# velox
## build faster®

*"Development platforms accelerate change by centralizing expertise and decentralizing innovation"*
**/thoughtworks**

# The *vCore* development platform can build any app up to 10x faster

Most companies suffer from having too many systems and applications. "Technology fragmentation" often occurs in areas away from the firm's core product or function but the scale of the issue means the effects of the resulting inefficiency and operational risk is felt everywhere.

## Why are there so many apps ?

- Power tools such as MS EXCEL have caused an explosion in user developed apps (UDA's)

- App proliferation occurs away from the businesses core systems where engineering talent is less focused.

- Acquisition can cause a large immediate uptick in number of apps and functional duplication.

- Point solutions are much faster, cheaper to build with the downsides often hidden initially.

- Cost of application consolidation is prohibitively high.

## What problems does this cause?

- Operational workflows are inefficient and make it hard to scale the business without adding people.

- Too many apps usually occurs in tandem with inadequate software controls leading to increased operational risk and security vulnerabilities.

- Not always apparent until it's needed but app fragmentation increases the cost and speed of innovation.

- Ongoing technical support levels are higher draining change budget.

*By lowering the bar, vCore enables the consolidation of apps to a single platform and ensuring new ones are built in the right, optimal way*

## The Velox goal is to focus developers on features not infrastructure

The vCore design principles were forged in the crucible of a front-office trading environment where there was constant pressure to innovate rapidly without increasing operational risk. Most of this innovation happened away from the core trading applications.

### Stop Wasting Time on Low-level Coding

No more wrangling disconnected real-time and static data sources and API's, standing up scalable, testable, and supportable backends and finessing bespoke visual components

### Start Building Differentiating Features Faster

vCore equips professional development teams with specialized tools enabling them to unlock untapped productivity and build data-driven systems up to 10x faster.

vCore

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## How does Velox help?

Velox was founded by professional developers to help professional developers **#buildfaster.** It combines selected modern "low code" development techniques, modern infrastructure (web & cloud) with 25+ years of experience at Goldman Sachs etc building technology driven businesses, into an application development platform specifically designed for type of real-world problems Capital Markets engineers face.

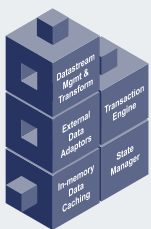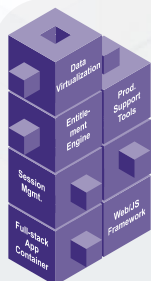| | | |
|---|---|---|
| Reduced execution risk & time-to-market | Simplifies operate over fragmented data eco-systems. | Highly responsive applications in a Web Browser |
| Enables system consolidation to a single platform | Development accelerators in your own IDE | Resilience to handle mission-critical use-case |
| Quickly convert spreadsheets to supportable apps | Rapidly build exception-based workflows | Reduced the time-to-market for SaaS apps |

## How Does *vCore* work ?

- Targets the sweet spot between buy & build

- Core tech is proprietary, so you avoid getting multiple 3rd party tech to co-operate.

- Provides solutions to many technical problems that are critically important but not visible to the business

- Distributed as java libraries via GitHub and can work in your favorite IDE and build pipeline.

- Uses a proprietary model driven development approach that code generates an API containing non-functional parts of the application

- Developers then build business logic against the API.

- Operates at a low enough level that anything that's possible in Java is possible in vCore

### Data Building Blocks
A stateful, transactional data fabric to enable the consolidation of data sources and API's

*Datastream Mgmt & Transform · Transaction Engine · External Data Adaptors · State Manager · In-memory Data Caching*

### Platform Building Blocks
Technical solutions to common app components so you can focus on business features

*Data Virtualization · Prod. Support Tools · Entitlement Engine · Session Mgmt · WebUI Framework · Full-stack App Container*

### Application Build Blocks
Specialized full stack adaptations of low-code development accelerators

*Workspace Builder & Mgmt. · High Performance Data Grid · Workflow Mgmt. · UI Visual Components · Rules & Alerting · Desktop Interop.*

vCore

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## Client Use Case : *Mizuho Securities* – Increasing dev team productivity

A technology team is stretched because their users are constantly producing new business ideas that require new applications to be stood-up. Without a multi-purpose application platform to build solutions on top of, the team are constantly re-inventing the wheel by building application scaffolding and visual components. In addition to providing a significant uptick in developer productive. Using vCore provided the following benefits:

- Many applications are now managed and operated in one place, reducing tech S&M.
- Apps are all accessible by the user from one place.
- Users can build different workspaces to fit their needs.
- With the underlying data and API's centralized, it enables higher-level workflows to be built, spanning silos.

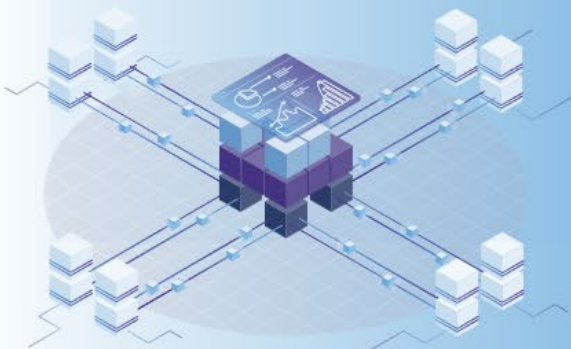## Client Use Case : *Stifel* – Solving system fragmentation

Stifel's Equity business was struggling with the operational overhead of having critical sales-traders workflows involve many applications including in-house web systems and multiple third-party trading platforms (Fidessa). Velox and interop.io collaborated on a solution that combined desktop-interop, server-interop and low-code app development techniques. The solution, released in under 2 months, delivered a consolidated actionable blotter that combined all flow in real-time and allowed the user to act on an order without having to touch the underlying the OMS.

- Complete business coverage: Full visibility of the European Order Book.
- Greater client coverage: Sales traders hitting more clients.
- Increased productivity: Swivel-chair workflows and the need for double-keying have gone away.

## Client Use Case : *BNP Paribas* – Solving system fragmentation

COSMOS is an award-winning create/redeem platform which is now being utilized to manage the full lifecycle of ETF related operations, from approving new creation and redemption orders through to settlements. FIX connectivity allows Authorized Participants (APs) to seamlessly connect to place orders and receive updates. Building this in vCore provided the following benefits :

- Complete business coverage: Full visibility of the European Order Book.
- Greater client coverage: Sales traders hitting more clients.
- Increased productivity: Swivel-chair workflows and the need for double-keying have gone away.

## ABOUT VELOX FINANCIAL TECHNOLOGY

Velox enables software development teams to build new or modernize existing enterprise systems up to 10x faster. The Velox full-stack application development platform (vCore) provides professional developers with tools that amplify their expertise in Java and Web programming, allowing them to focus on building differentiating business functionality. Founded in 2018 by 3 veterans of front-office technology, vCore is the catalyst financial services firms need to accelerate their digital transformation and modernization journey