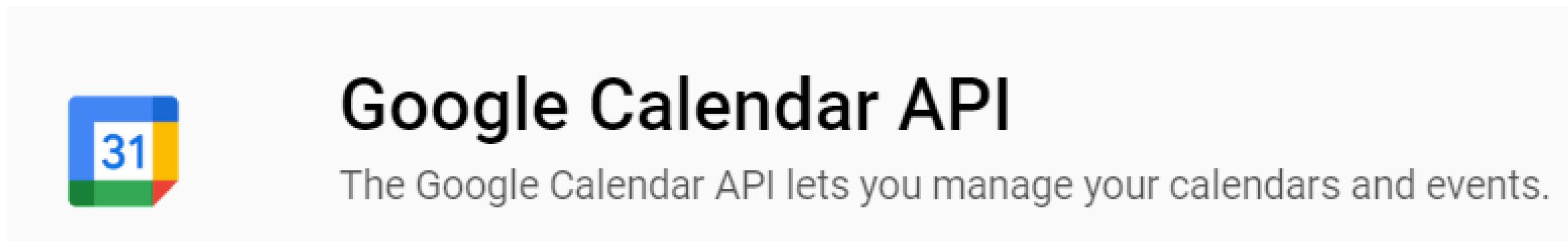
Evolution de l'écart_type



Evolution du nombre de lits occupés



Google Calendar



A screenshot of the Google Calendar interface in a weekly view. The week starts on Sunday, December 31, 2023, and ends on Saturday, January 6, 2024. The calendar grid shows various events represented by colored bars. On Sunday, there is a teal bar labeled 'repos'. On Monday, there is a yellow bar followed by a teal bar. On Tuesday, there is a yellow bar followed by a teal bar. On Wednesday, there is a yellow bar followed by a teal bar. On Thursday, there is a yellow bar followed by a teal bar. On Friday, there is a yellow bar followed by a teal bar. On Saturday, there is a teal bar labeled 'repos'. The sidebar on the left shows a 'Créer' button and a list of agendas: Clinique LitOptim (unchecked), bloc1 (checked), bloc2 (checked), chir1 (checked), Lits (checked), and Tasks (unchecked). A search bar says 'Rechercher des cont...'. The top navigation bar includes buttons for 'Aujourd'hui', date selection, and settings.

availability	
2023-12-23	0
2023-12-24	1
2023-12-25	0
2023-12-26	0
2023-12-27	0

Conclusion

Perspectives d'amélioration :

- simulation : rdv avec le chirurgien aléatoire, comparaison avec la bdd de départ
- simulation : critères disponibilités du chirurgien et blocs opératoires
- optimiser les facteurs des paramètres
- intégration des trois parties



DECEMBRE 2023



I&M

H-OPTIMAL OPTIMISATION DE L'OCCUPATION DES LITS D'UNE CLINIQUE

CHIRURGIE NON URGENTE

GRP 2
Yu LIU
Marc LIN
Eric ZHUANG
Maxime CHARLES
Guillem SOULAIN
Matthieu RICHARD
Guillaume VIDELAINE

Sujet 3