



Partnership proposal for Qwant Maps

Provide more value to Maps users by joining an open data ecosystem for reviews

March 2020

Mangrove hopes to contribute to Qwant's success



Who we are and what we aim for

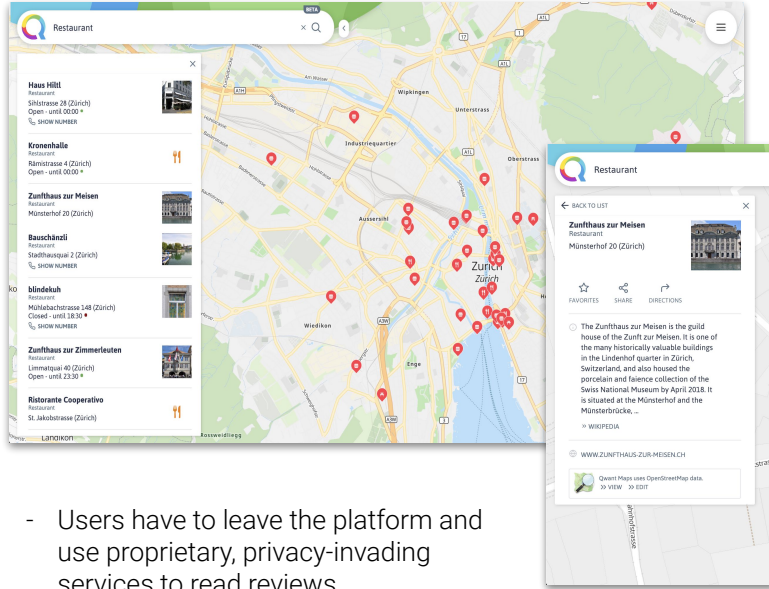
- Mangrove is a **global non-profit initiative** rooted in Europe. We stand for open source software development, open data, and innovation in privacy-respecting identity technology.
- **Our aim is to create an open data ecosystem for reviews** of places, companies, websites, books, and more. Word-of-mouth is a fundamental form of human collaboration, and people should have a place on the internet where they can share their insights freely, to be useful to others at scale.
- We provide **free infrastructure that enables any application or website to integrate a reviews layer**, and to allow their users to read/write reviews.
- You can use your own **identity** service or Mangrove's cryptographic solution.
- Reviews are stored in an open dataset, licensed under **CC-BY-4.0**, allowing individuals, innovators, researchers, and more, to use the data freely.

Why we want to contribute to Qwant's success

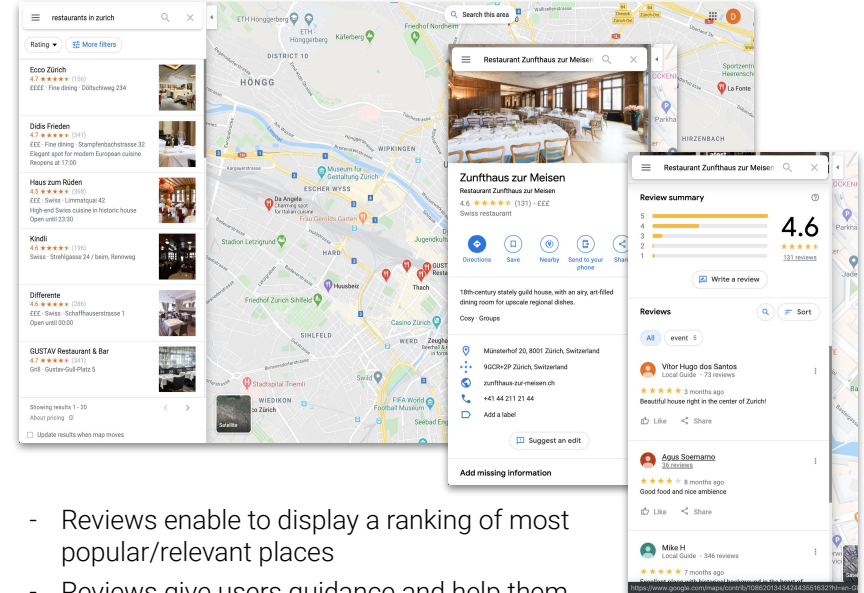
- **Qwant's values:** strong commitment to protecting its users freedoms; neutrality and impartiality in serving results, unbiased by commercial, political or moral interests; high standards in user experience; open source; innovation in privacy technology.
- **Qwant Maps** is built on other open data projects (OpenStreetMap and Wikipedia) and provides an alternative to proprietary data silos, making the web a better place. But to be more competitive, **a reviews layer is missing** that would allow users to read/write reviews directly in the web app.
- **Qwant Masq** is a privacy technology that is built on similar principles as Mangrove, and **can be easily integrated**; both together could lead to interesting developments in privacy-preserving, preference-based recommendation systems.



Reviews could fill an important gap to competition



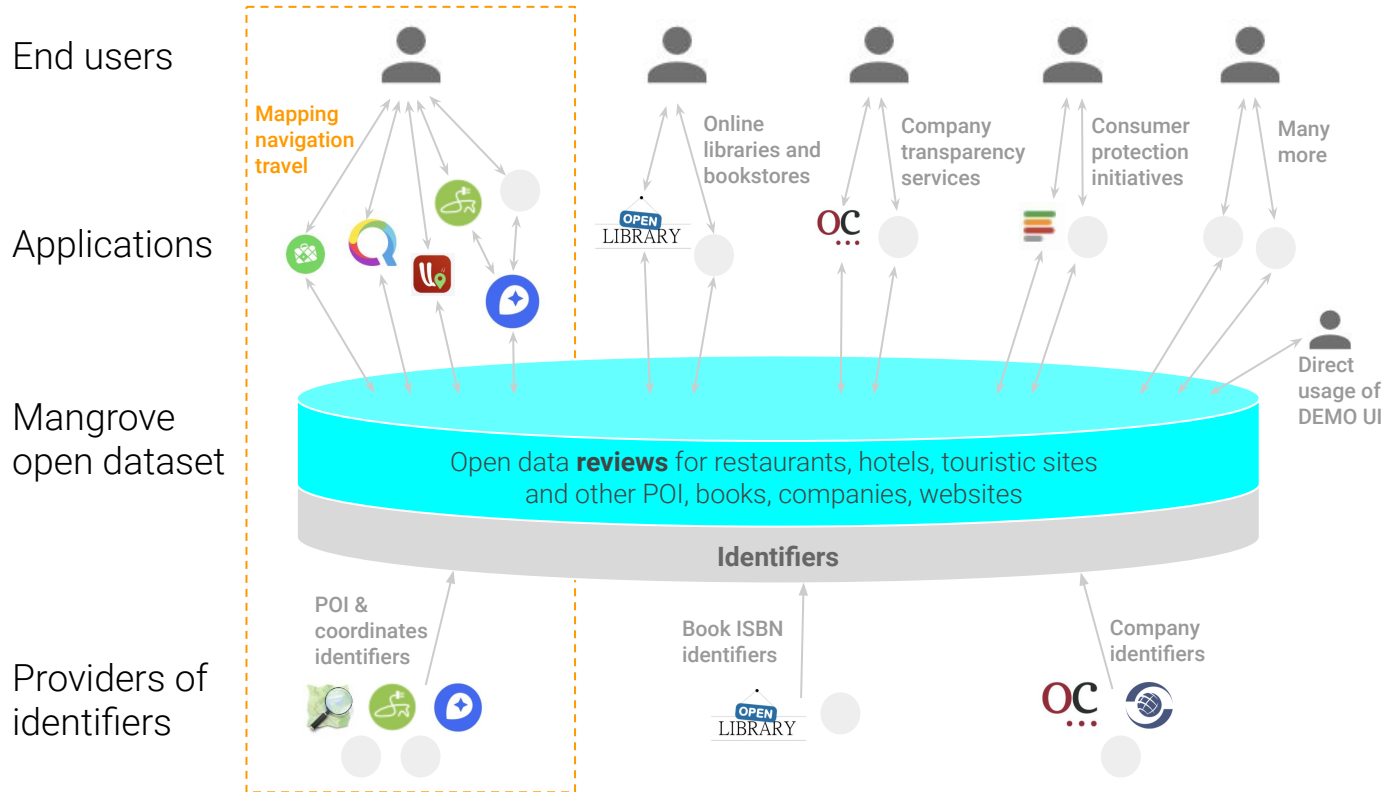
- Users have to leave the platform and use proprietary, privacy-invading services to read reviews
- Without reviews, results cannot be displayed by order of popularity or relevance
- Users cannot contribute or interact within Qwant Maps, making it harder to grow the community



- Reviews enable to display a ranking of most popular/relevant places
- Reviews give users guidance and help them in their decision-making
- Reviews allow for interaction and participation: sharing of insights as word-of-mouth is a fundamental form of human collaboration



How to get to a critical mass of reviews



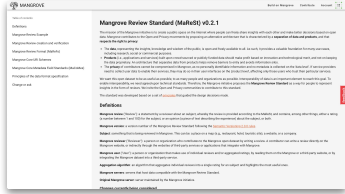
Collaborate to build a shared reviews database at scale

- **Reviews pose a network effect:** the more reviews a platform has, the more attractive it is for users to come to read/write reviews
- With today's incumbents keeping reviews proprietary it is **very hard for any new player to accumulate a critical mass** of reviews on their own; this stifles competition and inhibits innovation based on the data
- **By joining forces** and building a shared pool of reviews as open data, **ecosystem participants can** jointly overcome this barrier and achieve a more level playing field



Use a set of free tools to join the reviews ecosystem

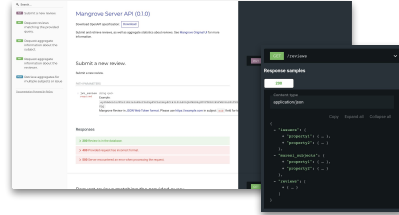
Technical standard to ensure interoperability



<https://mangrove.reviews/standard>

- Ensures that all reviews can be analyzed programmatically
- Allows for high integrity assurance without a central server

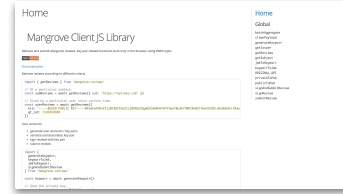
Open-source API and documentation



<https://docs.mangrove.reviews/>

- REST API with an OpenAPI specification
- Allows for easy submission and retrieval of reviews

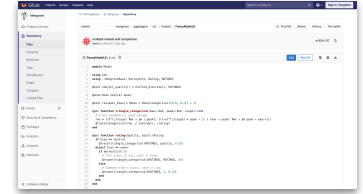
Identity solution without central identity server



<https://js.mangrove.reviews/>

- A client-side JS library for interacting with the API and managing of the identity
- Makes use of public key cryptography for serverless identity
- Integrators are free to use own identity solution

Probabilistic aggregation algorithm



<https://gitlab.com/plantingspace/mangrove>

- To ensure high reliability of the data, we are building an open source probabilistic aggregation algorithm with the ability to learn and perform at scale
- Integrators are free to use their own filters and algorithms

The Mangrove team provides **free support** and works with your developers to make the integration work.



The benefits for Qwant in a nutshell



Attract and retain more users and customers

- Offer your users the possibility to read/write reviews within your app, without them having to leave your platform
- Offer businesses profile pages and possibility to interact with reviewers
- Become more competitive with the dominant players
- Use reviews to market your service, attract more advertising customers, and increase your reach



Collaborate to jointly grow the pie

- Tap into a global data pool that is much larger than what any single participant could create if relying on their user base alone
- Minimize your effort by using and sharing already existing open source infrastructure instead of building something from scratch
- Reap benefits of open data at scale that can be used for research and technological innovation
- Benefit from free and open source software that you can customize



Participate in improving the web

- Further strengthen the open data movement to help make the web more inclusive, improve free market competition, and foster open innovation
- Help creating a place on the internet where people can freely share insights with each other, for the whole of humanity to benefit freely
- Strengthen another privacy-respecting technology



Get in touch with us to discuss your requirements

Founders of the Mangrove initiative



Peter Czaban

- Founder and co-CEO of PlantingSpace
- Worked on ML approaches based on probabilistic programming; built and lead teams as a CTO
- Holds a Master's in Engineering from the University of Oxford
- [Website](#)



Dina Carabas

- Founder and co-CEO of PlantingSpace
- Held COO roles in two technology startups
- Spent >6 years as a management consultant with McKinsey & Company
- Holds a Master's from Karlsruhe Institute of Technology and an MBA from INSEAD
- [LinkedIn](#)

About and Contact

Mangrove is a non-profit service hosted and supported by a community of businesses, developers and interested parties around the world. Its finances are managed transparently as an [Open Collective](#).

Visit the [web app](#) for a demo of the infrastructure.

Recent blog post

- Intro and overview of the Mangrove web app: <https://hackernoon.com/heres-why-we-built-a-web-app-for-open-reviews-with-open-source-infrastructure-7ng538v7>

Contact

- Website: <https://mangrove.reviews>
- Twitter: [@mangroveReviews](#)
- Mastodon: [@mangroveReviews@mas.to](#)
- LinkedIn: [PlantingSpace](#)
- Join our chat: [Riot](#)
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