



## **ChainLynx Bikepacking App – Executive Summary**

Pre-Release Technical Documentation — November 2025

**ChainLynx Bikepacking App** is a comprehensive, offline-first mobile application designed to be the essential digital tool for modern bikepackers. It integrates navigation, safety, community, and logistics features into a single cohesive platform.

Our mission is to enhance the bikepacking experience by fostering a connected, informed, and safe global community, whether riders are in the backcountry or planning at home.

ChainLynx unites technology, exploration, and community within one secure, offline-first ecosystem. It is not merely a navigation app but an evolving platform for safer, smarter, and more connected adventure cycling.

For funders and partners, this represents an opportunity to invest in a high-engagement platform at the intersection of technology, adventure travel, and community safety.

1. **Route Discovery and Offline Management:** The Routes Hub provides curated, world-class bikepacking routes, filterable by region, ride type, and difficulty. Offline-first architecture ensures 100% core functionality—map tiles, POIs, and guides—remain available without cellular coverage. Riders can activate a route to customize the app experience around that journey.
2. **Interactive Mapping and Dynamic Navigation** The Map Screen integrates topographic and satellite layers with live GPS tracking, interactive elevation profiles, and real-time community data layers. Trail reports, rider locations, and POIs appear contextually, transforming static maps into live dashboards for decision-making.
3. **Community Engagement and Crowd-Sourced Safety** The Feed connects riders globally. Trail reports appear both in the feed and on maps, offering immediate situational awareness. Social sharing builds engagement, while safety data benefits all users and partners.
4. **Innovative Offline AI Support Downloadable AI Assistants**—such as Bike Mechanic, Wilderness Medic, and Campmaster—provide expert guidance without connectivity. These lightweight, on-device models enable repair advice and first-aid assistance in remote regions.
5. **Scalability and Future Expansion** User-generated routes and device integrations (Garmin, Wahoo) support organic growth. Premium data layers, weather, and local business partnerships will expand future functionality.