

# Cambian Digital Health Platform

Tools that engage individuals and families and enable coordinated, proactive health care



## Company Overview

Cambian is a digital health information solutions provider with more than two decades of experience supporting healthcare organizations, application vendors, and academic institutions in Canada and internationally. Cambian solutions are used to improve access to care, streamline care delivery, actively engage individuals and families, and enable the collection and use of high-quality health data. The organization is widely recognized for its expertise in assessment tools, person-centred best practices, team-based care, and the integration of clinical and administrative systems across complex healthcare environments. Cambian's work spans public health, primary and community care, chronic disease management, cancer survivorship, research, and population health. Over the past decade, Cambian has worked extensively with populations that benefit from community-based and virtual care, including individuals living with chronic and ambulatory care-sensitive conditions (e.g., heart failure, COPD, diabetes, asthma, hypertension), palliative care populations, elderly and less tech-savvy individuals, and children and families navigating cancer survivorship. Its solutions have been deployed at scale in multiple jurisdictions, supporting tens of thousands of active participants, and are trusted by health authorities to operate in regulated, privacy-sensitive environments.

## Cambian's Vision

Cambian is driven by a vision of a healthcare system that fully engages individuals and their families as active partners in care and research. When individuals are empowered with the right tools, information, and supports, they achieve better health outcomes and more meaningful care experiences. Care providers benefit from improved productivity, better information flow, and reduced administrative burden, while researchers gain access to high-quality, consented data that enables discovery and innovation.

Cambian believes that collaboration between individuals, families, clinicians, researchers, and health systems is foundational to sustainable healthcare transformation. The Cambian Digital Health Platform is designed to act as a trusted digital front door making it easier for people to access care, understand their conditions, navigate services, and engage proactively with care teams across settings.

## The Cambian Digital Health Platform

The Cambian Digital Health Platform is a comprehensive, cloud-native digital health platform designed to enable self-management, improve coordination of care, and support data-driven decision-making across the healthcare ecosystem. It connects individuals, families, care teams, administrators, and researchers through a modular suite of applications built on open standards and a shared clinical data foundation.

As a digital front door, the platform provides a single, coherent entry point for individuals and families to access information, complete assessments, book services, receive guidance, and participate in care while seamlessly connecting to organizational systems behind the scenes.

At its core, the platform supports secure collection, exchange, and use of health information using Fast Healthcare Interoperability Resources (FHIR). Its distributed architecture separates individual-controlled Personal Health Records (PHRs) from organizational Clinical Data Repositories (CDRs), enabling privacy-by-design, clear data stewardship, and integrated consent management.

The platform is designed to be extensible and configurable, allowing healthcare organizations to deploy targeted capabilities quickly and evolve them over time without large-scale system replacement.

## Key Platform Components

### **Cambian Navigator – Empowering Individuals and Families**

Cambian Navigator is the individual-facing application that enables people and their families to actively participate in their care. It provides practical, easy-to-use tools that support day-to-day health management, communication, and follow-up. Navigator functions as the primary digital front door for patients and caregivers supporting onboarding, self-service access, education, and ongoing engagement across hospital, community, and home-based care.

Key features include:

- **Dashboard:** A centralized view presenting notifications, news, educational articles, and personalized updates.
- **Network:** The ability to connect with healthcare organizations, care teams, and trusted individuals.
- **Messages:** Secure messaging for communication with care providers and organizations.
- **Activities:** Tools for managing care plans, tasks, and work in progress.
- **Data:** Collection and review of questionnaire responses, biometrics, encounters, lab requisitions, trends, and other health information.
- **User Profile:** Management of demographics, preferences, authentication, and personal settings.

Navigator supports multi-channel engagement (web and mobile) and is designed to be accessible to diverse populations, including elderly and less tech-savvy users. Through reminders, notifications, and educational content, it reinforces adherence to care plans and encourages sustained engagement.

## **Cambian Coordinator – Supporting Healthcare Organizations and Researchers**

Cambian Coordinator is the application used by care providers, researchers, and administrators to manage engagement, workflows, and data.

Key features include:

- **Dashboard:** Operational views of notifications, tasks, and reports.
- **Network:** Management of individuals, families, and groups.
- **Messages:** Secure communication with individuals and teams.
- **Services:** Tools for organizing campaigns, programs, and care plans.
- **Data:** A comprehensive repository of patient, practitioner, encounter, location, and other clinical data.
- **Editors:** Configurable tools for questionnaires, widgets, care plans, message templates, articles, news, and announcements.
- **Settings:** Management of profiles, permissions, reports, and organizational configurations.

Coordinator enables enrollment, consent management, care planning, automation of clinical guidelines or research protocols, proactive outreach, and aggregation of data to support team-based care and reporting.

## **Cambian Scheduler**

Cambian Scheduler provides appointment booking and resource management capabilities for healthcare service delivery organizations. It supports:

- Centralized scheduling across programs and services
- Integration with public health systems such as Panorama
- Automated reminders and notifications
- Configurable workflows for clinics, programs, and community services

Scheduler is used in multiple jurisdictions to support public health and community-based service delivery.

## **SMART on FHIR Applications**

Cambian offers a suite of SMART on FHIR applications that integrate directly with Electronic Medical Records (EMRs) and Clinical Information Systems (CIS). These plug-and-play apps provide specialized functionality such as family health, public health registry access, chronic disease management, and cancer-related workflows.

By leveraging SMART on FHIR, these applications launch seamlessly within clinician workflows while accessing data from organizational systems of record in a secure and standards-based manner.

## **Clinical Data Repositories**

The platform includes FHIR-based Clinical Data Repositories that store and manage structured clinical and administrative data. Individuals maintain their own PHRs, while organizations manage CDRs for care delivery and reporting. Consent governs data sharing between these repositories, enabling safe, auditable information exchange.

## Intelligent, Explainable Decision Support

The Cambian Digital Health Platform includes built-in support for AI-enabled decision support and workflow automation, designed to augment not replace clinical judgment.

Cambian is currently introducing AI tools supporting explainable, guideline-based decision support using Clinical Quality Language (CQL) and CDS Hooks. These capabilities enable:

- Automation of evidence-based clinical guidelines and care pathways
- Proactive alerts and follow-up triggers based on patient-reported data and trends
- Personalized education and next-step recommendations for individuals and families
- Support for risk stratification and proactive outreach for priority populations

The platform's modular architecture allows additional AI tools developed by Cambian or third-party vendors to be integrated without architectural change, ensuring flexibility, transparency, and alignment with ethical and regulatory expectations.

## Cloud-Native, Standards-Based Architecture

The Cambian Digital Health Platform is built as a cloud-native service, deployed on secure Canadian-hosted infrastructure. Its distributed, API-centric architecture supports scalability, resilience, and high availability.

Key architectural characteristics include:

- FHIR-native data model for interoperability and future-proofing
- SMART on FHIR, HL7 v2/v3, and RESTful APIs for integration with EMRs and legacy systems
- Modular services that can be deployed independently
- Support for AI and decision support using standards such as Clinical Quality Language (CQL) and CDS Hooks

This architecture allows organizations to augment existing systems rather than replace them, reducing cost, risk, and implementation timelines.

## Automated Deployment, Secure Operations, and Configuration

Cambian has invested heavily in automated deployment and operational tools to ensure the reliable and secure delivery of its Digital Health Platform across multiple customer environments. The platform leverages fully automated pipelines for building, publishing, and deploying application and infrastructure components, streamlining packaging and deployment into tailored customer environments.

This approach reduces manual work, lowers risk, and accelerates time to value, supporting both multi-tenant and dedicated use cases to fit various operational and regulatory needs. Developed in collaboration with healthcare clients and cloud partners, it incorporates security, privacy, and cloud best practices, respecting customer-specific configurations through environment parameters and controlled releases.

Cambian’s automated, policy-driven model allows for frequent updates and ongoing enhancements, while maintaining compliance and transparency. Customers retain clear oversight of their responsibilities versus those managed by Cambian, supporting sustainability and trust.

## Use-Informed, Person-Centred Design

Cambian’s platform has been shaped through more than a decade of real-world use across diverse populations, including individuals with chronic conditions, elderly patients, children and families, and cancer survivors. Design decisions are informed by continuous feedback from patients, caregivers, clinicians, and administrators.

The platform emphasizes simplicity, clarity, and relevance—focusing on what matters most to individuals and families and making it easy to navigate the healthcare system and participate as true partners in care.

## Proven Technology, Approvals, and Trust

Cambian applications have undergone extensive Privacy Impact Assessments, Security Threat and Risk Assessments, and Research Ethics Board reviews across multiple jurisdictions. The platform meets stringent public-sector security and privacy requirements and operates in compliance with applicable health information legislation.

With deployments supporting tens of thousands of active users in public health, primary care, and specialty programs, the Cambian Digital Health Platform is a proven, trusted foundation for digital health transformation.

## Roadmap for the Future

Cambian is constantly introducing new ways to involve and support individuals, families, and care providers. The Cambian Digital Health Platform combines person-centered design, open standards, and cloud-native technology to create scalable, interoperable, and interactive digital health solutions. By giving individuals more control, assisting care teams, and enabling data-driven insights, Cambian helps healthcare systems achieve better outcomes, improved experiences, and greater value both now and in the future.

