

Remix Technologies, LLC

Documentation of Unique Functionality and Features

EXECUTIVE SUMMARY

Remix is the only provider of integrated transportation planning software that connects flexible data analysis with network development, planning and scheduling, and street design, enabling transportation professionals with the complete mobility toolkit. Remix enables authorities to strategically design and analyze the best transportation options for their community. More than 17,000 transportation professionals around the world use Remix to make data-driven decisions and build consensus with key stakeholders and members of the public to shape the future of transportation.

Transportation data lives in different formats, systems, and silos. Remix brings critical datasets from disparate sources together into a unified view so you can understand existing conditions and gain insights across many dimensions.

With Remix's flexible and robust data analysis capabilities, the Remix platform is the only transportation software specifically designed to help professionals integrate equity analysis into all workflows. Remix is built on, and champions, open data standards, making us uniquely positioned to work within an agency's existing processes, and minimizes an organization's risk for vendor lock-in, maximizing the potential for collaboration. Remix is the first and only collaborative mapping platform made to be used by multiple departments across a diverse set of stakeholders and, unlike other technology offerings, is intentionally designed for community engagement.

Remix is cloud-based and provides an unlimited number of user accounts within a customer organization, providing the flexibility to use Remix at home offices, team meetings, or stakeholder outreach, as well as access to the most-up-to-date version of Remix without hidden update fees or costly en-premise installation and maintenance. Remix is updated continuously based on customer feedback and research; over the last year and a half, the product development team launched over 150 improvements and new features to the platform. Remix's best-in-class software is paired with Remix's expert customer success team, a team of consultants and transportation professionals to support the long-term success of our clients' transportation programs and projects. Each customer organization is assigned a dedicated Customer Success Manager, ready to ensure an

organization is thriving from the moment it becomes a customer. When an organization procures Remix, they don't just procure technology — they procure transportation expertise, influence in software innovation, and access to Remix's large network of planning professionals.

Key Distinguishing Features



Powerful multimodal analysis

Remix Transit (Planning, On-Demand, + Scheduling) is a single tool for all your continuous planning needs, from strategic planning through service planning, with Remix's signature emphasis on the most intuitive interface, user control, and collaboration throughout.

REMIX TRANSIT

Remix Transit is the first platform for public transit where an authority can design and evaluate everything from daily timetables and runcuts to a route detour or full system redesign. Unique specifications include:

- Cloud-based software with a drag-and-drop interface for drawing transit routes and corresponding stops that provides instant analysis on operational and demographic details
- Built to utilize existing bus stop infrastructure and agency's General Transit Feed Specification (GTFS) or TransXchange (TXC)
- Customisable timetables around anchor timepoints and trip variants, ability to bulk edit frequencies, and timed connections considerations
- Customizable vehicle blocking and layovers for accurate cost estimates with Timetables in Blocking.
- Automatic analysis and visualization of connections between routes for optimal schedule planning and improved timed connections.
- The ability to easily draw lines, quickly edit timetables, and seamlessly validate and publish Google-ready GTFS makes planning and implementing detours easy
- Remix Presentation Studio helps communicate the changes to riders with maps that show clear, stylized lines and stop points, accessible stop icon sizes, and the ability to export maps in custom sizes.
- Predict runtimes for brand new lines and in areas with no active routes using Via's proprietary algorithm and historical traffic data.
- Analyze actual run-time performance using historical operational date and identify opportunities to improve on-time performance
- Remix's Directional Route Miles (DRM) tools automatically calculates route geometry within minutes allowing agencies to seamlessly

report DRM for their entire transport network.

- Remix GTFS Publisher allows users to import, edit, and export all of your system's essential GTFS information in one place. Produce high quality GTFS data that can be directly published to Google, other rider apps and operational software.
- "Jane" is Remix's travel time isochrone that visualizes access and mobility across a transit network. It takes into consideration the pedestrian network to provide an accurate representation of how people navigate the built environment and can follow a specific timetable, providing a granular understanding of transit wait times and the time it takes to walk to and from specific stops.
- Full downstream integration with Remix Scheduling and the ability to view and adjust timetables in Scheduling directly
- Draw and modify tram, light rail and subway systems in the same easy to use platform as bus and microtransit planning. New lines automatically follow existing tracks (even those under construction).
- Holistically, managing stops information across the network. Capabilities include:
 - Unified Network View: View all stops, garages, and parent stations in one consolidated map section.
 - Bulk Management Tools: Edit multiple fields, or delete places in bulk.
 - Advanced Filtering Options: Filter by specific properties of stops for quick analysis and action.

REMIX BLOCKING

Remix Blocking lets you make smarter service decisions by combining the art and the science of bus scheduling. With the option to manually or auto block trips (assigning trips to buses), easy GTFS exports, and lightning-fast outputs, you can move away from manual tools and cumbersome software to intuitive timetables, rosters and actionable recommendations:

- Remix's algorithm considers your agency's preferences and parameters to create optimized options in just a few minutes, with easy-to-understand tradeoffs on PVR and resource constraints.
- With a simple click, you can create complete and accurate GTFS data and publish it to a stable URL to share with 3rd parties, enabling you to export future changes to the same URL to keep your riders

informed and help them plan accurate trips.

- Transit to Blocking works seamlessly together as you make changes, pass along timetables, schedule your vehicles and operators, and manage tendered or franchised networks.
- Export presentation-ready timetables directly from Remix's interface

FIXED ROUTE SCHEDULING + OPS

Easy to use and fully integrated with Remix Scheduling, our operations module is designed to streamline day-of transit operations management, from bid assignment to daily planning, ensuring optimal efficiency, transparency, and adaptability.

- **Dynamic bid process management:** Formally assign drivers to bids and swap drivers if roster assignment changes, Pre plan future bids for not currently operated services and keep a historical record of past bids to remember past selections
- **Flexible Bid Period Assignments:** Assign bid periods to date ranges for automated daily schedule generation and enable adaptive scheduling that responds to real-time operational events.
- **Automated Daily Planning:** Generate daily schedules with ease, utilizing assigned bid periods. Efficiently assign specific vehicles to vehicle blocks for optimized operations.
- **Intelligent Driver Shift Allocation:** Auto-populate driver shifts directly from Remix's roster, eliminating manual effort.
- **Dynamic Reporting Capabilities:** Create insightful reports based on the outcomes of daily plans in order to improve efficiency overtime. Accurately track historical operator worked hours for pay management.



Flexible data analysis

Remix is the only transportation planning platform designed for quick and flexible data analysis that is intuitive to use.

REMIX EXPLORE

Remix Explore is Remix's data platform designed for powerful and flexible data analysis that is visually compelling and easy-to-use. Designed to support anything from a board presentation, equity analysis, or grant funding proposals. Unique specifications include:

- Instant demographic statistics on any geographic boundary: a custom shape, point, line, or predefined region, like census tract or zip code
- "Breakdown Tables" to dig deeper and uncover the interaction between multiple demographic variables

OUT-OF-THE-BOX DATA LAYERS

Out-of-the-box data layers and visualizations are available to customers immediately. Unique specifications include:

- Interactive data layers for filtering and rescaling data
- "Delta Layers" to calculate change over time across multiple ACS and Census datasets

CUSTOM DATA LAYER UPLOADS

Customers can self-service upload their own data or work with Remix's expert data visualization team. Unique specifications include:

- Data uploads shared across an account organization to promote collaborative workflows
- Examples of uploaded data include: historic ridership data, bus stop amenities, traffic collisions, vehicular turn counts, bike network data, etc.

DATA AGNOSTIC

The Remix platform is data-agnostic, built to ingest data from both proprietary and public sources. Unique specifications include:

- Dedicated data team that has supported over 3,000 datasets to date
- Proven experience partnering and integrating with other ITS vendors, such as Syncromatics, INRIX, Swiftly, and Via

OPEN DATA STANDARDS

Remix champions open data standards to minimize an agency's cost of transforming data and to ensure interoperability with other systems. Over the past nine years, Remix has made significant contributions to leading transportation data standards, like GTFS, and recently became the first platform to deliver a directly-exportable version of ODS, to accommodate the additional operational fields reflected in the new standard. Remix is working towards an ecosystem of technology and tooling that helps the broader transportation industry.



Designed for
collaboration and
community
engagement

Remix is the first and only collaborative mapping platform made to be used by multiple departments across a diverse set of stakeholders and, unlike other technology offerings, is intentionally designed for community engagement.

UNLIMITED USERS PER CUSTOMER ORGANIZATION

One agency license includes access for an unlimited number of users within the customer agency.

WIDE RANGE OF IMPORTS AND EXPORTS TO PROMOTE INTEROPERABILITY

As a SaaS product, Remix is designed to work with existing agency tools and processes. Users can import and export existing information to GTFS, shapefile, KML and CAD. Other exports include Microsoft Excel, KML, shapefile, PNG images, as well as print-ready visuals in PDF.

MAINTAIN GTFS FEEDS

GTFS creation is woven into the fabric of Remix Planning and Scheduling software, meaning that every action you take in Remix — renaming a stop, changing a headway, creating seasonal schedule — is automatically reflected in a set of compliant GTFS files that can be exported at any time.

- Ingests, validates, and displays Google-ready GTFS (including fares) in an intuitive visual format
- Updates GTFS in the familiar Remix planning and scheduling environments
- Manage multiple service periods with an easy calendar feature
- Export GTFS to a stable URL to upload to 3rd party platforms, so that any future updates are automatically reflected
- Easily handle multiple GTFS feeds for streamlined interagency planning.

COLLABORATION WITH INTERNAL STAKEHOLDERS

- Remix is designed to assist the many collaborative components of the planning process. Unique specifications include:
 - "Remix Commenting" to collect and manage feedback from colleagues
 - Geo-located comments that provide additional clarity and context about the project at hand
 - Threadable commenting for storing conversation in one place and makes collecting input easier to manage
 - Archived comments to categorize comments that are in active discussion vs comments addressed
- Project sharing through email invitation or shared links
 - A "viewed" list showing which invited users have viewed the project
 - Shared project links can be duplicated to preserve originals and support project versioning
- Transit lines that can be dragged and dropped across projects
- "Sample Street Projects" in Remix Streets, which are templates of various street designs that users can copy and paste into their own projects to make the design process faster and easier
- Shared organization-wide settings that are customizable per agency
- Seamless multi-user editing allows multiple staff members to work on the same project at the same time, with full visibility to prevent conflicts or duplication of work
- Foldered organization system allows individual users to keep work organized

COLLABORATION WITH EXTERNAL STAKEHOLDERS

Collaboration between a transportation agency and external stakeholders is a two-way street. That's why Remix is intentionally designed for community engagement. Unique specifications include:

- Read-only project view shared through web links
- "Remix Commenting" to collect and manage feedback from external stakeholders
 - Geo-located comments that provide additional clarity and context about the conversation at hand
 - Optional threadable commenting that provides back-and-forth conversation between internal staff and external stakeholders
- Comment export to keep record of public or external stakeholder feedback in one place

- Mobile commenting from community members to ensure equity and accessibility
 - Community members are able to review and comment on a proposed plan from their mobile device, ensuring feedback and commenting is not limited to only constituents with desktop computers.

PRESENTATION-READY MAPS

Remix's "Presentation Studio" turns transit projects into public-facing materials by providing additional polish and high resolution visuals. Unique specifications include:

- Line styling by color, texture, and weight
- Bulk editing of lines and stops to get maps presentation ready quickly
- Text annotations to provide additional clarity and notes to a map
- Directional arrows and customizable bus stop icons
- Exportable, high-resolution custom-sized maps in PNG



Designed to help practitioners integrate equity into all workflows

Remix strives to help local governments achieve more equitable outcomes by expanding access.

"JANE," REMIX'S ACCESSIBILITY TOOL

Jane is Remix's travel time isochrone that visualizes access and mobility across a transit network. Transportation planners love Jane for the ability to evaluate how their transit plan will impact access from a particular place. This lets them evaluate how a community may benefit or be harmed by their plans.

Using selected modes (walking, transit, on demand), planners can calculate how far Jane can travel within the time limit on the network. Remix then uses the points Jane could reach to generate an isochrone to visualize the area accessible within that time, and to calculate the stats in that area using the "area-overlap" method. There are many ways to configure Jane to understand accessibility under different circumstances.

Network Jane allows transportation planners to identify accessibility gaps when looking at their whole network, since it's not always obvious where to drop Jane to identify poor access. With Network Jane, planners can analyze travel accessibility across a network by showing the results of placing Jane at many places across the network.

Network Jane can also estimate real wait times based on trips in the Remix timetable and by taking into account the real pedestrian network. Jane allows planners to better evaluate specific corridors with multiple lines, areas with infrequent service, and more.

The result of this powerful analysis is a visualization of stats--population, jobs, community assets, or anything really--that are reachable using an existing transit network. Planners can customize the analysis to evaluate travel accessibility within specific trip limits (20, 30, 45 minutes, etc.) at specific days and times to make changes that improve accessibility or as supporting evidence for plans that improve accessibility in meaningful ways.



Trusted by 600+
local governments
and 17,000
transportation
professionals

Remix is a trusted
technology company due
the company's joint
expertise in software
development and
transportation planning
and policy.

REMIX CUSTOMER SUCCESS TEAM

Each customer agency is assigned a dedicated Customer Success Manager to support account creation, training, continued education, and best practice sharing. Unique from the Remix Customer Success Team are:

- Expertise in the industry with prior experience in transit planning, transportation planning, consulting, or urban studies
- Training and continued education for no additional charge
- Remix Learning Hub gives users access to live and recorded trainings, as well as office hours to drop in with questions.

TECHNICAL SUPPORT

One agency license includes access for an unlimited number of users without the worry of maintenance, hosting, or software updates. Remix Technologies, LLC maintains the technology infrastructure and releases new features available immediately to active customers for no additional charge.

REMIX PRODUCT PHILOSOPHY

Remix builds continuously for improvements and new features in the product. Remix's product roadmap is determined by customer needs. In the calendar year 2024, Remix released over 120 product updates, all available to existing customers without additional cost or on-premise installation.

COMPANY AWARDS

Company awards include:

- 2020 World Economic Forum Tech Pioneer - awarded to innovative organizations that the World Economic Forum considers "Technology Pioneers"
- 2020 Bloomberg NEF Pioneer - awarded to "game changing" organizations working in energy, transportation, and sustainable spaces
- 2016, 2017, 2018, 2019, 2020, and 2021 GovTech Top 100
- 2021 StateUp Top 21 Digital Innovation Company

Michael Vaccarino

A handwritten signature in black ink, appearing to read "M. Vaccarino", with a stylized flourish at the end.

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