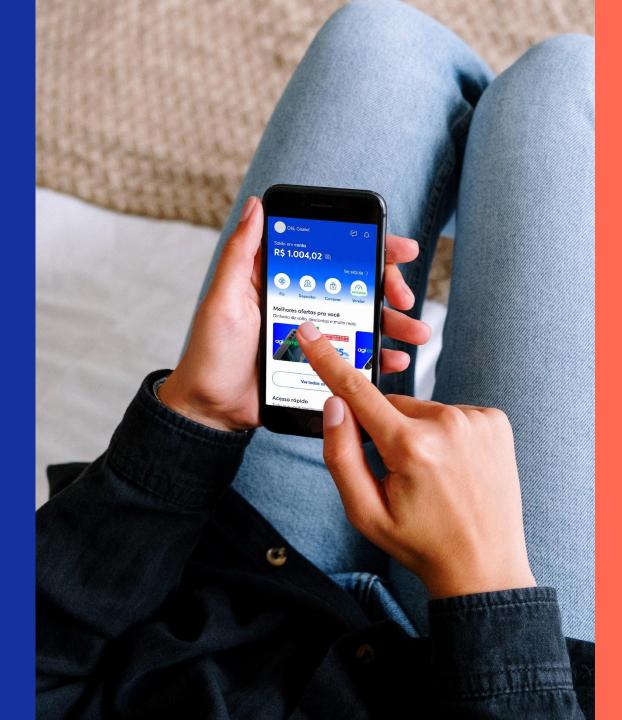
Origination

• • •

Orchestration of the Financial Product Sales process at Agibank











Jean Robert **Alves**

- Working with software development since 2011
- Working as an architect at Agi since 2017
- Camunda Champion since beginning of 2022

How We Got Here



2000-2010

 -2_{0} 2011-2016

2017-2020

4. 0 2021 onwards

Platform

— Credit Fintech

Neobank ———

Platform

Startup

> Payroll deductible loans dealer

Largest Payroll Loans Dealer in Brazil

- > Profit share model
- > Fee business
- > R\$7.8 billion origination

We Became a Bank

- Acquisition of banking license
- Innovation: Account number = phone number and Agi Pay

435

(2017)

Client-centric Model

- Transition from high yield, transaction-based model to a relationship model with one of the industry's highest NPS
- > Full banking offering

Accredited to Distribute Brazilian Social Security Benefits

 Access to <u>36+ million</u> Brazilian beneficiaries

WNCI partners

Strategic Partner: Vinci

Gateway CIGI®

- > Open architecture platform
- Financial and non-financial products services

Agi Headquarters

New HO in Campinas (São Paulo)

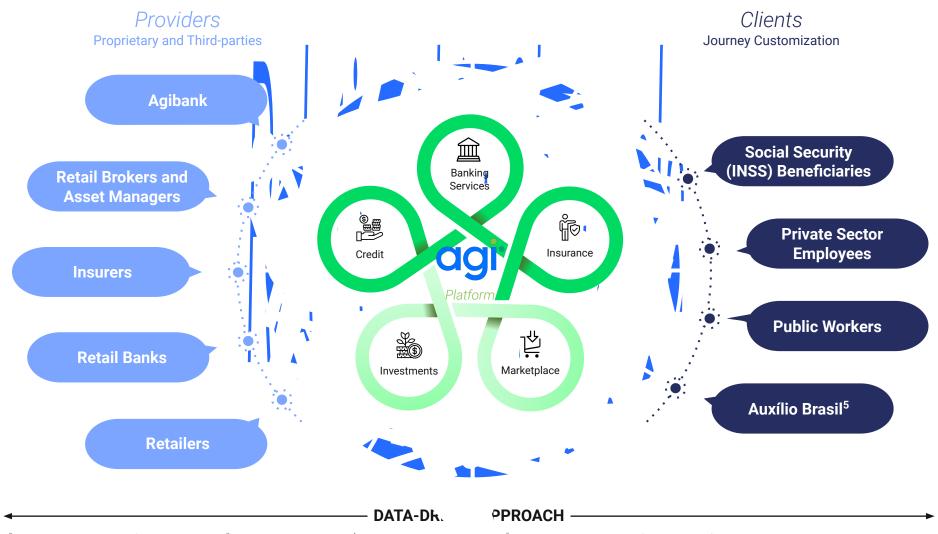
882 (2022) 1,400 (2027E)

of Smart Hubs **38** (2011)

We have built a unique and scalable business from scratch without outside capital

We Have Created a Complete Platform to Explore Opportunities Beyond Credit



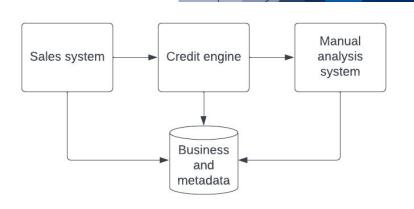


Sales before Origination (until 2017)



- Monolithic sales system in ASP.NET, containing the logic of all products.
- Internal frontend of the system, without exposing APIs to sell products.
- Credit engine responsible for simulating and effecting all products.
- Business data and flow metadata in the same database.
- Workflow defined by ifs/elses in code and columns in the database.
- Service distributing from time to time the proposals for manual analysis.





Old model issues



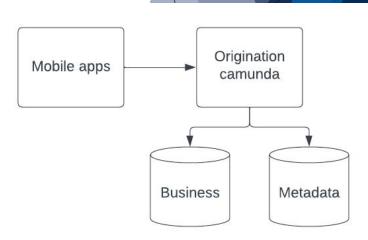
- A single team was responsible for all components and products, making it impossible to parallelize and prioritize backlog between different parts.
- Sales only on the physical store channel, as there was no API to be exposed to other channels.
- As there was no defined workflow, only current status columns, it was common to have what we call "sledgehammers" changing the status of a proposal by direct SQL Update, often causing inconsistencies.
- Necessary to "dig" code to discover the steps of each flow.
- Average service and sale time for a product reached 2 hours.
- Scalability compromised by being monolithic and with technology dependent on Windows servers.

Origination 1.0 (2017 - 2019)



- We started using BPM with Camunda.
- Current account and credit card products.
- Mobile banking channel (Android / iOS).
- Installation of Camunda Standalone with a server for all processes.
- Management of business data on a separate database from flow metadata.





Evolving...



Benefits

- Process visibility
- Well-defined flow preventing messy changes
- Rules mapped to Decision Tables (DMNs) made the process more dynamic.
- More visible and manageable human task queues

Points to improve

- Scalability still compromised by having everything on a single server
- Still a single team evolving and maintaining all parts of the process

Evolution of the organization



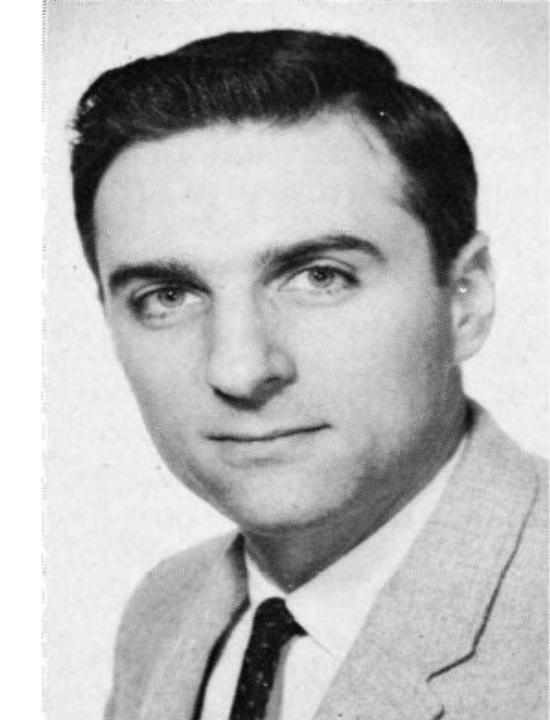
- We started to adopt a model of smaller teams, called Squads.
- Each team becomes responsible for a small part of the business.
- ► The teams started to use different technologies and have different skills, given the different scenarios.



Conway's Law

"Organizations, who design systems, are constrained to produce designs which are copies of the communication structures of these organizations."

- Melvin Conway (1967)

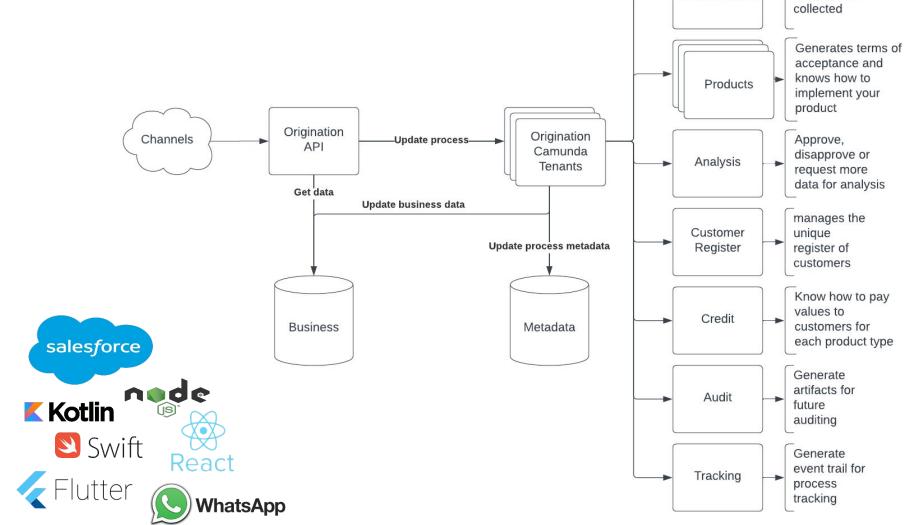


Origination 2.0 (2019 - now)



- Focus on being omnichannel
- ► It currently serves 10 different channels, including Physical store, Mobile Banking, Internet Banking, Whatsapp, Marketplace, etc.
- Up to now offering 28 different products such as Current Account, Credit Card, Payroll Card, Personal Loan, Refinancing, Payroll Loan, Life Insurance, etc.
- Currently distributed in more than 30 Camunda projects, given the responsibility of each team.
- Microservices running all on Kubernetes in the AWS cloud.
- Tracking of all operations by events.
- Dynamic connection points, allowing the registration of new products, rules and types of analysis without changing the main process.

Overview of Origination 2.0





CAMUNDA



simulate offer

which products

by returning

are available

Define what needs to be

Offer

Formalization





ထို kafka





Benefits of Origination 2.0

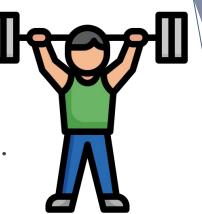
- Decoupling the screen flow of each channel in relation to the business flow itself, allowing its use in several channels, for several products.
- Specialized teams each one in just a small context tend to better understand the problem in their hands, managing their own evolution backlog and thus bringing gains to the process as a whole.
- Multitenant strategy mitigating impact between different sales channels.
- Average service time varies depending on the scenario (product x channel), ranging from 1 minute to the target limit of 30 minutes per sale.

Camunda specific benefits

- Visibility and maintenance of flows facilitated by having the design there, executable and always updated, uniting developers and business people in the same understanding.
- Learning and evolution of processes in a more natural way, gradually automating each part of the process, leaving each day less work for human tasks.
- ► Easy management and visualization of human task queues.
- Dynamic process helping in the addition of new products through sub processes.
- Power to developers so they can use the technologies they already know and love.

Current state

- Average of 400K Originations per month in the last five months.
- Peak of more than 600K Originations in a single month.
- More than 80 process design deployments made on main Camunda.
- More than 200 Active BPMNs.
- ► In all of 2022, more than 3.2M main processes started (Root process instances) and more than 1.2B process movements (Flow nodes instances).
- Only in January/2023, almost 500k main processes started (Root process instances) and more than 150M process movements (Flow nodes instances).
- Over 30 other projects and teams using Camunda in addition to the main one.







Vamos crescer juntos?



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