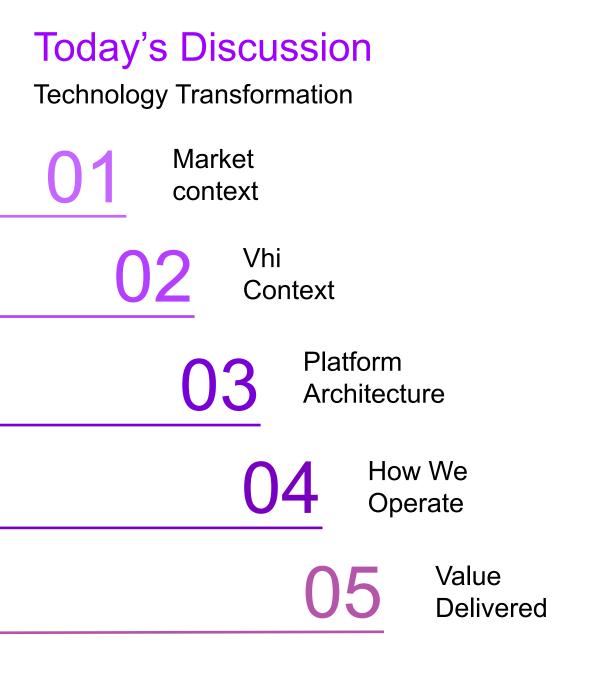


Delivering Customer Value through Platform Architecture





Damien Malone Head of Group Enterprise Architecture, Vhi

Austin Smyth Accenture Platform Architect

Ruth O Kelly Lynch Cloud Technology Advisor Accenture



Market Context



A New Reality

Executives are increasing finding that modernizing their technology stack to deliver customer value requires holistic change across people, process and technologies.

70%

enterprise transformation efforts fail to fully meet business leaders' expectations. of companies are challenged to fully achieve their cloud outcomes due to complexity of business and operational change and security and compliance risk.

42%

56%

of executives acknowledge data readiness is the top challenge to adopt AI.

69%

of executives believe their operating model is unable to continuously adapt to disruptive forces.

88%

of Business leaders say their customers are changing faster than they can change their business.



Tech Transformation: A closer look at the levers of change

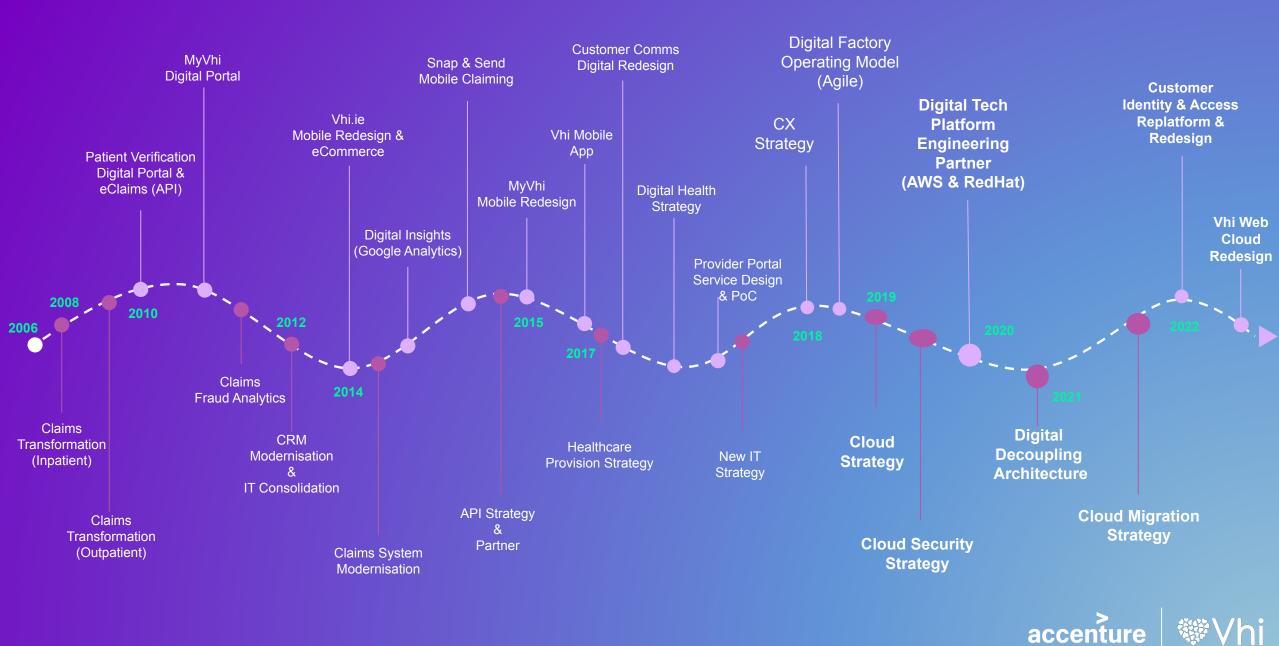
		్ గ ్ధం	Z Talent
through technology to drive top	Establish strong digital core as a primary source for competitive advantage	Evolve ways of working and optimize technology landscape for better customer and business alignment	Build future-ready talent to enable a culture and capability for continuous reinvention
 innovative technology investments Define business growth ambition and establish tech-enabled product innovation engine Design operating model and technology architecture, to maximize use of talent and technology Orchestrate transformation to accelerate value and minimize business risk E 	Optimize enterprise platforms using diverse technology ecosystem and composable integration approaches Implement verticalized, cloud-native platforms and applications Create configurable data foundation ready to scale Al enterprise-wide Build elastic cloud infrastructure across public, private and edge, using a hybrid, multi-cloud control plane Embed security throughout the Digital Core, into technology and	Establish product-oriented, customer-centric teams and new ways of working, comprising agile and DevSecOps methods Leverage hyper-automation and generative AI across the enterprise for greater resilience, efficiencies and speed Reimagine the business with actionable insights, leveraging the power of data and AI Measure success through business outcome-oriented KPIs Reduce carbon footprint using sustainable cloud, infrastructure and IT lifecycle	<text><text><text><text></text></text></text></text>



Vhi Context



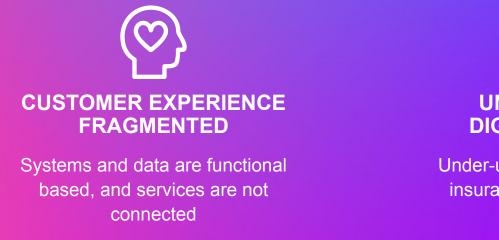






Vhi Context Challenges to Deliver Customer Value

Vhi Healthcare is Irelands largest health insurer with over 1.2 million customers & 1800+ employees Vhi focuses on delivering personal and digital experience through a leading insurance proposition that provides access to a connected healthcare system supporting their customers to live longer, stronger, and healthier lives.





UNDER-UTILISING DIGITAL CHANNELS

Under-utilisation of digital across insurance and health services



Not collecting or using our data effectively to inform sales, services & operations



There is a slow pace to market



MANUAL PROCESSES AND INTERFACES

Processes/interfaces with partners and customers overly manual/single sign on



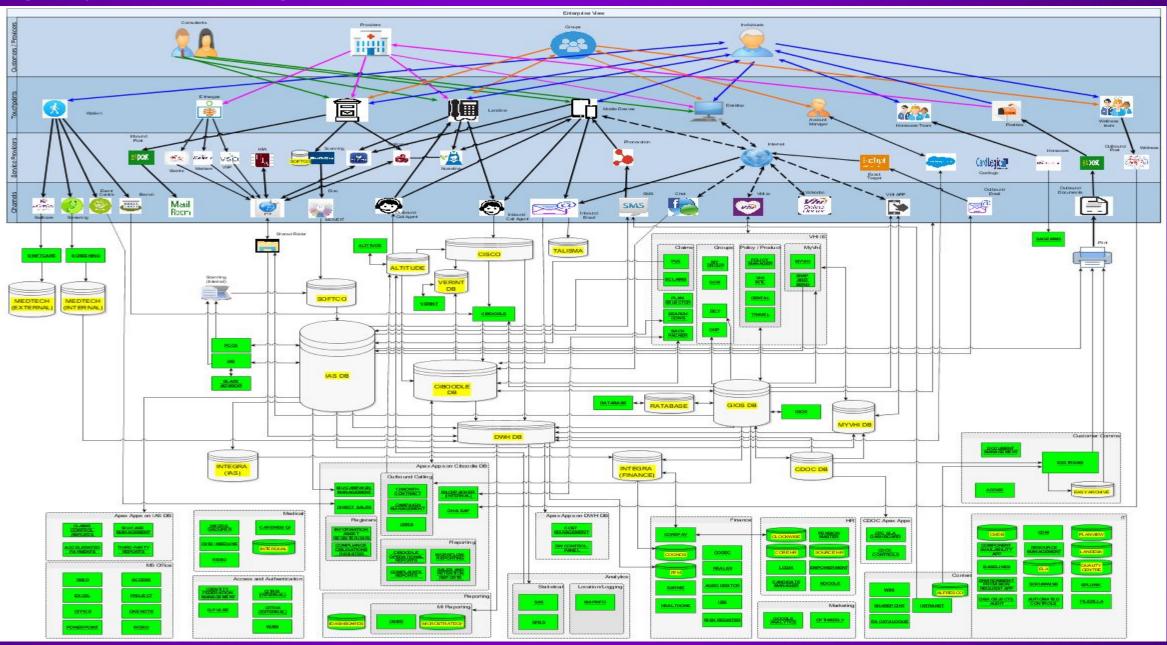
LEGACY SYSTEMS

Legacy systems in health services – need to be replaced



Legacy Technologies

Systems Architecture

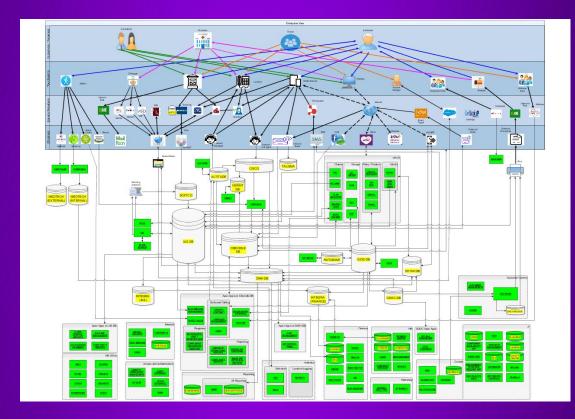


Legacy Technologies

CHALLENGES

- Over 100+ systems underpinning the business & customer
- IT is centered around 4 legacy platforms / monoliths including including Policy, CRM, Claims & Web
- The applications applied leading technology at the point in which they were implemented (Pre 2010) including
 - Oracle Fusion Middleware (Forms & Batch)
 - □ MVC Monoliths (Spring, J2EE & Batch)
- 100% on premise architecture
- Spaghetti Integration Styles including DB Links
- Missing the core ingredients of modern architectures including Cloud, APIs, Modular Design, Contemporary Data Stores & DevOps

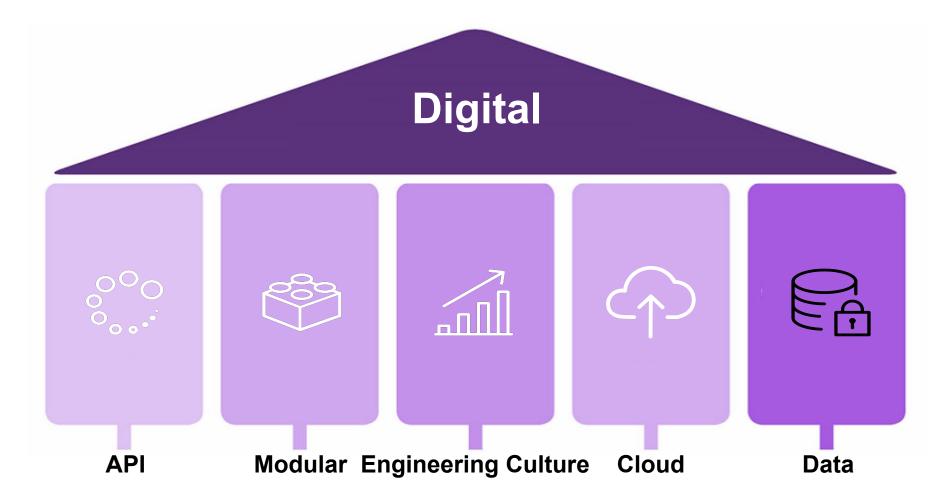
Systems Architecture



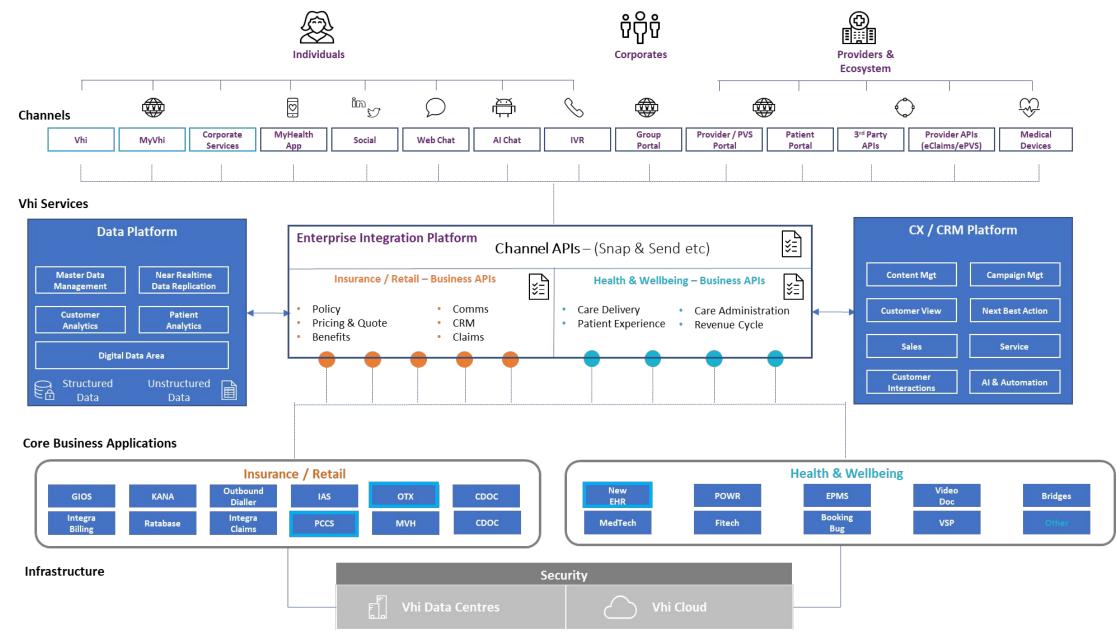


Establishing a Digital Technology Platform: Decoupling from Legacy

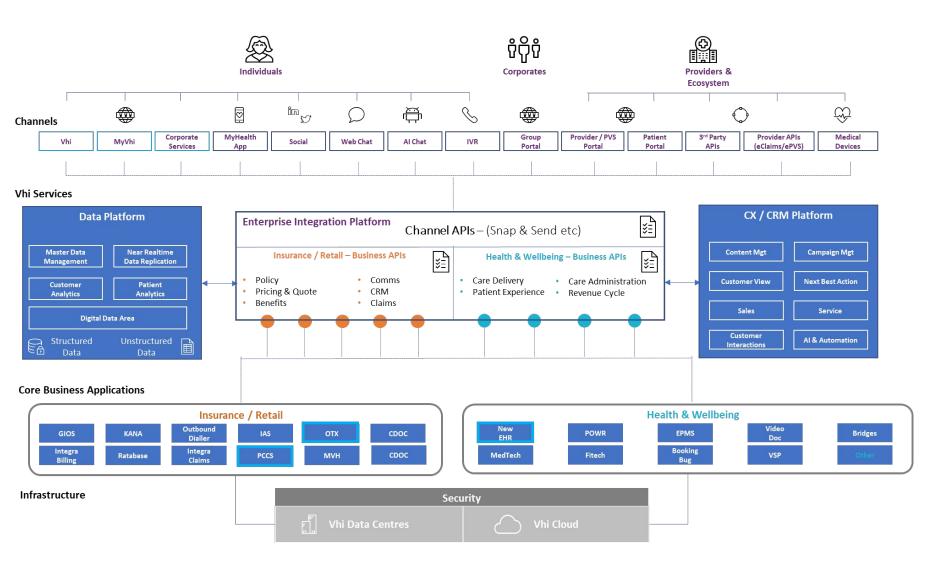
The key objectives of Digital Decoupling is to facilitate **HARMONIZATION** between legacy **MONOLITHS** and contemporary **MODULAR** systems. Gradual **MIGRATION** from legacy systems contributes to challenging **DIGITAL NEWCOMERS** unburdened with **TECHNICAL DEBT**.



How to get There



How to get There



New Op Model

- Platform Team
- Agile Delivery

Build Infrastructure

- Hybrid Cloud
- OpenShift
- Legacy Systems RHEL

Wrap our Legacy

• API

Re-write our Legacy

- Website
- CIAM

Decouple our Data

- CDC
- Event Streaming

Enable new Capabilities

- Patterns
- Governance



Platform Architecture





Vhi's Engineering Platform

"Fundamentally, the Vhi Engineering Platform is a technology environment built on top of Red Hat OpenShift and AWS which aims to provide a uniform development experience across technology projects."

The primary use case, thus far, has been custom development and to that end we have standard processes built around **three use cases:**

- Node.js APIs
- Spring APIs
- React UIs



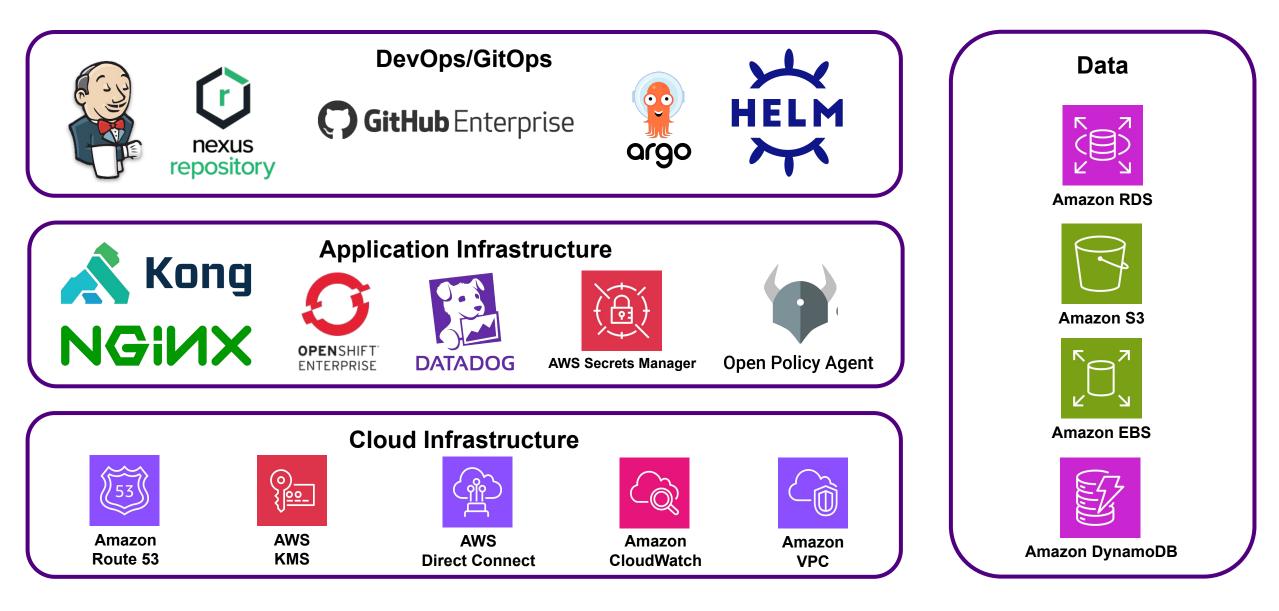
Between Q3 of 2022 and Q1 of 2023 Vhi completely rebuilt its online customer journeys and sales funnels using modern engineering technologies and deployed them on CTP.

In Q1 and Q2 of 2023 Vhi deployed a solution to enable its connected health journeys across partner facilities.

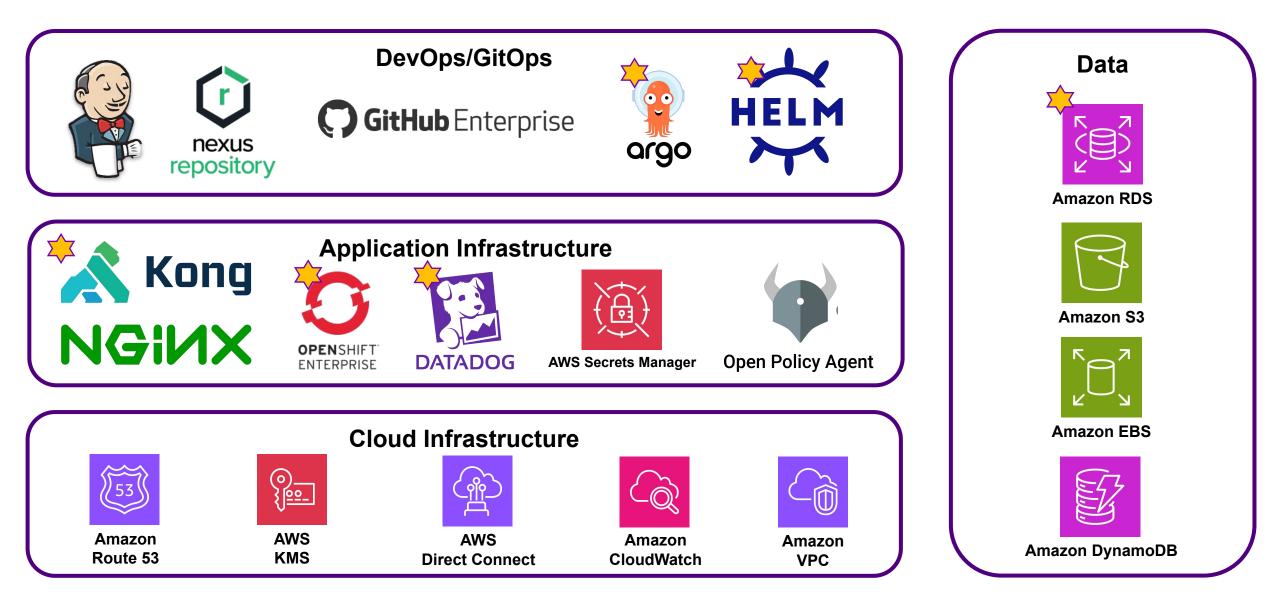
In Q2 2023 Vhi deployed a digital decoupling solution to reduce legacy constraints to delivering new products using modern engineering.

Vhi and Accenture continue to work together to deliver additional functionality on the CTP as it evolves and more applications and workloads are onboarded

Platform Architecture



Platform Architecture: Accelerators



Platform Architecture: GitOps and Infrastructure-as-Code

GitOps is an operational framework that takes DevOps best practices used for application development such as version control, collaboration, compliance, and CI/CD, and applies them to infrastructure automation - GitLab

argo



One of the most influential changes has been the adoption of GitOps. The Platform uses:

- Helm based YAML deployments to OpenShift
- Terraform Infrastructure as code (IaC) for AWS resources

Significant time and effort has been put into upskilling the Platform team in these technologies which has improved productivity across the development stack.

We also benefit from:

- Having a "single source of truth" for all deployments
- An easy way to deploy and manage multiple environments



By using ArgoCD we have a tool that provides a real time view of deployments across production and non-production and changes to deployments can be deployed to multiple environments with a single code change.





Lessons Learned



Platform Lessons Learned

Difficult journey running old and new

- Business buy-in
- Staffing
- Finance

Don't build a business case on cost

- No KPI's for the old, KPI's now include:
- Speed to Market
- Kwh
- Applications & Servers migrated or retired
- Focus on value over cost. Hard to commit to nominal savings

Use your Partners

- Directional Business Case
- Cloud 6Rs

Data Centre close to hyper-scaler

• Low latency, allows to consolidate API Gateway

Managed Services

 Removing on-prem allows us to move from OCP Self-Managed to ROSA





Delivering Customer Value



Customer Value Delivered

The new platform architecture has enabled the business to increase time to market for new benefit offerings.

Vhi customers are now able to Find a Plan that suits their needs and those of their family.

Vhi have also been able to add new benefits to

The improved benefits include, but are not limited to,

- Neurodiversity support
- Vhi Positive Mind
- Improving and broadening fertility benefits



Vhi Positive Mind

Support for mild to moderate emotional or psychological issues which can impact your quality of life, relationships or ability to cope.



VHI 360 HEALTH CENTRE

2

With a multi-disciplinary approach to care, you can access a range of services including Urgent care, Paediatrics, Physio and Diagnostics.



Vhi Women's Health Clinic

Designed specifically to support women dealing with perimenopause and menopause.

#1

Health Insurance Customer Experience 2022 Cxi Company in Ireland 2022 Cxi, up 18 spots since 2021

#7

17%

Reduction in Customer Drop Off of Digital Channels



Vhi Healthcare DAC trading as Vhi Healthcare is regulated by the Central Bank of Ireland. Vhi Healthcare is tied to Vhi Insurance DAC for health insurance in Ireland which is underwritten by Vhi Insurance DAC.



'hi