



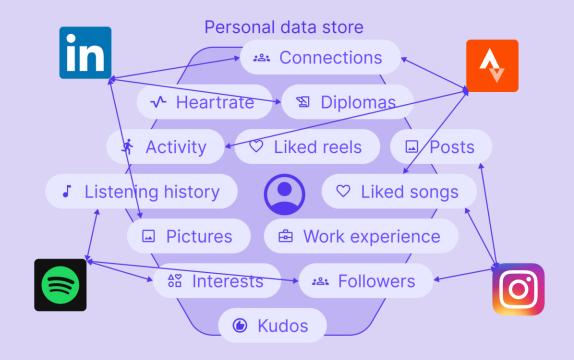




A Personal Data Store (PDS) is

a technology that enables individuals to **collect, store, update, correct, analyse, and share** their **personal data**. A key feature of a PDS is its **granular consent** management, allowing users to grant or revoke third-party access at any time





Data stored by service providers

Data stored in a Personal Data Store (PDS)



CitizenMe 100K+



Yivi **50K**+



PolyPod **1K**+



Financieel Paspoort 100+



Digi.me 100K+

MyData Certified PDS

2023 Number of Google Play Store Downloads



My:D **100K**+



DID Wallet **5K+**



Cozy Cloud 500+



Meeco Wallet



Ockto **100K+**



iGrant.io **1K**+



MyFairData **100+**



Schluss 100+



BitsAboutMe **10K+**



Esatus **1K+**



Geens
100+



CitizenMe **100K+** - **0**



Yivi 50K+ - 100K+



PolyPod **1K+** - •



Financieel Paspoort

100+ - 500+



Digi.me **100K+** - **0**

MyData Certified PDS

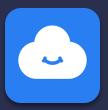
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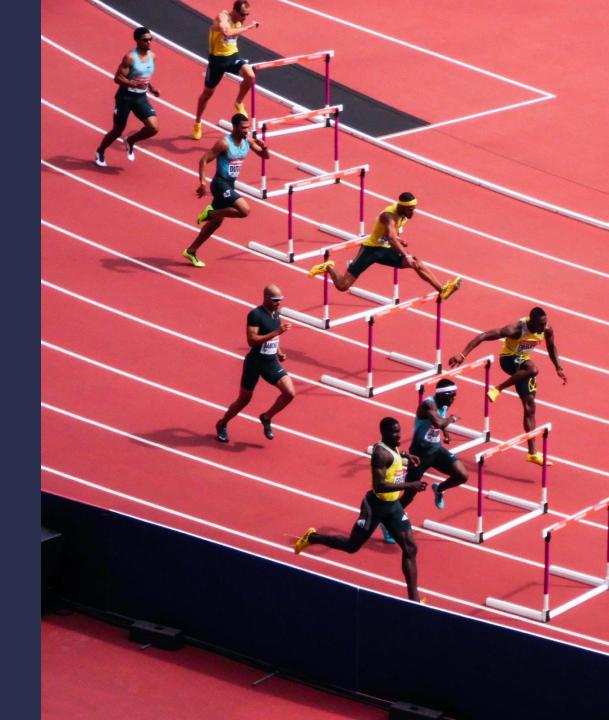
Esatus **1K+ - 1K+**



Geens **100+ - 100+**

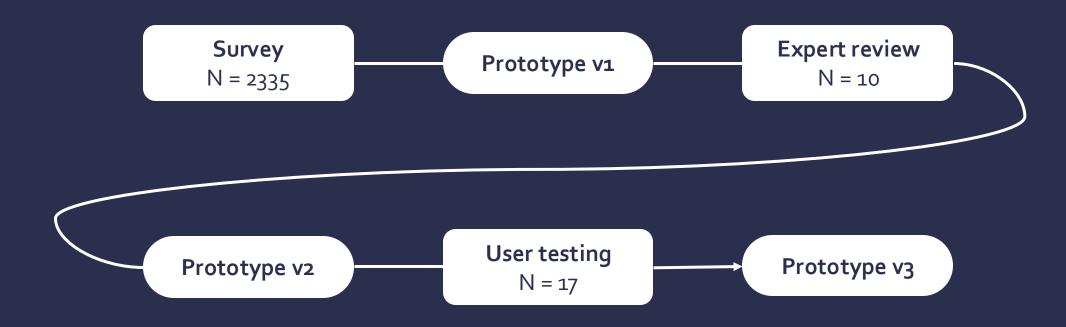
Hurdles to PDS adoption

- Low user interest
- Lack of tangible experiences
- Trust concerns regarding PDS providers
- Fear of complex usability
- Perceived **time burden**
- Concerns about **PDS security** and hacking
- Expected **financial costs**



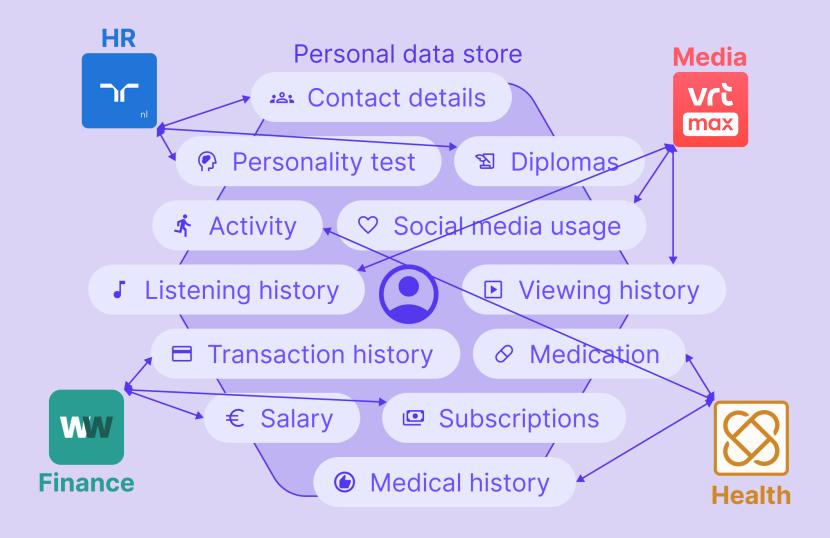


Methodology





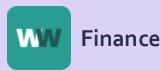
Four use case scenarios



Four use case scenarios



An online career platform uses data available in the PDS to match candidates with relevant jobs more effectively by accessing relevant career data with user permission.



A financial dashboarding platform leverages PDS data to provide users with a complete overview of their finances across banks and investment platforms, helping them track income, expenses, and assets to achieve their financial goals.

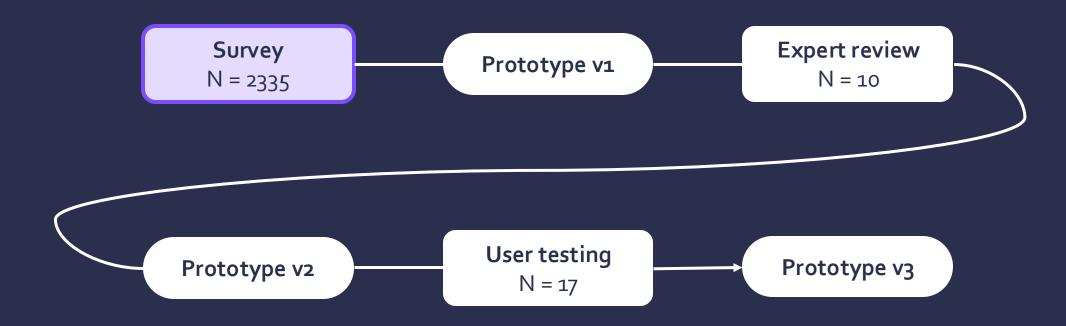


A **streaming service** requests access to relevant data in the PDS to enable enhanced, more **personalized recommendations**.



A health platform enables users to **share data** from their PDS **with doctors**, supporting more informed and **personalized health monitoring**.

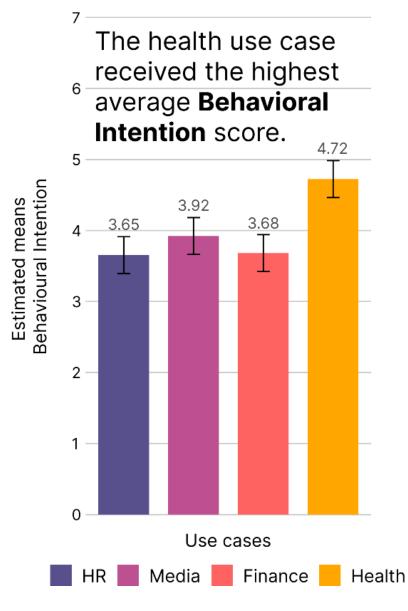
Methodology





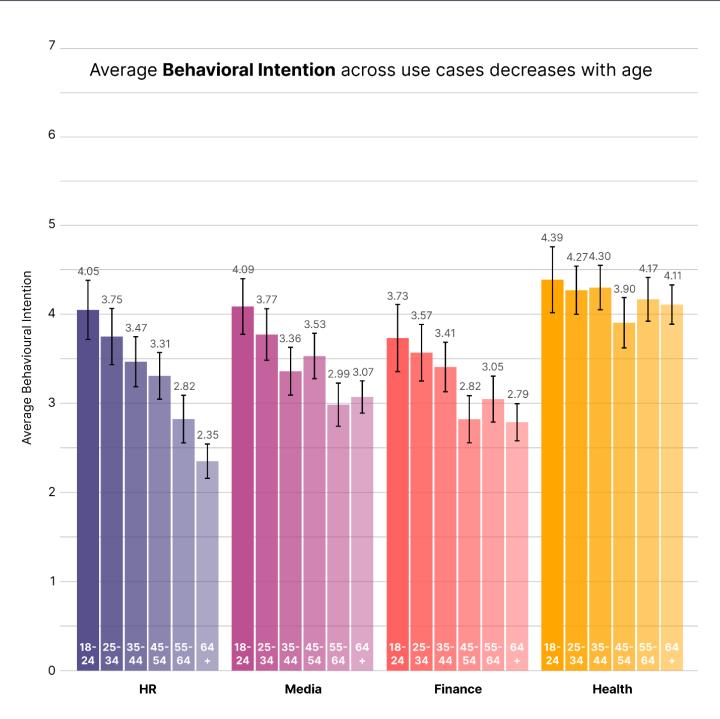
Survey

- Evaluated the use cases based on a written scenario
- 2335 participants
- All 18+ years (average age = 51 years)
- Flanders





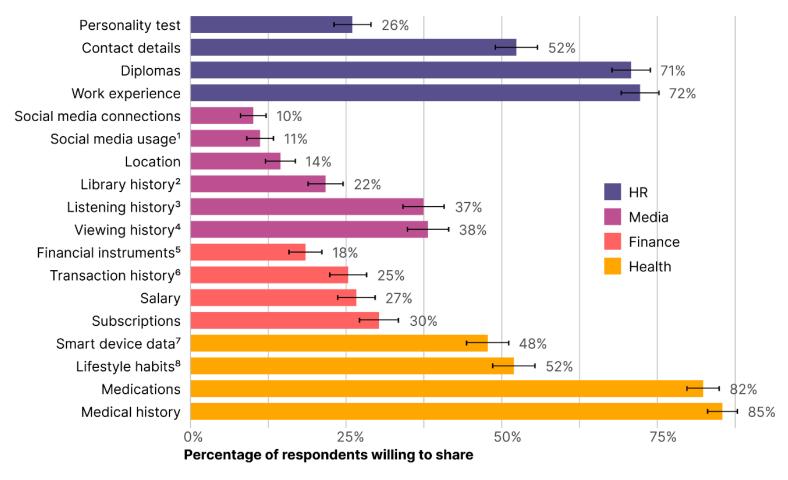
Interest in the uses cases decreases with age





The willingness to share appears to be use case dependent rather than related to data sensitivity

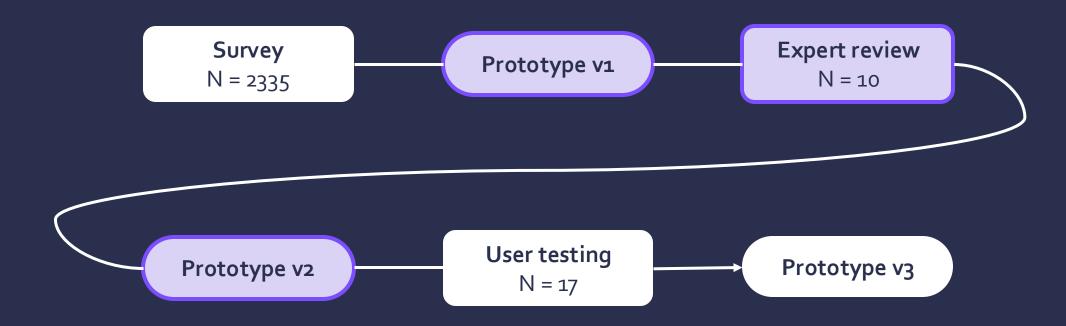
Willingness to share data varies significantly across different use cases.



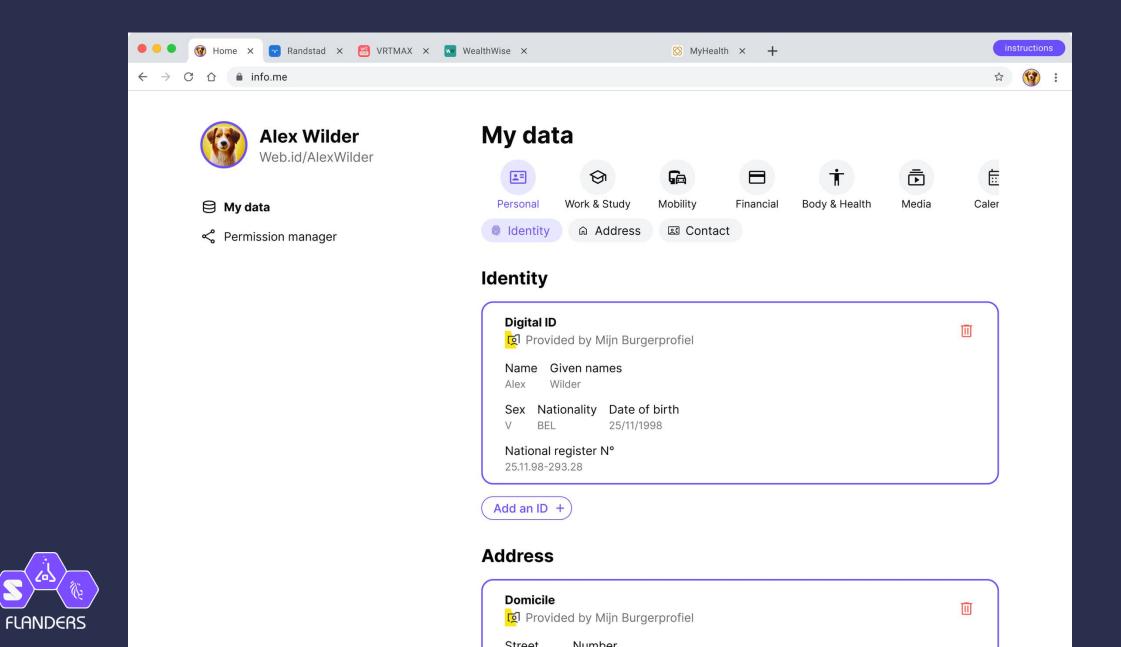
¹following pages and saved posts; ²books borrowed; ³music and podcasts listened to; ⁴series/films watched online; ⁵stocks, funds, crypto, etc.; ⁶purchases, expenses; ⁷heart rate, weight, sleep measurements; ⁸workouts, smoking, alcohol consumption

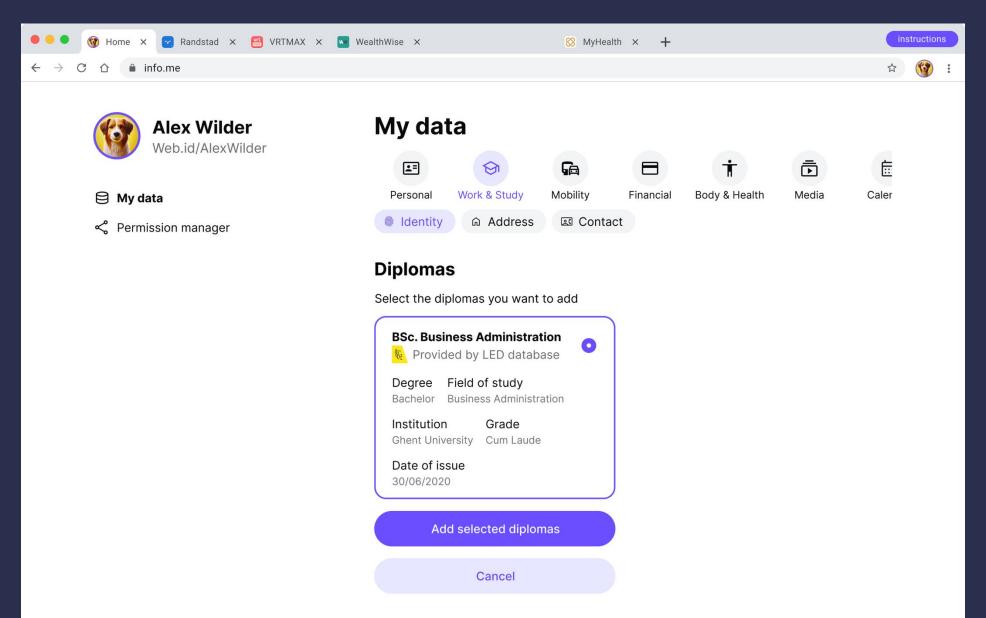


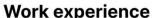
Methodology

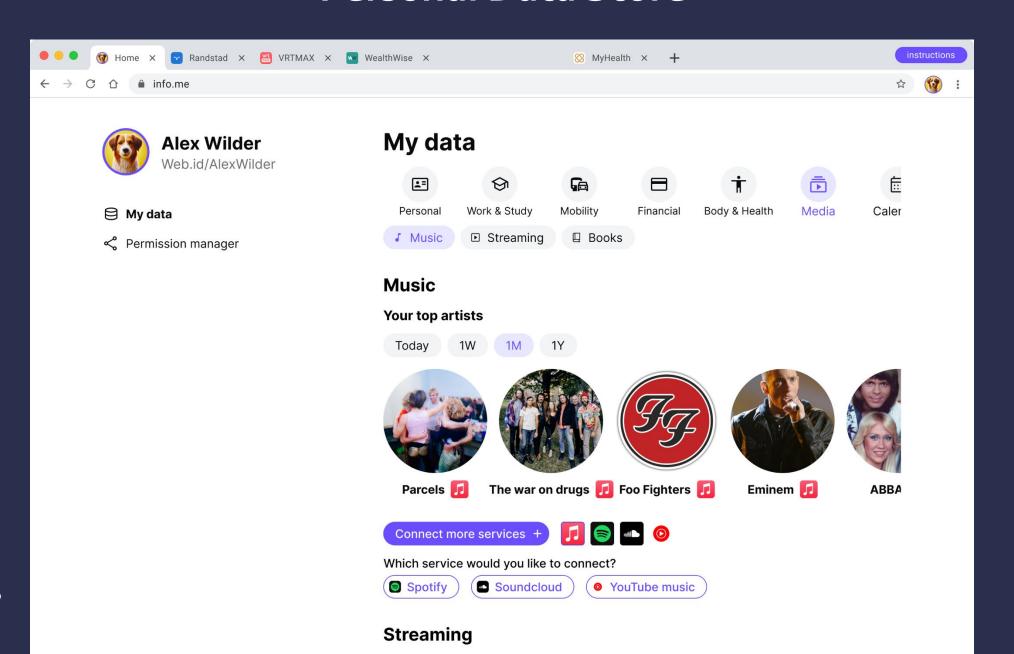




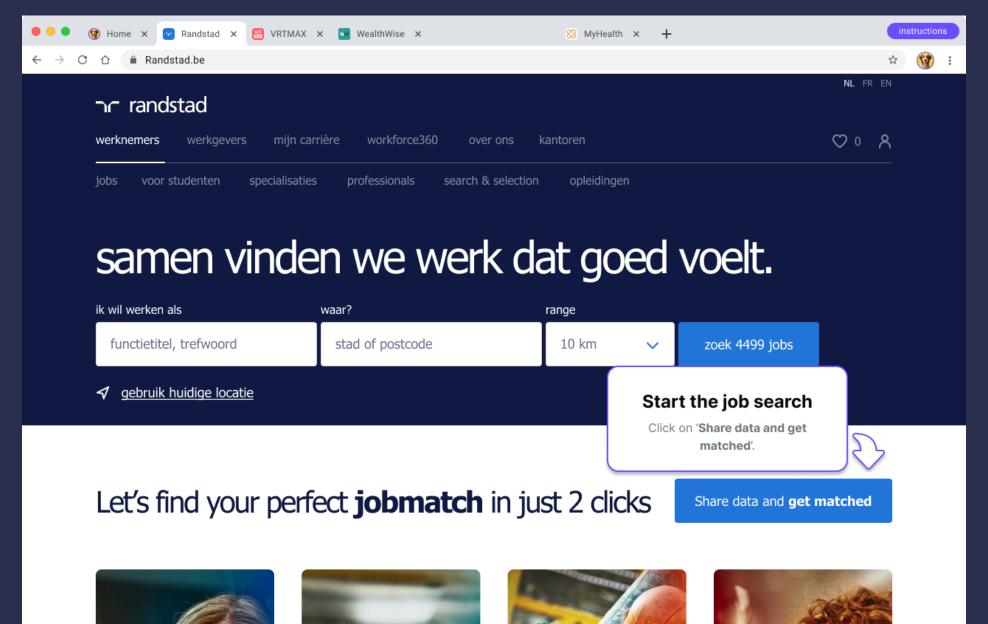






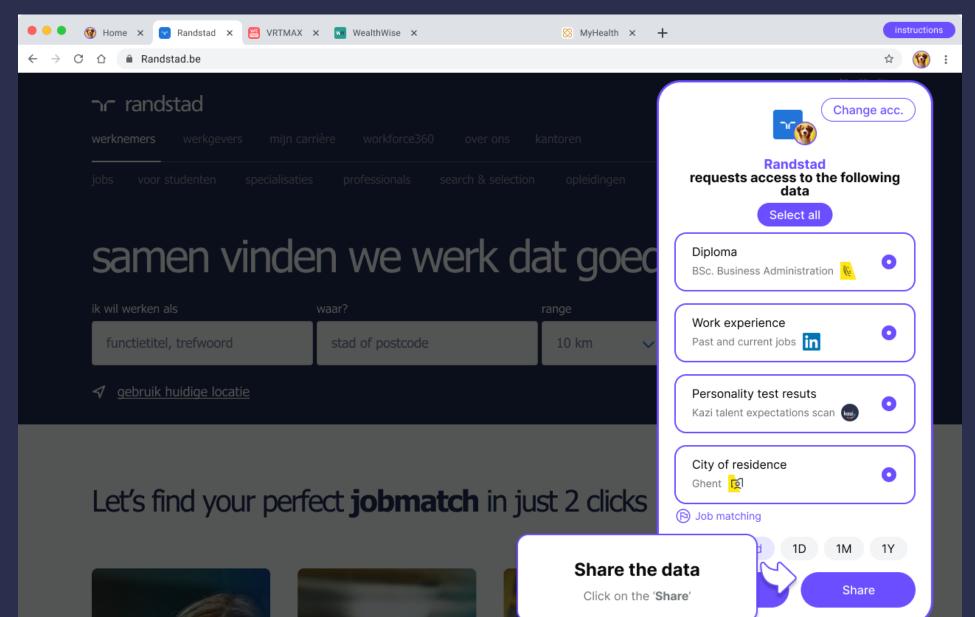






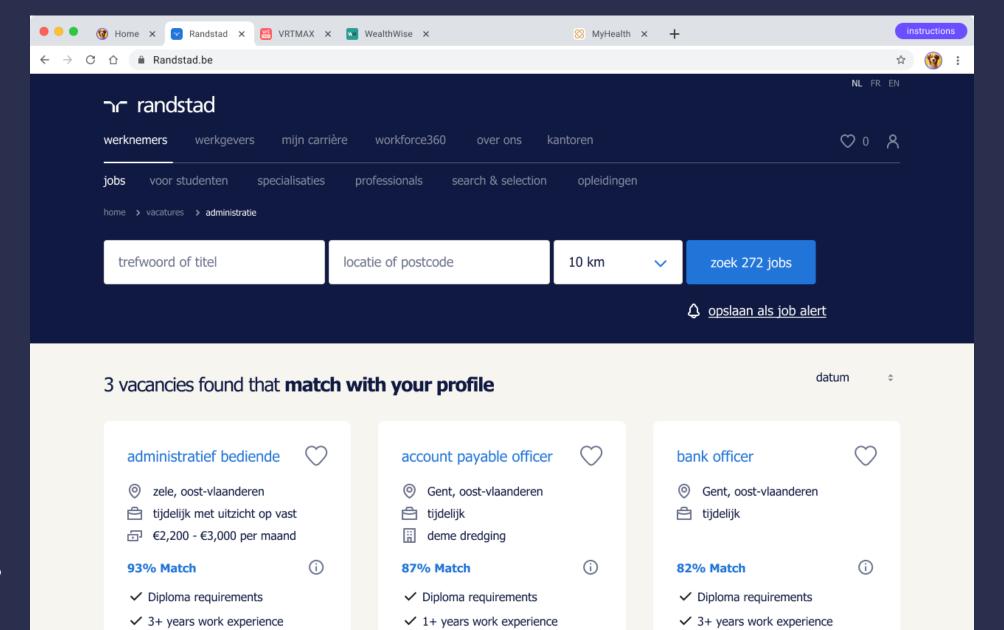




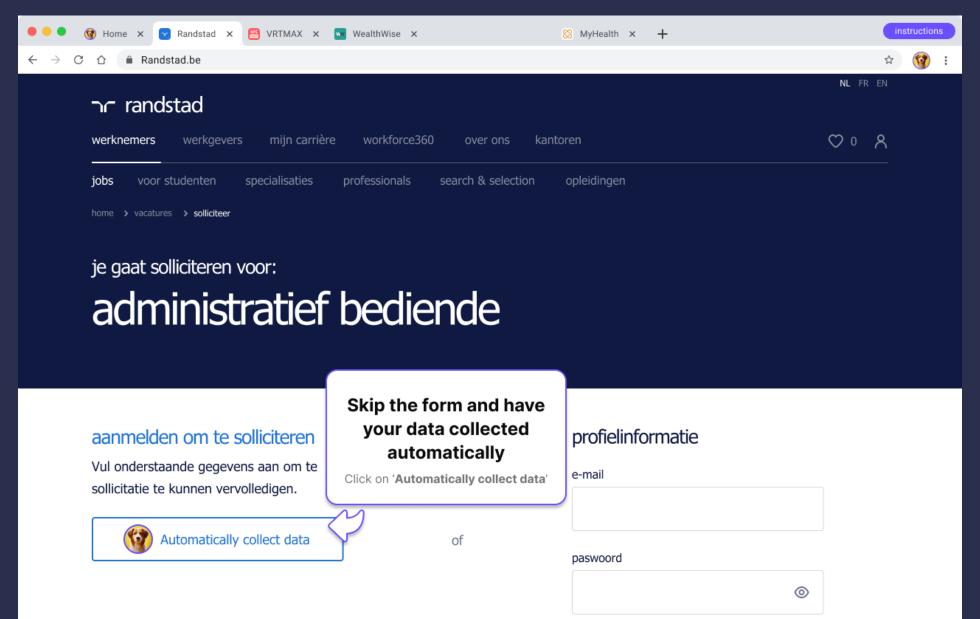






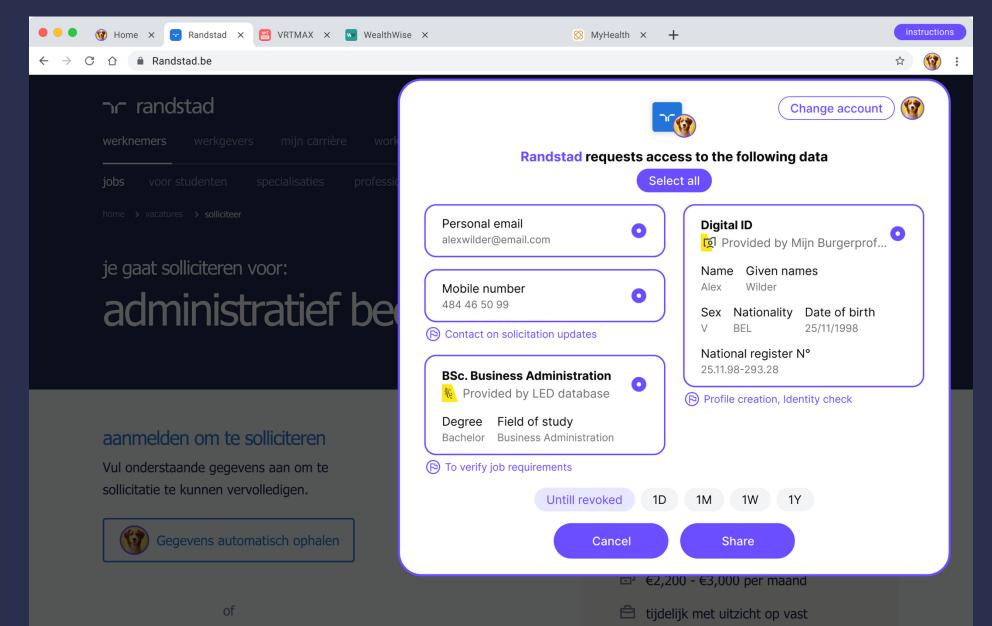




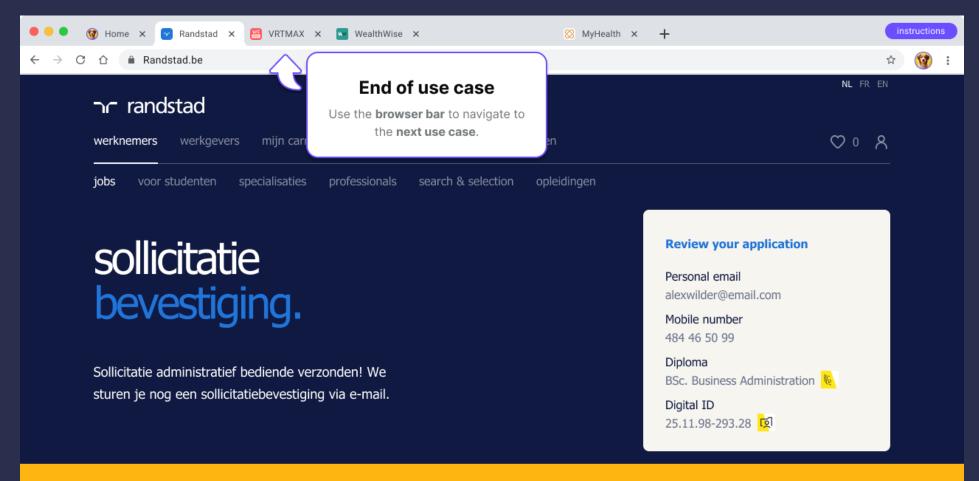






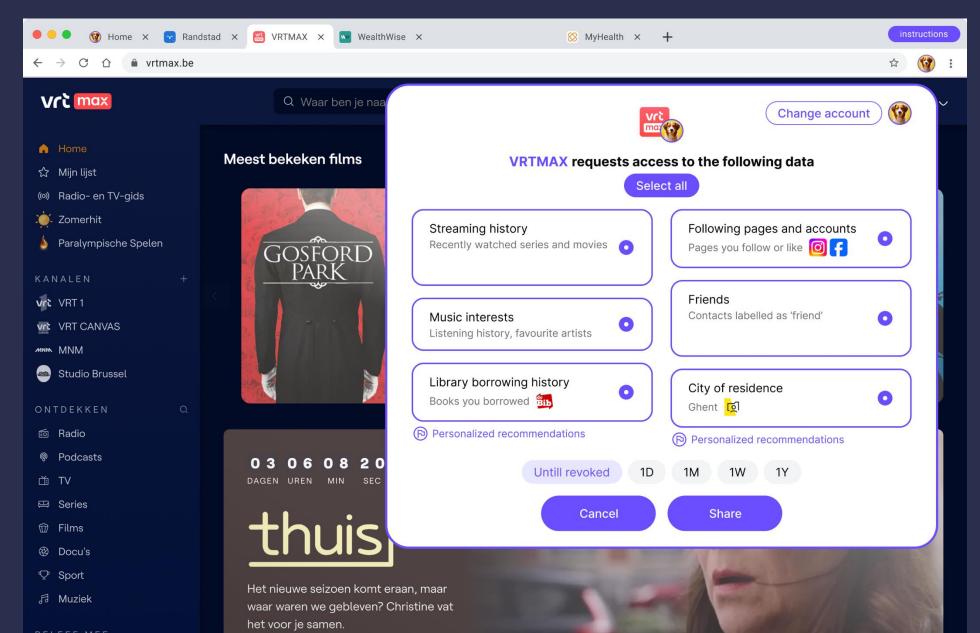






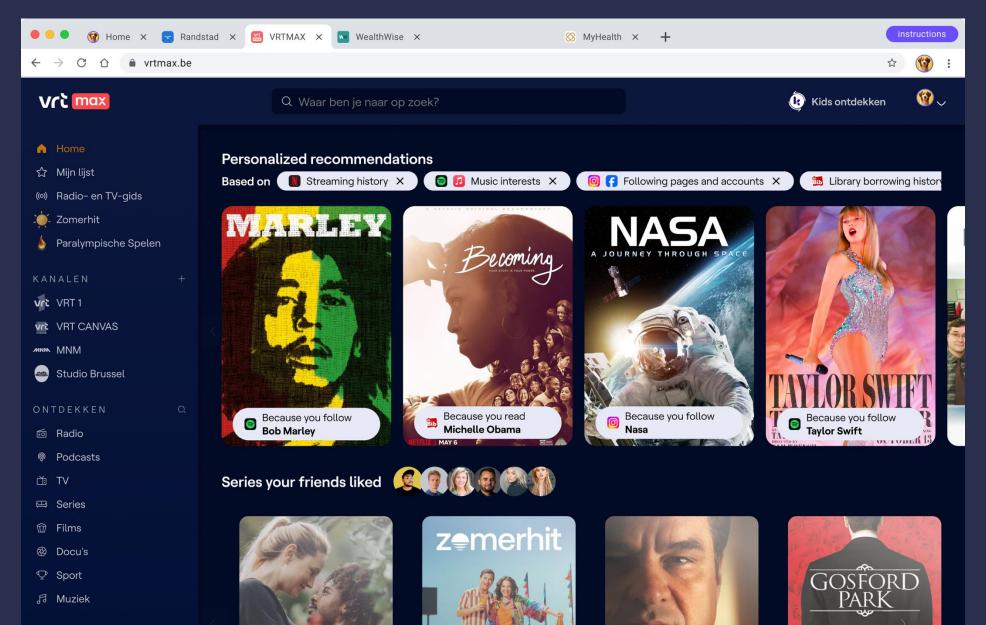






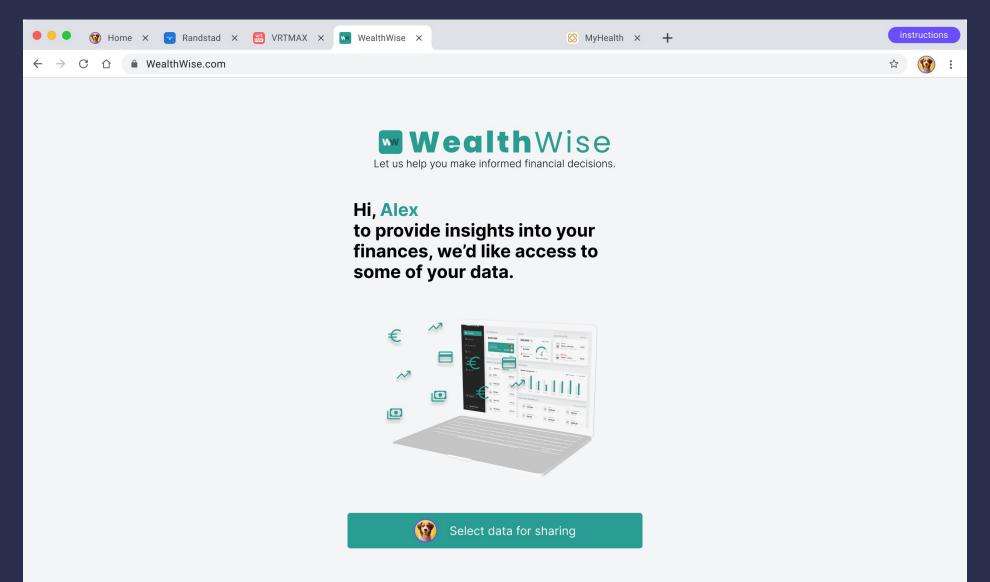






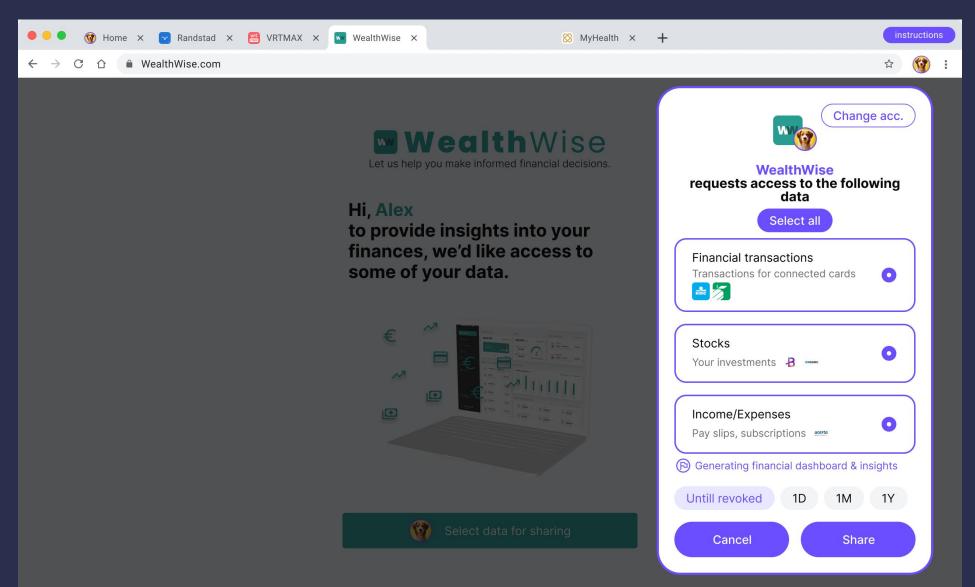






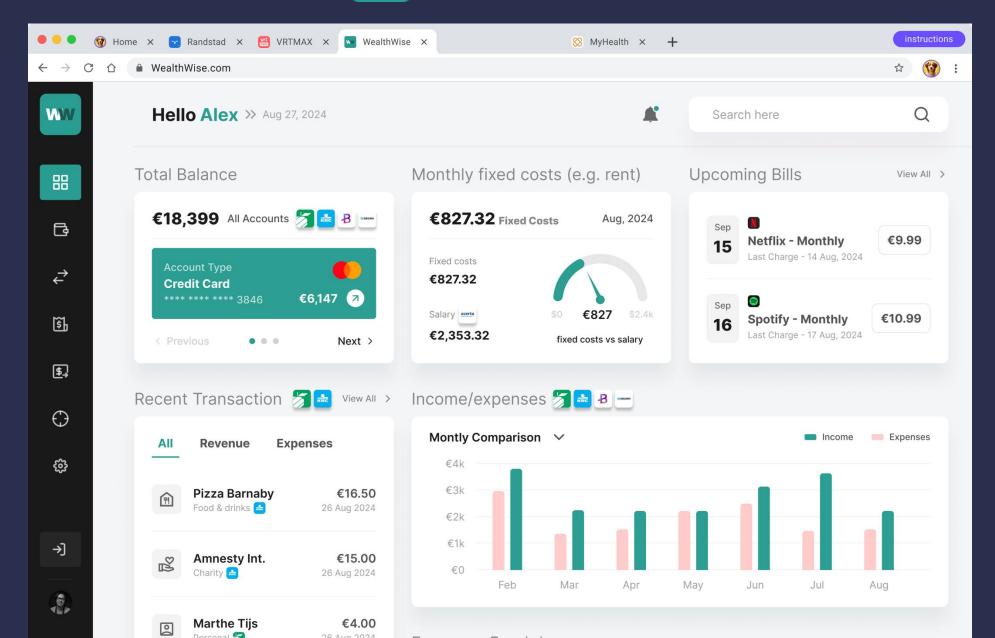




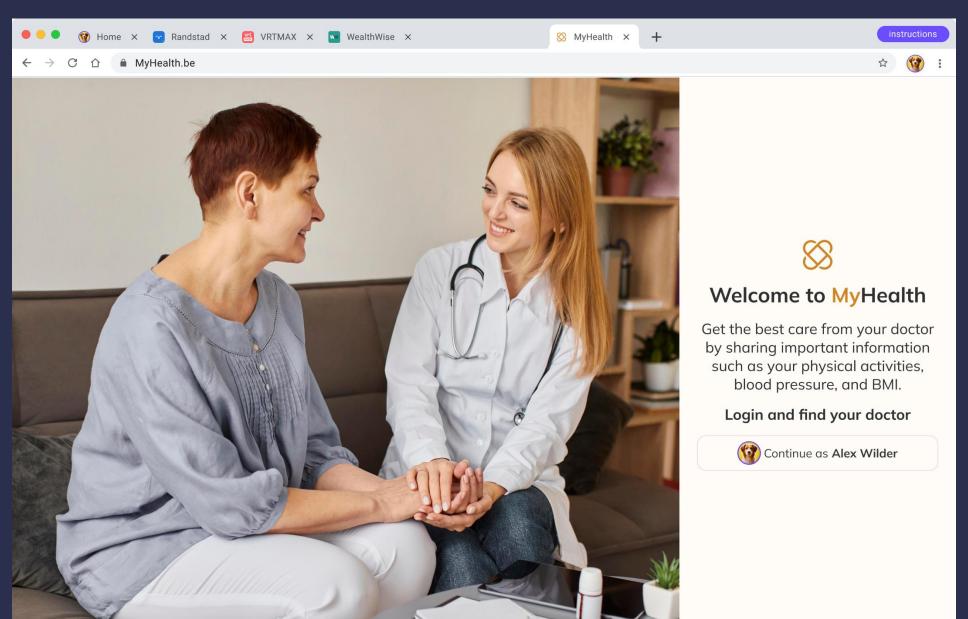




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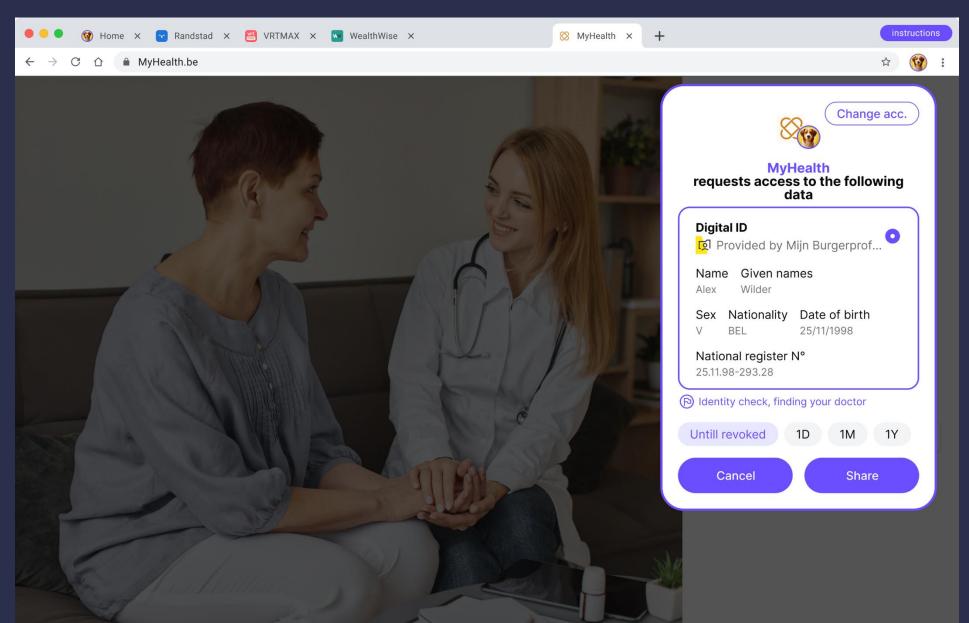






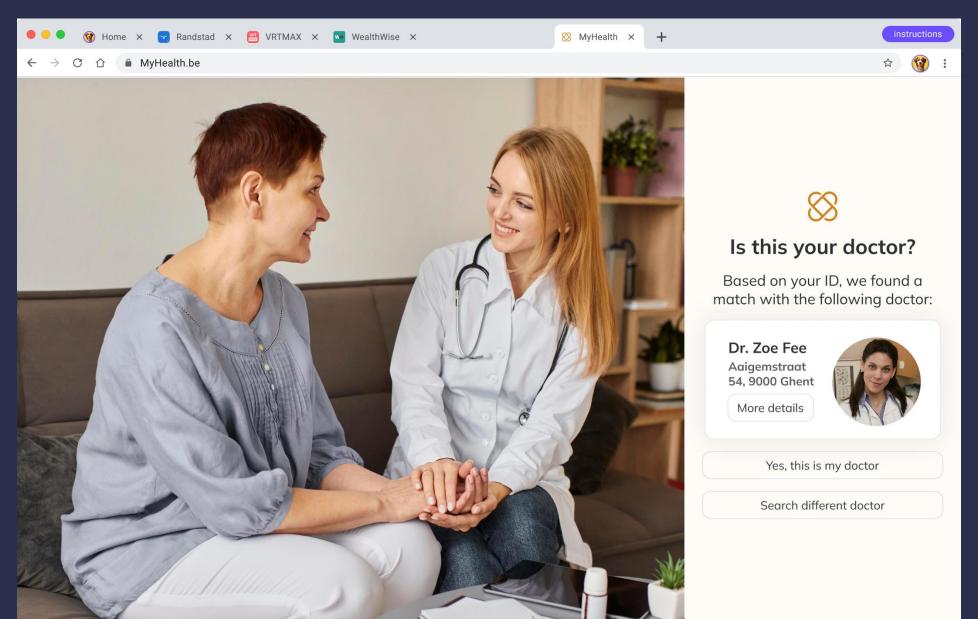






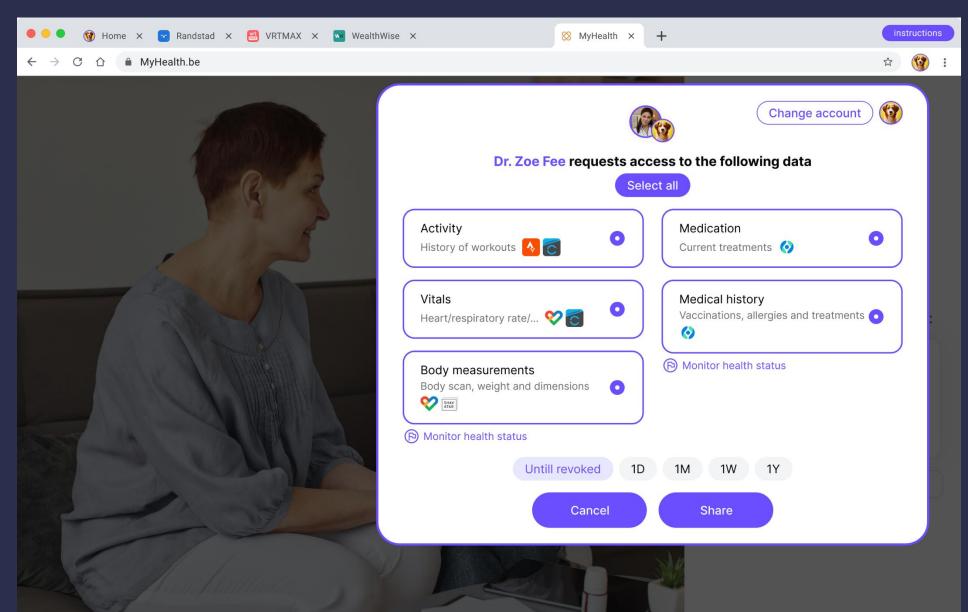






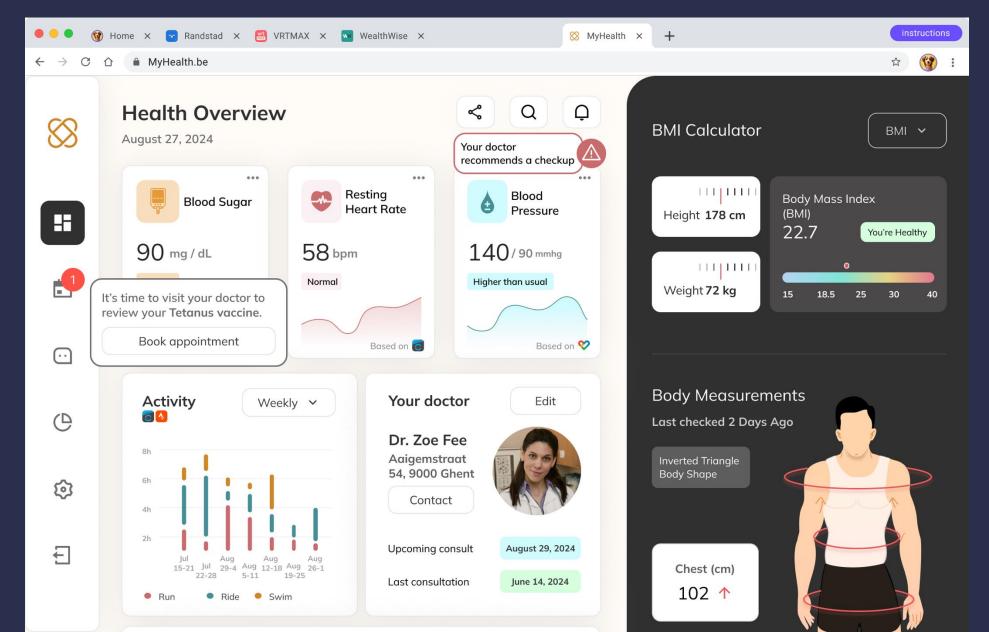




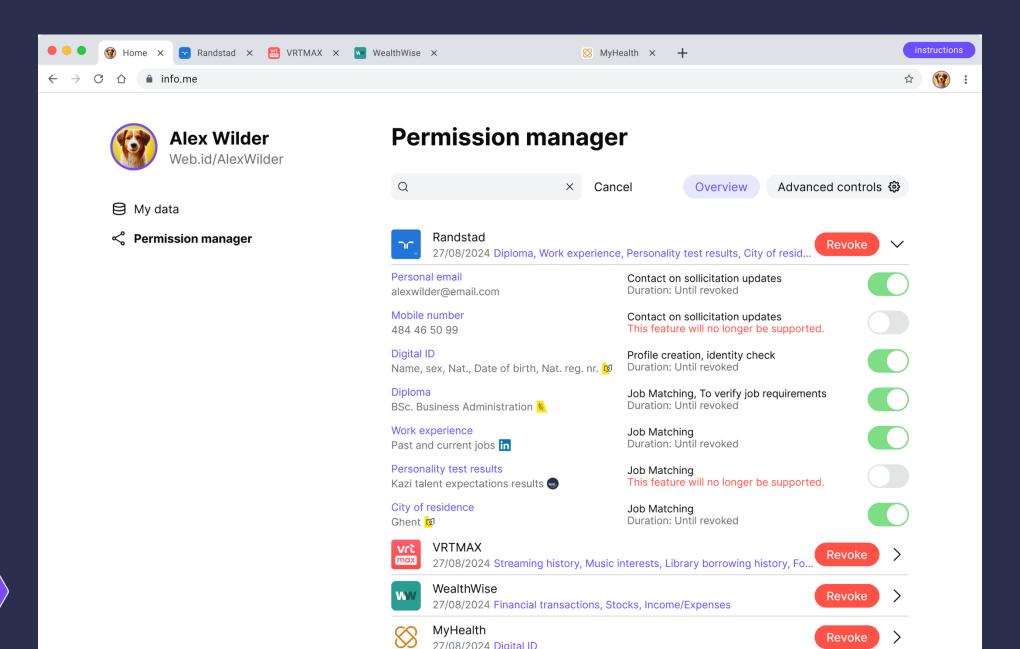






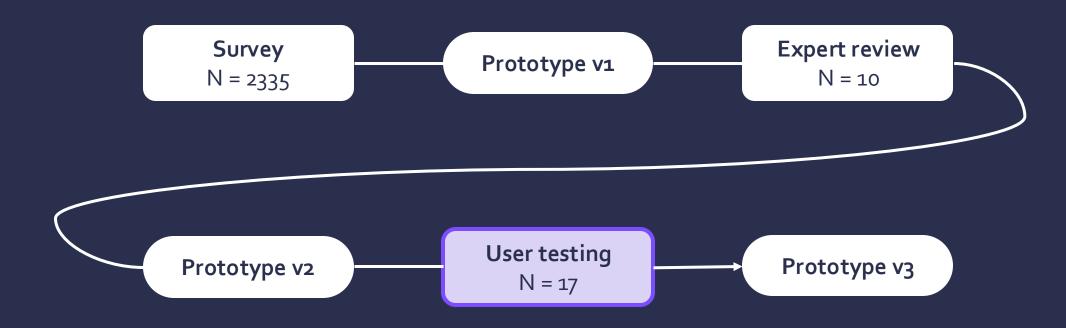








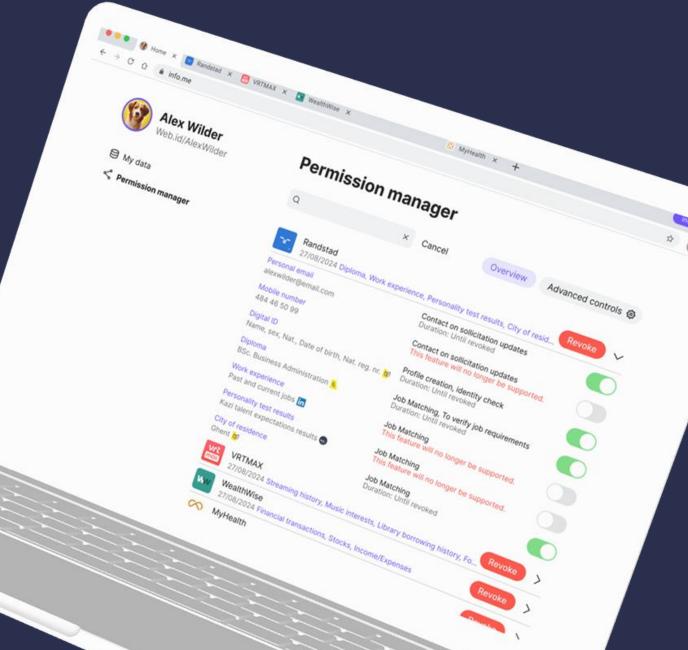
Methodology



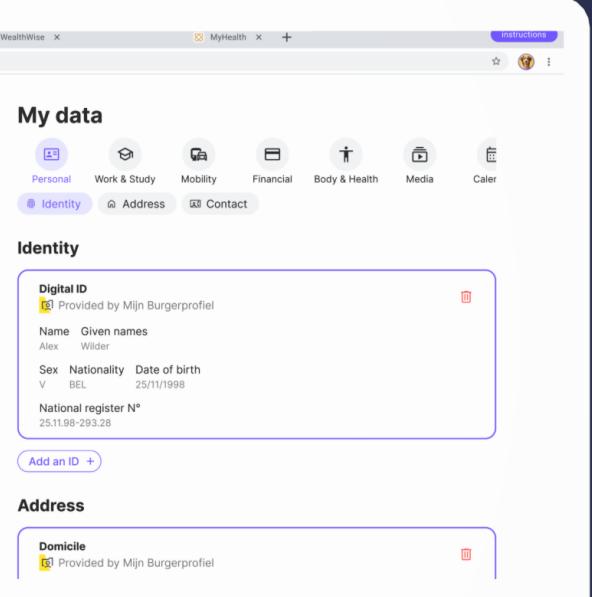


User testing

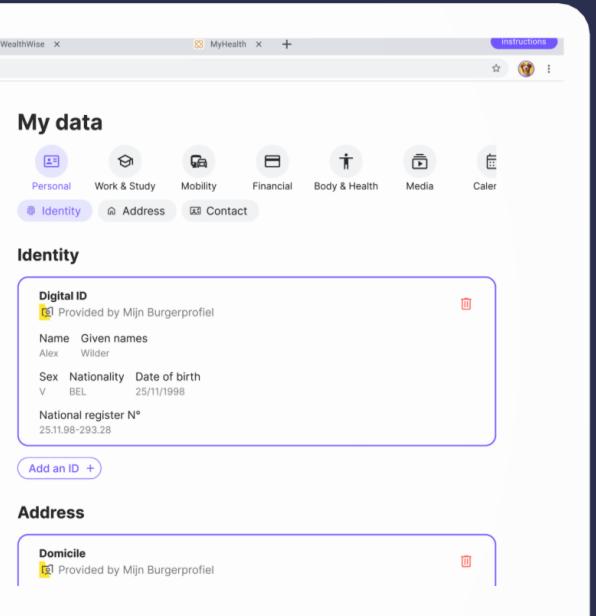
- Participants ran through all 4 use case scenarios
- 17 participants
- Between 18-44 years old
- Flanders
- Qualitative and quantitative feedback





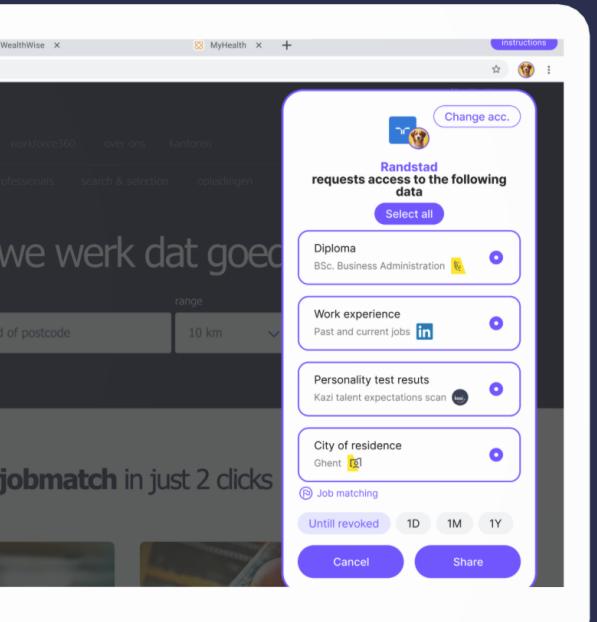


- Positive reception overall: structure and efficiency
- Major security concerns due to data centralization
- Trust tied to provider
 - Government affiliation seen as essential for credibility
 - But doubts about state involvement in leisure data
- Permission manager well appreciated



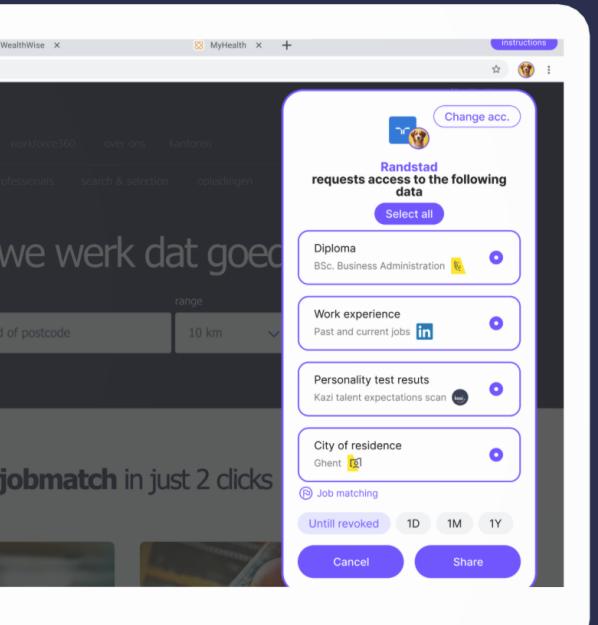
Personal Data Store

"Interesting to have that in one location instead of having 456 different apps for it."



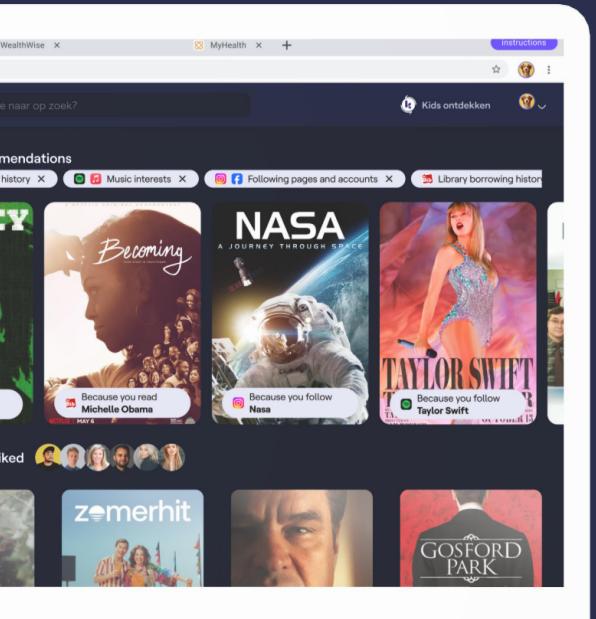


- High willingness to share data for job matching
 - Some doubts about personality tests, sex and age
- Appreciation for data minimization (e.g. city instead of exact address)
- Desire for more control: filters, keyword preferences
- Positive overall: fast, simple, efficient



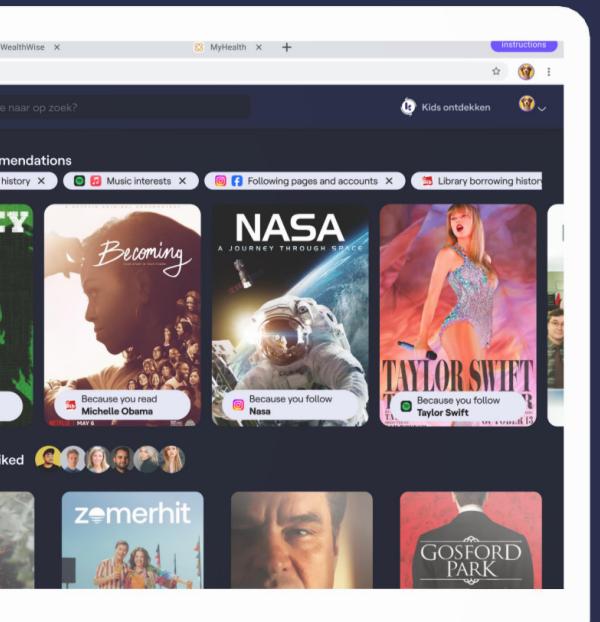


"I just think it goes really fast, and it's just super simple like that. Check, check, check, [...] It's really super simple."





- Initial scepticism about relevance of certain data (e.g. city, listening history)
- Strong reluctance to share social media data
- Trust in platform mattered
- Perception shifted after seeing recommendations
- Mixed reactions overall: convienence
 VS fear of filter bubbles

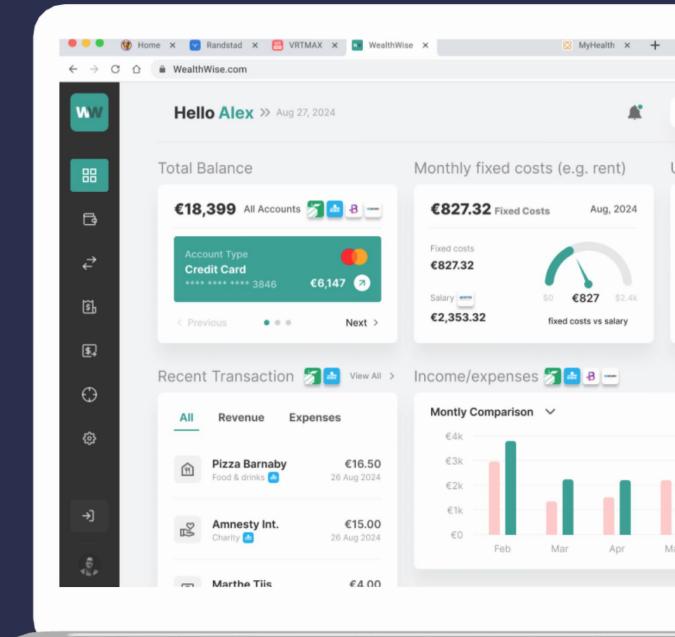




"Sometimes you just want to watch a no-brainer, and then I wouldn't share because I think, wow, people would think I only watch silly series."



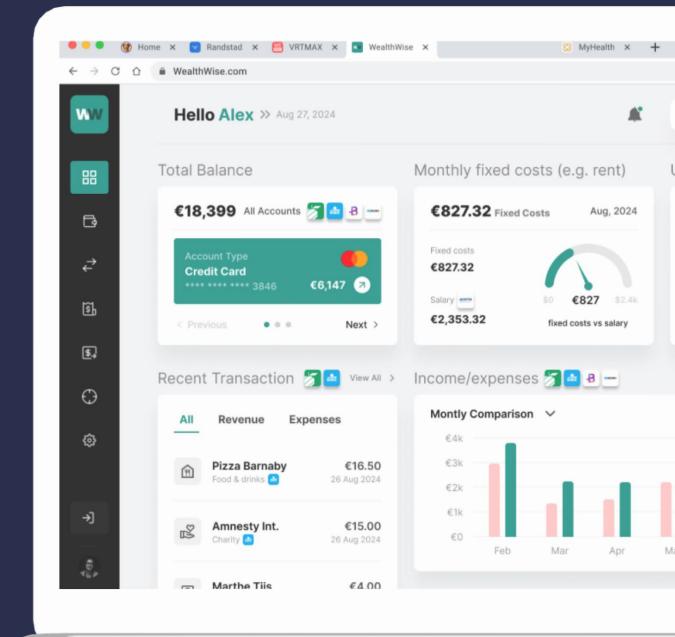
- Initial caution due to platform unfamiliarity
- Participants were looking for a link with their bank
- Clear value in financial overview
- Willingness to share increased after using the tool
- Lower relevance for some users (e.g. students, single bank users)





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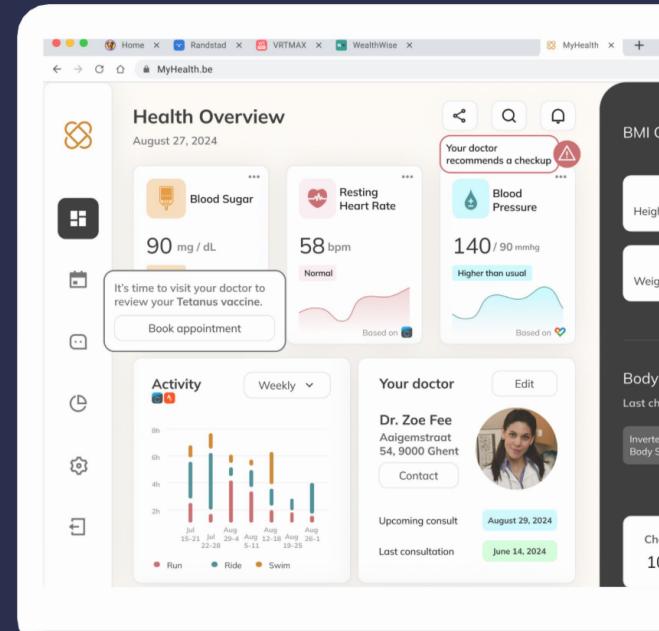
"It must be really secure, because otherwise I would never use it. [...] If this doesn't look secure, then I would rather scroll through the various banking apps than open this."







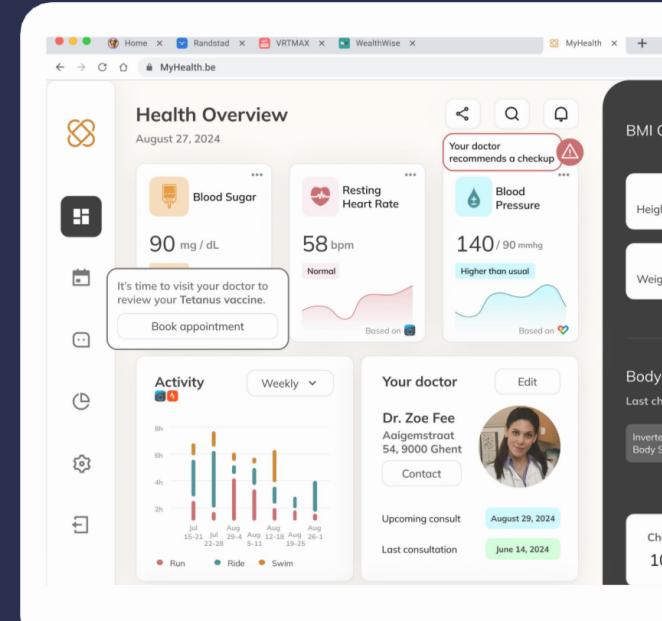
- "With your doctor you should be able to share everything" VS "If I do not have any issues, then he should not know when I'm exercising."
- High willingness to share
- Strong appreciation for admin simplification
- Proactive health alerts and clear dashboards well received
- Concerns insurance misuse







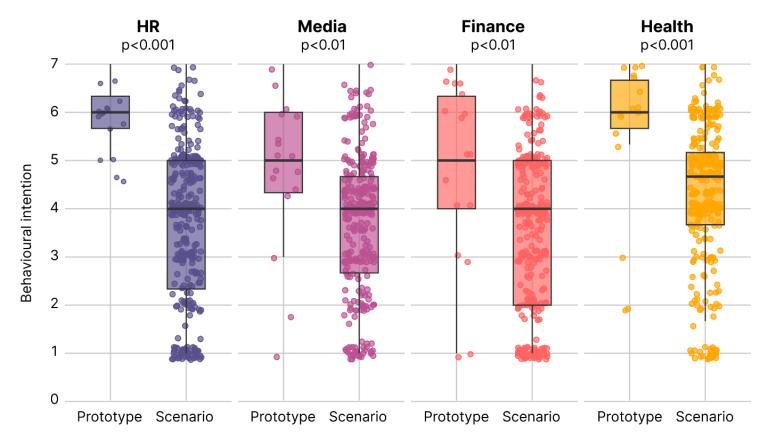
"I had surgery recently, and I had to do things on a thousand platforms and so on. So if those things were all clustered, that would be super practical."





Prototype interaction appears to heighten users' interest

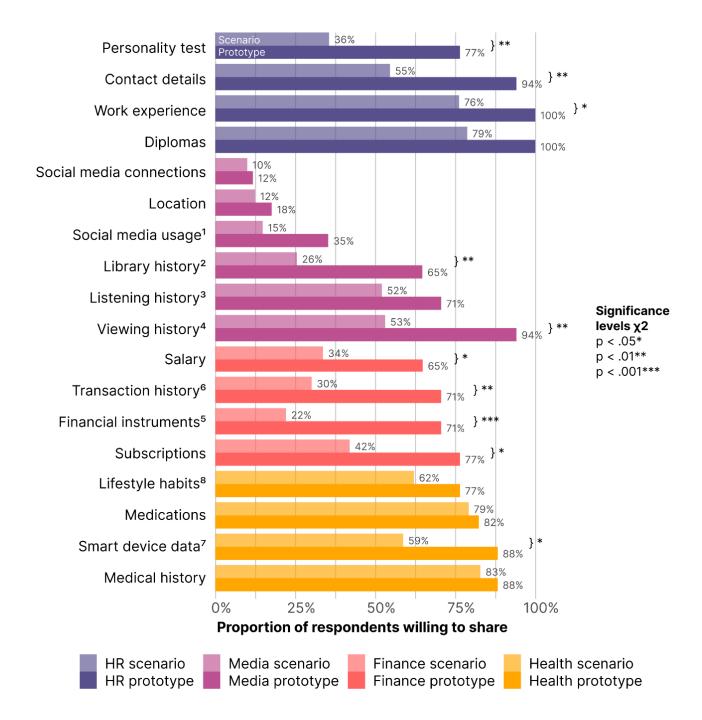
Participants who interacted with the **prototype** report **higher behavioral intention** scores across all use cases compared to those who evaluated the written scenarios.





Participants who interacted with the prototype report a higher willingness to share data





Conclusion

1. "Show don't tell"

Tangible experiences increase adoption potential

2. Security is the top barrier

Thematic PDSs could reduce perceived risk but reduce PDS efficiency

3. Trust in provider is essential

Government affiliation increases credibility—but not for all data types

4. Users prefer utility over leisureStronger enthusiasm for Health and HR use cases

5. Simplicity vs. Control tension

Personalization with transparency and control, data minimization and gradual onboarding

6. Usability ≠ main hurdle

Explainability—not usability—is the real challenge



