

# Concertation par les données: chauffeurs Uber

Journée romande de la  
**géo**information2023



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Paul-Olivier Dehaye



# Agenda

- **Chauffeurs Uber**
- **Pourquoi ce cas-là?**
- **Suite?**

# Cas Uber

# Contexte genevois

- **Juin 2022, Tribunal Fédéral: les chauffeurs étaient employés, depuis 5 ans**
- **Canton force concertation sur la correction**
- **chauffeur, seul: dois-je aller aux prud'hommes?**

**Décision avant janvier 2023**

**Avocats et syndicats: captures d'écran**

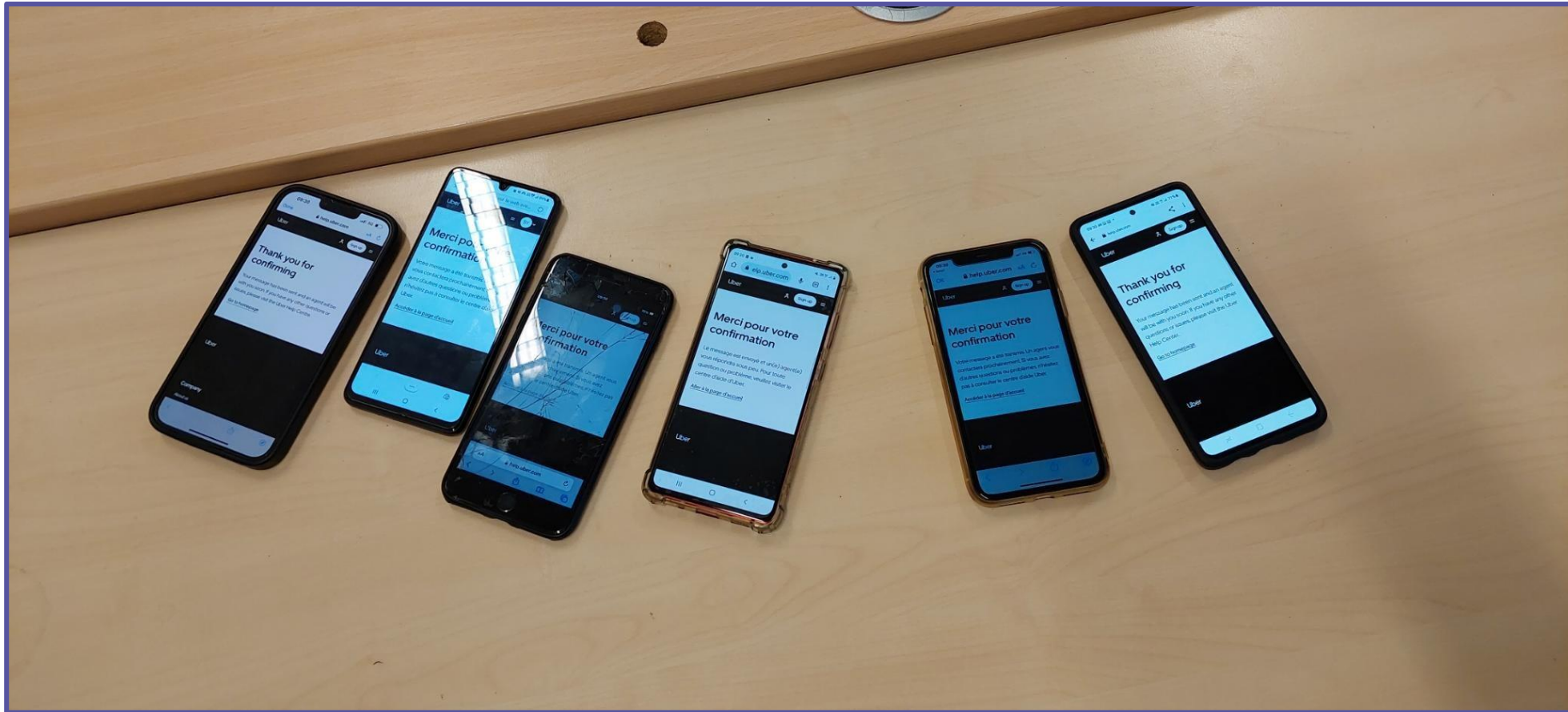
**Nous: RGPD**

# Traces GPS



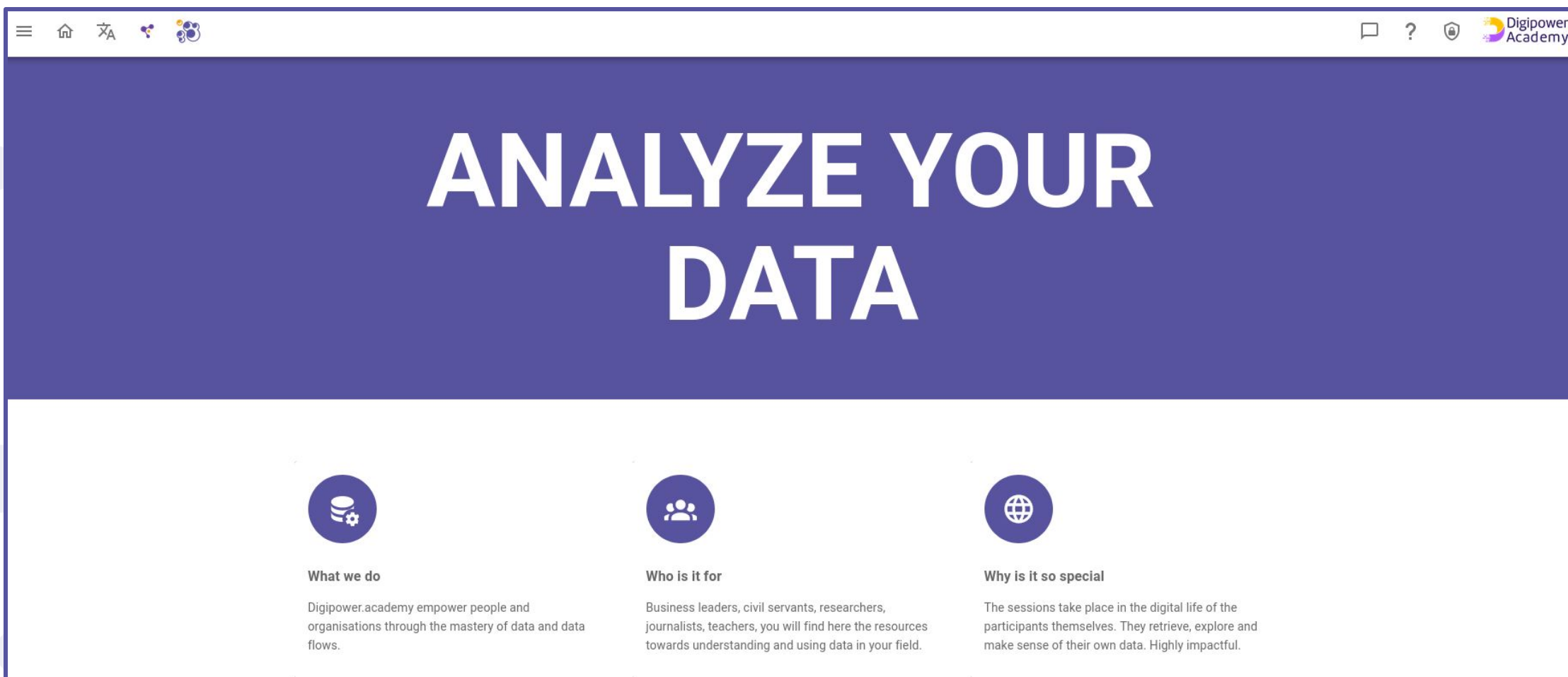
# Unité de lieu, temps et action

(Christophe Degryse)



# Unité de lieu, temps et action






Navigation icons: Home, Search, Language, and a logo icon.


Page title: Digipower Academy

## ANALYZE YOUR DATA




**What we do**

Digipower.academy empower people and organisations through the mastery of data and data flows.



**Who is it for**

Business leaders, civil servants, researchers, journalists, teachers, you will find here the resources towards understanding and using data in your field.



**Why is it so special**

The sessions take place in the digital life of the participants themselves. They retrieve, explore and make sense of their own data. Highly impactful.

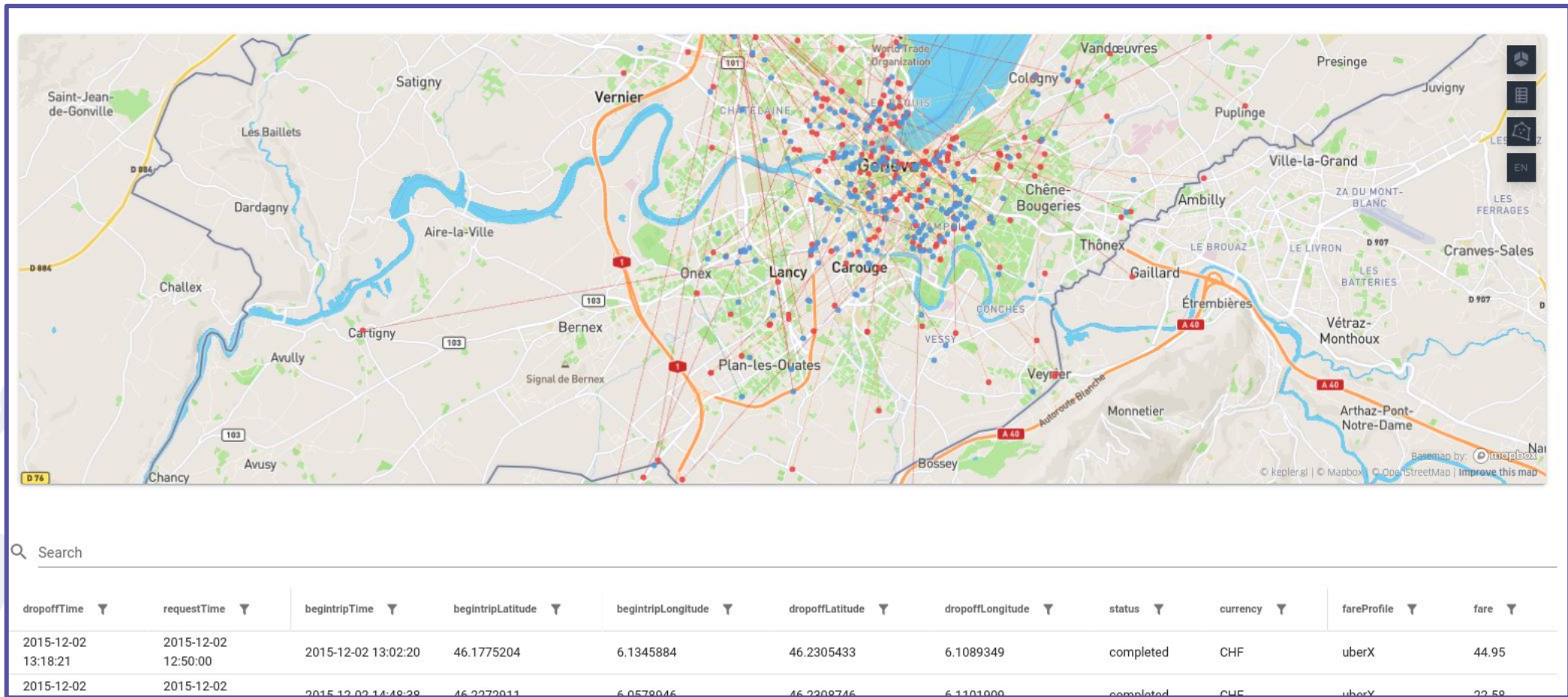


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The screenshot displays a web browser window with the following content:

- Page Title:** Data Experiences
- Grid of Data Experiences:**
  - AppleTracker:** Tracking data (Apple logo)
  - Generic data experience:** Explore data from anywhere! (Clipboard with magnifying glass icon)
  - Fitbit:** Data Experience (Fitbit logo)
  - Google Takeout:** Data Experience (Google Takeout logo)
  - Instagram:** Data Experience (Instagram logo)
  - LinkedIn:** Data Experience (LinkedIn logo)
  - Netflix:** Data Experience (Netflix logo)
  - Strava:** Data Experience (Strava logo)
  - TrackerControl:** Tracking data (Rocket icon)
  - Uber:** Customer data (Uber logo)
  - Uber Driver:** Data Experience (Uber logo)

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# Pointeuse 2.0

The screenshot shows a spreadsheet application interface with a menu bar (File, Edit, View, Insert, Format, Styles, Sheet, Data, Tools, Window, Help) and a toolbar. The active cell is C6, containing the formula  $\Sigma = 2017$ . The spreadsheet contains the following data:

	A	B	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CC
1				uber_paid				sum_birdeye_distance_km_x_1.5					sum_distance_km			sum_osrm_distance_km						
2		status	total	P3			total	P1	P2	P3	P23	P123	P2	P3	P23	P1	P2	P3	P23	P123	P1	
3		sunday		sunday		weekday																
4		night		day	night	day	night															
6	0	0	889.76	0	107.27	797.74	391.43	1296.44	218.51	119.85	472.68	592.53	811.04	2.57	450.4	452.97	192.73	120.67	495.61	616.28	809.01	15
7	1	1	1835.42	302.49	575.17	1395.99	1105.96	3379.61	532.13	302.25	1006.48	1308.73	1840.86	8.36	1007.81	1016.17	495.99	319.58	913.94	1233.52	1729.51	27
8	2	2	1450.92	291.74	370.34	1926.58	542.07	3130.73	416.27	267.95	818.18	1086.13	1502.4	4.71	808.1	812.81	363.36	265.33	747.56	1012.89	1376.25	19
9	3	3	1512.32	0	446.18	1615.59	1266.85	3328.63	363.91	309.86	888.72	1198.58	1562.49	5.56	861.42	866.98	307.3	312.76	787.61	1100.37	1407.67	17
10	4	4	2373.03	158.63	1010.57	2366.99	1540.97	5077.16	521.45	498.54	1373.92	1872.46	2393.91	7.27	1331.29	1338.56	459.03	524.87	1234.36	1759.23	2218.26	22
11	5	5	2543.2	445.39	1222.77	1968.8	1928.89	5565.85	393.41	545.52	1321.65	1867.17	2260.58	8.04	1292.75	1300.79	357	530.82	1194	1724.82	2081.82	18
12	6	6	2858.28	27.44	1601.1	1167.04	2650.75	5446.34	656.13	459.35	1364.22	1823.57	2479.7	6.52	1328	1334.52	614.52	458.22	1240.91	1699.13	2313.65	24
13	7	7	1473.16	8.1	789.85	518.89	1759.7	3076.54	357.87	234.72	726.92	961.64	1319.51	3.17	712.61	715.78	325.57	250.3	657.59	907.89	1233.46	1
14	8	8	1259.78	0	589.07	386.11	2498.93	3474.11	257.7	194.08	649.8	843.88	1101.58	3.42	627.41	630.83	236.53	196.81	570.1	766.91	1003.44	5

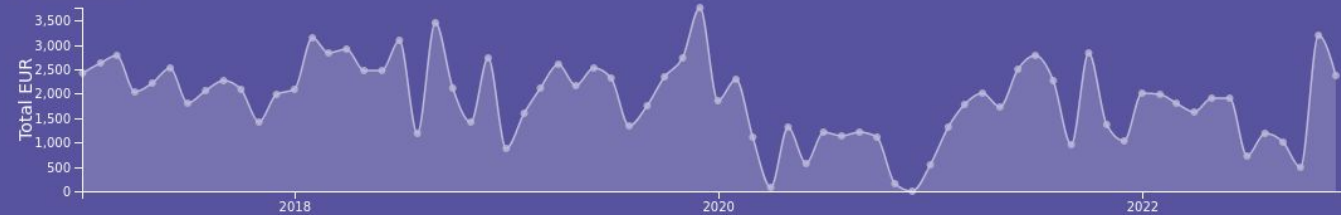
- combien ils me doivent?
  - {km, heures} x {P1, P2, P3} x {jour,nuit} x WE?
  - statistiques globales

# Pilotage de leurs revenus

## Vos Revenus

### Vos revenus totaux per month

Current filter:

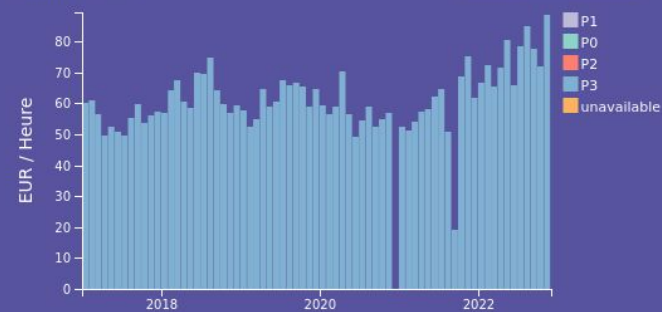


Select a date range to zoom in



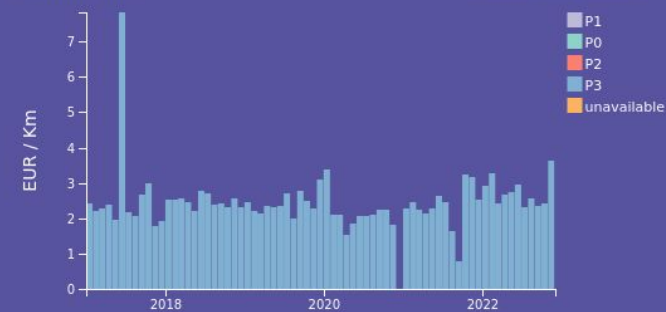
### Vos revenus par heure

Current filter:



### Vos revenus par kilomètre

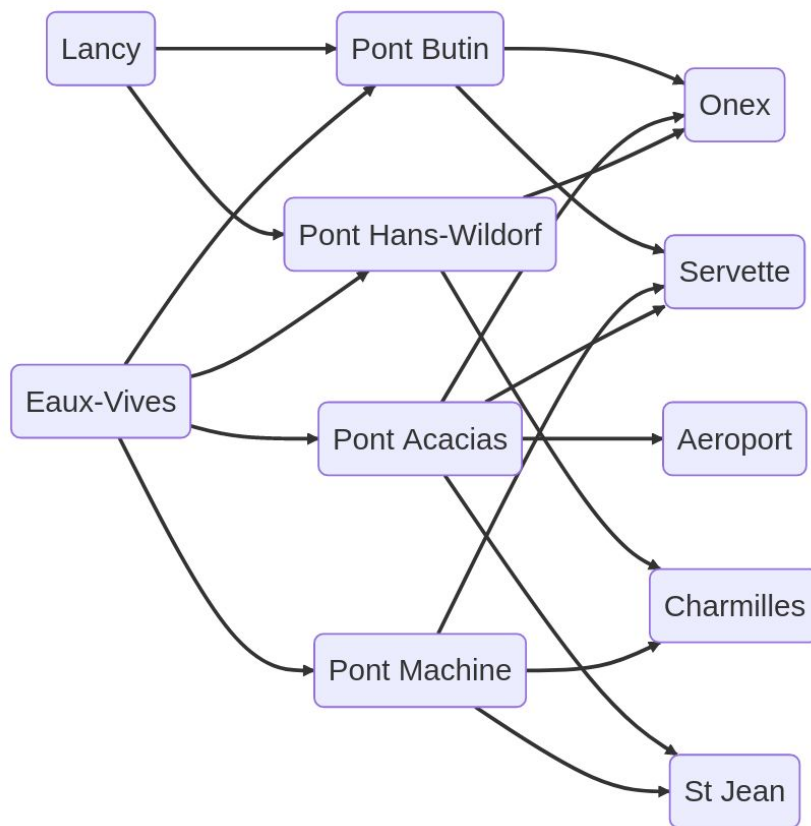
Current filter:



# Autres questions/hypothèses

- **que savent-ils?**
- **comment l'utilisent-ils?**
- **je suis convaincu qu'ils**
  - **m'influencent pour que je travaille trop**
  - **me capturent via mon prêt de voiture**
  - **exploitent mes pairs pour me discriminer sur les revenus**
- **algorithmes: routage, pricing, enchères (2x)**

# Chemins dans la ville



algorithmes: routage, pricing, enchères (2x)

“goulots d’entropie”  $\Rightarrow$  facilite la compréhension  Hestia.ai  
sustainable data solutions

# Science citoyenne



## When gig workers regain control

When gig workers regain control is a French initiative investigating the working conditions of gig workers in Paris that aims to build a new data governance model for innovation.


Isala: Citizen-science map of the vaginal microbiome , Photo: Isala Team

# Collecte de géodonnées

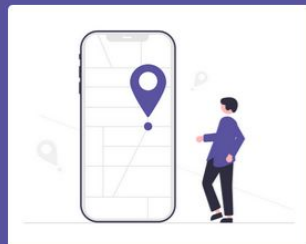


# Digipower.academy

## SE DÉPLACER DANS LA RÉGION DE LAUSANNE

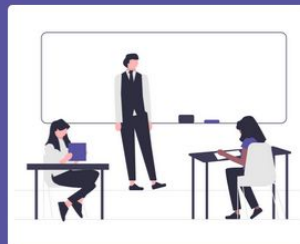
 Découvrez ce que les données révèlent sur les trajets de Jade (étudiante), Zoé et Victor (commuters) et les employés des tl.

 Quelles histoires de données voulez-vous explorer ? Cliquez sur l'une d'elles pour commencer.



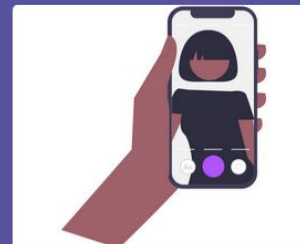
### ZOÉ SE DÉPLACE DANS LA VILLE

Zoé part de chez elle à pied, prend un train, puis marche jusqu'à son travail. Quelles sont les données qu'elle génère pour **Google** ?



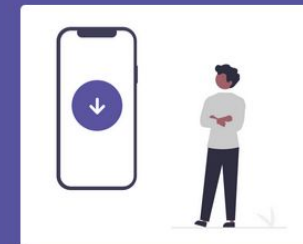
### JADE SE DÉPLACE DANS LA VILLE

La vie quotidienne de Jade, entre l'école, la piscine et la maison, à travers ses données **Google**.



### INSTAGRAM SAIT OÙ SE TROUVE JADE

Ce que les métadonnées des photos que Jade publie sur **Instagram** disent de sa vie.



### VICTOR SE DÉPLACE DANS LA VILLE

Tous les jours Victor traverse le lac Léman pour se rendre au travail. À pied, en bus, en voiture et parfois (tout de même) en bateau, selon **Google**.

**Suite:**  
**intelligence artificielle**  
**générationnelle**

# Perspective

## Your AI pair programmer

GitHub Copilot uses the OpenAI Codex to suggest code and entire functions in real-time, right from your editor.

[Get Copilot for Business >](#)

[Compare plans](#)

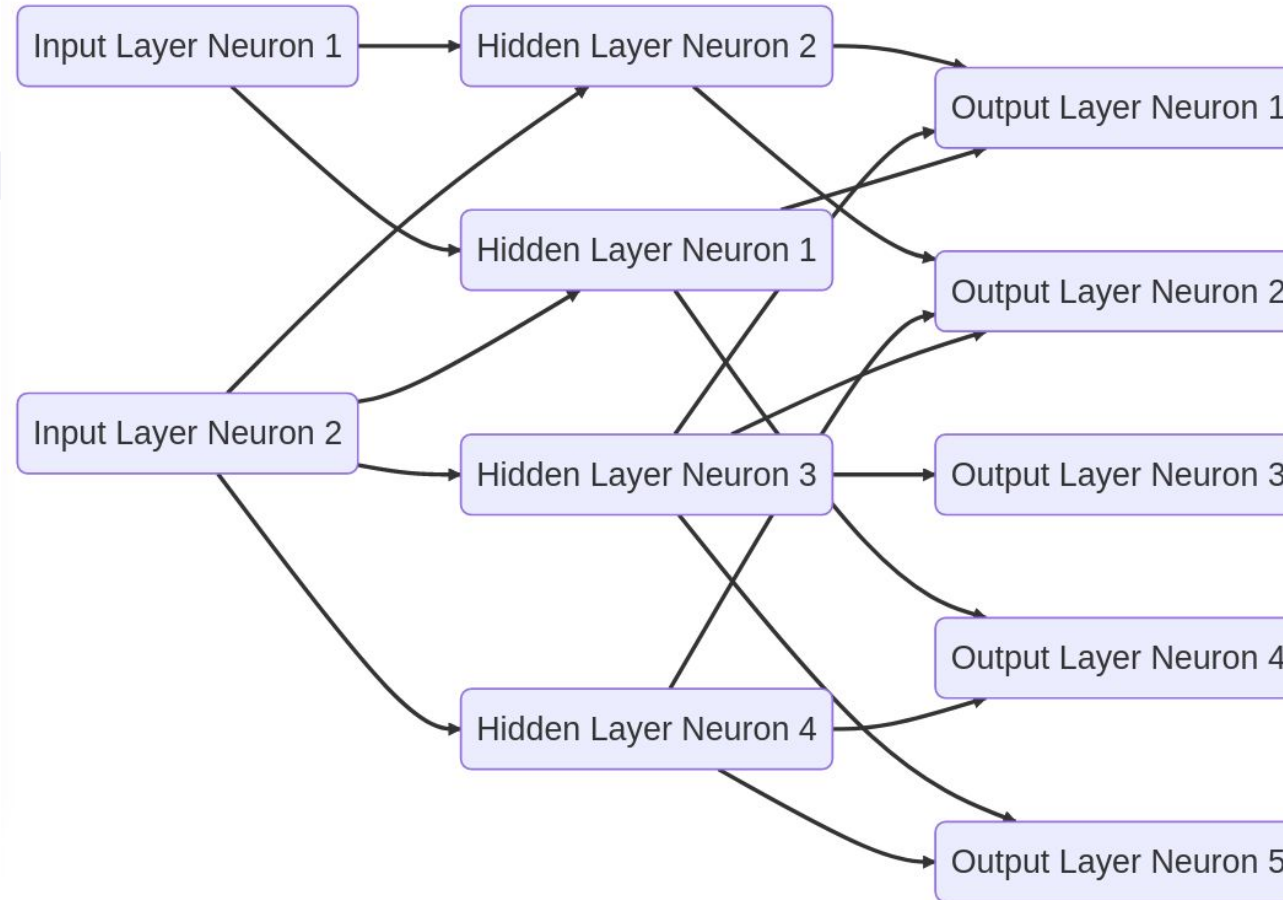
```
sentiments.ts  write_sql.go  parse_expenses.py  addresses.rb

1 import datetime
2
3 def parse_expenses(expenses_string):
4     """Parse the list of expenses and return the list of triples (date, value, currency).
5     Ignore lines starting with #.
6     Parse the date using datetime.
7     Example expenses_string:
8         2016-01-02 -34.01 USD
9         2016-01-03 2.59 DKK
10        2016-01-03 -2.72 EUR
11    """
12    expenses = []
13    for line in expenses_string.splitlines():
14        if line.startswith("#"):
15            continue
16        date, value, currency = line.split(" ")
17        expenses.append((datetime.datetime.strptime(date, "%Y-%m-%d"),
18                        float(value),
19                        currency))
20    return expenses
```

Copilot

Replay

# Réseaux neuronaux



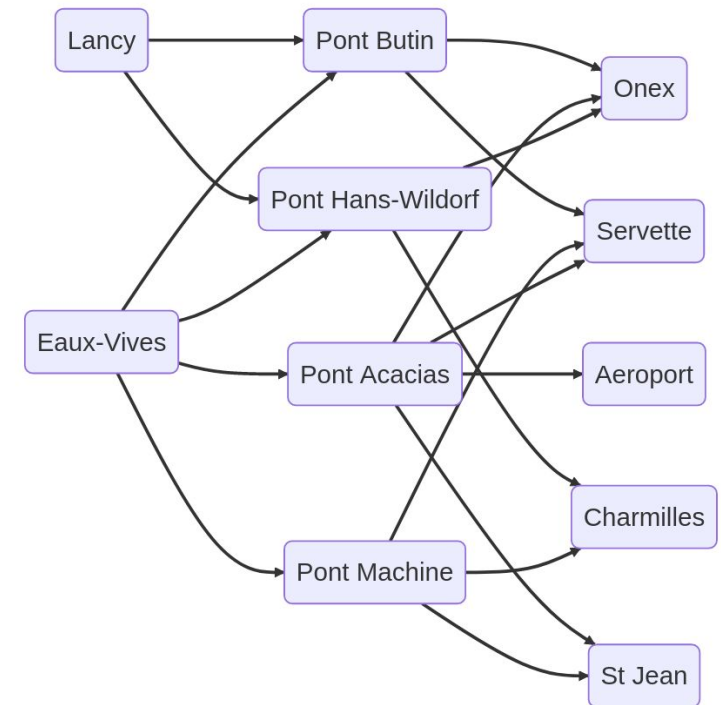
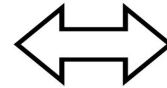
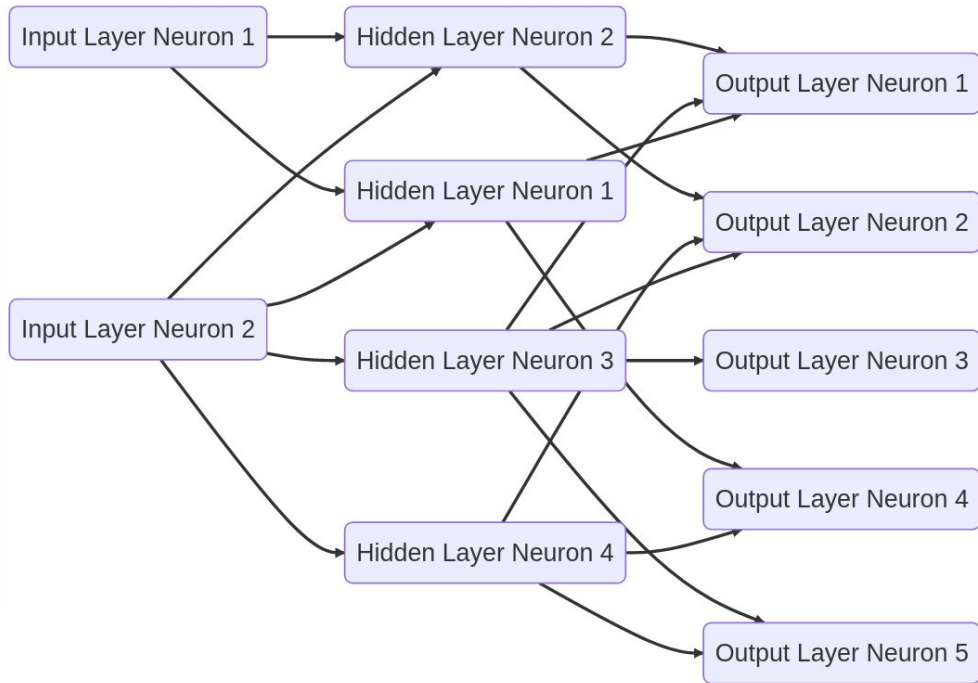
# Intelligence artificielle générative

**Pourquoi s'arrêter aux chauffeurs Uber?**

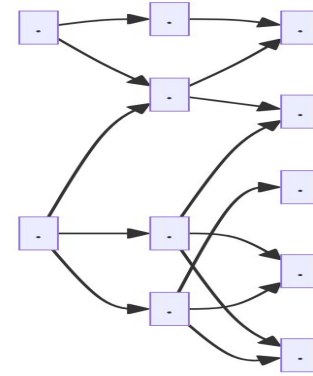
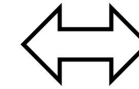
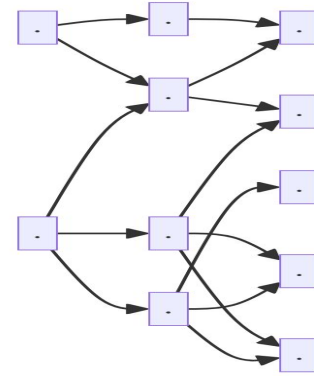
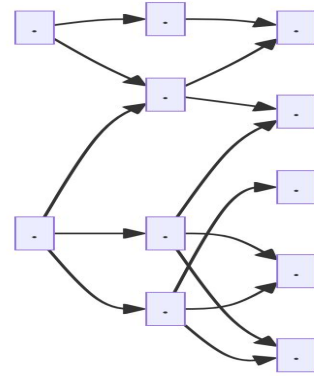
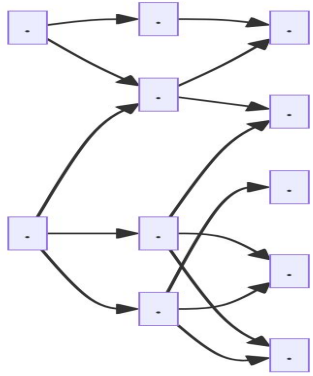
**e.g. Microsoft, nourri de données Office365,  
Teams et LinkedIn?**

**[EDIT 2023-11-09: tout business, en gros]**

# Comparaison “chemins de pensée”



# “Flux de bits/tokens/biens/véhicules”



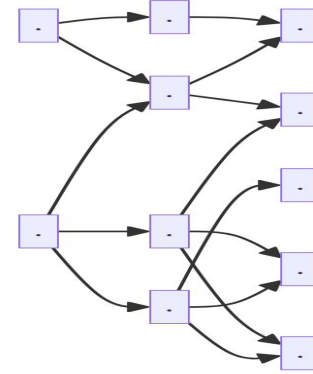
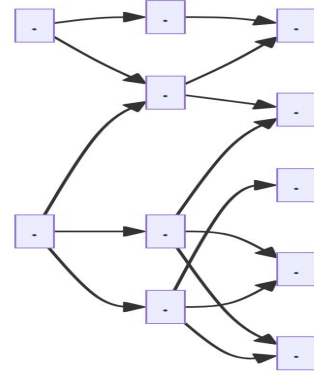
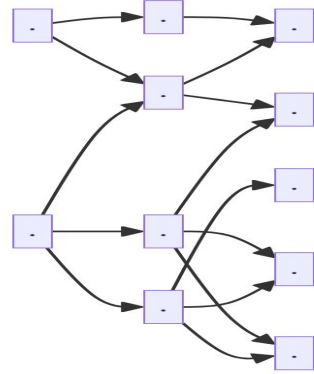
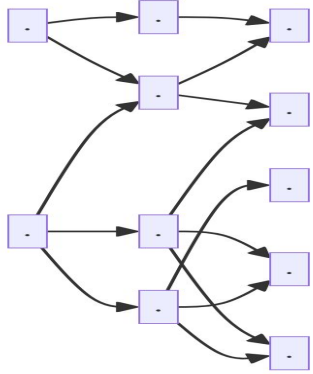
**ANN**  
neurone  
“synapse”  
bit

**GAFAM**  
agent  
chaîne  
token

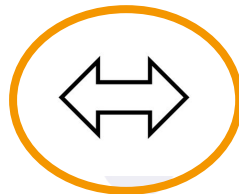
**économie**  
entreprise  
échange  
bien

**réseau**  
carrefour  
route  
véhicule

# Argo



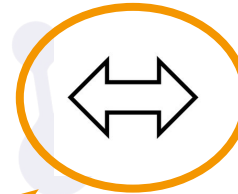
**ANN**  
neurone  
"synapse"  
bit



**GAFAM**  
agent  
chaîne  
token



**économie**  
entreprise  
échange  
bien



**réseau**  
carrefour  
route  
véhicule

<http://argo.hestia.ai>





NEWSLETTER

# Meaningful Intelligence

Essential insights for resilience in an age of artificial intelligence



By Paul-Olivier Dehaye  
CEO hestia.ai, Founder personaldata.io, slayer of Camb...

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