

Keynote - BI trendek

Budapest BI Fórum 2021

Arató Bence

arato@biconsulting.hu





Arató Bence

A BI Consulting igazgatója, két évtizedes szakmai múlttal az adattárházak, BI és analitika területén

- **Adatstratégiai tanácsadás**

Adat- és BI stratégia kialakítása, architektúratervezés, eszközválasztási tanácsadás, pályáztatás, minőségbiztosítás, mentoring

- **Oktatás**

A BI Akadémia vezető oktatója (DW/BI architektúrák, Big Data technológiák, adatmodellezés, adatvizualizáció). A CEU vendégtanára.

- **Publikációk**

Az Adat.blog és a Dataviz.hu szerkesztője

- **Rendezvények**

A Budapest BI Fórum, a Budapest Data Fórum és a Budapest ML Fórum konferenciák vezető szervezője

Általános trendek

Gartner Top 10 Data and Analytics Trends, 2021



Accelerating Change

1 Smarter, Responsible, Scalable AI

2 Composable Data and Analytics

3 Data Fabric Is the Foundation

4 From Big to Small and Wide Data



Operationalizing Business Value

5 XOps

6 Engineering Decision Intelligence

7 D&A as a Core Business Function



Distributed Everything

8 Graph Relates Everything

9 The Rise of the Augmented Consumer

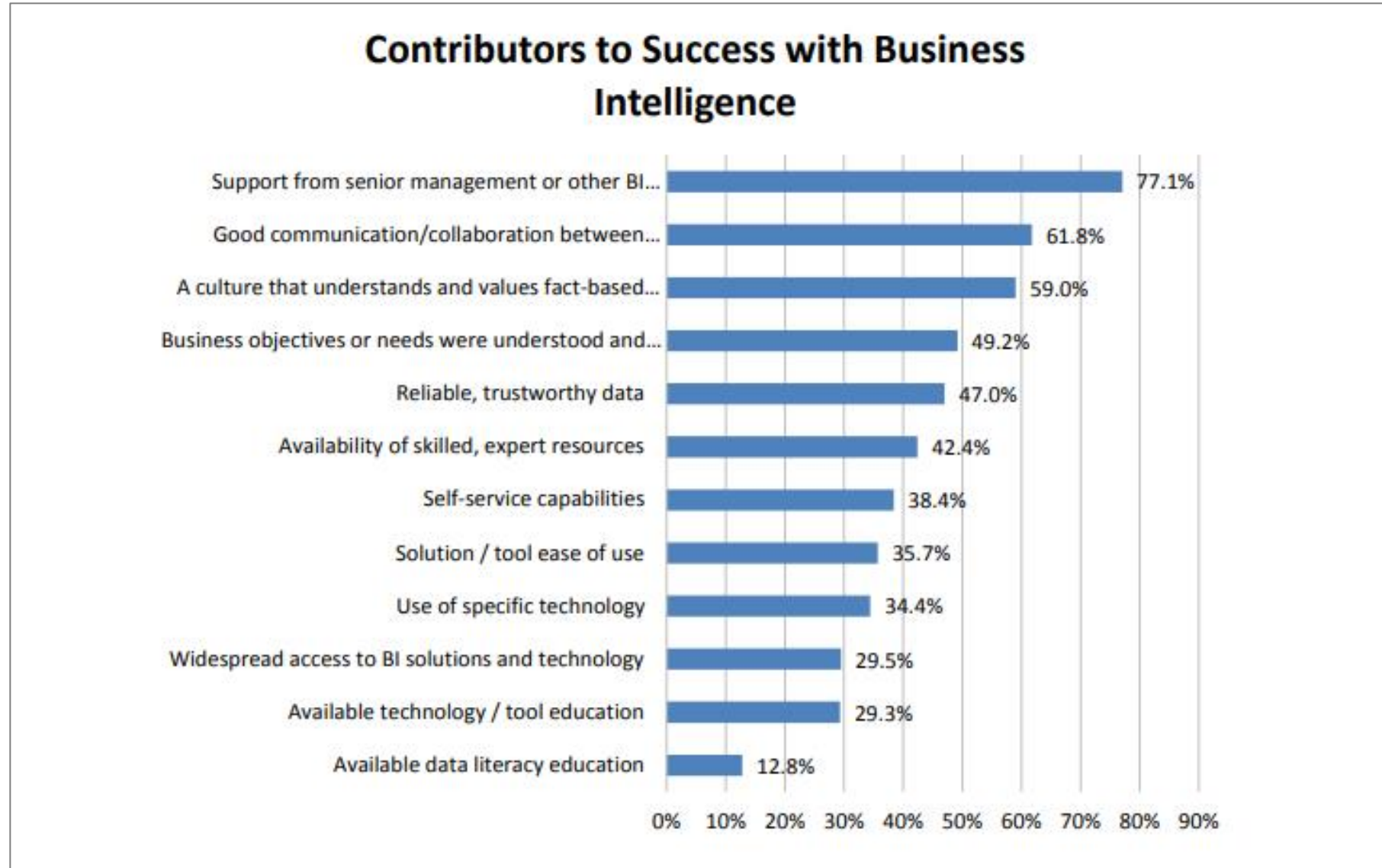
10 D&A at the Edge

BI Survey 2022 – Customer problems

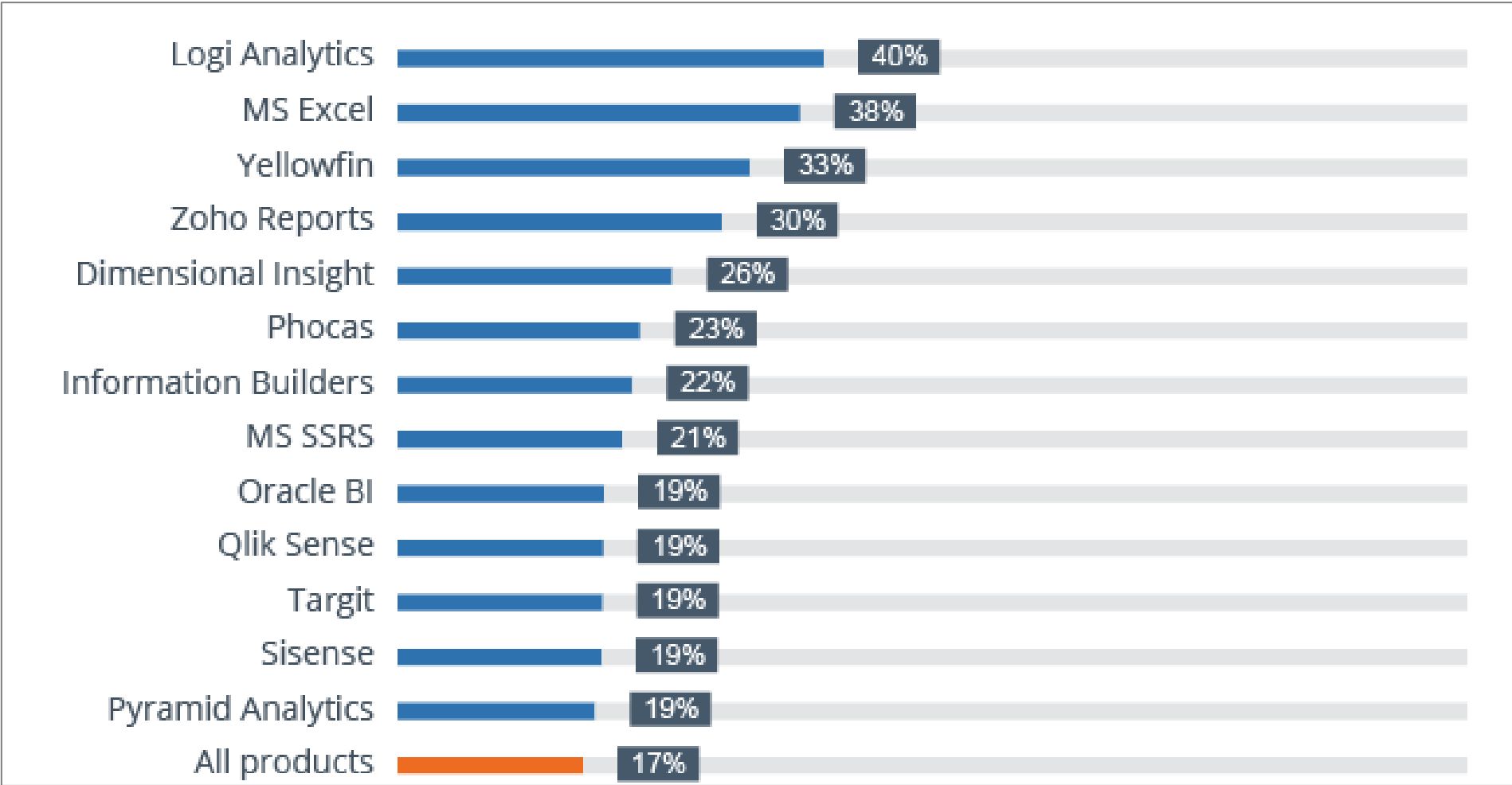


<https://bi-survey.com/business-intelligence-problems>

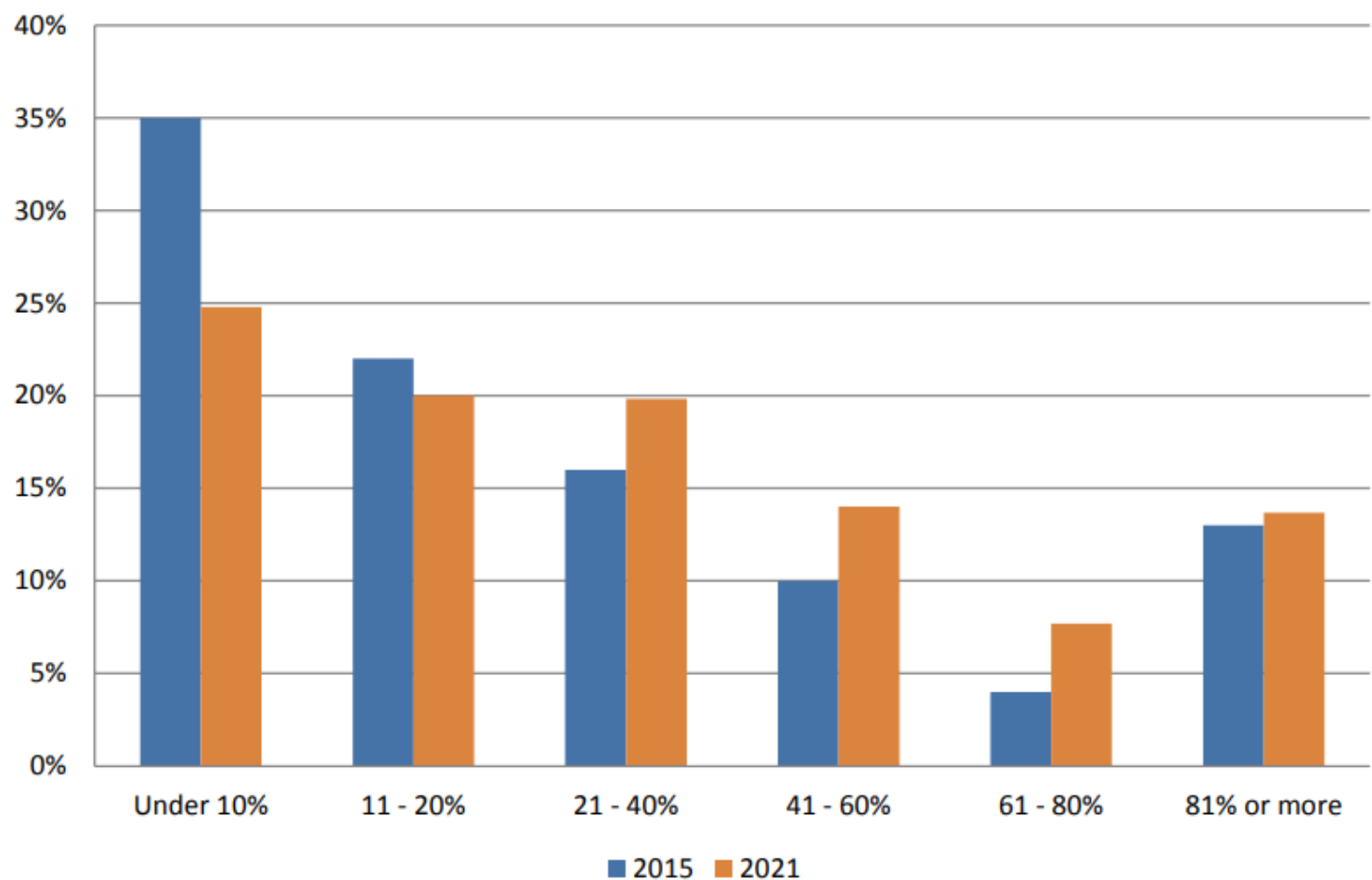
2021 Wisdom of Crowds® Business Intelligence Market Study



BI Survey 2022 – BI Software penetration

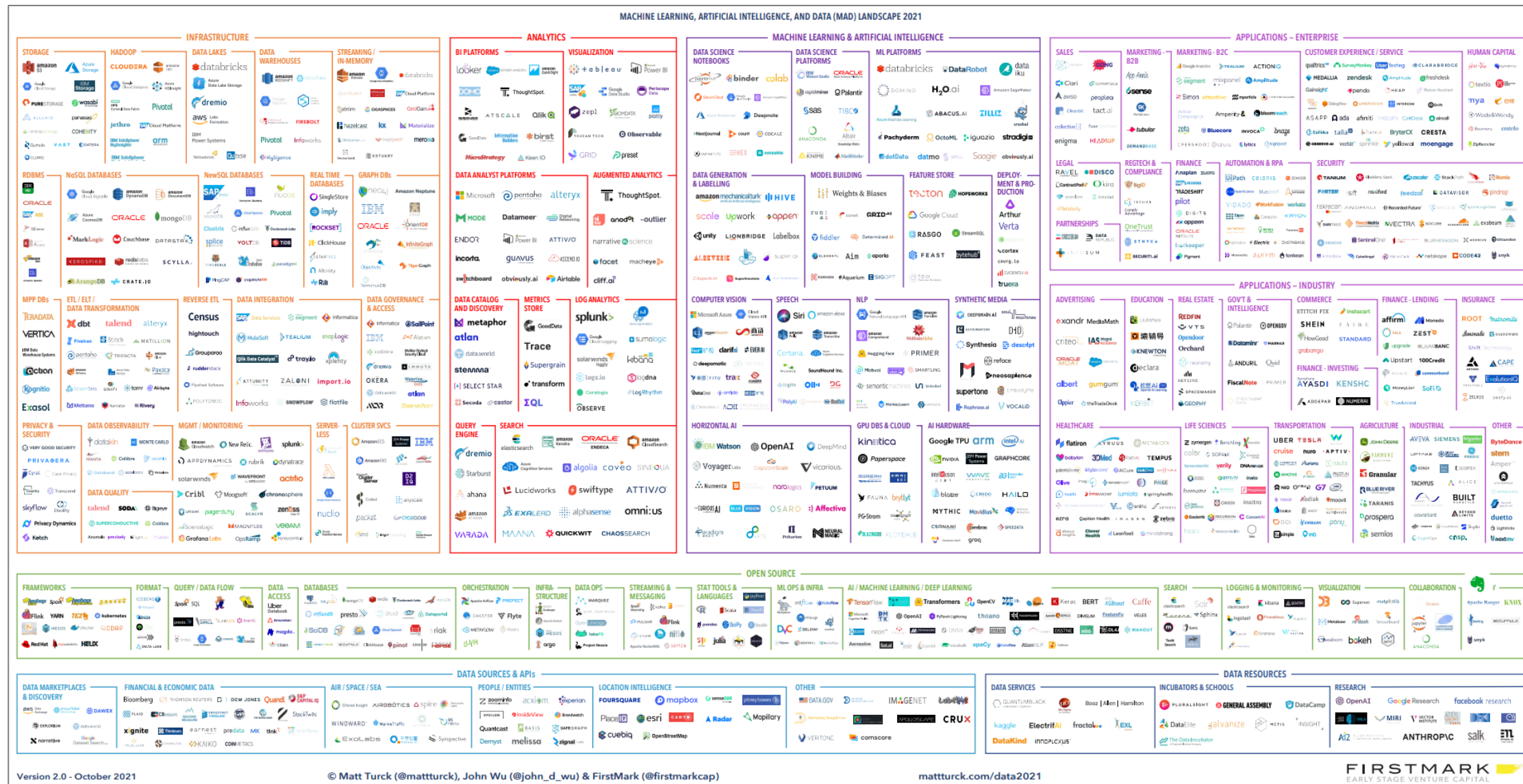


Penetration of Business Intelligence Solutions 2015-2021

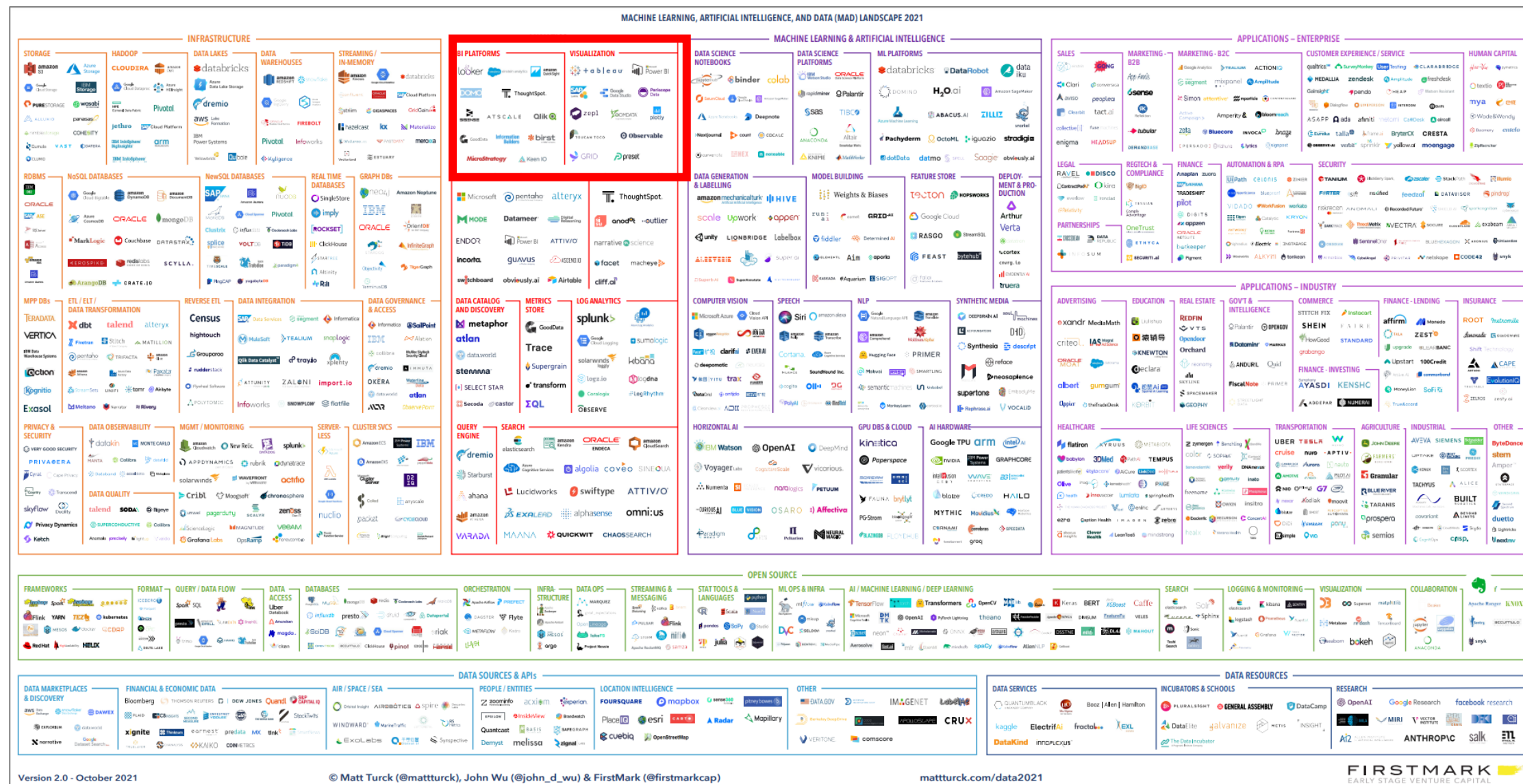


Piaci körkép

The 2021 ML, AI and Data (MAD) Landscape

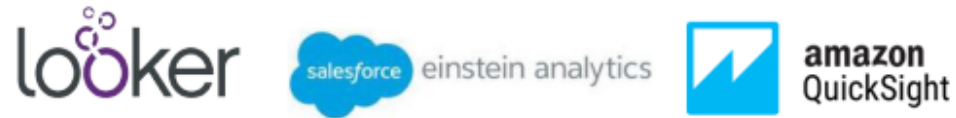


The 2021 ML, AI and Data (MAD) Landscape



The 2021 ML, AI and Data (MAD) Landscape

BI PLATFORMS



VISUALIZATION



Gartner - Magic Quadrant for Analytics and BI Platforms



2020



2021

Critical Capabilities for Analytics and Business Intelligence Platforms

Published 15 March 2021 - ID G00467560 - 46 min read

By Kurt Schlegel, James Richardson, [and 3 more](#)

The augmented era of analytics has begun. Data and analytics leaders should begin provisioning capabilities that support analytic consumers as well as authors. This research will help guide their choices of vendor solutions in this space.

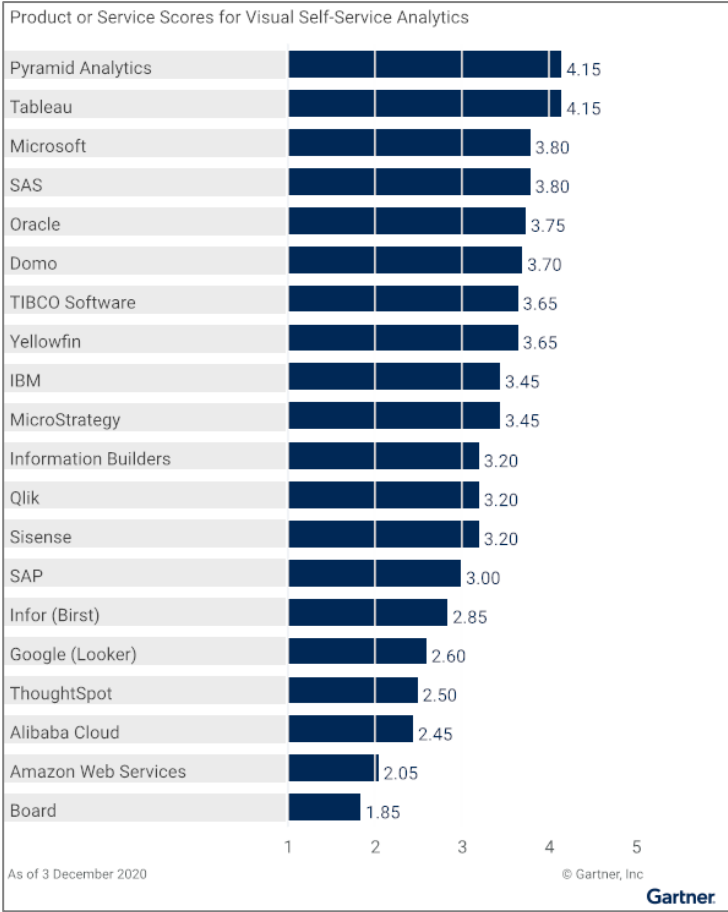
Overview

Key Findings

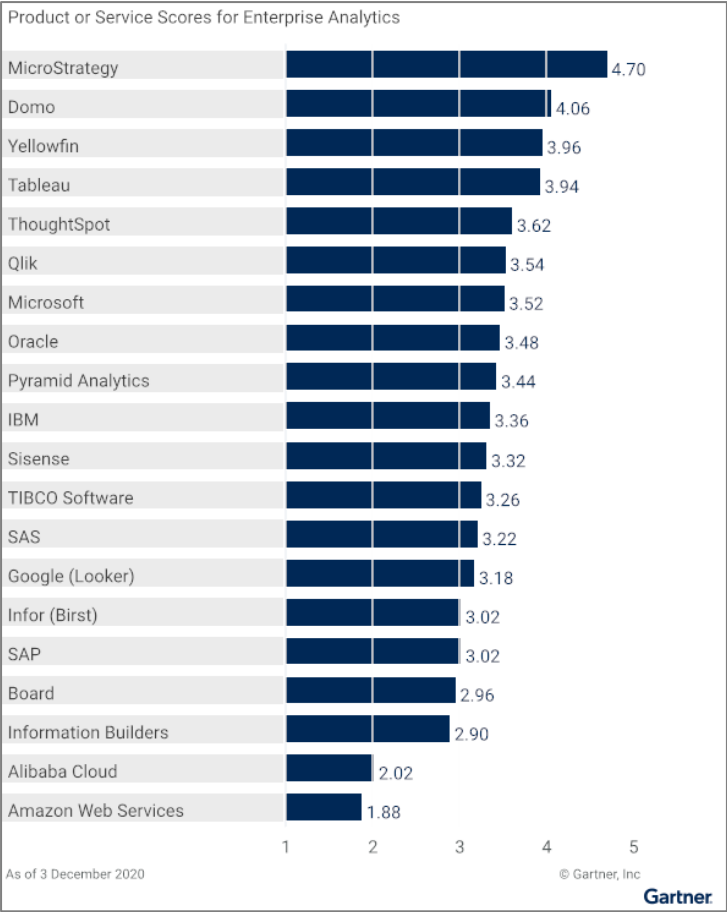
- Organizations are beginning to consider direct query architectures. This is a major departure from the in-memory architectures of the visual data discovery era of analytics.
- Natural language query (NLQ), natural language generation (NLG), reporting and catalogs are the most differentiated critical capabilities in the market. The standard deviation across all scores for all vendors is 0.818, but it jumps to 0.987 for these four capabilities.

Gartner - Kritikus képességek (2021)

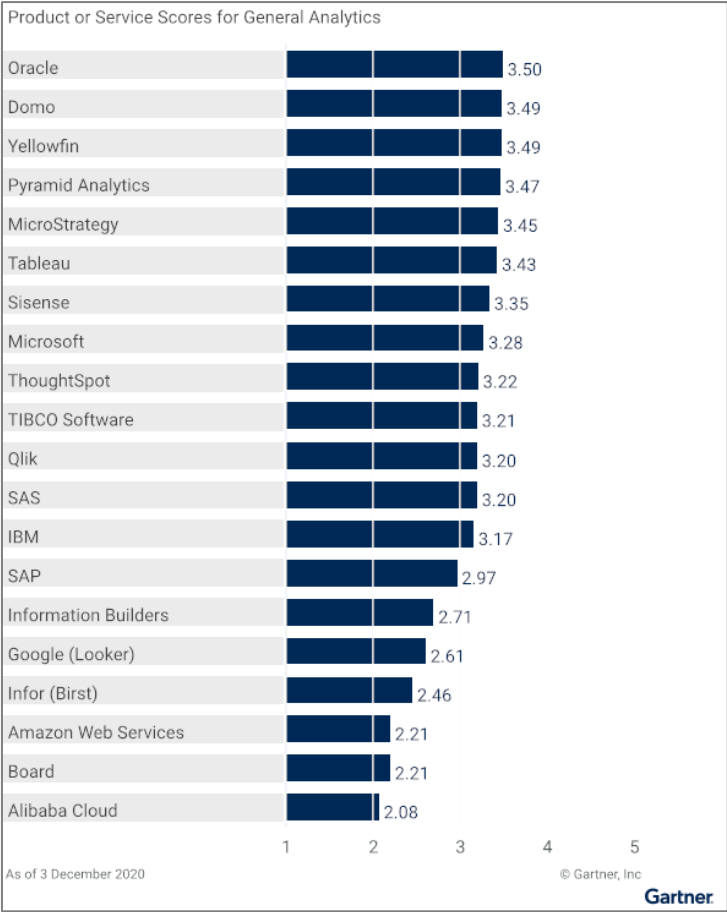
Visual Self-Service Analytics



Enterprise Analytics



General Analytics

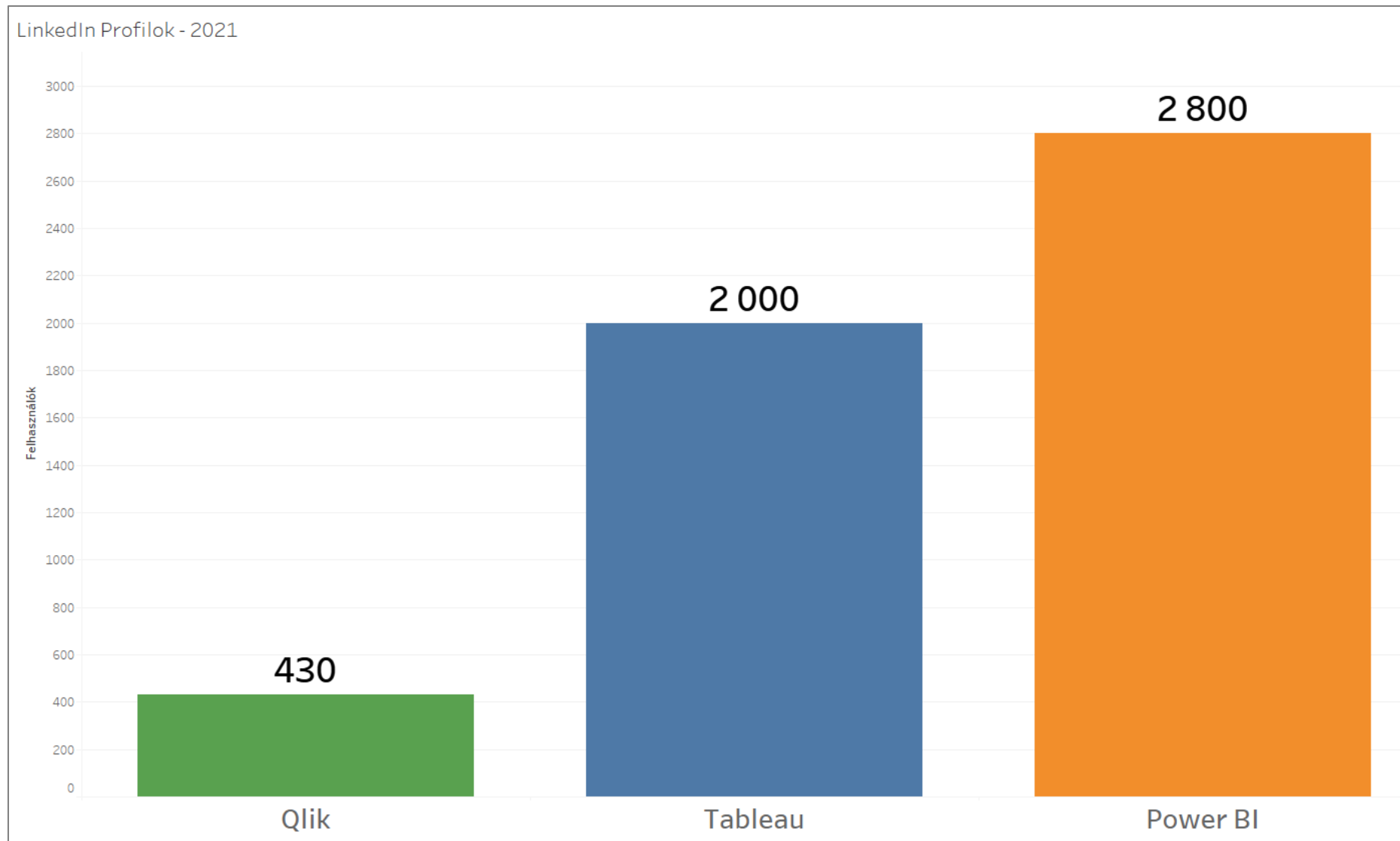


Hazai helyzet

Hazai helyzet

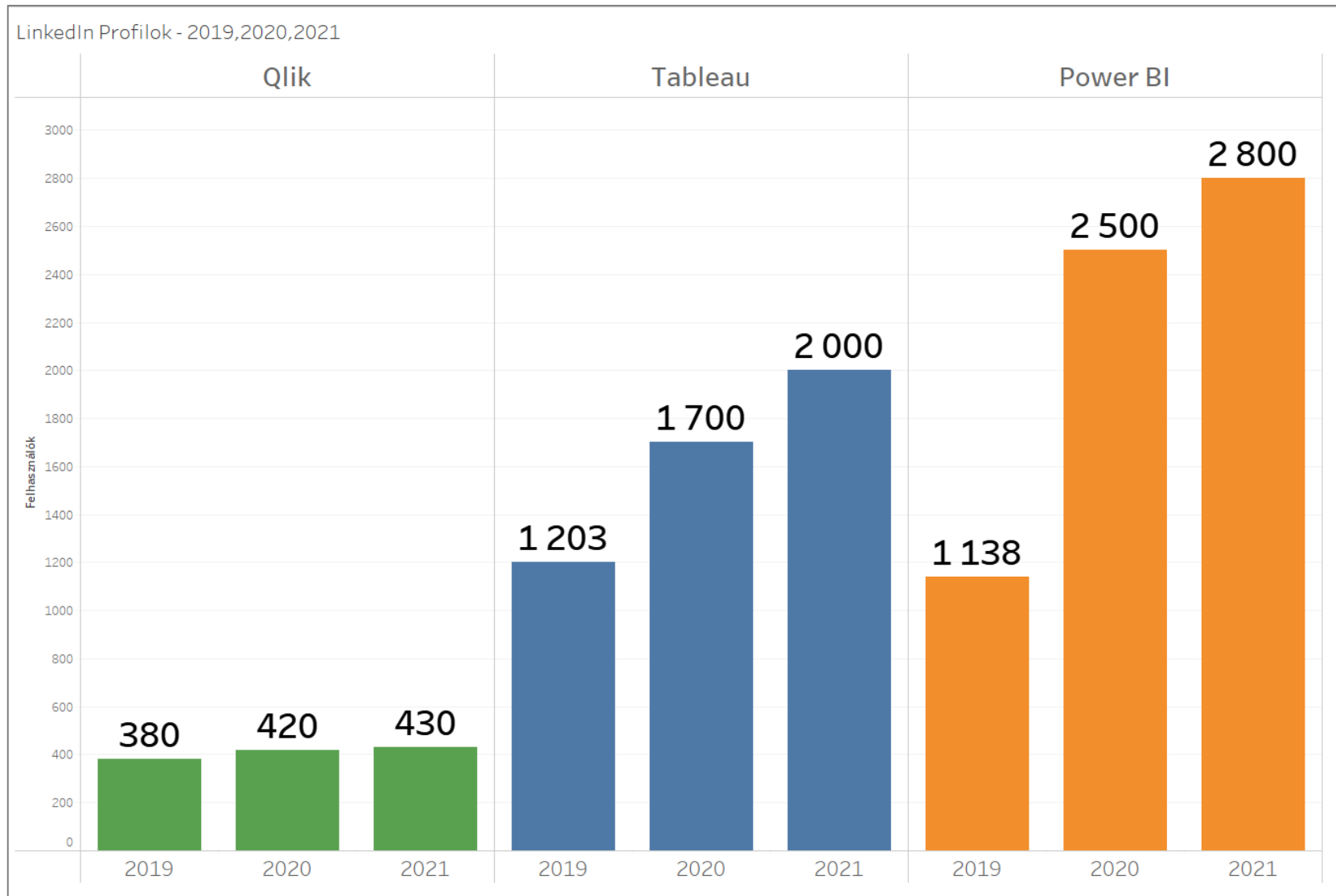
- A BI eszközök hazai népszerűségét nehéz felmérni
 - Felhasználó szervezetek számára vannak becslések
 - De a szervezetek között vannak 1 felhasználós és sok ezer felhasználós esetek is
- Saját becslés a különféle BI eszközök hazai felhasználószámára
 - LinkedIn ismerősök profiljai alapján készül
 - Erősen szubjektív, jelentős torzítás lehet benne

Qlik - Tableau – Power BI (2021. november)



Becslés néhány BI eszköz hazai felhasználószám arányaira, LinkedIn ismerős profilok alapján

Qlik - Tableau – Power BI (trend)



Becslés néhány BI eszköz hazai felhasználószám arányaira, LinkedIn ismerős profilok alapján

Akvizíciók és tőkebefektetések

Befektetési trendek

- Hatalmas forrásbőség (USA), könnyű finanszírozás
- „Snowflake” effekt
- Minden második VC pitch: „We are the open version of X (expensive enterprise software)”
- Open Source (újra) népszerűsége
 - Egyre több a jól használható open source eszköz
 - A Modern Data Stack jelentős része ilyen
- Cloud alapú új üzleti modell
 - Hagyományosan: open core + fizetős extrák, support
 - Új modell: open source szoftver + fizetős felhőszolgáltatás

Befektetések adatos cégekbe – 2021. első félév

Data engines and platforms
Starburst · Dremio · Databricks · StarTree · Firebolt · Imply

ETL and workflow
Prefect · Matillion · Airbyte

Data catalog and metadata
Alation · Acryl Data · Atlan · Stemma

Databases
Cockroach Labs · TigerGraph · Yugabyte · Timescale · Neo4j

Data Quality and observability
Monte Carlo · BigEye

Other
Snowplow · Jedox · SafeGraph · Streamlit



Felvásárlások

Felvásárlások

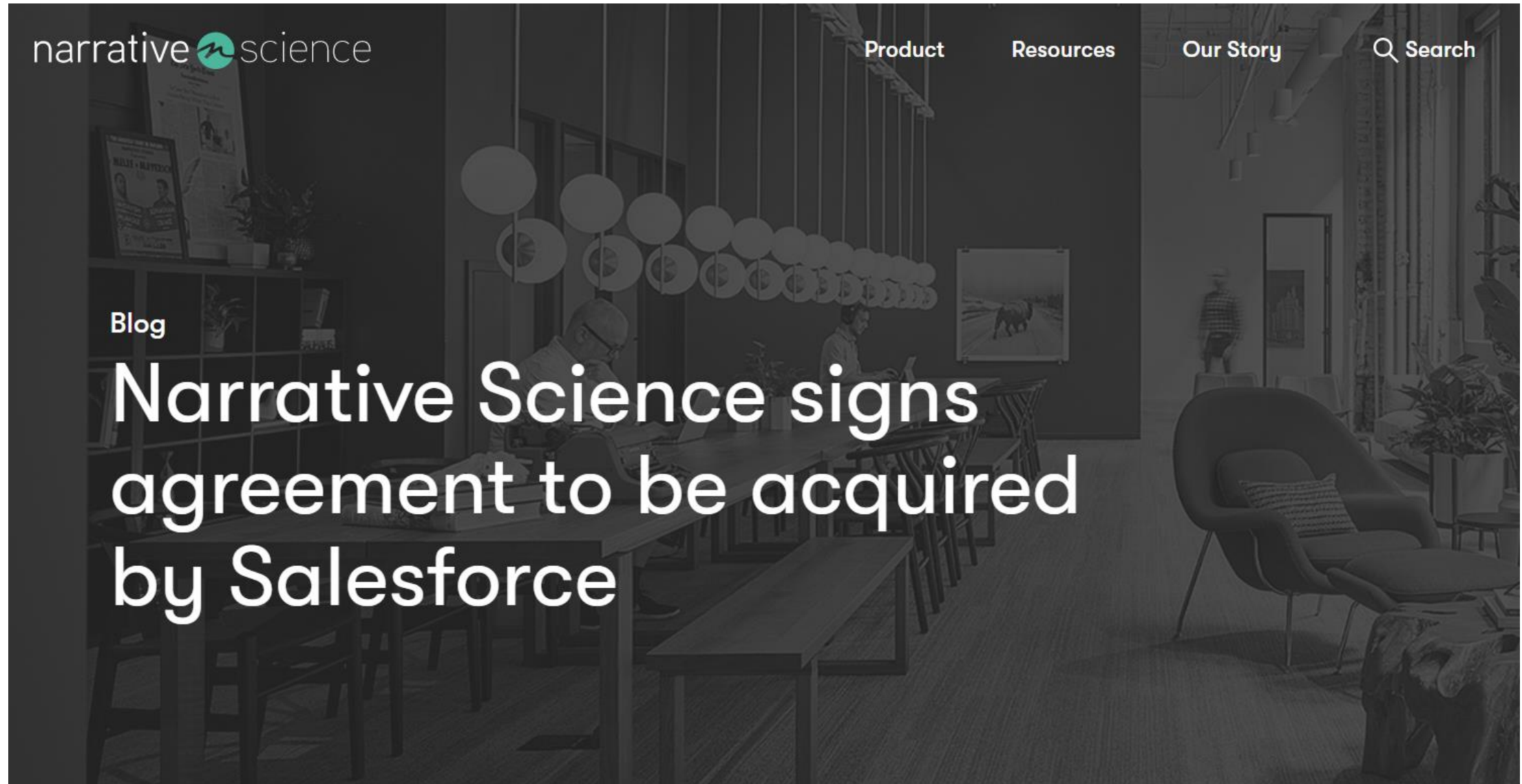
- 2019-20 során jelentős konszolidációs hullám
 - Salesforce – Tableau, Google-Looker, Tibco-Information Builders
- Azóta inkább a taktikai felvásárlások jellemzően
 - A Qlik sorozatban veszi a kisebb-nagyobb cégeket
 - A Tableau data storytelling-re specializálódott céget vett

2019-2020: a nagy konszolidáció

Dátum	Felvásárló	Felvásárolt	Összeg
2019. február	Qlik	Attunity	500 millió dollár
2019. május	Sisense	Periscope Data	100 millió dollár
2019. június	Salesforce	Tableau	15,7 milliárd dollár
2019. június	Google	Looker	2,6 milliárd dollár
2019. június	Logi Analytics	Zoom Data	nem ismert
2019. szeptember	Cloudera	Arcadia Data	nem ismert
2020. október	Tibco	Information Builders	1 milliárd dollár (?)

Vertikális integráció - Qlik

Dátum	Felhasználó	Felvásárolt	Terület
2021. október	Qlik	Big Squid	Machine learning
2021. augusztus	Qlik	NodeGraph	Metadata kezelés
2020. augusztus	Qlik	Knarr Analytics	realtime BI
2020. január	Qlik	RoxAI	Alerting
2019. február	Qlik	Attunity	adatintegráció
2019. január	Qlik	Crunchbot	NLP, chatbots
2018. augusztus	Qlik	Podium Data	Big Data, data fabric



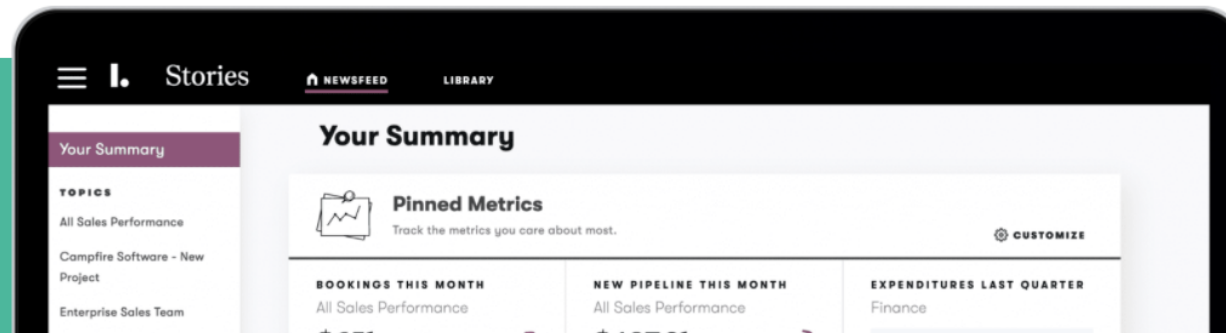
No more dashboards.

Hello automated, personalized, language-first data stories.

Make data a daily habit for your entire team with Data Storytelling in Lexio.

Start Here

Get a Demo



Befektetések

Befektetések

- A piac három szegmense közül a kihívókba történő befektetések az érdekesek
 - Preset – Apache Superset commercial fejlesztése és támogatása
 - Metabase – a Metabase szoftver fejlesztése és támogatása
 - Observable – Javascript alapú vizualizációs platform
 - Streamlit – Python alapú dashboard- és analitikus appfejlesztés
- Jellemző modell: open source szoftver + fizetős felhőszolgáltatás
- Hazai vonatkozású esemény a Vizzu tőkebevonása, amely animációra koncentráló Javascript vizualizációs könyvtárat fejleszt

Befektetések a kihívó cégekbe

Megavendorok
IBM (Cognos)
Google (Looker, Data Studio)
Microsoft (Azure, Power BI)
Oracle (Oracle Analytics)
SAP (BusinessObjects)
Salesforce (Tableau)

Specialisták
MicroStrategy
Qlik
SAS
SiSense
Toughtspot
Yellowfin

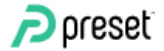
Kihívók
Preset (Superset)
Metabase
Observable
Streamlit

Befektetések a kihívó cégekbe

Év	Cég	Befektetés
2021	Preset (Superset)	35,9 millió dollár
2021	Streamlit	35 millió dollár
2021	Metabase	30 millió dollár
2020	Observable	10,5 millió dollár
2020	Streamlit	21 millió dollár
2019	Streamlit	6 millió dollár
2019	Metabase	8 millió dollár
2019	Preset (Superset)	\$12,5 millió dollár

Preset (Superset)

Preset announces \$35.9M Series B to democratize business intelligence [Learn More →](#)



[Product](#) [Resources](#) [Pricing](#) [Company](#)

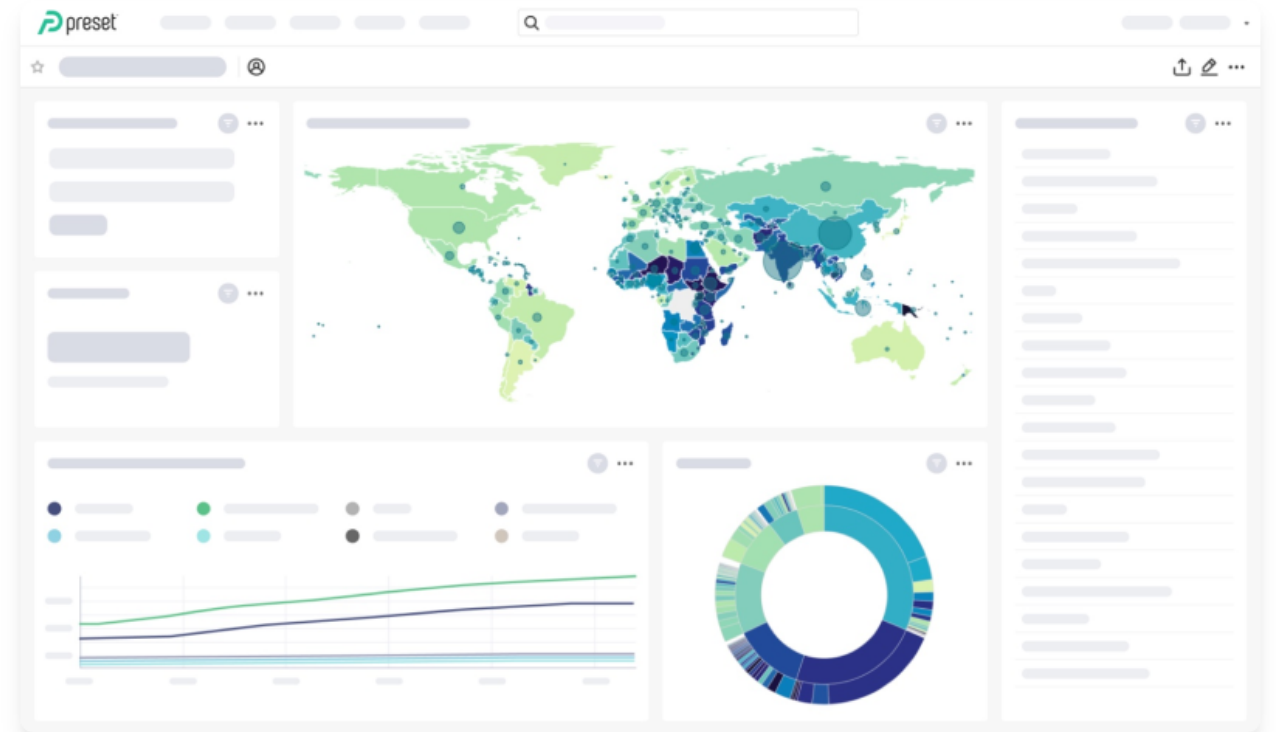
[Contact Sales](#) [Log In](#)

[Start for free](#)

Modern business intelligence for your entire organization

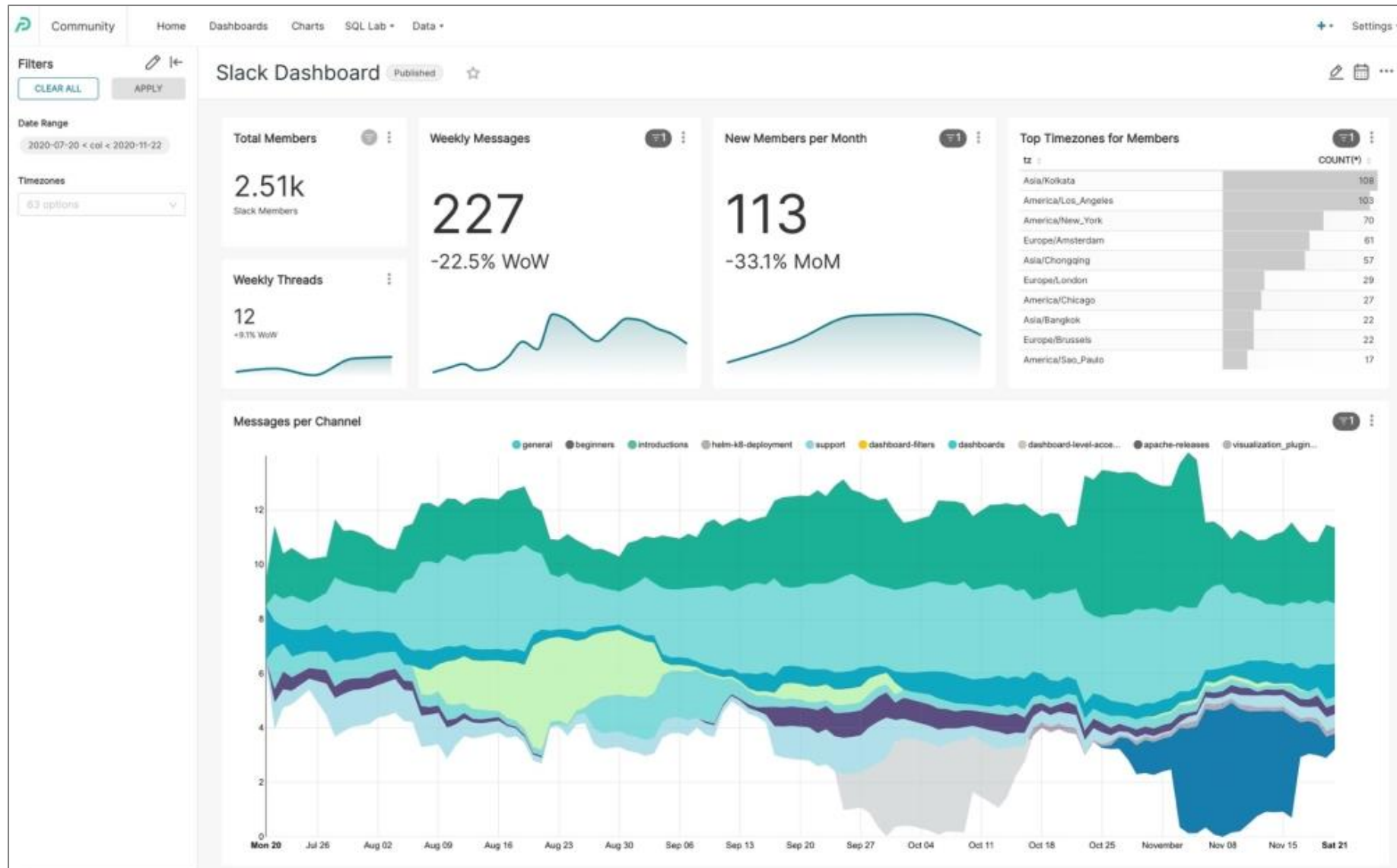
Powerful, easy to use data exploration and visualization platform, powered by open source Apache Superset™

[Start for free](#)



<https://preset.io>

Preset (Superset)



Preset (Superset)

Start using Preset Cloud for free today!

Choose the right plan for you

Starter

Hassle free Superset in the cloud, best for small teams.

Free

Forever, for up to 5 users

Features

- ✓ Unlimited dashboards and charts
- ✓ No-code chart builder
- ✓ Collaborative SQL editor
- ✓ Over 40 visualization types
- ✓ Chart and dashboard cache
- ✓ Semantic layer
- ✓ Up to 5 users
- ✓ 1 workspace
- ✓ In depth docs and tutorials

GET STARTED

Professional

Collaborate securely across your entire organization.

\$20/month

Per user, billed annually
\$22 per user billed monthly

Everything in Starter, plus

- ✓ Unlimited users
- ✓ 2 additional workspaces
- ✓ Role-based access controls (RBAC)
- ✓ Single sign on (SSO)
- ✓ Scheduled email reports & alerts
- ✓ Slack integration for reports & alerts
- ✓ Multi-region support
- ✓ Standard customer support

TRY FOR FREE

Enterprise

Enterprise deployment at scale, best for large organizations.

Custom

Contact us to get a customized price estimate for your team

Everything in Professional, plus

- ✓ Unlimited workspaces
- ✓ Multiple deployment options
- ✓ API access
- ✓ Enterprise customer support
- ✓ Enterprise SLA

CONTACT US

<https://preset.io/pricing>



Product ▾DocumentationEnterpriseResources ▾Pricing

Log inGet started

Have questions about your data?

Metabase has answers.

Meet the easy, open source way for everyone in your company to ask questions and learn from data.

Get startedSee how Metabase works ▶



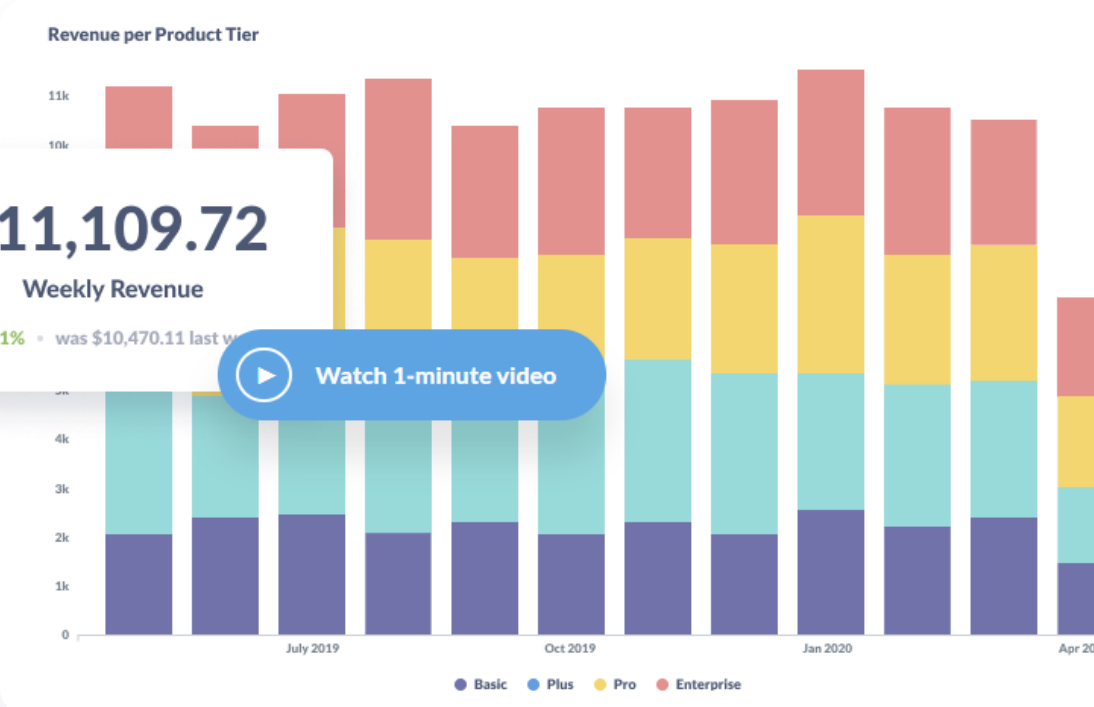
Revenue per Product Tier

\$11,109.72

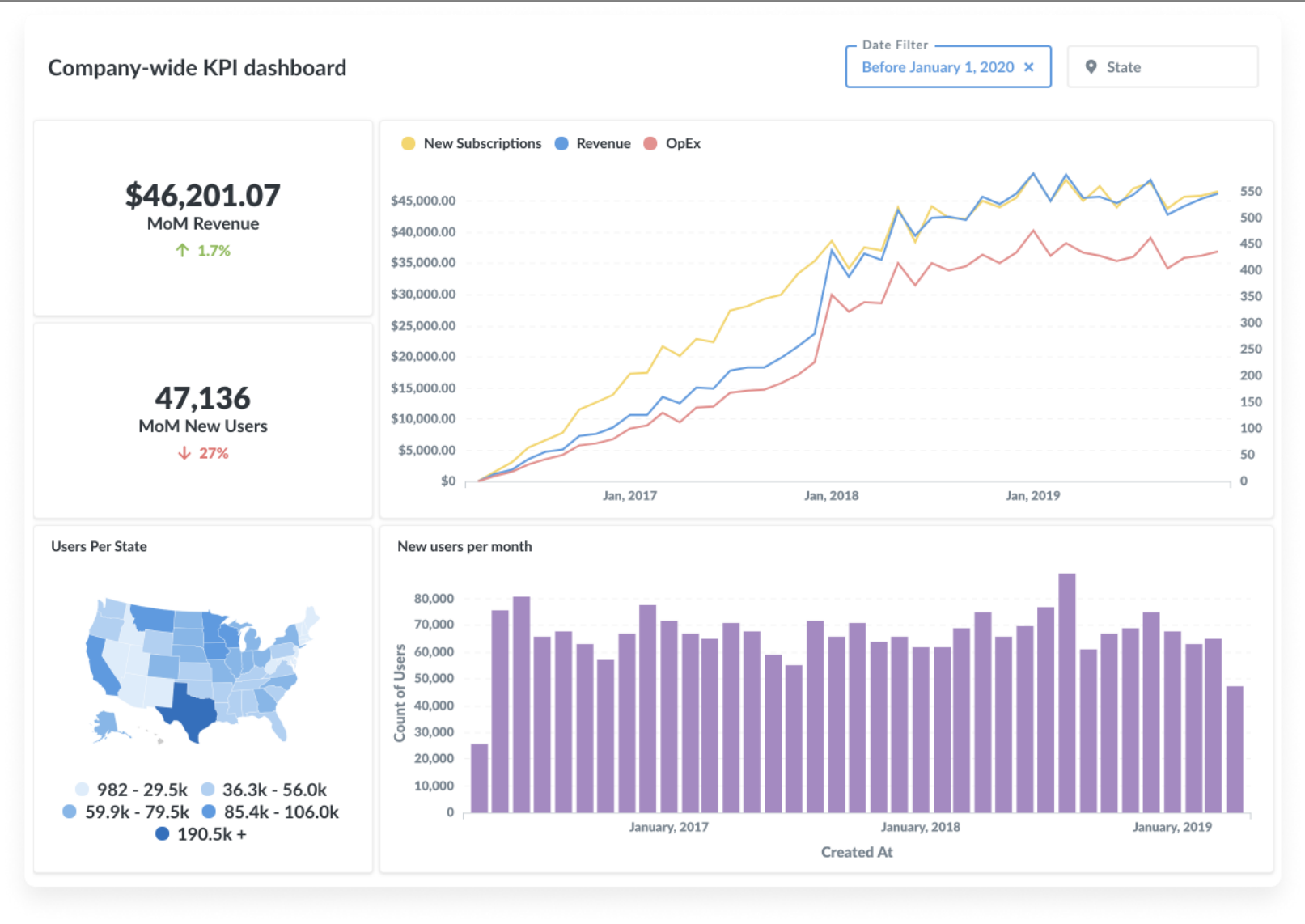
Weekly Revenue

↑ 6.1% was \$10,470.11 last week

▶ Watch 1-minute video



Month	Basic	Plus	Pro	Enterprise
July 2019	2.1k	2.2k	2.3k	2.4k
Aug 2019	2.2k	2.3k	2.4k	2.5k
Sept 2019	2.3k	2.4k	2.5k	2.6k
Oct 2019	2.4k	2.5k	2.6k	2.7k
Nov 2019	2.5k	2.6k	2.7k	2.8k
Dec 2019	2.6k	2.7k	2.8k	2.9k
Jan 2020	2.7k	2.8k	2.9k	3.0k
Feb 2020	2.8k	2.9k	3.0k	3.1k
Mar 2020	2.9k	3.0k	3.1k	3.2k
Apr 2020	3.0k	3.1k	3.2k	3.3k



 Cloud

Metabase as a service

 On-Prem

Manage it yourself

Open Source

The user-friendly BI suite in a box.

- ✓ Unlimited charts
- ✓ Unlimited dashboards
- ✓ Connect to 20+ database types
- ✓ Use 15+ visualizations
- ✓ Schedule updates via email or Slack

Support
Our friendly forum

Deployment
Self-hosted

Free

Get installation instructions

Pro

An upgrade for growing teams and startups. Includes everything in Starter, plus:

- ✓ Single sign-on via SAML, JWT, or advanced LDAP
- ✓ Advanced embedding
- ✓ Whitelabeling: customize logo, colors, and more
- ✓ Row-level permissions
- ✓ User-, dashboard-, and table-level data access audit logs

Support
3-day email

Deployment
Self-hosted

\$500/month
Incl. 10 users, then \$10/user/month

Start free trial

Enterprise

An upgrade for large teams and organizations. Includes everything in Pro and Starter, plus:

- ✓ Priority support
- ✓ Annual billing
- ✓ Invoicing

Support
Priority support

Deployment
Self-hosted

Custom Quote
Per-user varies

Contact us

 Cloud

Metabase as a service



On-Prem

Manage it yourself

Starter

The user-friendly Cloud BI suite in a box. Includes everything you need to get started:

- ✓ Unlimited charts
- ✓ Unlimited dashboards
- ✓ Connect to 20+ database types
- ✓ Use 15+ visualizations
- ✓ Schedule updates via email or Slack
- ✓ Fully managed cloud
- ✓ Automated upgrades and backups
- ✓ Out-of-the-box SMTP server
- ✓ Migrate from open source

Support

3-day email

Deployment

Metabase Cloud

\$85/month

Incl. 5 users, then \$5/user/month

Start free trial

Pro

An upgrade for growing teams and startups. Includes everything in Starter, plus:

- ✓ Single sign-on via SAML, JWT, or advanced LDAP
- ✓ Advanced embedding
- ✓ Whitelabeling: customize logo, colors, and more
- ✓ Row-level permissions
- ✓ User-, dashboard-, and table-level data access audit logs

Support

3-day email

Deployment

Metabase Cloud

\$500/month

Incl. 10 users, then \$10/user/month

Start free trial

Enterprise

An upgrade for large teams and organizations. Includes everything in Pro and Starter, plus:

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Deployment

Metabase Cloud

Custom Quote

Per-user varies

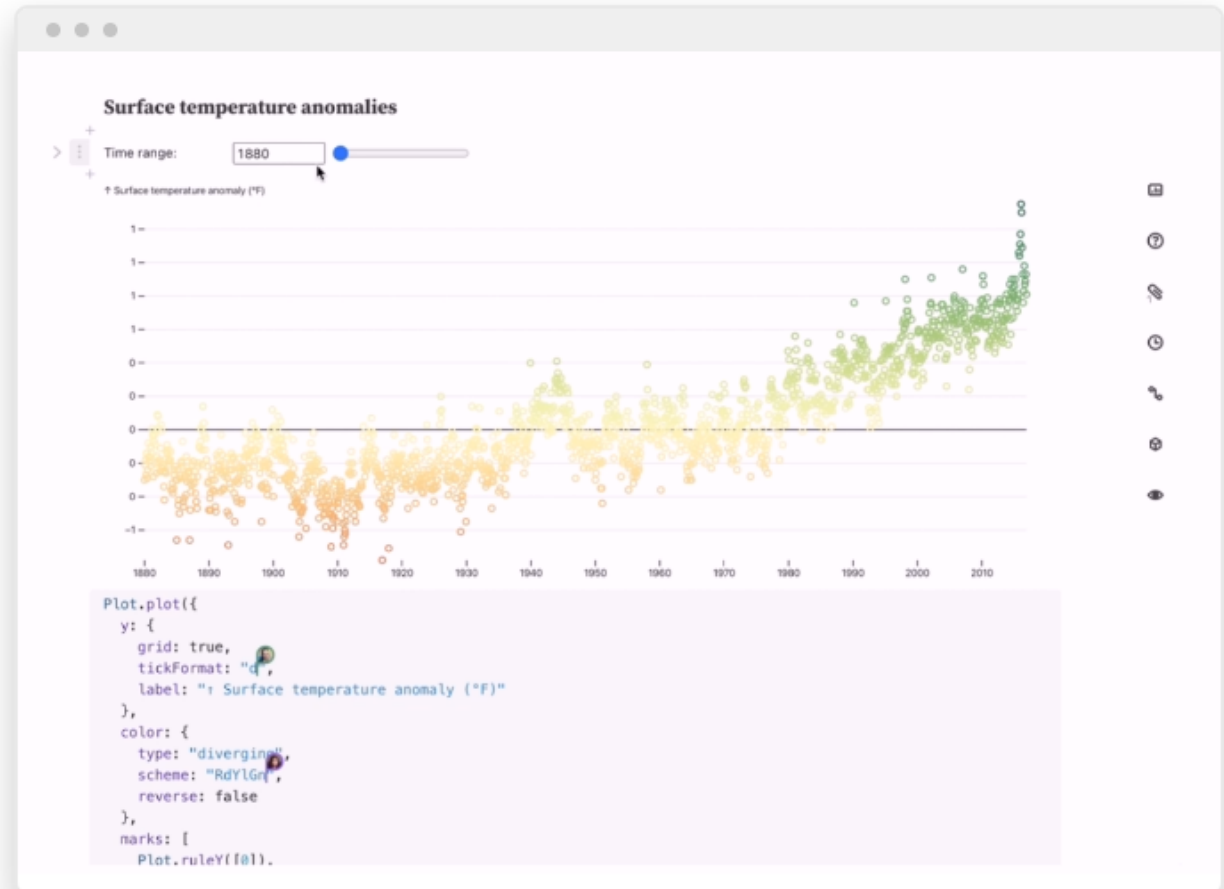
Contact us

<https://www.metabase.com/pricing>

Explore, analyze,
and explain data.

As a team.

*Uncover new insights, answer more
questions, and make better decisions.*



Observable

> ⋮ Introducing Observable Plot

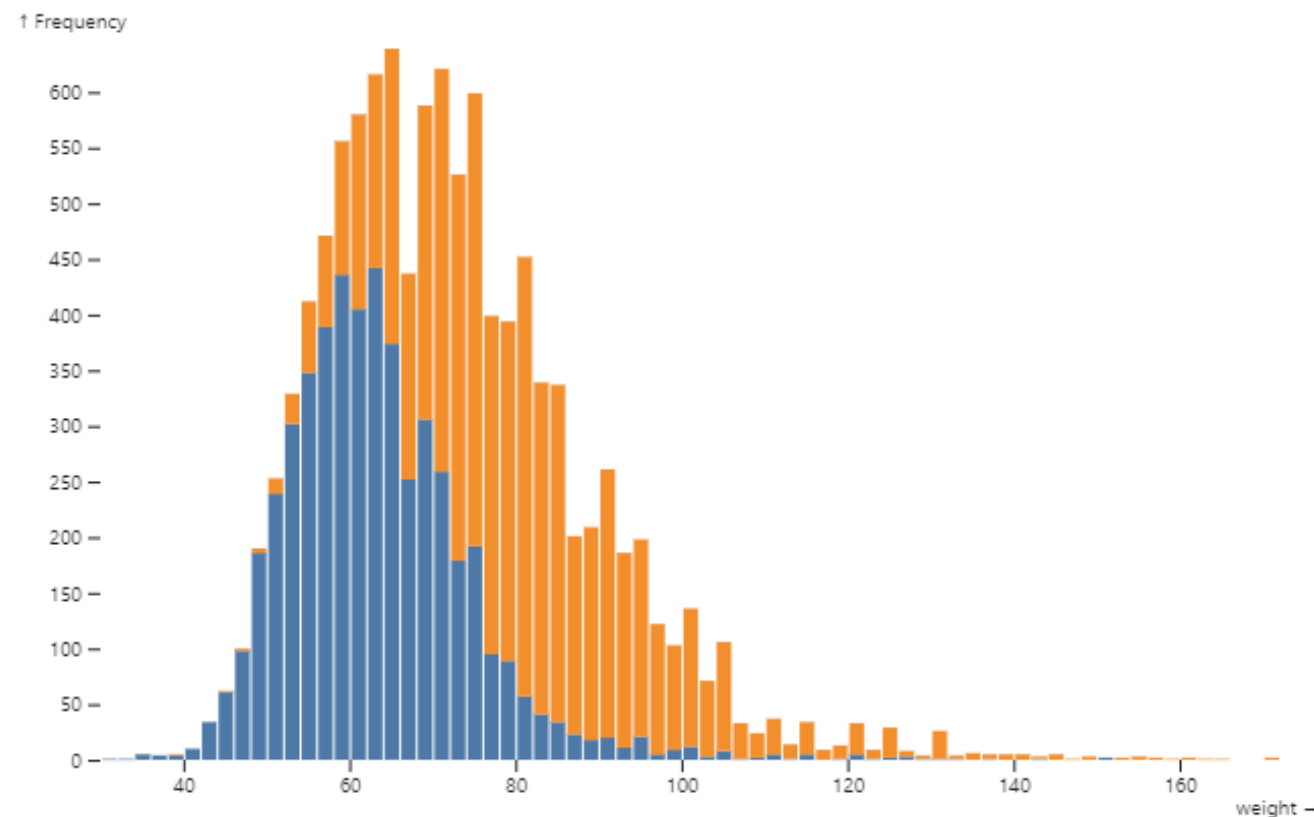
© Observable

No pie charts were harmed in the making of this logo.

We are thrilled to announce **Observable Plot**, a new open-source JavaScript library for exploratory data visualization.

Observable Plot

A simpler take on this data is to focus on one dimension: weight. We can use the bin transform again to make a histogram with weight on the x -axis and frequency on the y -axis. This plot uses a `rect mark` and an implicit `stack transform`.



```
Plot.rectY(athletes, Plot.binX({y: "count"}, {x: "weight", fill: "sex"})).plot()
```

Choose the best plan for your needs.

Free

For individual creators and people getting started with Observable

\$0

Get started

- ✓ Unlimited notebooks
- ✓ Unlimited publishing
- ✓ Five editors per notebook

Teams

For teams and companies who need to collaborate in private workspaces

\$12 per editor/month billed annually*

Try for free

Everything in Free, plus...

- ✓ Unlimited editors per notebook
- ✓ Unlimited free team viewers
- ✓ One month **free trial**

* \$15 when billed monthly

Enterprise

For companies with advanced security and support needs

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- ✓ Advanced security and authentication
- ✓ Dedicated support
- ✓ Onboarding help
- ✓ One month **free trial**

* 25 editor minimum

All dollar amounts are in USD.

📰 Latest news: Streamlit Cloud, Streamlit 1.0 Launch, Support for Session State!



[Cloud](#) [Gallery](#) [Components](#) [Community](#) [Docs](#) [Blog](#)

[Sign in](#)

The fastest way to build and share data apps

Streamlit turns data scripts into shareable web apps in minutes.
All in Python. All for free. No front-end experience required.

[Try Streamlit now](#)

[Sign up for **Streamlit Cloud**](#)

Select Dispatch Method

Maximise Self Consumption

Select the week of data you want to view:

Week 28

Week 1

Week 52

Solar PV Size Parameter

Enter the Nominal Solar PV Power (kW)

10

-

+

Battery Parameters

Enter the Battery Capacity (kWh)

40

-

+

Enter the Battery Efficiency

0.90

-

+

Enter the Maximum Battery Power (kW)

20

-

+

Enter the Inverter Efficiency

0.85

-

+

Tariff Parameters

Enter the Price to Buy Electricity (p/kWh)

18

-

+

Enter the Price to Sell Electricity (p/kWh)

8

-

+

About

This page uses Streamlit to create a battery dispatch app.

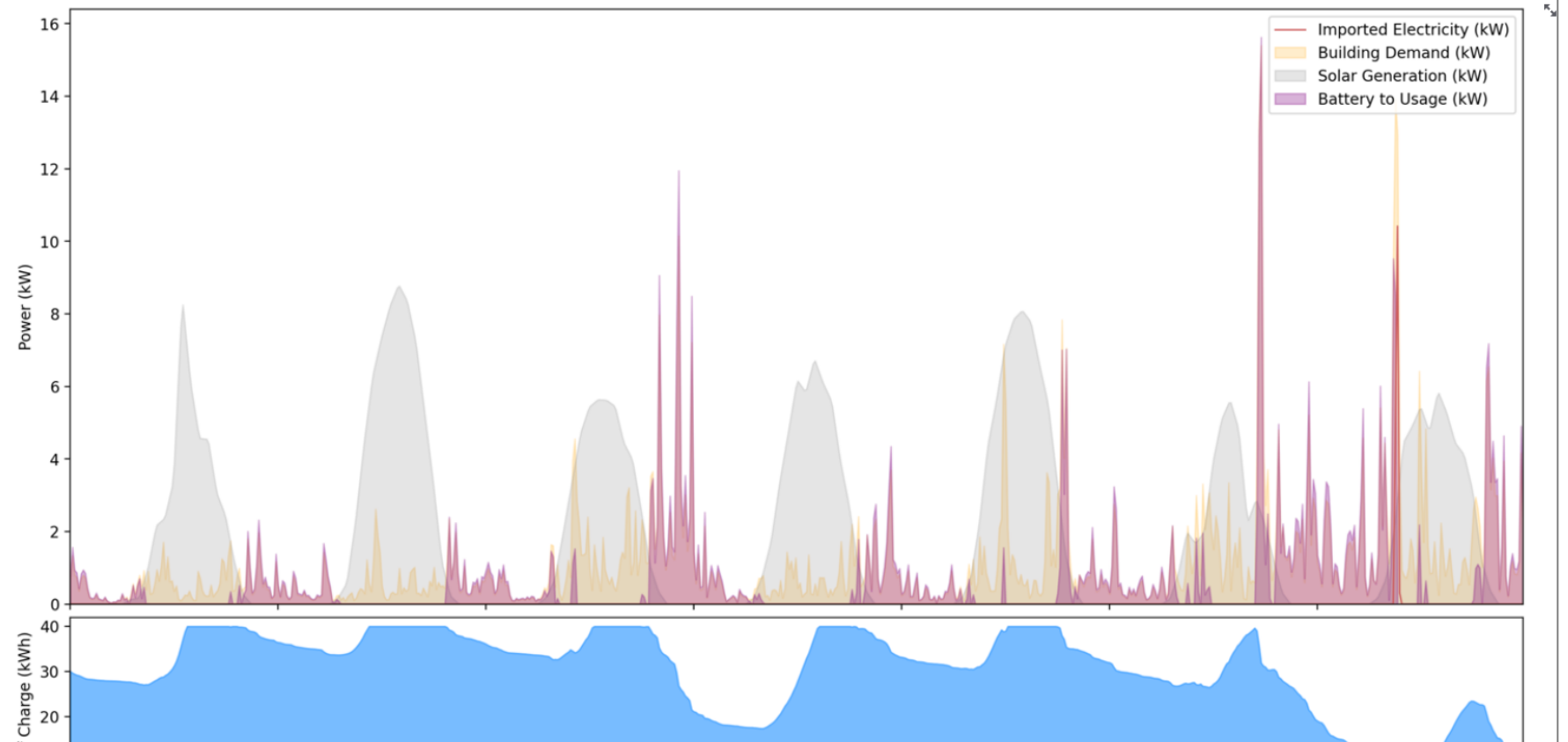
Check the code at ([@obedsims](#))

Designing a Building Battery Dispatch Strategy

A Web App by Obed Sims (@obedsims)

Hey there! Welcome to my app. This app lets the user try out various battery dispatch methods (how the battery is used to meet demand and supply). You can vary any of the parameters to see how they affect the performance. Beneath the confusing graph it gives the user details on the performance of each dispatch method and further insights into the models. **Give it a go!**

Data Information



PRICING

Choose the package that's right for you

Build apps for yourself or your whole company. You make the apps and we'll handle the containers, authentication, scaling, security and everything else!

Library

Open Source

All the widgets, layouts, themes, visualizations you need to build awesome apps.

Get started

Community

Free

Build and share apps with the world. Great for students, open-source projects, and anyone looking to test out Streamlit.

- ✓ 3 public apps
- ✓ Open access
- ✓ Public repos only

Get started

Teams

\$250_{/mo}

A workspace for your data team to effortlessly build and share data apps with your stakeholders. Free 30-day trial!

- ✓ 10 apps
- ✓ 20 users
- ✓ Private to your company

Start free trial

Enterprise

Contact us

Securely share apps with your entire company with scaling and support packages that fit your company's needs.

- ✓ Custom workspaces
- ✓ Flexible packages
- ✓ SAML + SSO

Contact us

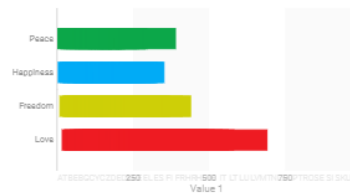


9 PERCES OLVASÁSI IDŐ • NAPI CÍMLAP • KIS JUDIT

A Prezi nyomdokaiba lépne az adatvizualizációs startup

2021. ÁPRILIS 26.

Táblázatokkal való bíbelődés és statikus grafikonok helyett interaktív, animált chartok és történetmesélés úgy, hogy nem egy adattömeg kavarog a fejedben, hanem akár napokkal később is emlékszel a fő számokra és a mondanivalóra. A Vizzu magyar startup azonos nevű termékének ugyan még csak a prototípusa van készen, de sokan már most az adatok Prezijének nevezik. Az első, 66 millió forintos befektetői körön túl most teljes gőzzel ráfordultak a termékfejlesztésre; a friss befektetés részleteiről és terveikről a Forbes.hu-nak beszélt először Vidos Péter, a Vizzu ügyvezetője.

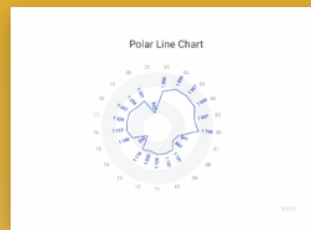


Vizzu is a free, open-source JavaScript library for **animated** data stories and visualizations.

VIZZU applications

You can build all these great things with Vizzu, using the power of animation in data viz.

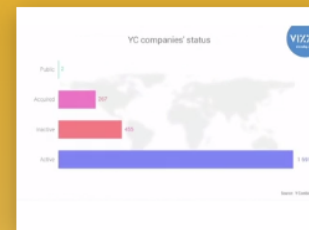
static charts



animated charts



data stories



data explorers



TUTORIAL

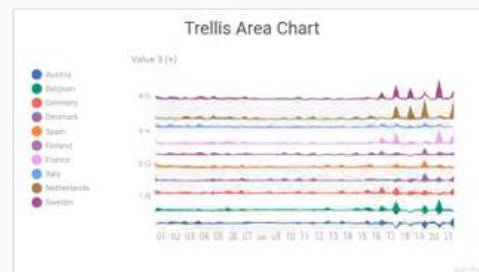
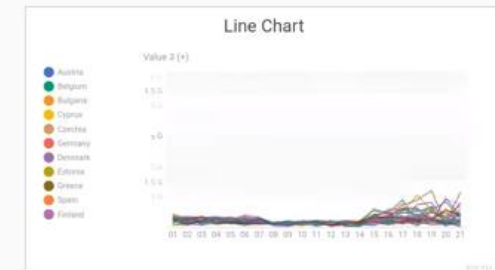
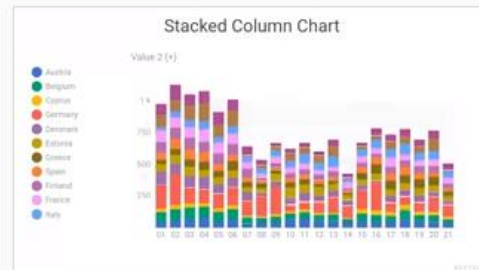
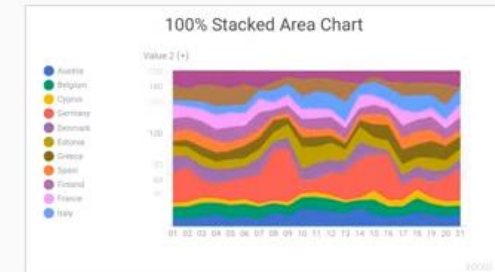
- Intro
- Data
- Axes, title, tooltip
- Geometry
- Channels & legend
- Group/stack
- Sorting
- Align & range
- Aggregate/drill-down
- Orientation, split & polar
- Filtering & adding new records
- Without coordinates & noop channel
- Color palette & fonts
- Chart layout
- Animation options
- Animation control
- Events
- Shorthands & Store

EXAMPLES

- Static Charts
- Animated Charts**
- Stories

REFERENCE

Animated Charts



Tech trendek

A dashboard halála

A dashboard halála

- Visszatérő gondolat, hogy a dashboardok nem a legjobb eszközök a BI széles körben történő elterjesztéséhez
 - Túl sok, túl bonyolult dashboard
 - Lassan készülnek, nehéz a karbantartásuk
 - Körülményes megtalálni a megfelelőt
- Alternatív megközelítések
 - Természetes nyelvű interfészek („Show sales trends for the last 2 years”)
 - Keresés alapú felhasználói felületek (pl. ThoughtSpot)
 - A platform részét képező intelligens ügynökök riasztásai (pl. Yellowfin Signals)

A dashboard halála

Dashboards are Dead



Taylor Brownlow · Apr 9, 2020 · 7 min read ★



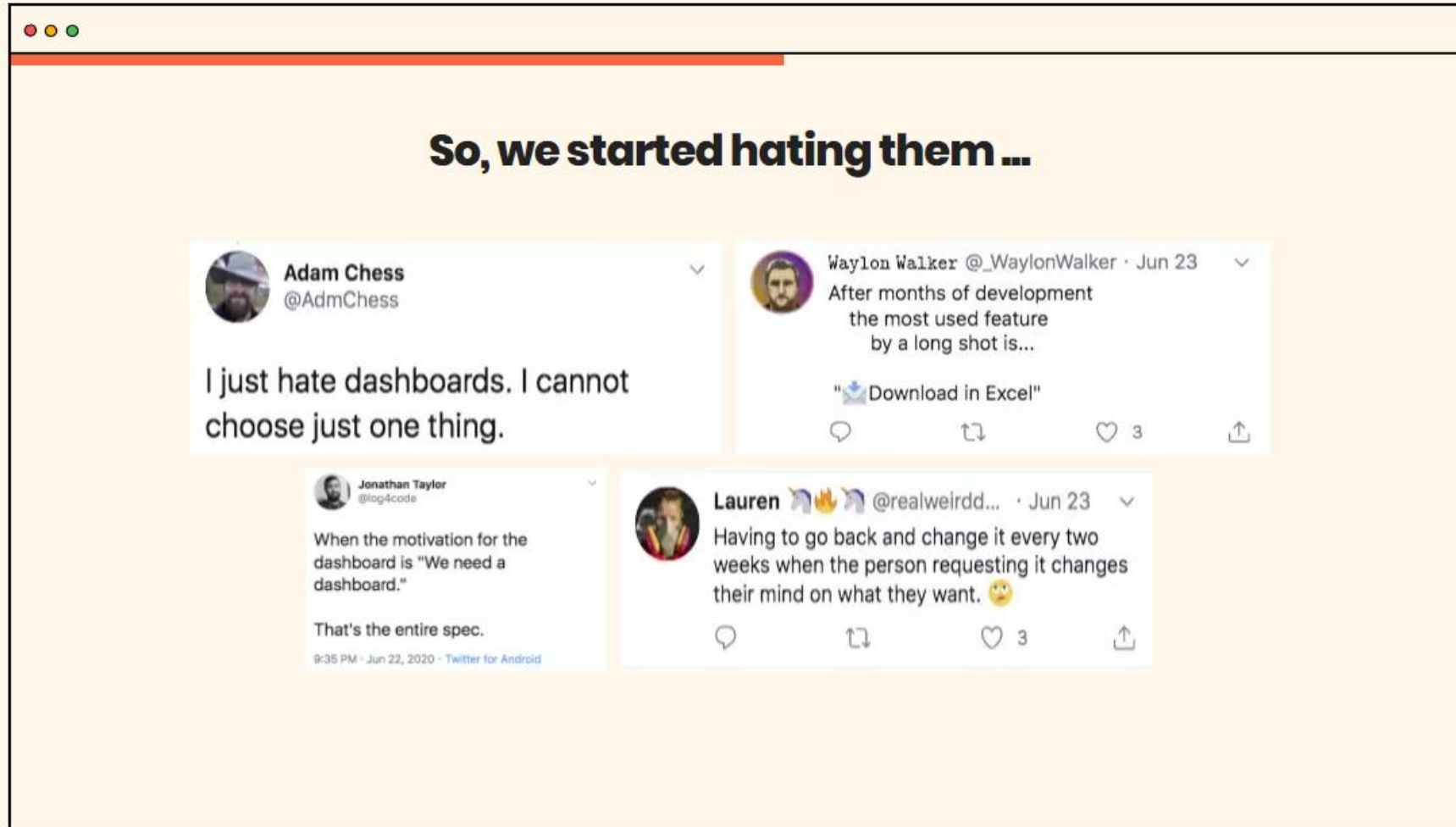
Dashboards have been the primary weapon of choice for distributing data over the last few decades, but they aren't the end of the story. To increasingly democratize access to data we need to think again, and the answer may be closer than you think...!

Hello Dashboard, my old friend

When I started my career, I was working in a large tech manufacturing company. The company had just purchased its first dashboarding tool and our team was responsible for the exciting transition from tired spreadsheets and SSRS reports to shiny, new dashboards.

<https://towardsdatascience.com/dashboards-are-dead-b9f12eeb2ad2>

A dashboard halála



A dashboard halála

Dashboards vs. modern world speeds



[Uber source](#), [Flight from NYC to Singapore source](#), [International shipping source](#)

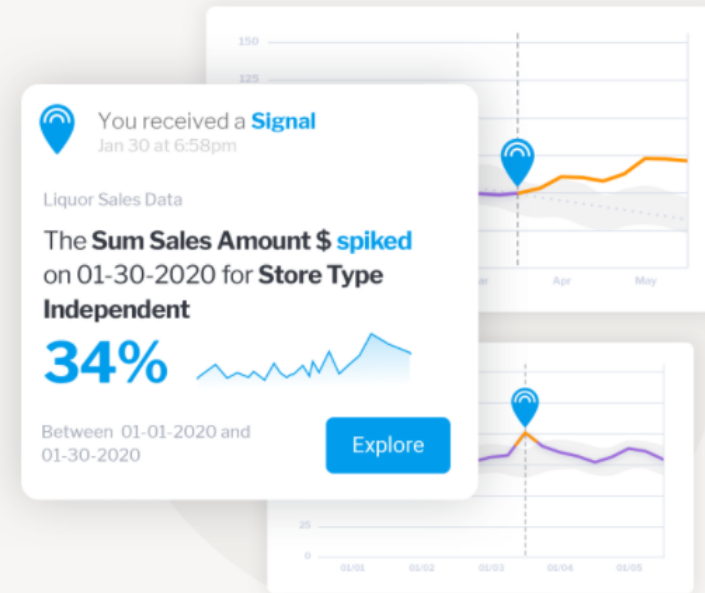


A dashboard halála

Insights that find you with automated business monitoring

Whether you're using threshold based alerts or Yellowfin Signals to automatically monitor your data, you can ensure that you will know when and why important changes to your business data happens, when they happen.

 Watch Yellowfin Signals



**Yellowfin Signals and threshold alerts.
Always monitoring, discovering, searching
and analyzing your business data**

A dashboard halála



ThoughtSpot.

EBOOK

Dashboards are dead.

How Live Analytics is delivering personalized insights for all



For more than 20 years, dashboards served as a foundational element of business intelligence, helping leaders visualize and share valuable data across their organization.

Yet even after two decades of tremendous investment, analytics adoption rates have stagnated at just 30%. Today, only 10% of executives believe their company is analytics mature and more than 84% of frontline workers report poor analytics experiences and needing better insights technology. That's because dashboards weren't built to meet the needs of today's always-on, always-changing world. Your business can't afford to wait days or weeks for trained analysts to produce insights from stale data. You need personalized insights from your cloud data now.

In this ebook, you'll learn why data leaders are increasingly turning away from analytics dashboards and discover:

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<https://go.thoughtspot.com/e-book-dashboards-are-dead.html>

Headless BI

Headless BI

- A probléma: a különböző üzleti metrikák számítására és szolgáltatására nincs egységes, központi forrás
- Pedig metrikák egyre több helyen kellenek
 - BI szoftverekben (jellemzően több is van)
 - Data Science környezetekben
 - Operatív rendszerekben (API hozzáférés)
- Kialakul a mocsár, mindenki magának definiálja a metrikát
- A megoldás: „Headless BI” megoldások
 - Vizualizációs képességek nélküli BI szoftver
 - Más néven Metric Store vagy Metrics Layer

Headless Business Intelligence

Ankur Goyal, Alana Anderson

January 7, 2021

8 minute read

It's 2021, and everyone is excited about the post-[Snowflake](#) world (worth just shy of \$80B at time of writing). At Base Case, we are bullish about the next generation of software companies built on top of cloud-based data warehouses like Snowflake. Specifically, we believe there's an open opportunity to solve a critical problem that all data-driven businesses face: calculating metrics consistently. Metrics like daily active users, funnel events, and churn signals are critical to scaling a product-led growth motion, but are still too difficult to shuttle into the core workflows that product and go-to-market teams engage in everyday.

The future of BI is Headless



ZD

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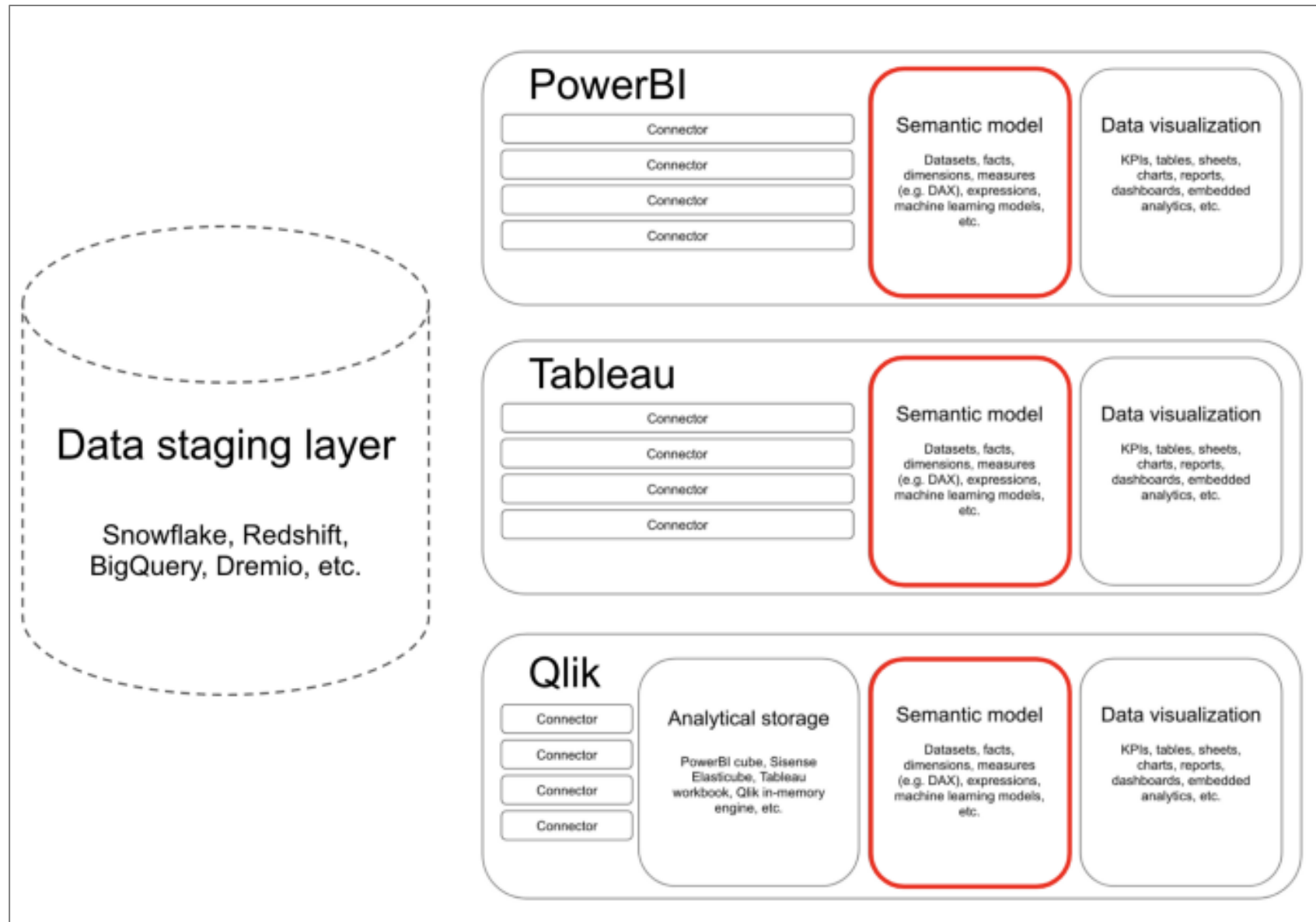
Mar 19 · 5 min read



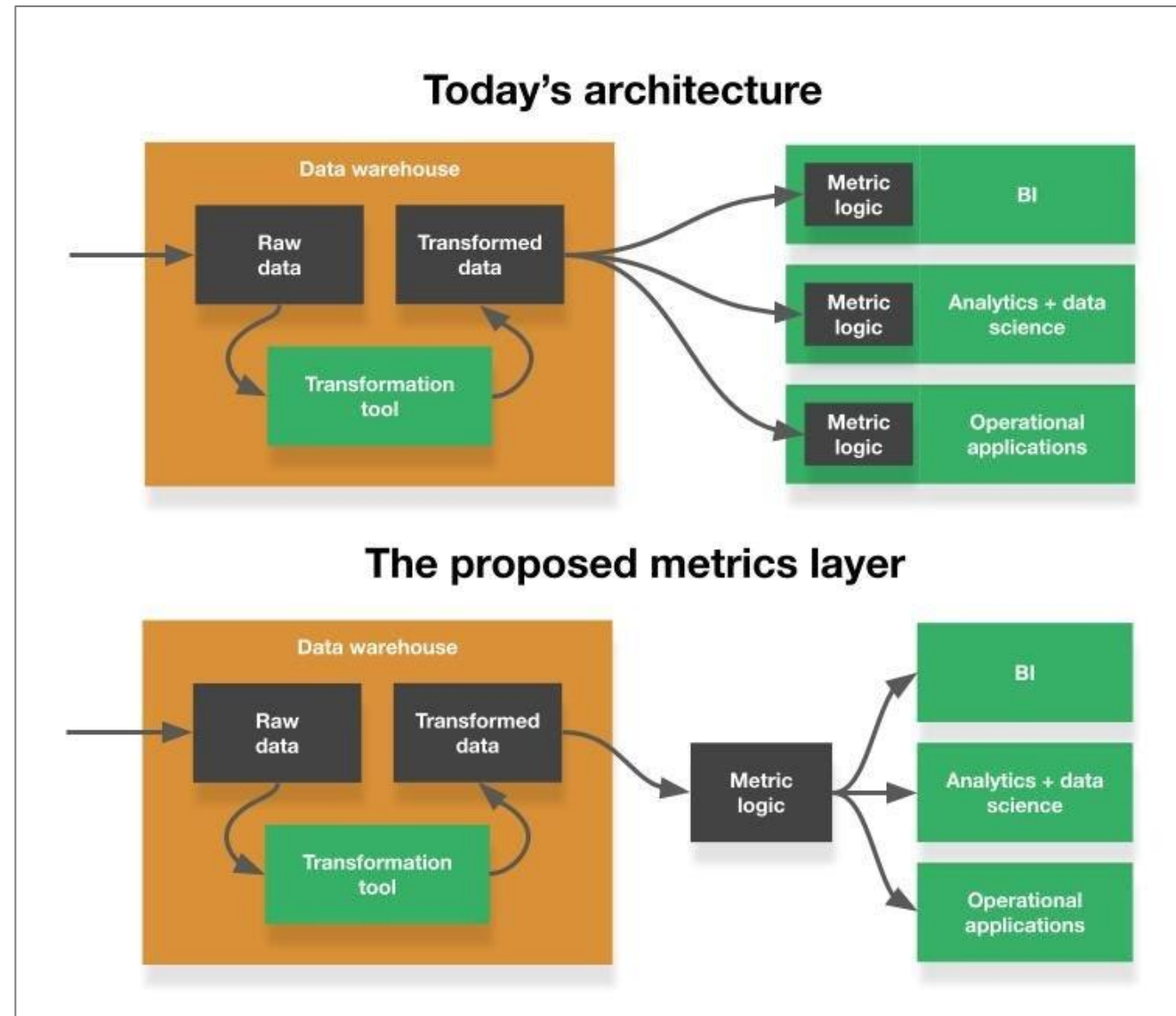
I work for GoodData and have been focused on multi-tenant analytics for more than a decade. By multi-tenant analytics, I mean a use-case when analytics is shared with external companies: customers, channel partners, suppliers, or other business partners.

Our analytics widgets and self-service analytics tools are usually embedded in applications or web portals. However, there are always tenants who have already adopted a specific BI tool or platform and want to integrate it with our analytics. Initially, we were serving these customers by exporting data from our platform to import them into their BI. Besides the obvious latency that this (often manual) process adds, we've run into many consistency issues. Our customers had to recreate many measures, reports, and dashboards in their tool. The numbers that their users were getting from our embedded analytics and the 3rd party tool were often inconsistent. Our customers also complained about duplicated efforts to define the same objects on two different platforms.

Headless BI



Headless BI



How Airbnb Achieved Metric Consistency at Scale

Part-I: Introducing Minerva — Airbnb's Metric Platform



Robert Chang

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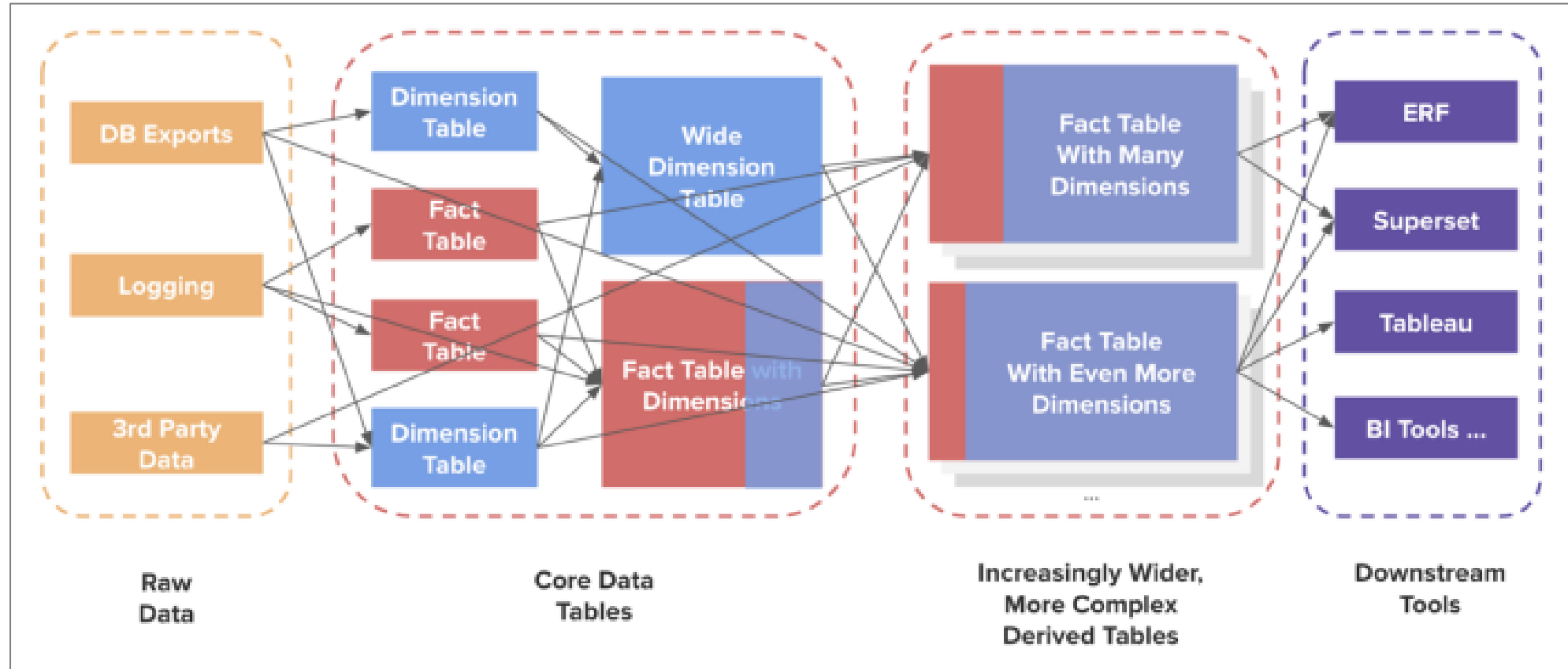
Apr 30 · 12 min read



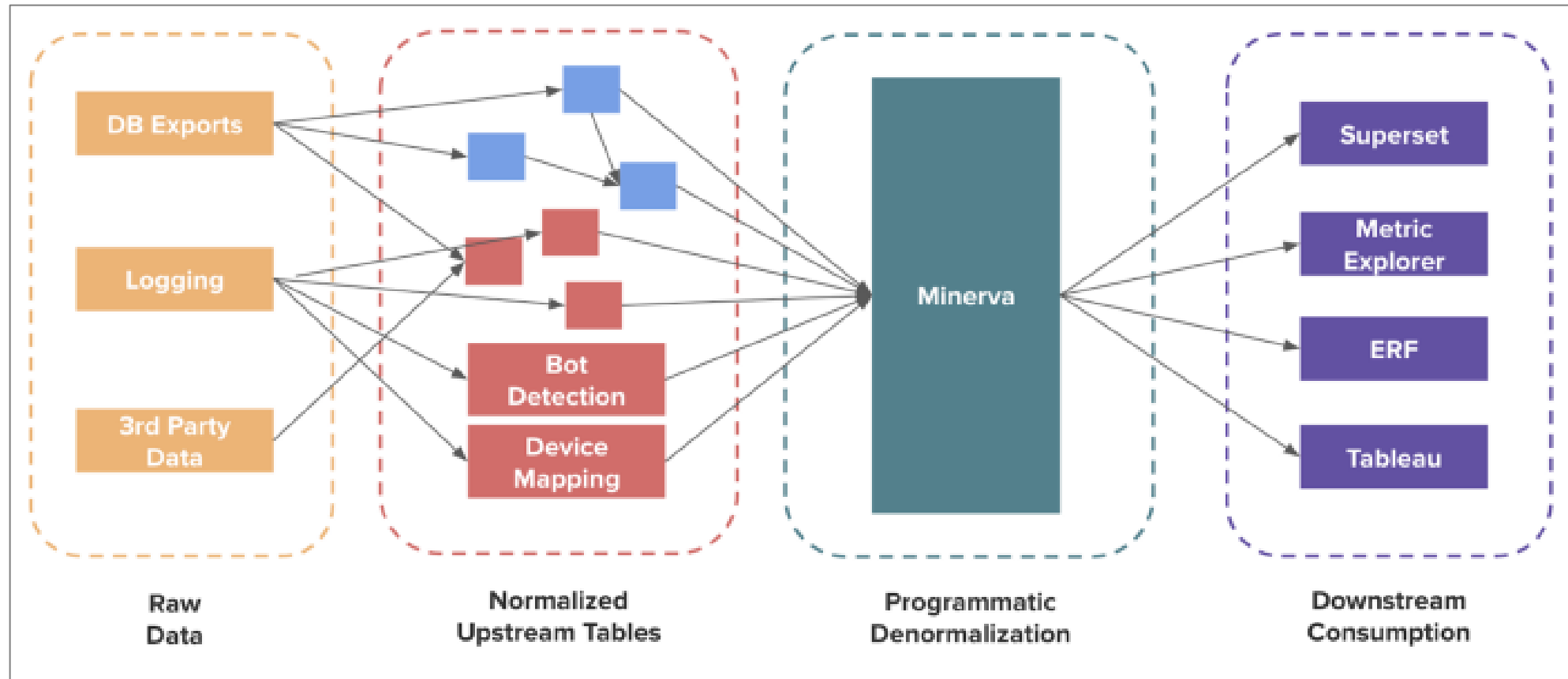
By: [Amit Pahwa](#), [Cristian Figueroa](#), [Donghan Zhang](#), [Haim Grosman](#), [John Bodley](#), [Jonathan Parks](#), [Maggie Zhu](#), [Philip Weiss](#), [Robert Chang](#), [Shao Xie](#), [Sylvia Tomiyama](#), [Xiaohui Sun](#)



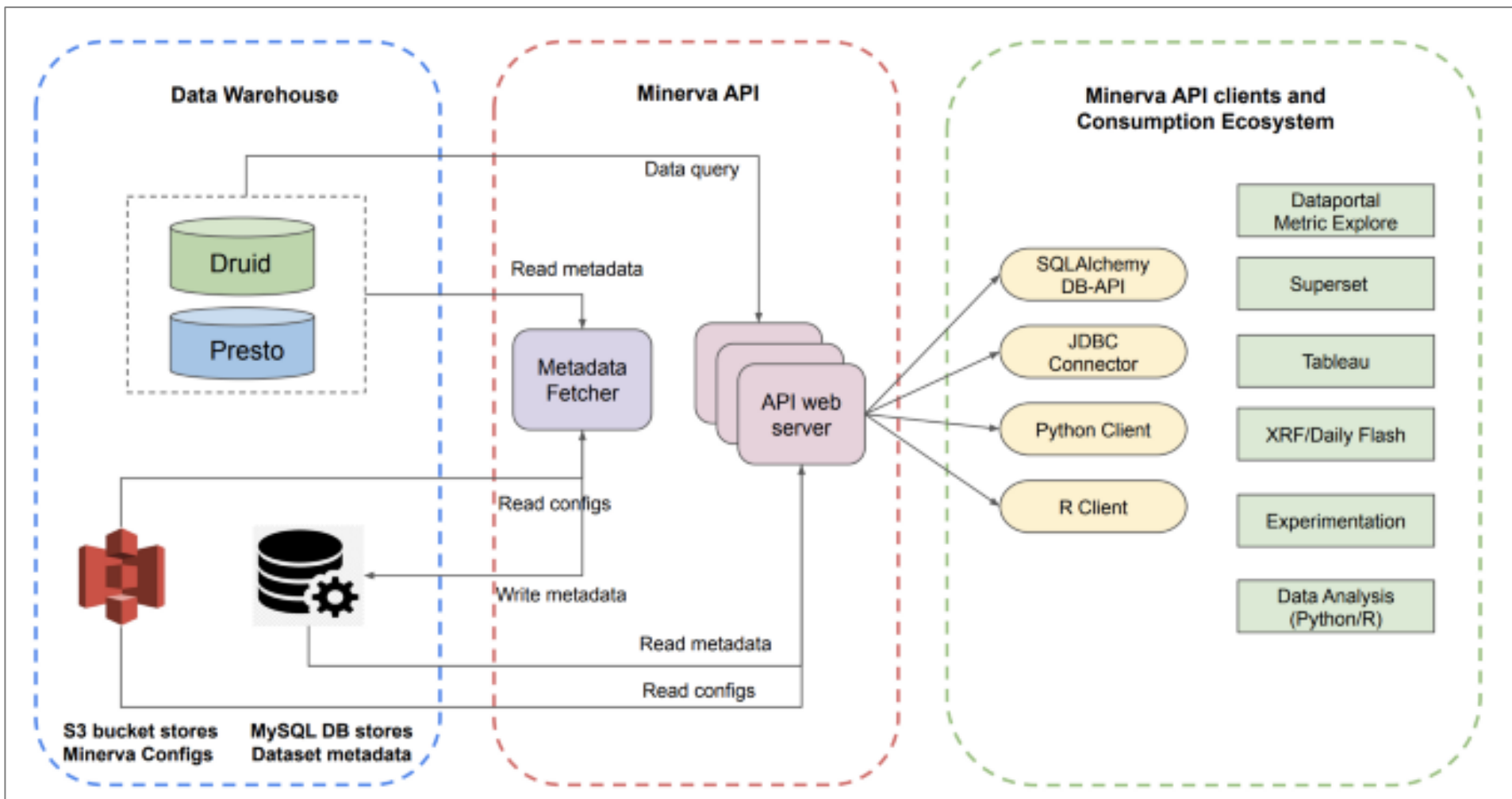
Headless BI – Airbnb Minerva



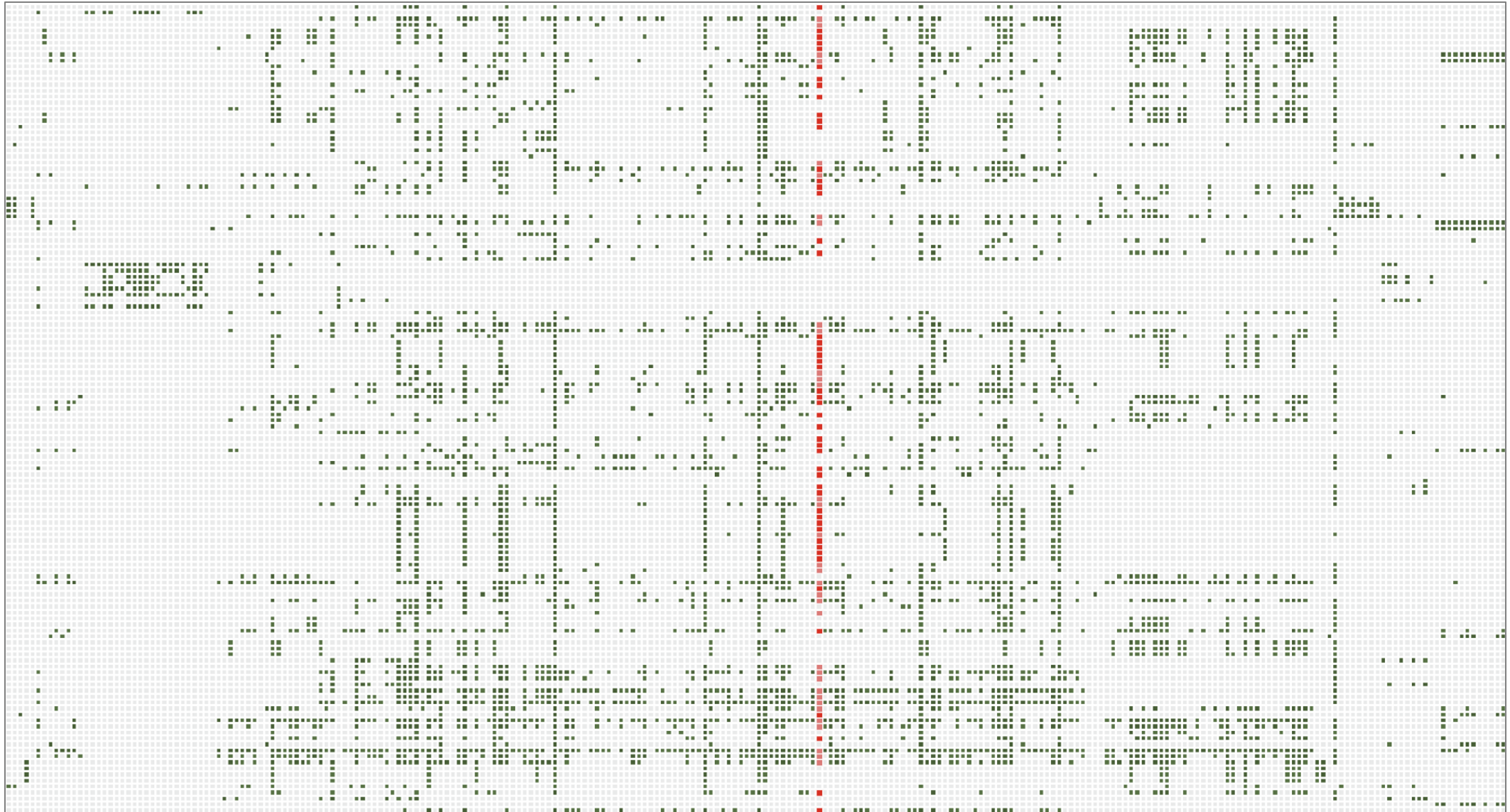
Headless BI – Airbnb Minerva



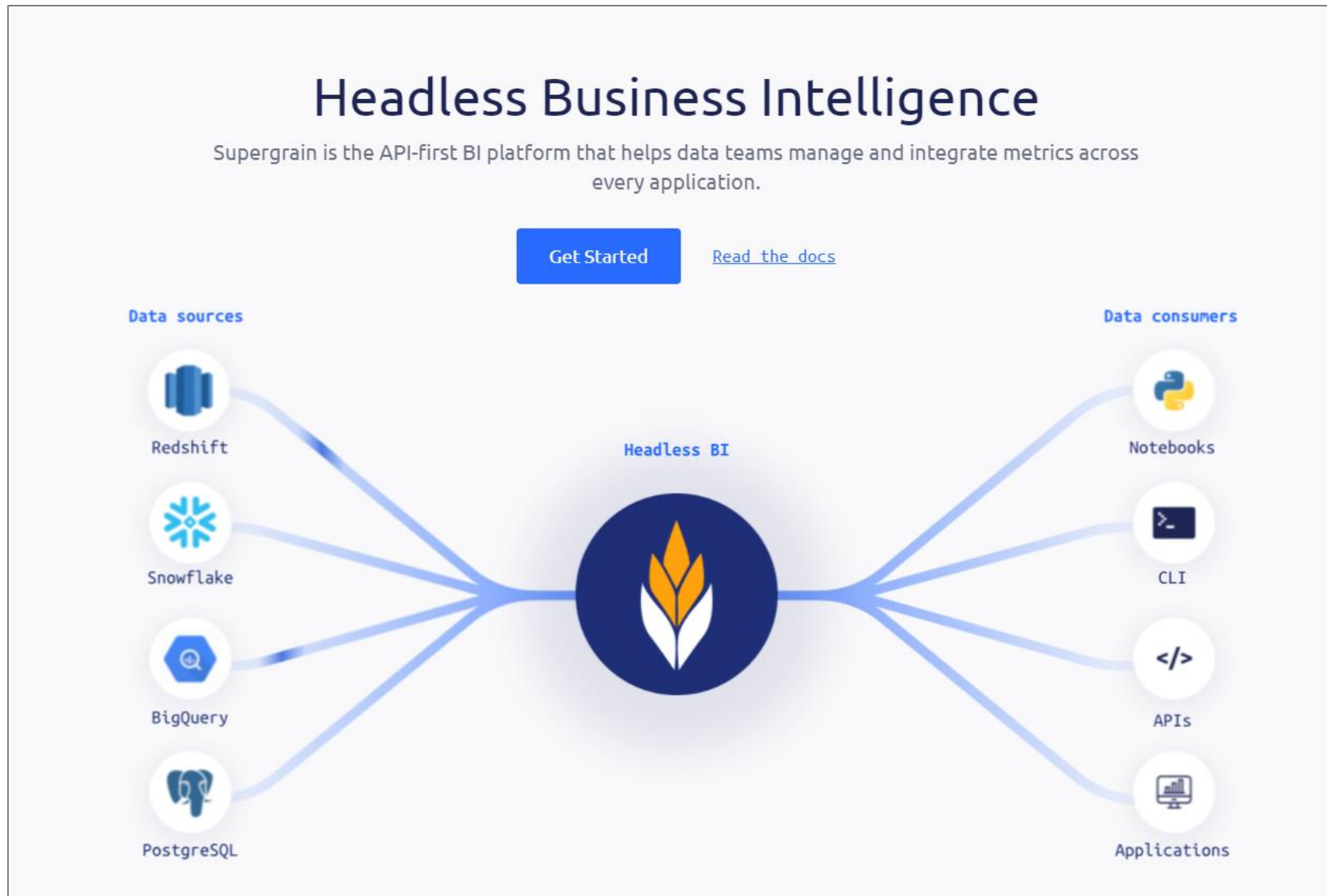
Headless BI – Airbnb Minerva



Headless BI – Airbnb Minerva



Headless BI - szállítók



<https://www.supergrain.com>

Headless BI - szállítók

Introducing Transform: the first 'metrics store' to make data accessible [Read the blog](#)

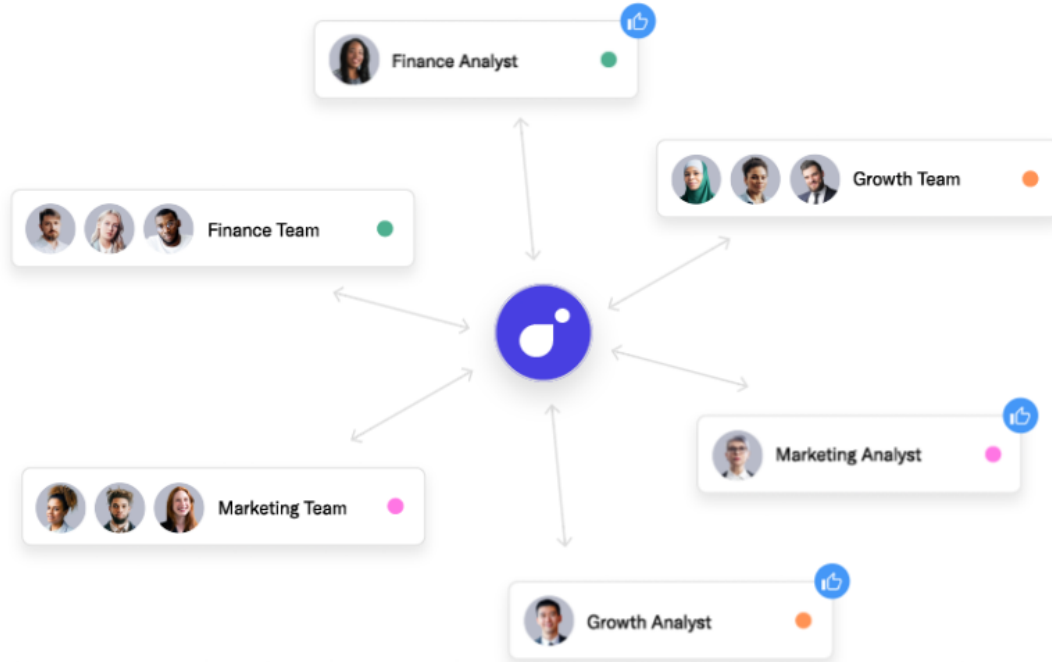


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One source of truth. Metrics you can trust.

Make metrics the real language of data.

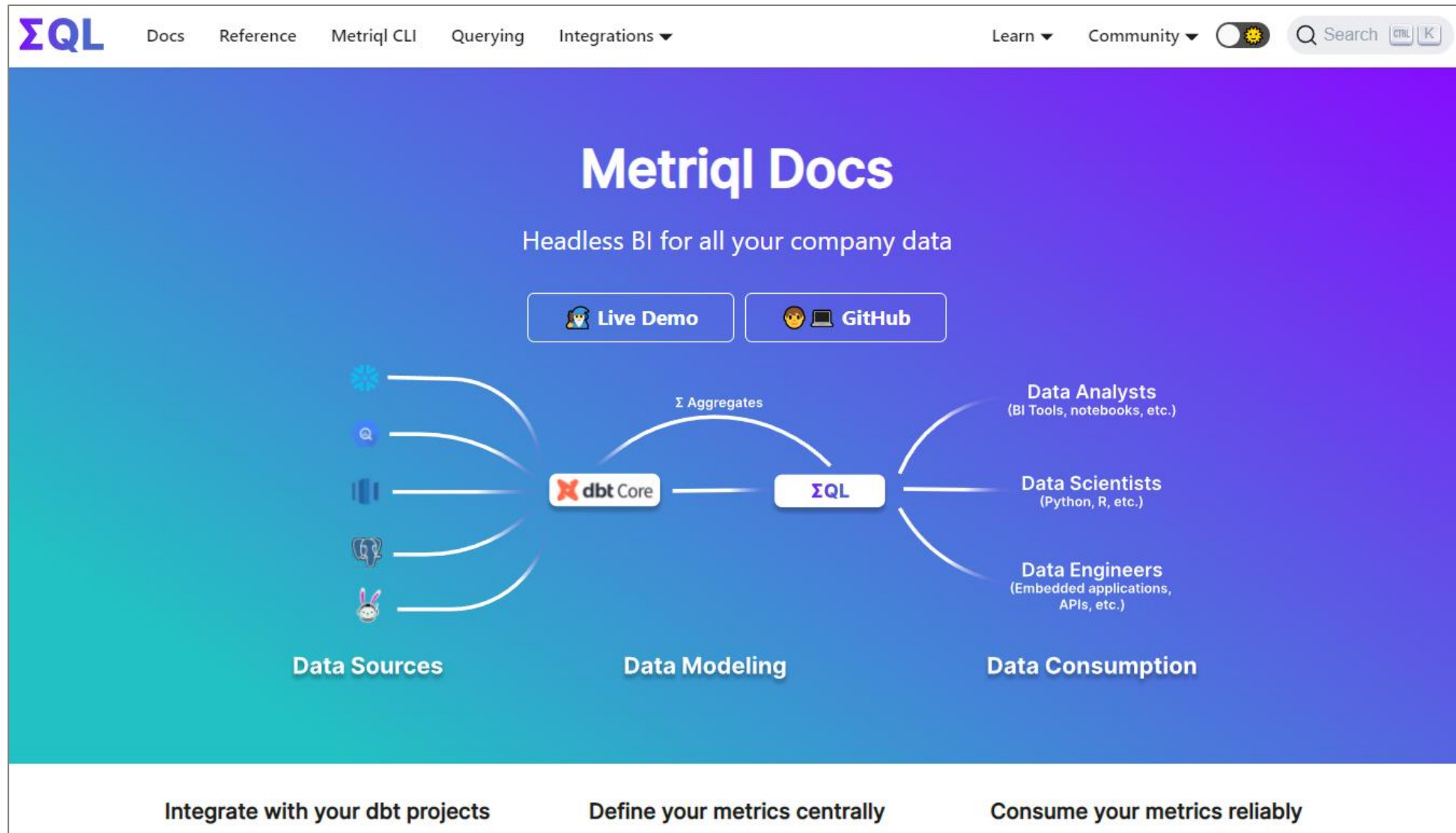
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The diagram illustrates a central hub-and-spoke model. At the center is a blue circular logo with a white 'd' shape. Six arrows radiate from this central logo to six surrounding rectangular boxes. Each box contains a group of profile pictures and a team or role name, followed by a colored dot and a thumbs-up icon. The boxes are: Finance Analyst (green dot), Growth Team (orange dot), Marketing Analyst (pink dot), Growth Analyst (orange dot), Marketing Team (pink dot), and Finance Team (green dot).

<https://transform.co>

Headless BI - szállítók



<https://metriql.com>

Adatvizualizáció

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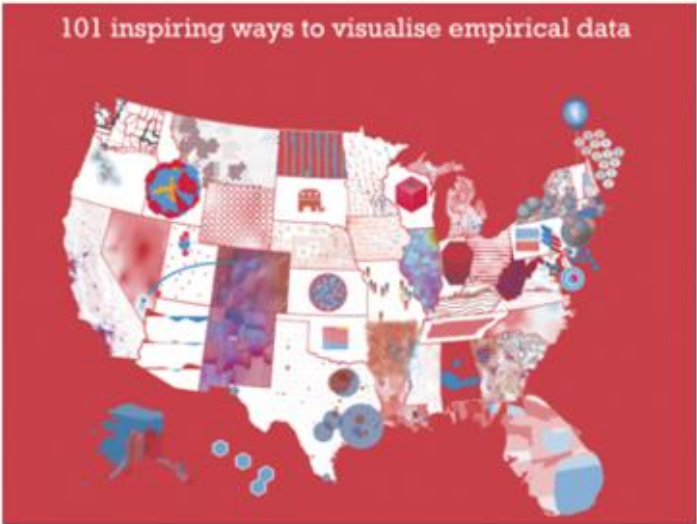
Where Data Visualization Practitioners Come Together.

The Data Visualization Society was founded to serve as a professional home for those working across the discipline while leading others into this growing, dynamic field, and to increase the visibility and value of data visualization to the general public.

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OSCAR SO — NOVEMBER 11, 2021

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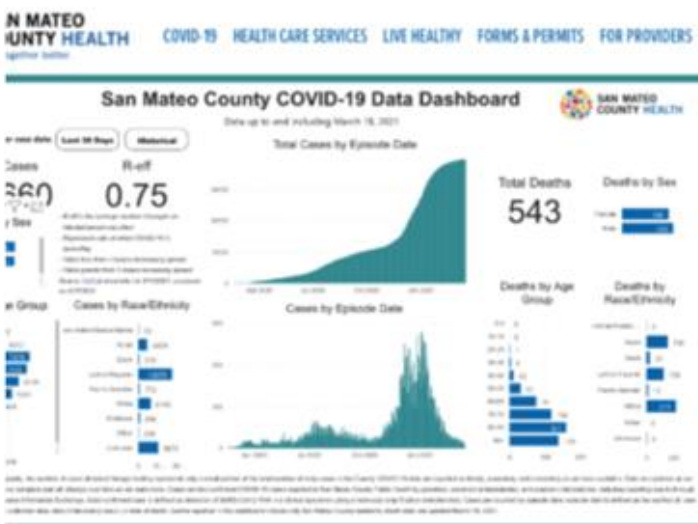
Recently, I had the chance to interview Kenneth Field about his newly published book, Thematic Mapping: 101 Inspiring Ways to Visualise Empirical Data. Kenneth is..



CLAIRE SANTORO — NOVEMBER 10, 2021

Communicating Climate Risk: Insights from the IPCC Information Design Team

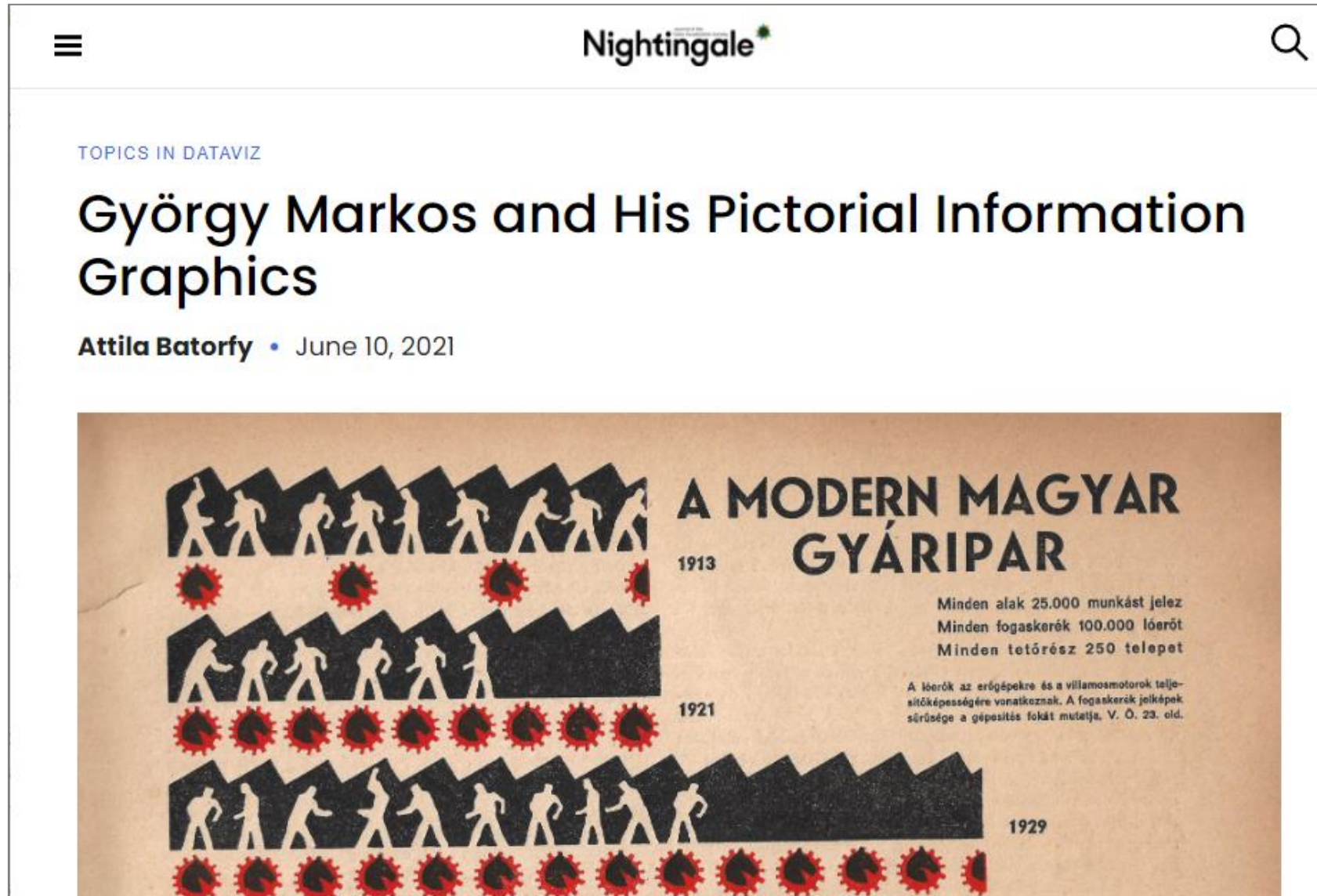
This week marks the end of the United Nations Climate Change Conference (COP26), which is being billed as “the world’s best last chance to get..



ANDY KRACKOV — NOVEMBER 9, 2021

Dashboards Are Not Data Stories

A few months ago, a longtime client asked if my data communication consultancy could build out a dashboard display for health collaboratives in California doing..





Nightingale Magazine is a collectible community celebration. It's an opportunity to introduce audiences--new and existing--to some of the most compelling examples of data-informed storytelling available. It's a chance to revel in creativity and indulge in the *visual* in data visualization.

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Nightingale Print Magazine

Subscribe for \$40 annually for 2 issues (incl. postage)

PURCHASE

Data for Execs



Data Literacy

- A Data Literacy továbbra is nagy figyelmet kap
 - Több új könyv jelent meg idén is
 - A BI szállítók sokat foglalkoznak a témával
 - Itthon is kezdenek megjelenni az ilyen jellegű álláshirdetések
 - Elkészült az első hazai Data Literacy kutatás is

Data Literacy - könyvek

1-16 of over 1,000 results for "data literacy"

Sort by: Featured

Kindle Unlimited

☐ kindleunlimited

Department

Books

Schools & Teaching

Computers & Technology

Business & Money

Reference

Social Sciences

Mathematics

Kindle Store

Kindle eBooks

Customer Reviews

★★★★★ & Up

★★★★☆ & Up

★★★☆☆ & Up

★★☆☆☆ & Up

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Book Format

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Kindle Edition

Audible Audiobook

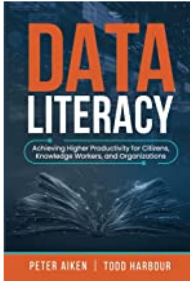
Printed Access Code

Board Book

Spiral-bound

Book Language

☐ English



Data Literacy: Achieving Higher Productivity for Citizens, Knowledge Workers, and Organizations

by Peter Aiken and Todd Harbour | Oct 10, 2021

★★★★★ ~ 1

Paperback

\$39²¹

Ships to Hungary

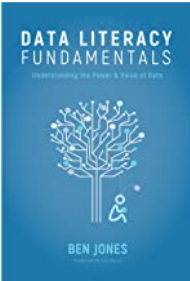
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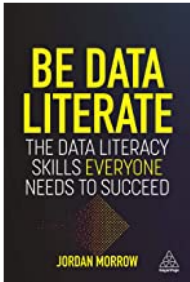
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by Jordan Morrow | Mar 3, 2021

★★★★★ ~ 58

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Data Literacy

What is data literacy, and why does it matter for your organization?

[Watch Data Literacy Video](#)



What is data literacy?

Data literacy is the ability to read, work with, analyze and communicate with data. It's a skill that empowers all levels of workers to ask the right questions of data and machines, build knowledge, make decisions, and communicate meaning to others.

<https://www.qlik.com/us/bi/data-literacy>

Tableau Pledges to Train 10 Million Data People

New Tableau initiative aims to make data skills – often a job of the few – into a skill for everyone

PUBLISH DATE: NOVEMBER 9, 2021 - 8:01AM

SEATTLE – Nov. 9, 2021 – Tableau, the world’s leading analytics platform (NYSE: CRM), has announced a commitment to enable 10 million data learners over the next five years. Data literacy is increasingly vital to modern organizations. While [83 percent of CEOs](#) expect their organizations to be more data-driven, people often lack essential data skills with only 33 percent of employees comfortable using data analytics to support their decisions.

For organizations striving to become data-driven, hiring people to work with, interpret, analyze and make decisions with data is more important than ever. In ‘[The Great Data Literacy Gap: Demand For Data Skills Exceeds Supply](#)’, a Tableau-commissioned Forrester research study, recruiters ranked data literacy as the most in-demand skill for entry-level candidates.

A Forrester Consulting
Thought Leadership Paper
Commissioned By Tableau
June 2021

The Great Data Literacy Gap: Demand For Data Skills Exceeds Supply

Need For Data Skills Are On The Rise, Can
Academia Accelerate Learning To Meet Them?

Data Literacy skillek a munkaerőpiacon

Skills in highest demand		Skills that have increased most in demand over the past 2 years		Skills recruiters anticipate will increase most in importance in the next 5 years	
1	Data skills/data literacy	1	Data skills/data literacy	1	Data skills/data literacy
2	Communication and collaboration skills	2	Project management skills	2	Communication and collaboration skills
3	Basic computer skills	3	Research skills	3	Research skills
4	Project management skills	4	Computer programming skills	4	Project management skills
5	Presentation/public speaking skills	5	Communication and collaboration skills	5	Computer programming skills

Base: 219 US hiring managers/recruiters involved with decision making regarding recruiting new employees or creating job role requirements
Note: Showing top 5
Source: A commissioned study conducted by Forrester Consulting on behalf of Tableau, January 2021

Data Literacy itthon

You act as a data champion at Tier, evangelising the use of data and proactively identifying opportunities to increase **data literacy** and engagement across the organisation.

Senior Data Analyst, Tier

Lead knowledge management activities including documentation of data assets to promote **data literacy**.

Data Architect, ZF Group

Promote **data literacy** across the company, organise and hold workshops

Data Analyst, Revolut

A hazai álláshirdetésekben is egyre gyakoribb a Data Literacy említése





**MAGYAR AGRÁR- ÉS ÉLETTUDOMÁNYI
EGYETEM**

**A MUNKAVÁLLALÓK ADAT-ÍRÁSTUDÁSA
ÉS AZ ADATALAPÚ DÖNTÉSTÁMOGATÁS
A HAZAI KÖZÉP- ÉS NAGYVÁLLALATI
SZEKTORBAN**

Doktori (PhD) értekezés

Görcsi Gergely

Gödöllő

2021

20. táblázat: Adat-írástudás változói							
	Átlag	Szórás	Min.	Max.	Db	Sum	Értékelés
Világos számomra, hogy milyen adatok milyen célra használhatók fel	3,59	0,530	2	4	409	1469	89,79%
Ki tudom választani a célhoz legmegfelelőbb adatforrást	3,52	0,573	1	4	409	1438	87,90%
Tisztában vagyok vele, hogy milyen az általam felhasznált adatok minősége	3,41	0,604	2	4	409	1395	85,27%
Számomra ismeretlen adatokat is fel tudok használni elemzéseimhez	2,93	0,788	1	4	409	1200	73,35%
Nem okoz nehézséget az adatvizualizációk értelmezése	3,47	0,657	1	4	409	1419	86,74%
Az adatokat érthetően prezentálom olyanoknak is, akik korábban nem ismerték azokat	3,23	0,626	1	4	409	1320	80,68%

43. táblázat: Adataalapú működést gátló tényezők és adatalapú döntéshozatal – leíró statisztika

Adataalapú döntéshozatal értékelése	adatok rendelkezésre állásának hiánya	az adatok nem kinyerhetők a forrás-rendszerekből	az adatok nem a megfelelő formában állnak rendelkezésre	nincs elegendő idő	az adatokat nem tudja értelmezni a döntéshozó
1 (min.)	50,00%	0,00%	0,00%	0,00%	100,00%
2	28,57%	28,57%	46,43%	57,14%	57,14%
3	44,93%	33,33%	37,68%	63,77%	28,99%
4 (max.)	36,84%	28,95%	28,95%	55,26%	23,68%
Összesen	39,42%	30,66%	36,50%	59,12%	34,31%

Zöld színnel kategóriánként a legkevesebbszer, pirossal a legtöbbször jelzett probléma.



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Watching the numbers

<https://marketoonist.com/2018/08/numbers.html>

Thank You

