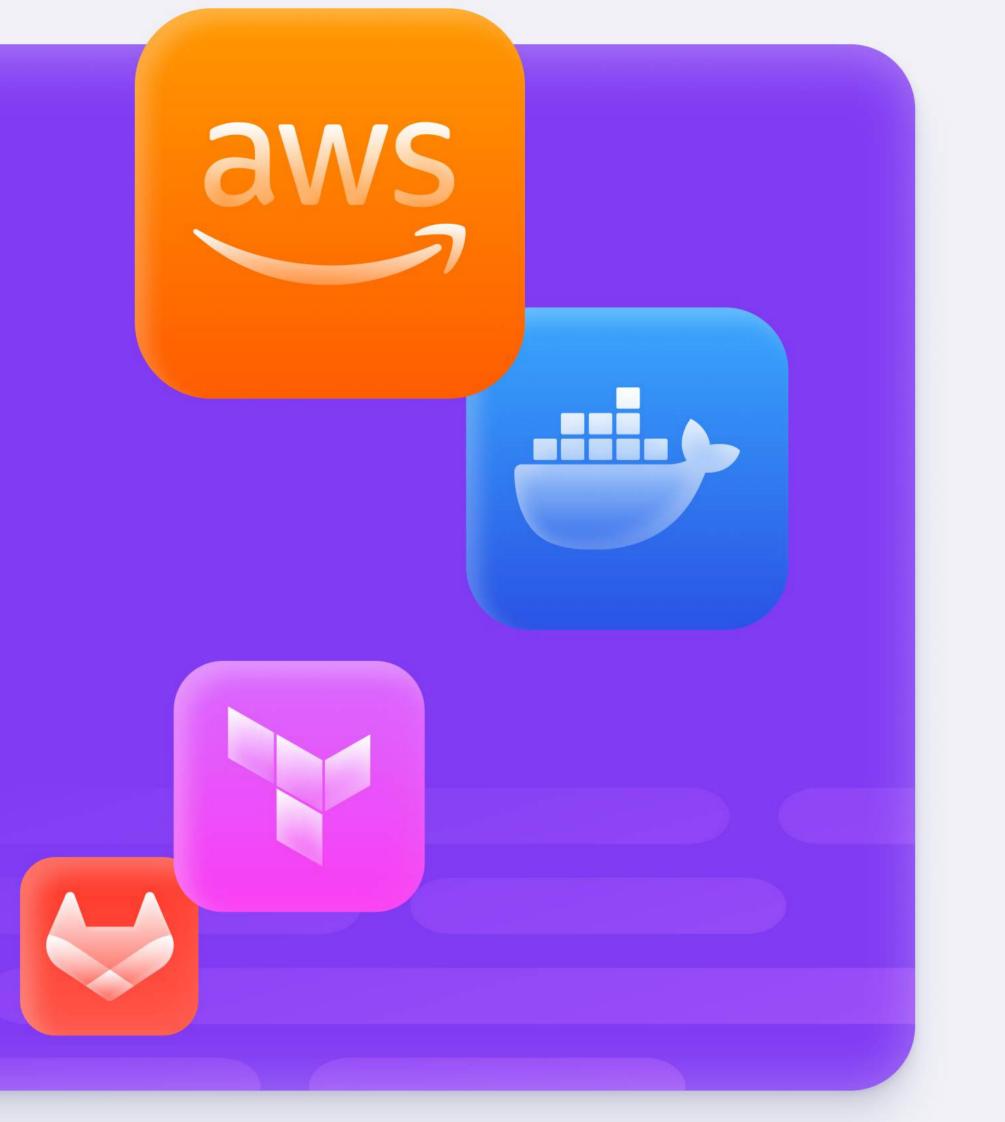
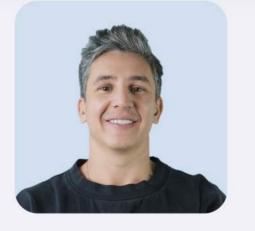
Challenges of In-House Software Development in FinTech





Arthur Azizov CEO



b2prime.com

B2Prime



b2binpay.com

Official Partner of

ATHLETIC CLUB



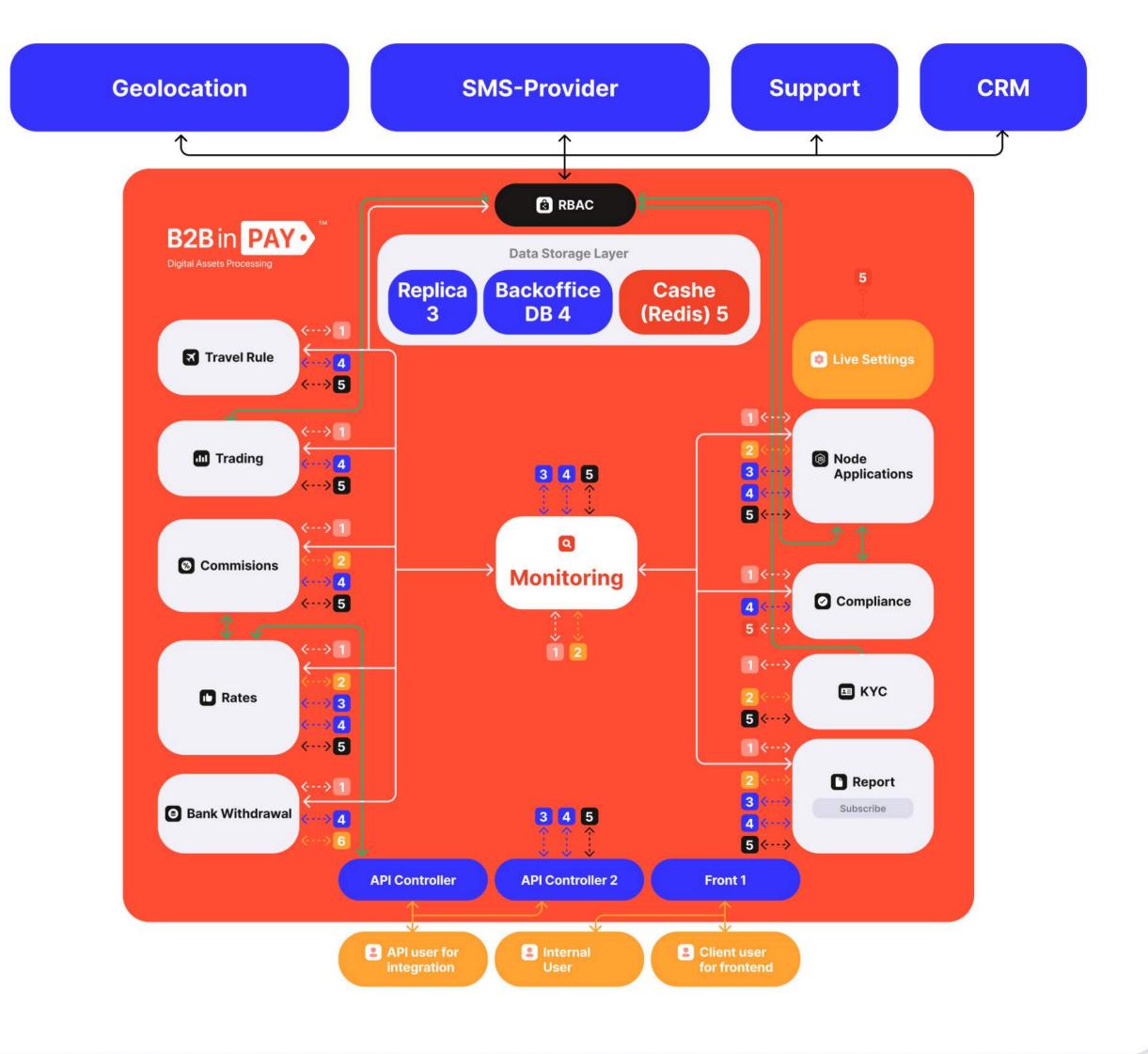
Business vs Technical View



Business View



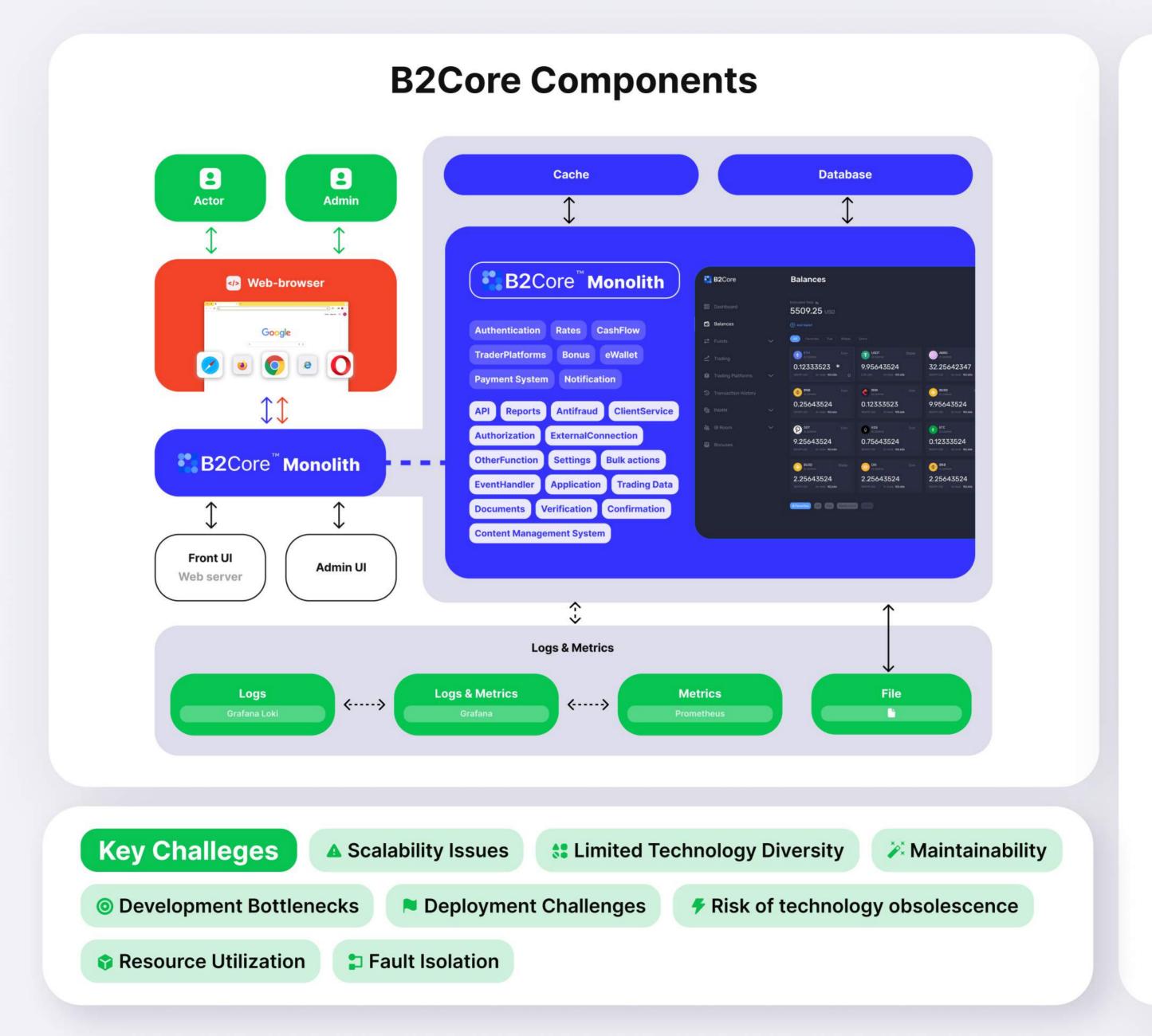
Technical View





Challenge #1: Product Architecture





B2Core Architecture B2Core File Starage **Providers** AWS (S3) **Service One** CashFlow Service bulk actions Payment Account System Service 🖻 🤣 🧿 👂 **Verification &** conformation PS 100 **Historical Data** Snapshot Service Two B2Core stream Services notification param **Platforms** Message bus System settings Notification Authentication services Audit Antifraud **Rates Service Providers** Front UI Admin UI load data from trader platform RealTime Service



Challenge #2: Quality Assurance







Product tests

Unit Tests

Verify the correctness of individual modules or components.

Smoke Tests

Tests that check the basic functionality of an application.

Integration Tests

Validate the interaction between different modules and components.

End-to-End Tests

Replicate and check a user behavior with the software in a complete application environment.

Load Tests

Assess performance and stability under high load.

Recovery Tests

Testing the software's ability to recover from failures or disasters.

Regression Tests

Verifies that software which was developed in previous releases still performs correctly after it was changed.

API Tests

Checks the functionality, reliability, security and performance between two or more software systems.

Security Tests

Detect flaws in the security mechanisms of an information system and help protect data and maintain functionality as intended.

National Institute of Standards and Technology (NIST)

reported that software bugs cost the U.S. economy \$59.5 billion annually

IBM

IBM found that the cost of fixing a defect found after the product's release was four to five times higher than if it was found during the design and implementation phase.

Software engineering expert

Steve McConnell, in his book "Code Complete," estimated that developers make between 100 and 150 errors per 1000 lines of code, emphasizing the need for rigorous testing and quality assurance processes.

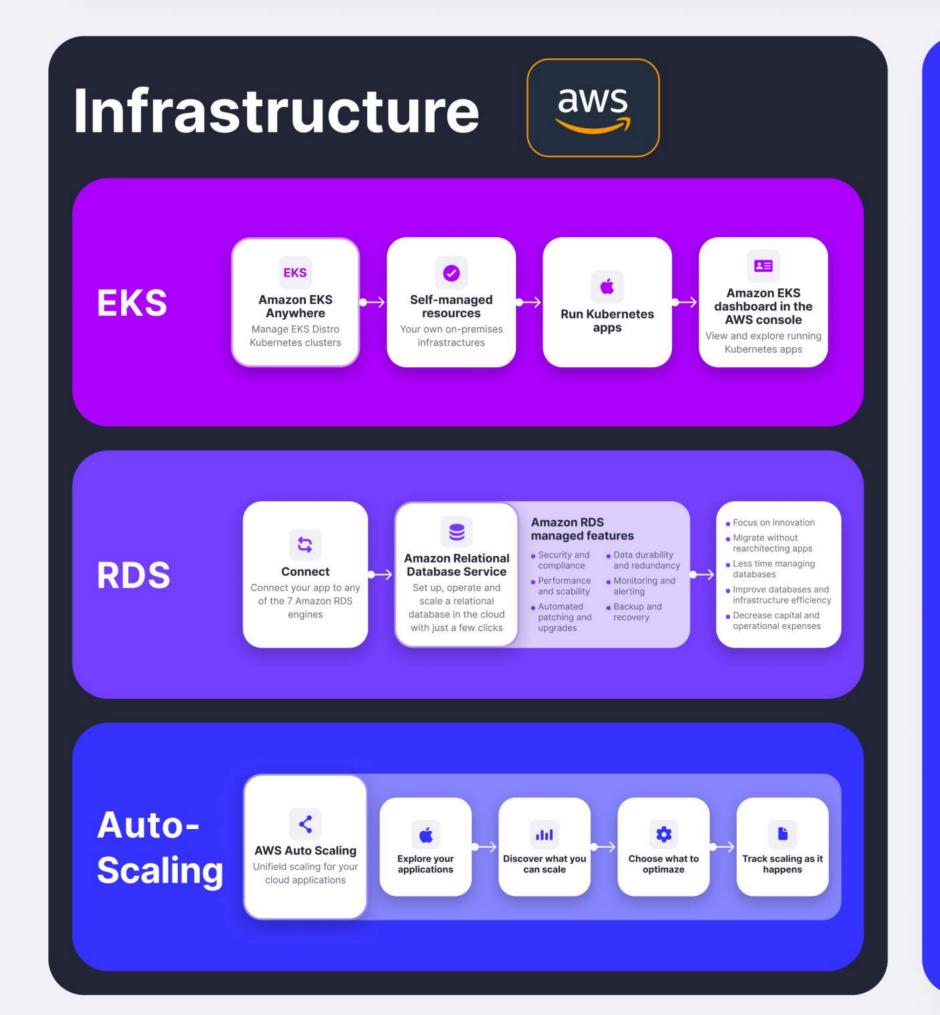
- Commit code
- Run unit tests
- 11 Receive merge request
- Create new environment for test
 - Run unit tests
 - Run integration tests
 - Destroy environment
 - **Merge**
 - Run performance tests
 - Run recovery tests

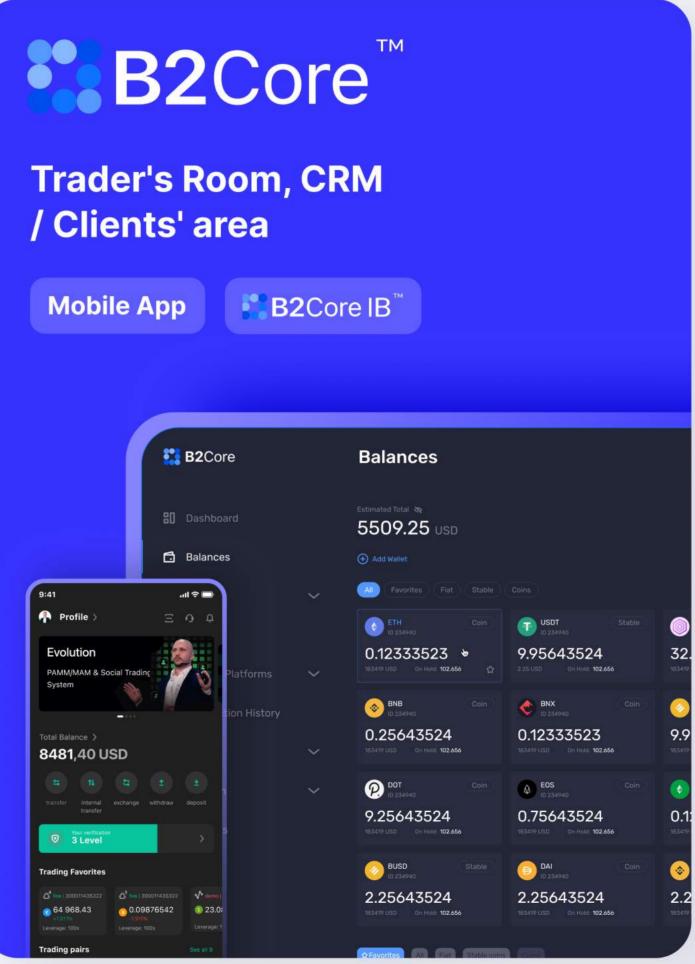


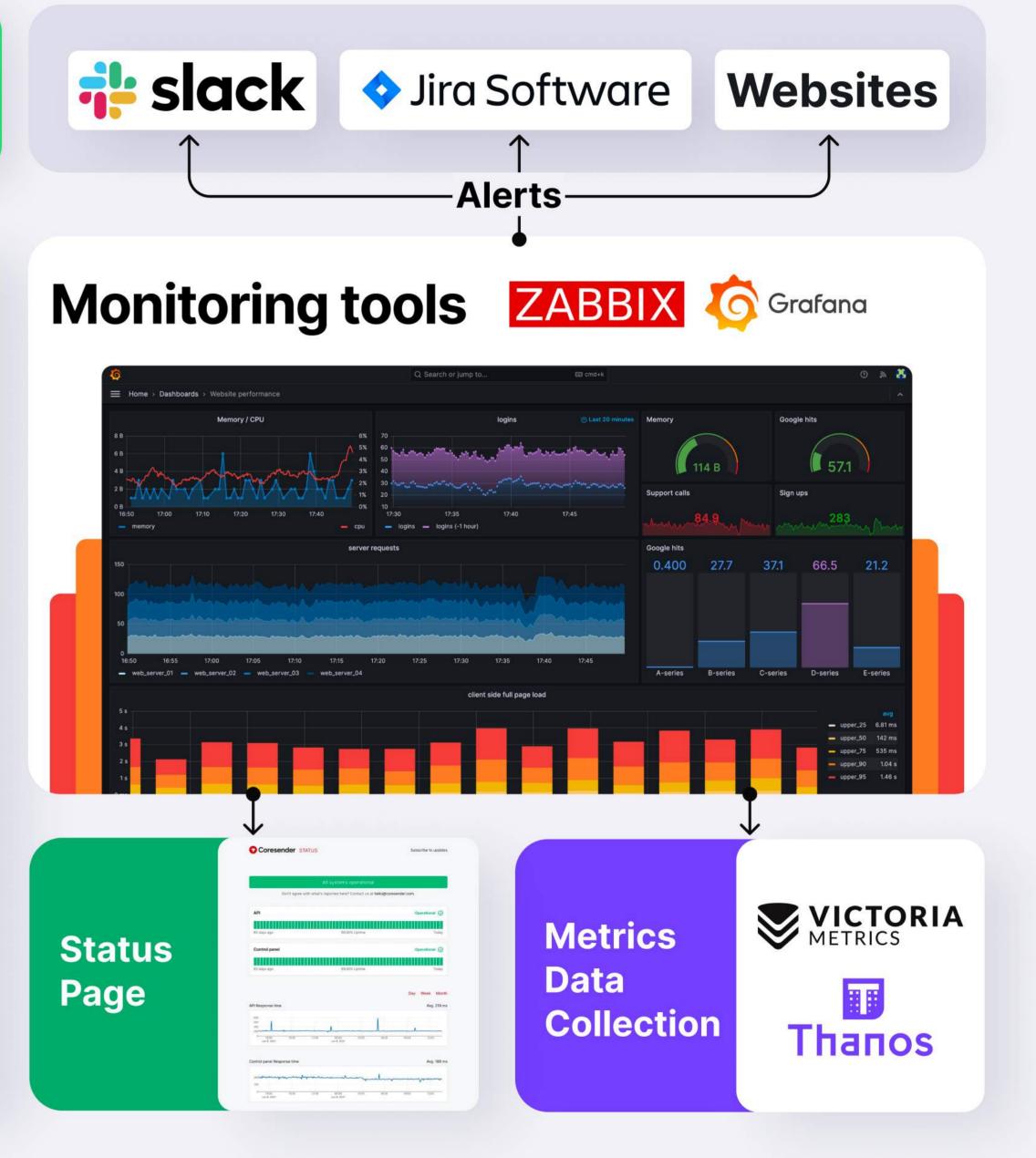
Challenge #3: Uptime



99% Uptime



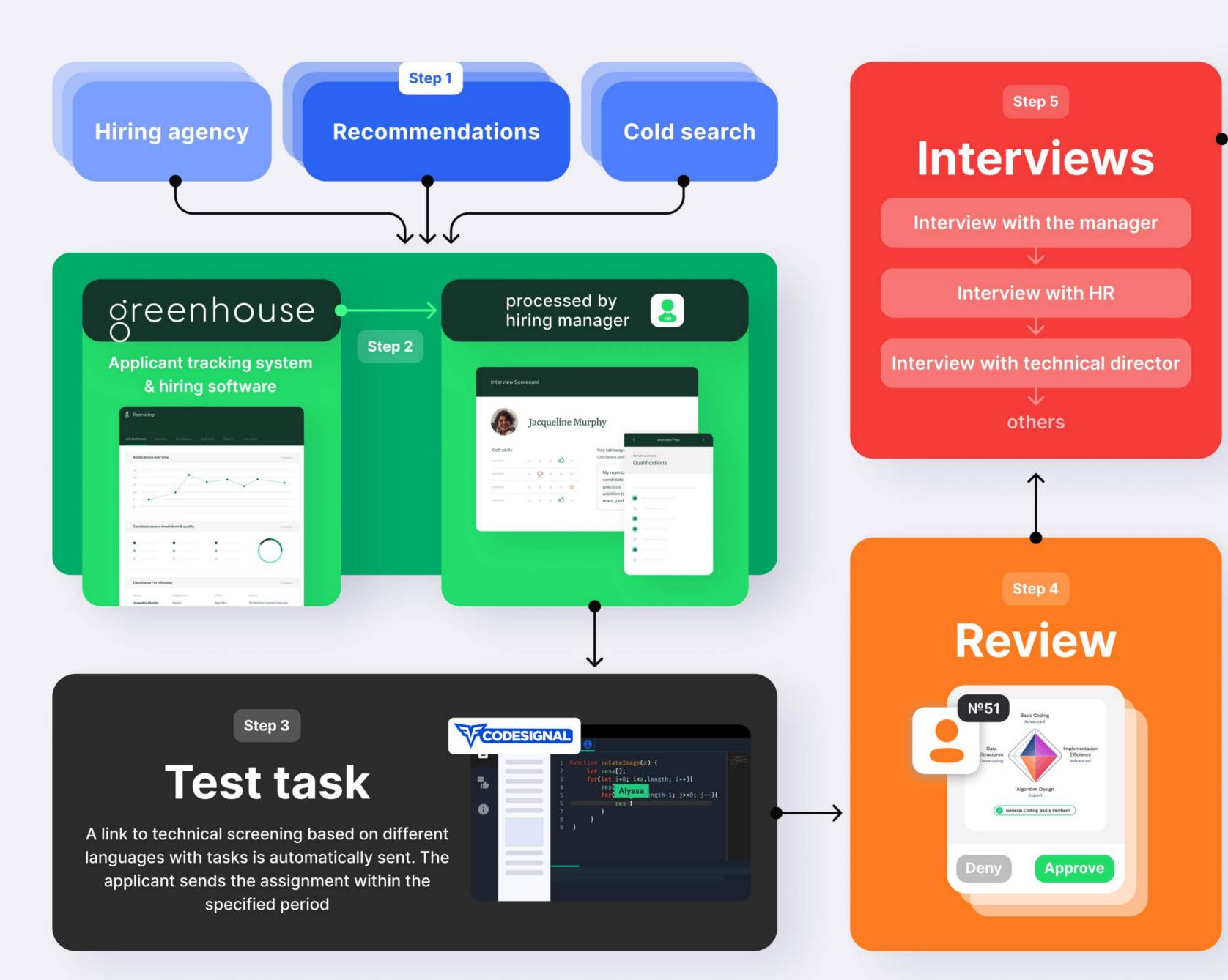


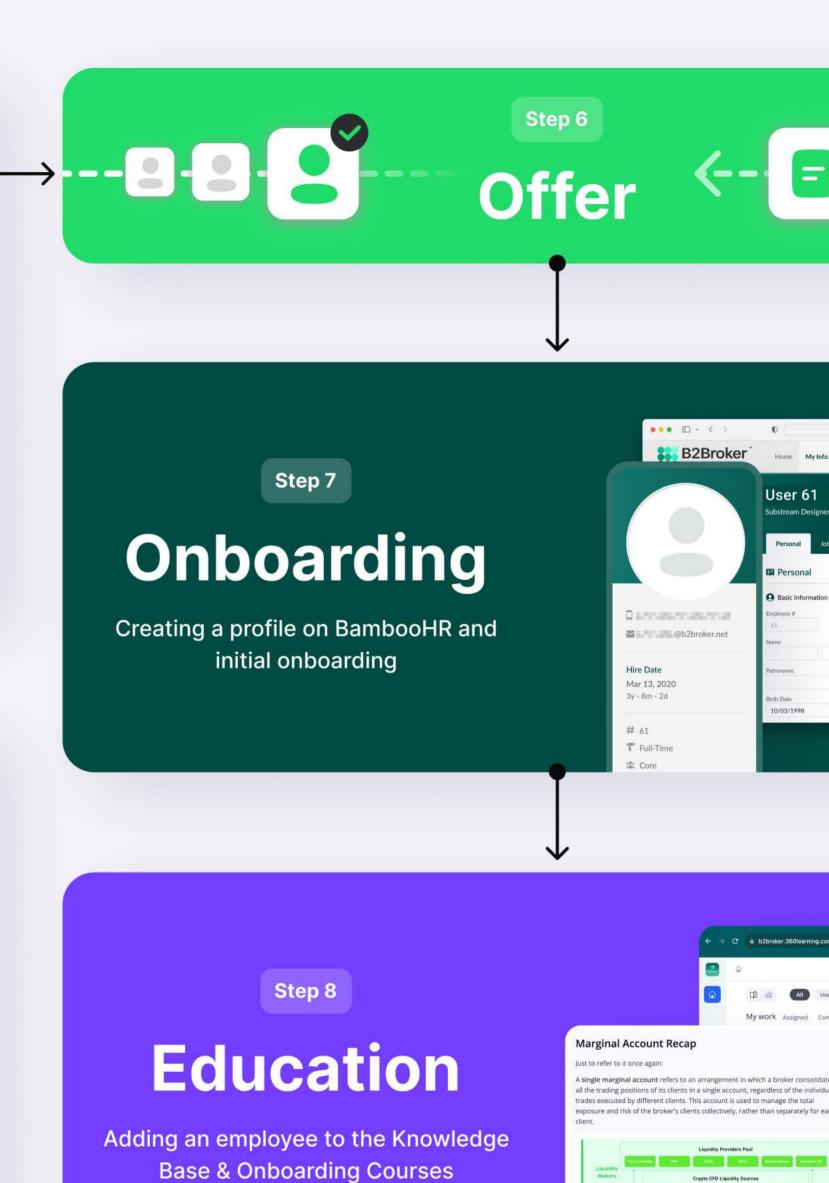




Challenge #4: Hiring Pipeline



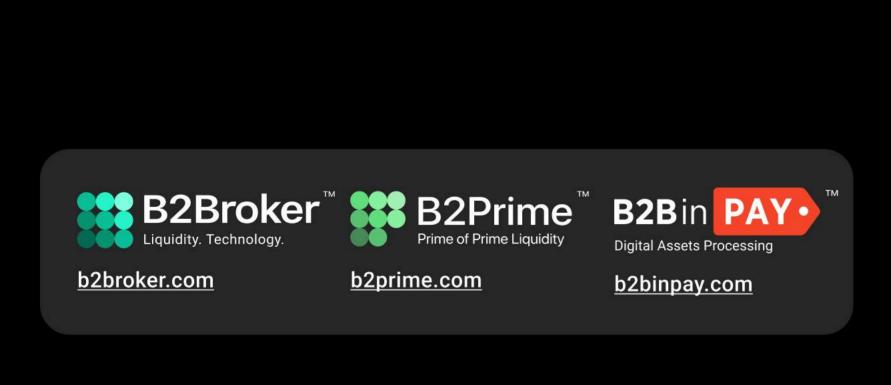


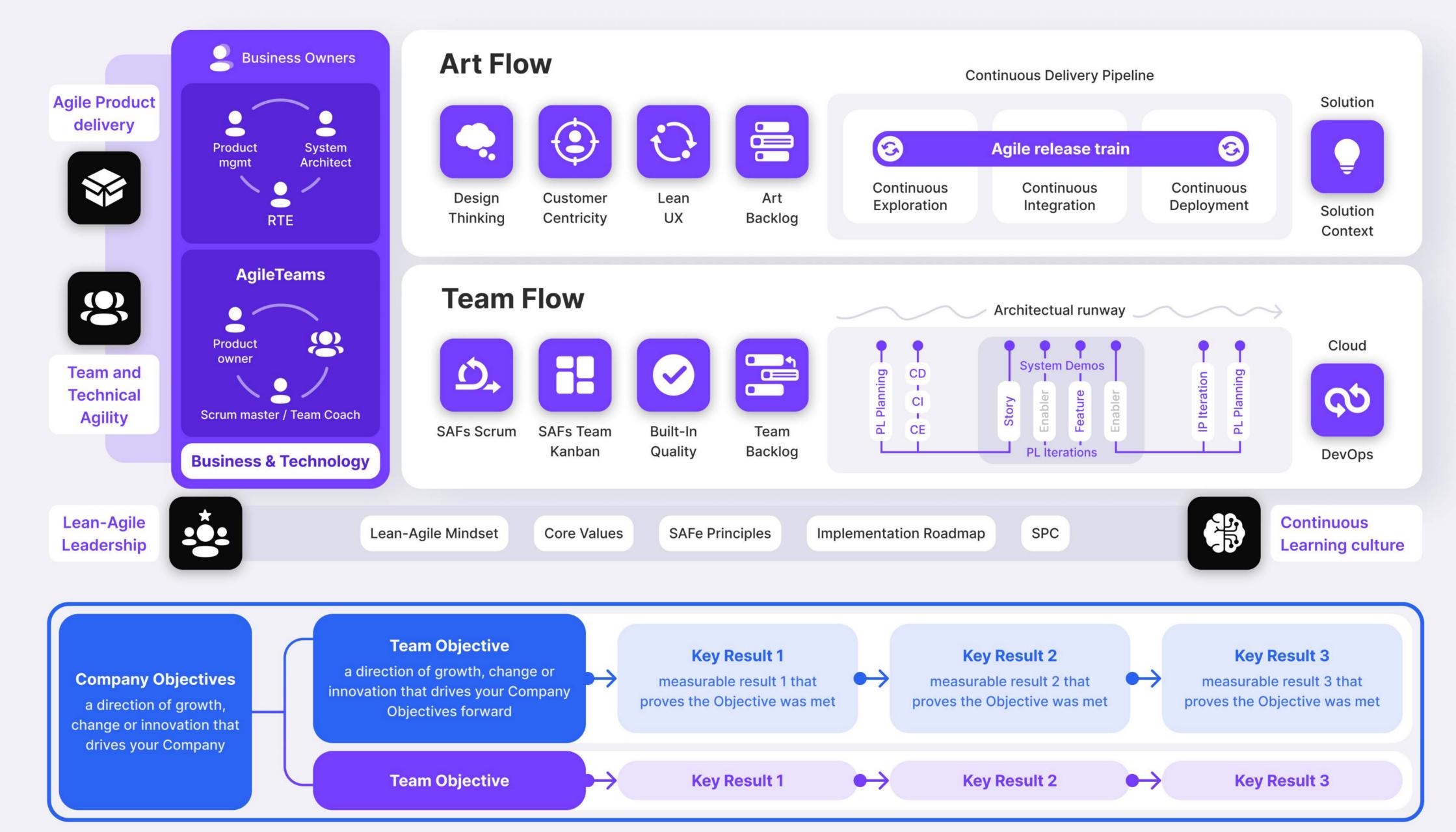


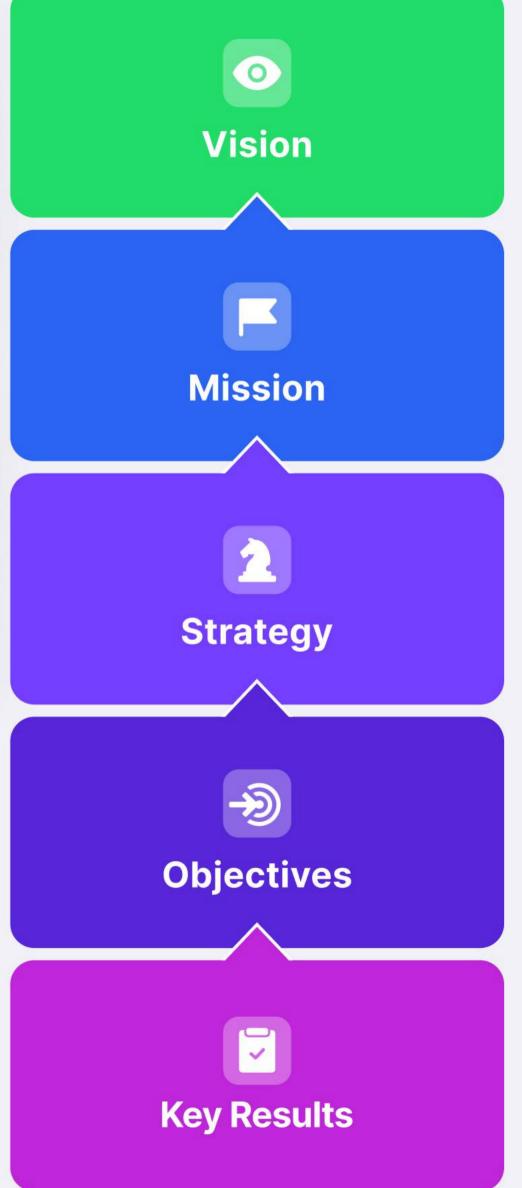
Aggregation & Routing
- Aggregation • Matching
- Routing • Execution



Challenge #5: Dev Synchronization



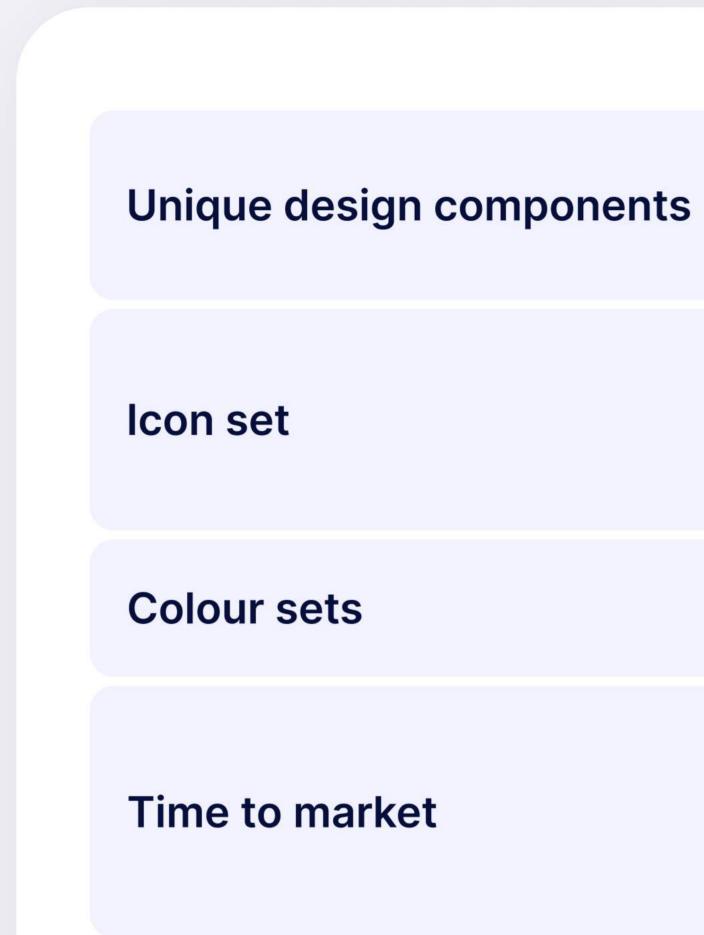






Challenge #6: Design





Before 1266

After

No set



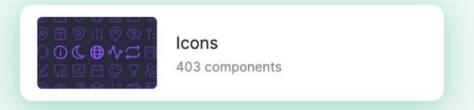








403 universal reusable icons





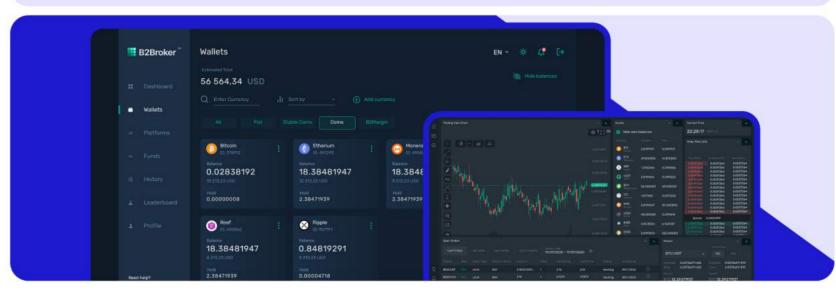
Different colour sets

for each product

Low

- Time to design unique components
- Time to development

• It is impossible to reuse components in different projects

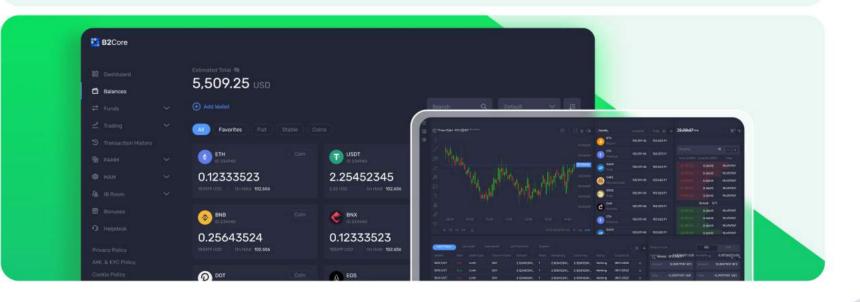


1 global color set

which can be applied to any brand palette

48% faster

- Using components as the basis for new designs
- Recolouring existing components instead of developing new ones
- Fully reusable components

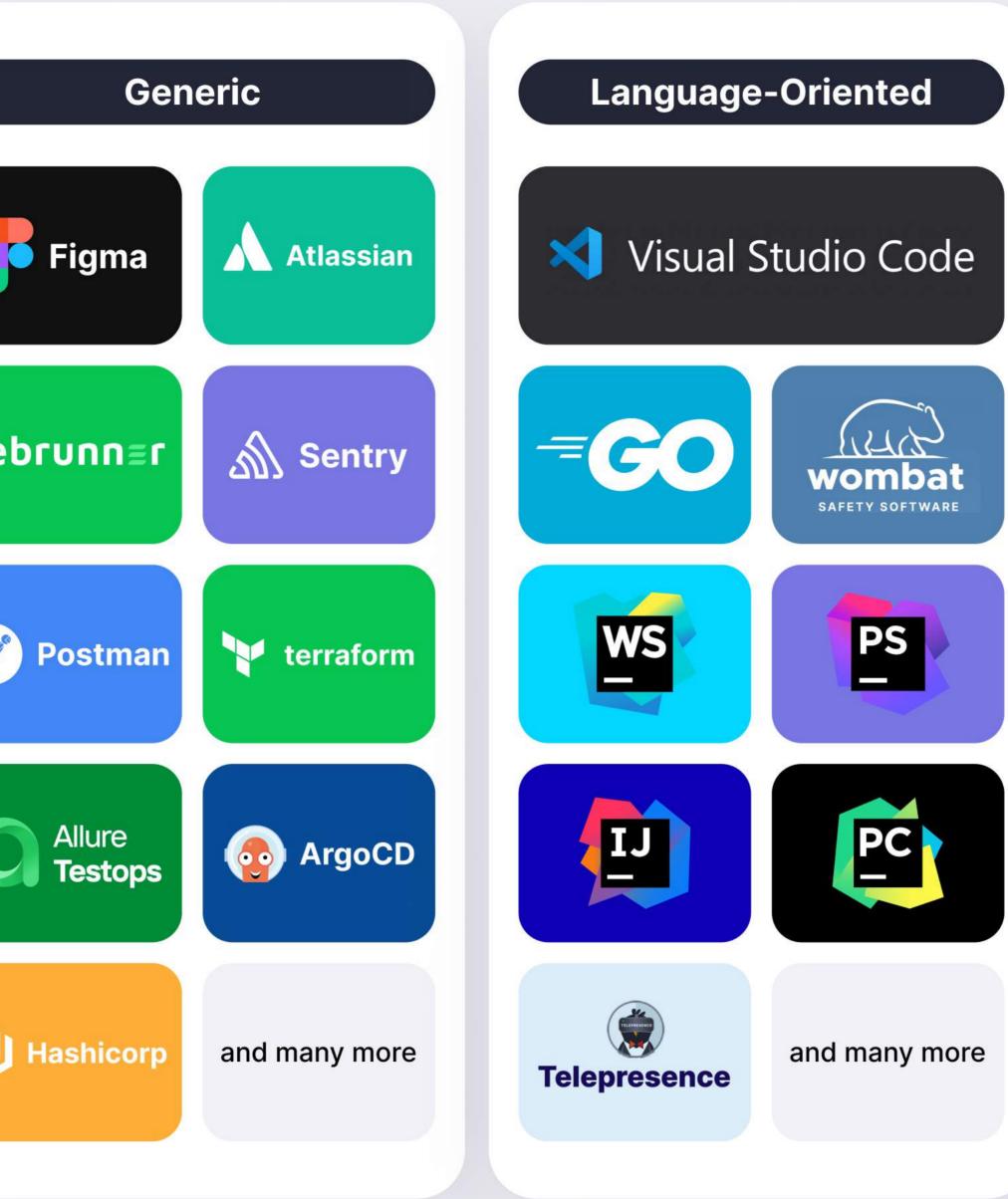


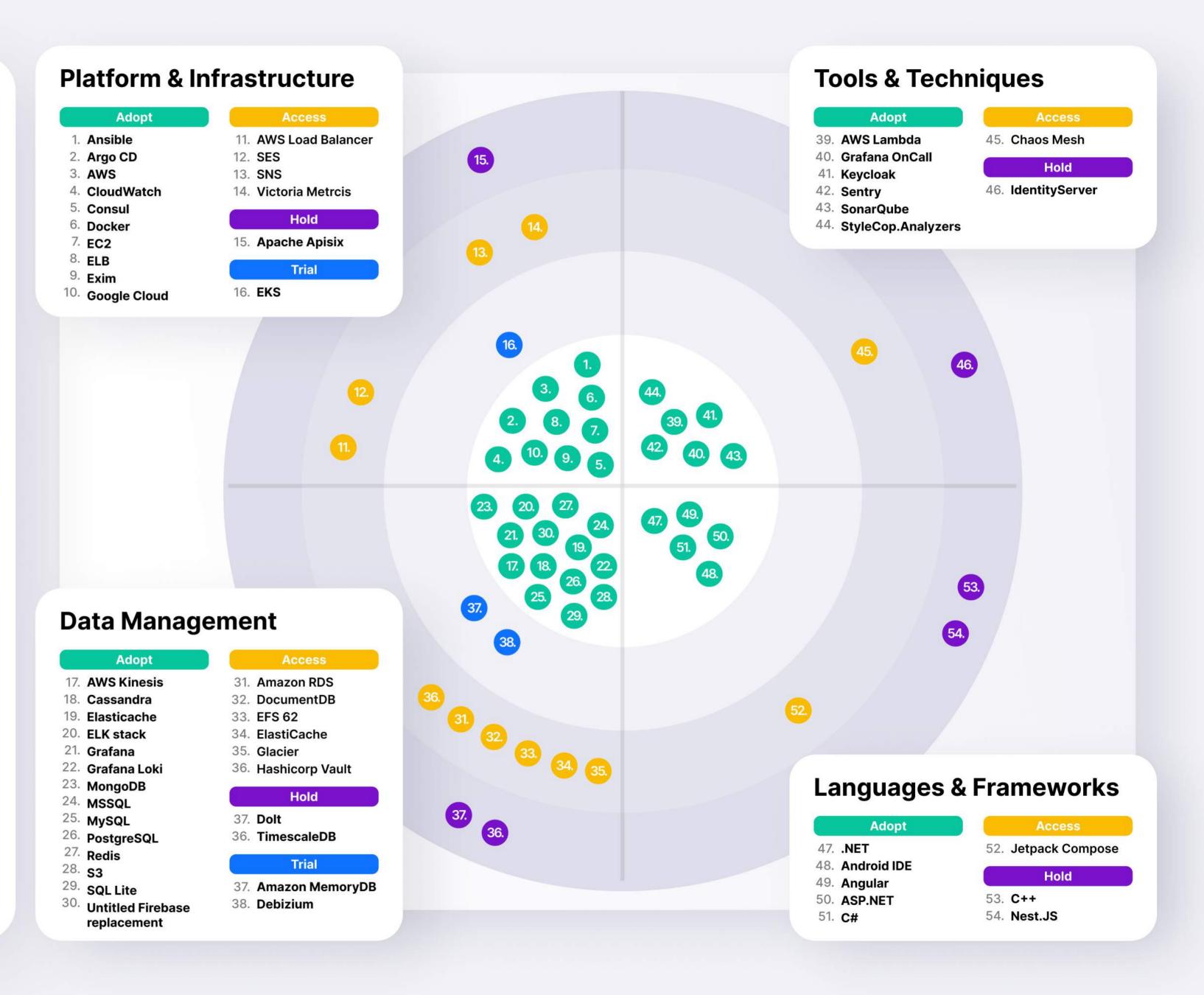


Challenge #7: Software Tools



Generic ্র্যা Sentry zebrunn≡r Postman terraform Hashicorp

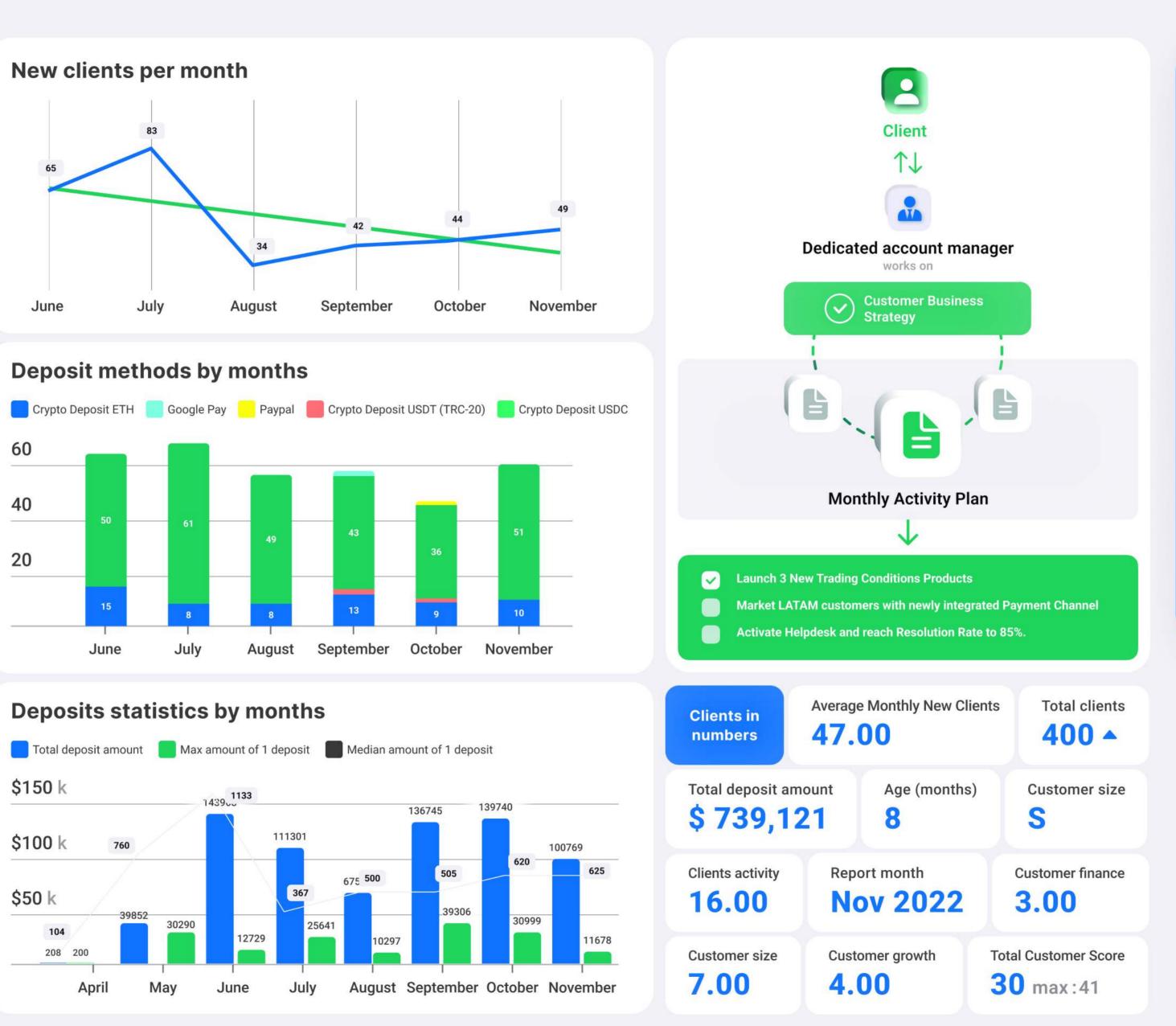


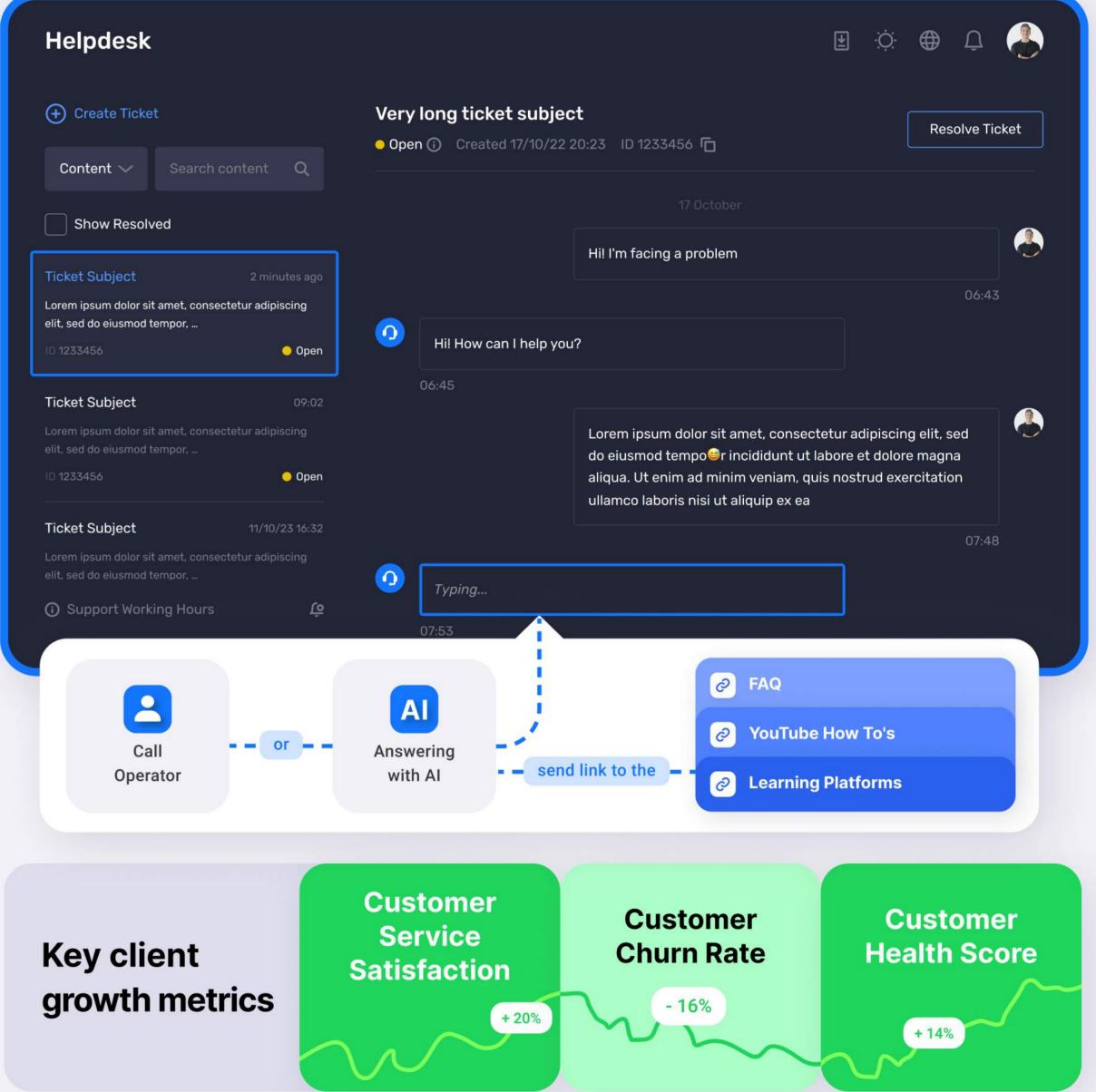




Challenge #8: Client Management & Support









B2Broker Ecosystem





b2broker.com

Working since 2014





Regulation: FCA (UK) AEMI License

Digital Banking • Virtual IBANs

Services • Business Accounts

Eqwire.com

 Payment in Open Banking Environment



gulation: CYSEC (Cyprus, EU),
FSC (Mauritius)

Prime of Prime Multi-Asset Liquidity

• Crypto CFD • FOREX • Metals

Commodities
 Indices
 NDFs

B2Prime.com

7 licenses

385+

employees

24/7

support

Offices

11











Trader's Room, CRM / Clients' area, Back Office

Mobile App

For B2Core & B2Core IB, B2BinPay, B2Trader ios & Android



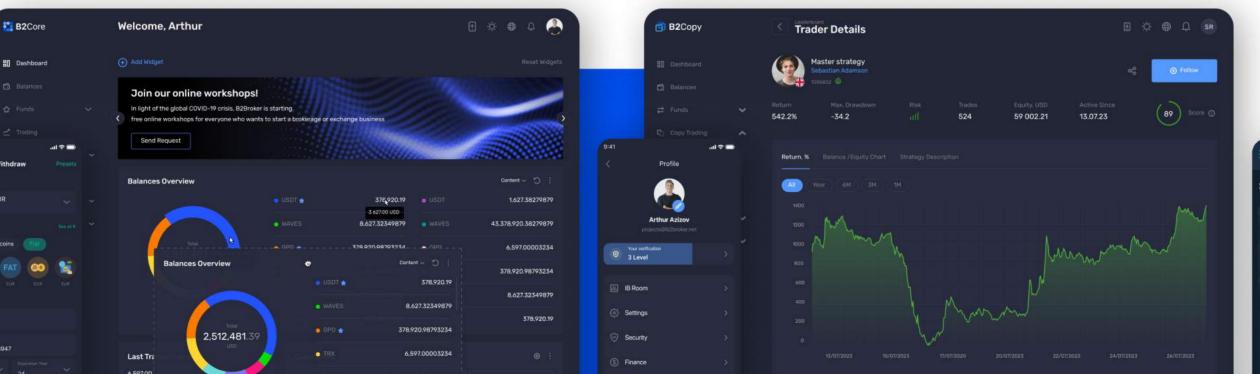
Social Trading, Copy Trading & MAM & PAMM Money Management Platform

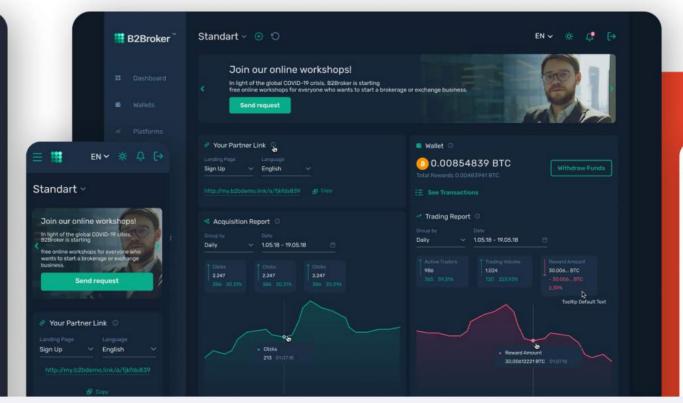


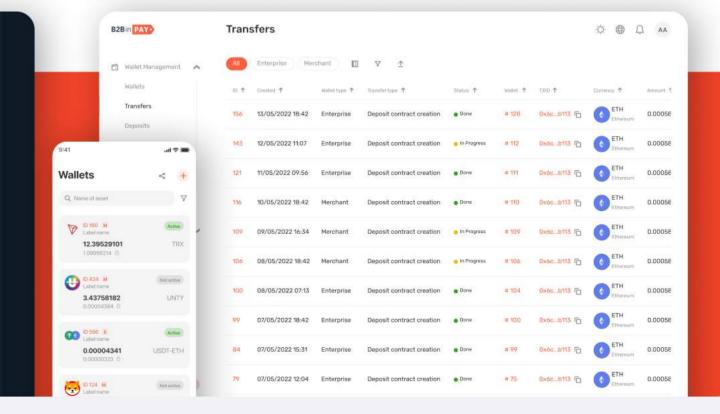
Introducing Brokers Software, Module of Partnerships Program, Affiliate System



Digital Assets Processing for: Merchants, Enterprise, Wallets, etc Regulation: FIU (Estonia), OAM (Italy)









Thank you.

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