

# LiquidShare

Shift to cooperation

ECSDA presentation – 27/11/2018



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# An Industry initiative



## Board Members

**Anthony Attia**  
Chairman of the board  
CEO of Euronext Paris



**Brigitte Daurelle**  
CEO of Euroclear France, the Netherlands and Belgium



**Damien Jamet**  
Chief of Staff at Société Général Securities



**Guillaume Fromont**  
Senior Advisor at CACEIS



**Arnaud De Bresson Censor**  
Managing Director at Paris Europlace



**Hein Siemerink**  
CEO of AFS Group



**Eric Massart**  
Investment Director at Caisse des Dépôts

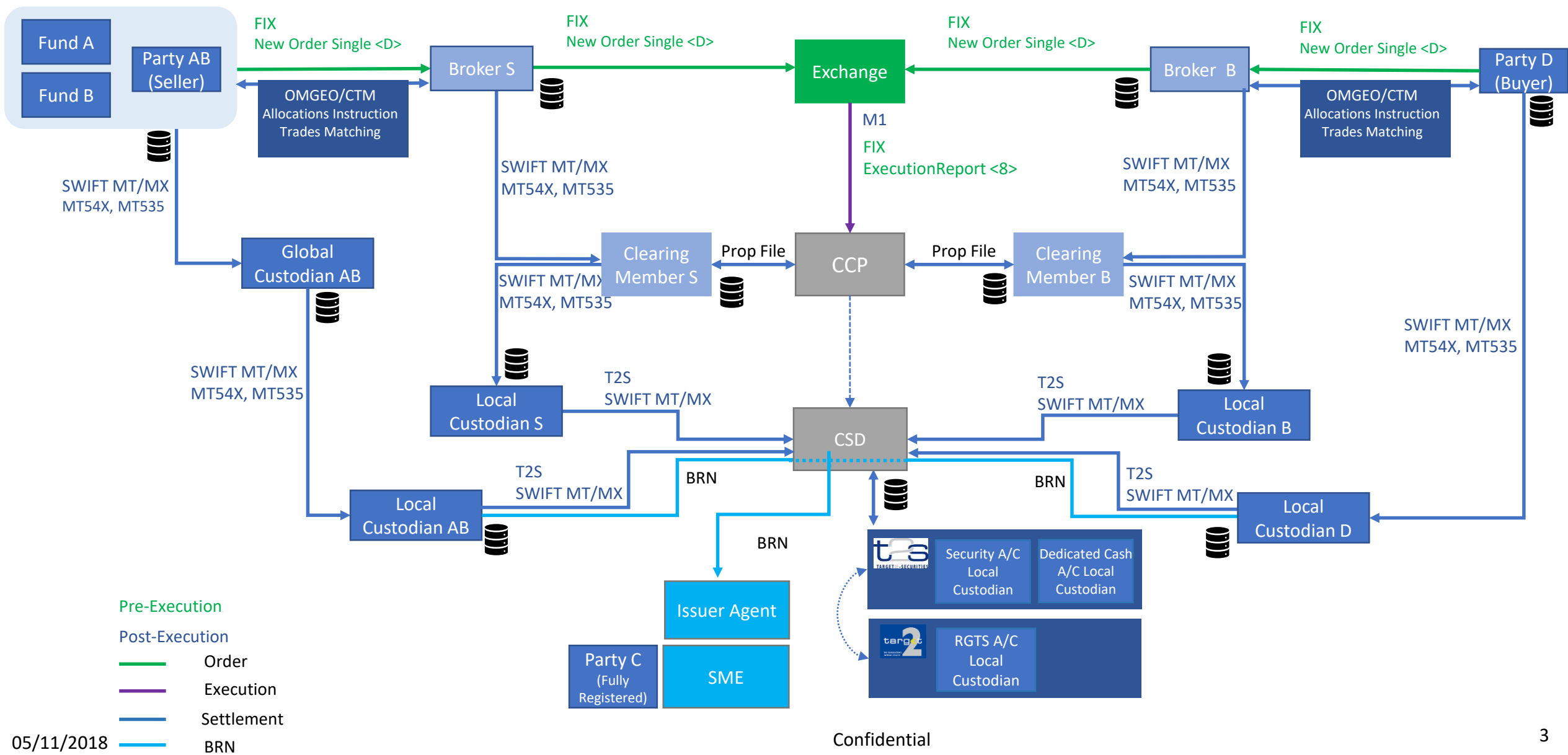


**Jean-Pierre Grimaud**  
CEO of OFI Asset Management

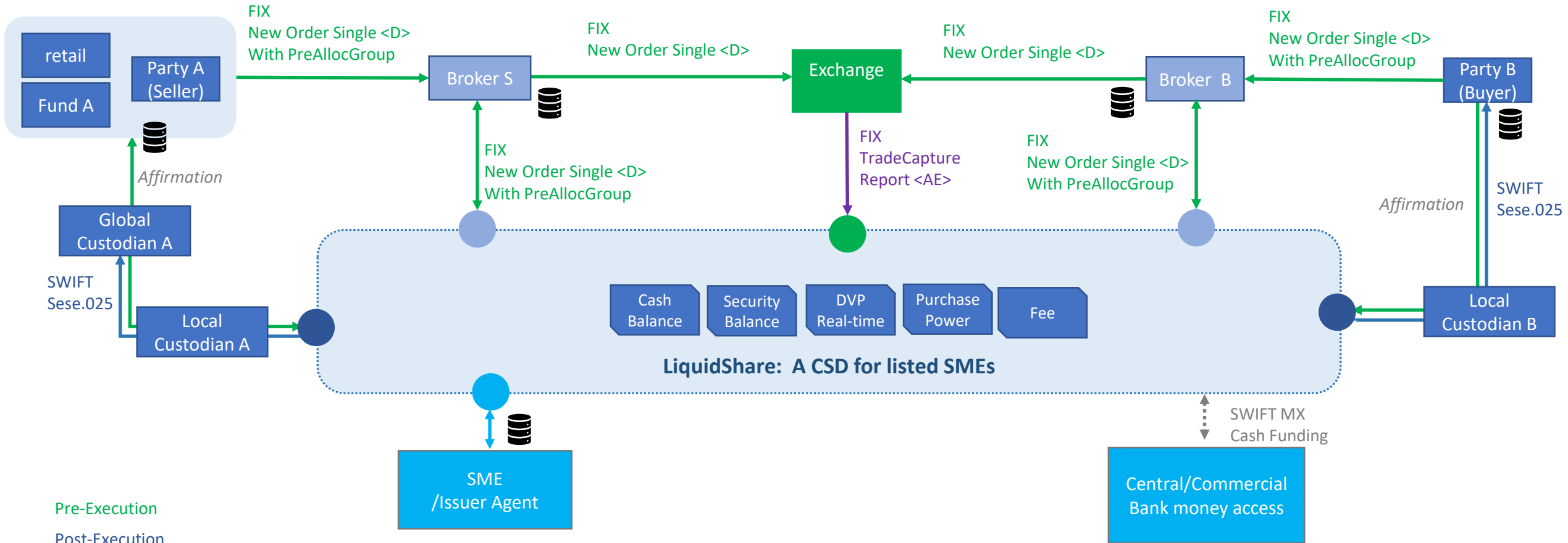


**Philippe Ruault**  
Head of Digital Transformation at BP2S

# Existing infrastructure: a convoluted process for listed SMEs

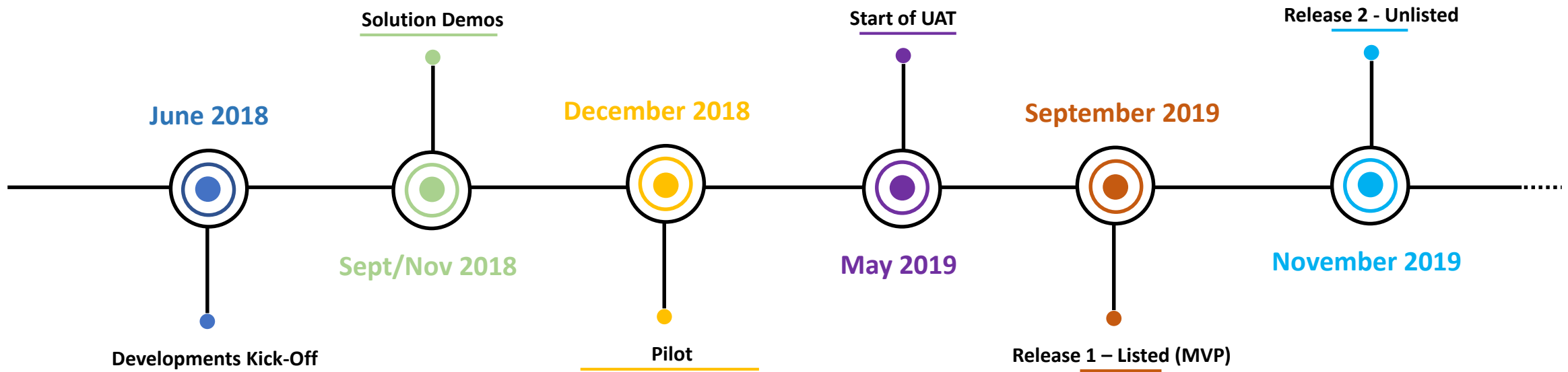


# LiquidShare infrastructure: simplified process built for listed SME



- Pre-Execution
- Post-Execution
- Order
- Execution
- Real-Time Settlement
- Shareholders base
- Smart Contract in the blockchain

# LiquidShare roadmap



## Release 1

⚙️ Migration and go-live with Minimum Viable Product (MVP) for listed securities

## Release 2

⚙️ Unlisted securities, Security Token Offering

# Overview



## USER INTERFACES

- ❏ Custodian/Asset Manager/Broker/ SME web UI
- ❏ Angular/TypeScript/GraphQL

## BACK-END

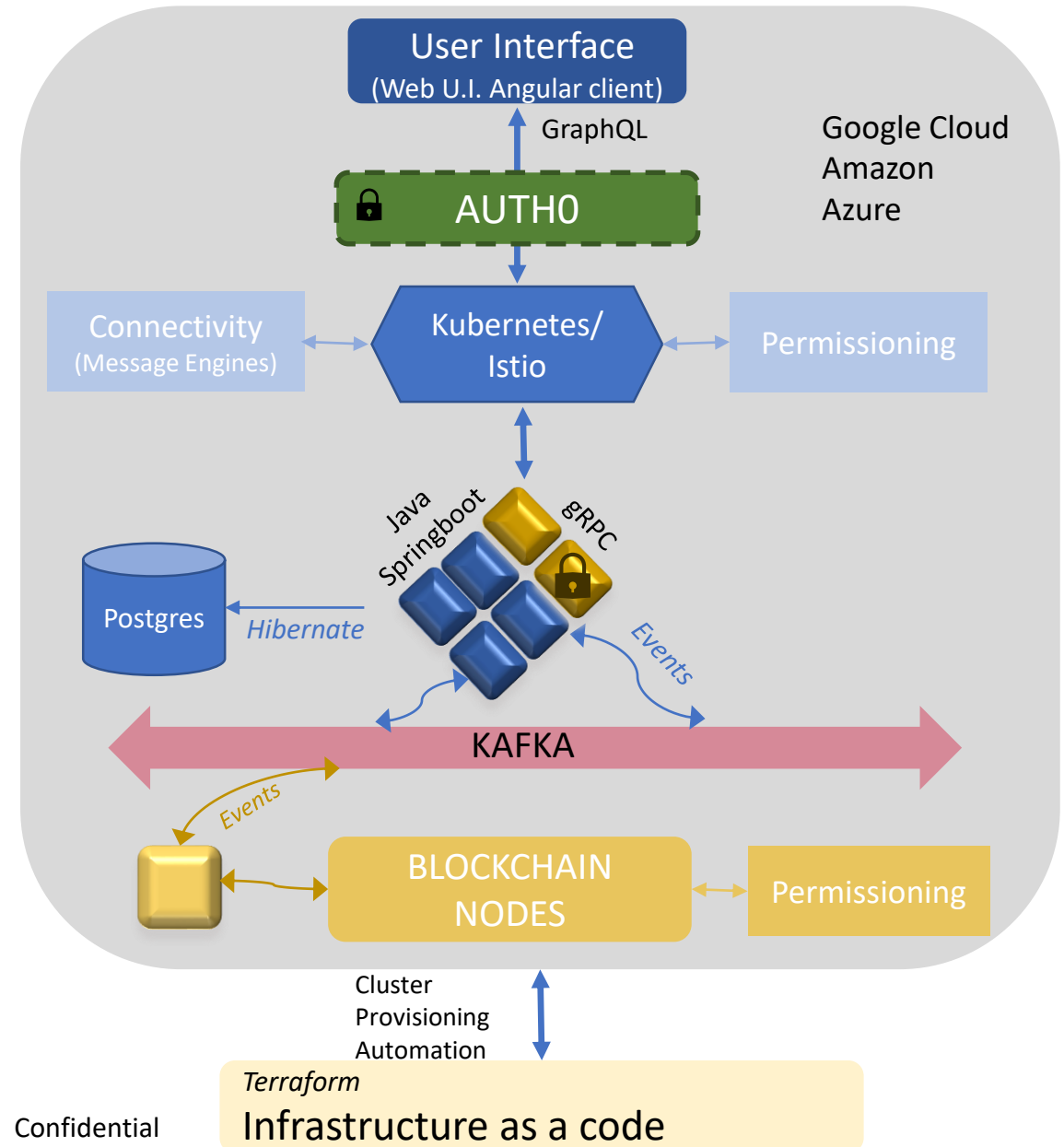
- ❏ Position/Fee/Trade/Payment/Static Data Micro-services
- ❏ Java/PostGres/Kafka (Messaging Middle-ware)
- ❏ Auth0 (Identity Provider)

## BLOCKCHAIN

- ❏ Parity Clients, Consensus PBFT
- ❏ Permissioned Blockchain

## INFRASTRUCTURE

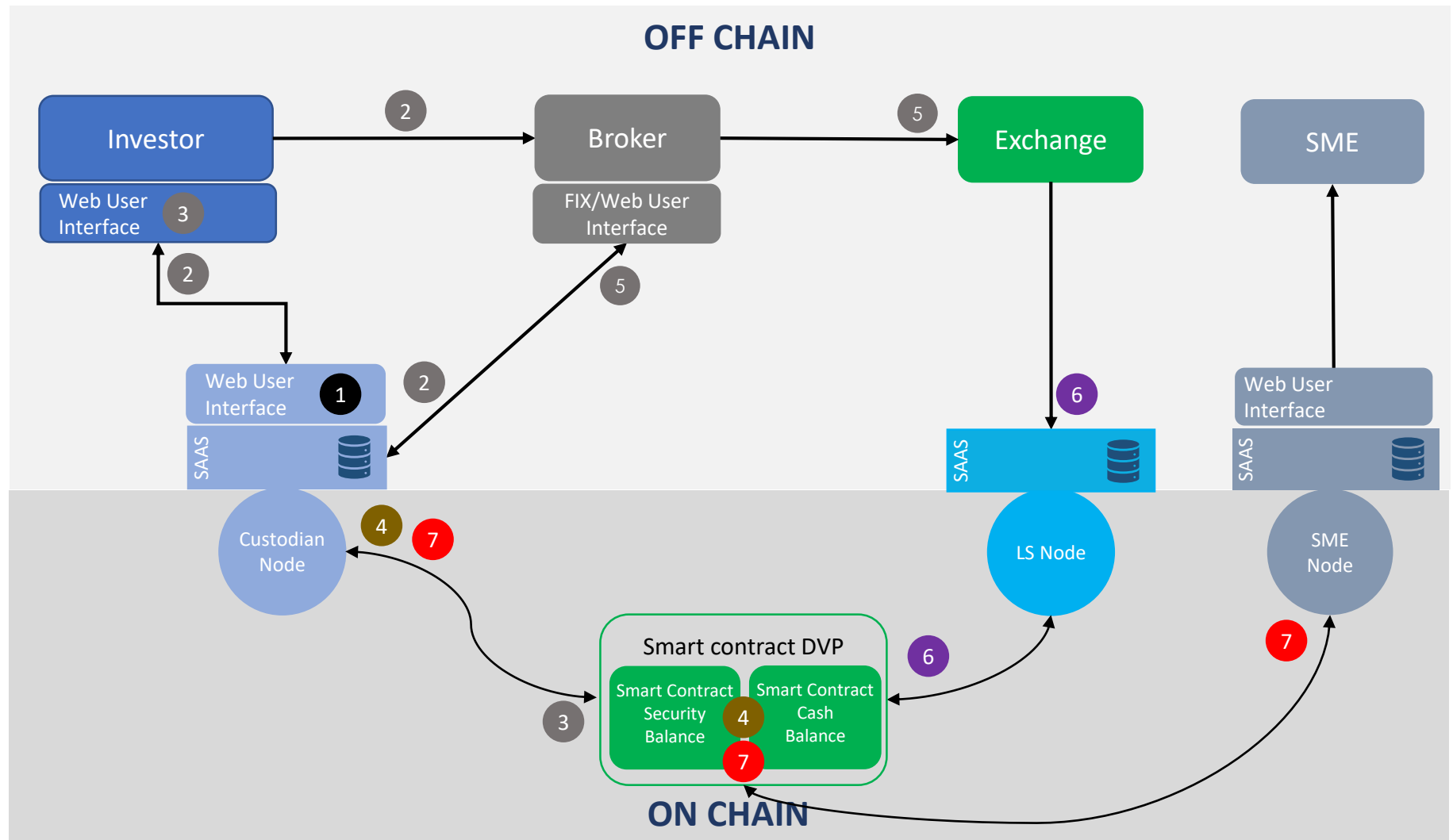
- ❏ DEV/QA/PROD environments on AWS
- ❏ Script to automate the provision of cluster in a few minutes



# MVP Functional model



- 1 Custodians account creation and public key generation
- 2 Order sent to the broker using FIX connectivity and routed to investor for affirmation
- 3 Order affirmed by the Investor and sent to the blockchain
- 4 Reservation of the shares or cash in the smart contract and confirmation of successful reservation
- 5 Transfer of the valid order
- 6 Execution sent by the Exchange to the blockchain
- 7 DVP performed at execution level. Confirmation of successful settlement and SMEs' real-time view at investor / custodian level





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