



FINOS

Fintech
Open Source
Foundation

Building decentralized financial ecosystems

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Ecosystem Growth Program

FINOS DEG

Welcome to open finance!



Open finance isn't all about “blockchain”

Cryptocurrency is decentralizing the issuance, storage, and safety of things that look like money (or maybe securities, or maybe commodities).

Cryptocurrency does not automatically give people alternatives to traditional financial products, or change the underlying reasons they seek out financial services.



We need a home loan



I want to sell my art
around the world



I want to invest in early
stage companies

Open finance is about increasing choice

Right now, reducing operational cost and better matching between service providers and customers is more about market expansion than “stealing” market share from incumbent vendors. Most early products are retail-oriented (but that is changing).



My credit score is a poor indicator of my likelihood to repay



Reaching my audience and doing business with them is too expensive



I don't meet private equity account minimums

Open source is key to open finance

Open source protocols reduce vendor stickiness and encourage “yes, and” building

Open source applications increase transparency into decision making and build customer confidence

Partially open source applications help providers focus investment on their secret-sauce layers

Decentralized elements help innovators challenge the status quo



Digital
bearer
assets

Smart
contracts

Cloud
multiplex

Multiparty
compu-
tation

P2P
Markets

Web of
Trust

Network
messaging

Code
Governance

We should care less about whether something is centralized or decentralized than whether it is accountable. An accountable system is responsive to both the common good for participants and the needs of minorities; it sets consistent rules and can change them when they don't meet users' needs.

-Nathan Schneider

Webbernext Components

Applications

UI & UX

Unique Functionality

APIs

Libraries & Tools

Common Abstractions

Key Management

Query / Introspection

Data Sources

Cryptographic Utilities

Lots more...

Infrastructure

Hosting

Application Runtime

Decentralized Delivery

Secure External Compute

Distributed Systems

Data Exchange

Peer Management

Consensus

Blockchain (optional)

Addresses

Sidechains / Channels

State Machine

Incentives

Governance

Sharding

Interoperability

Networking

P2P Protocol

Internet Protocol (IP)

DNS / Decentralized DNS

Analysis Resistance

Hardware

Secure Boot

Trusted Execution

HSMs

Required

Optional

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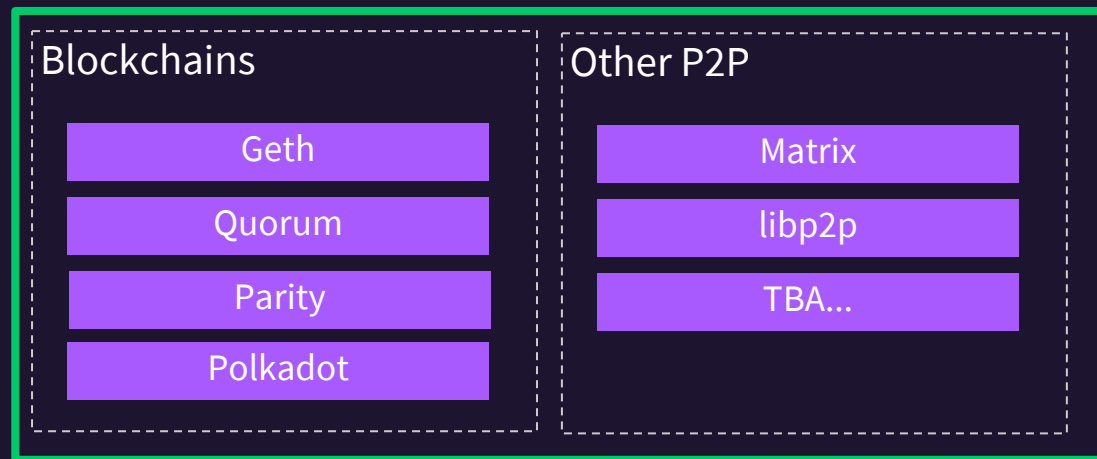
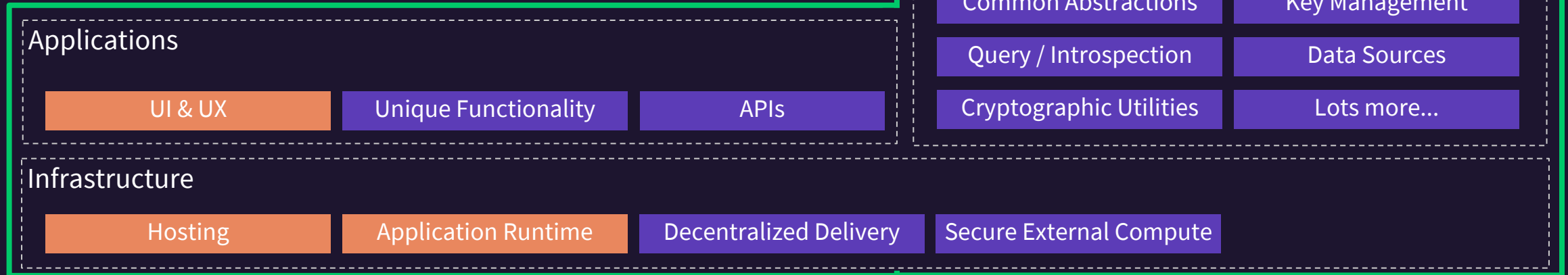
Trusted Execution

HSMs

Required

Optional

Webbernext Components



FINOS DEG

About us



The Decentralized Ecosystem Growth program



Develop tools

We build tools that make decentralized finance work for banks, businesses, regulators, clients, and customers.



Think differently

We identify long-standing challenges in the financial industry that we can solve in new ways.



Build community

We learn from each other and we create space for diverse perspectives to flourish.

We investigate:

- Utility and interaction between CBDC, stablecoins, public cryptocurrency, and traditional banking payment rails
- Replication of common pre-, on-, and post-trade workflows via modular and verifiable smart contracts
- Transferring data models for common financial assets to digital tokens
- Data confidentiality, privacy design, zero-knowledge systems
- Data oracle design, decentralized data authentication and access schemes
- System migration and integration (internal, between similar networks, between disparate networks)



FINOS Overview

Community and
Programs



The FINOS Community by the Numbers

75

Open Source Repos

21

Working Groups

300+

Contributors

11

Collaborative Programs

31

Member Organizations

finos.github.io

PLATINUM MEMBERS

 CITADEL

 citi

 CREDIT SUISSE



GitHub

 Goldman Sachs

HSBC 

J.P.Morgan

Morgan Stanley

NOMURA

 SYMPHONY

 UBS



GOLD MEMBERS

 Capital One

FACTSET

 IHS Markit

 redhat

 openfin

S&P Global

 Tradeweb

REFINITIV 

SILVER MEMBERS



 BANKEX

 BNY MELLON

Chart  IQ

 Cloud9



GitLab



GLUE42
CONNECTING APPLICATIONS

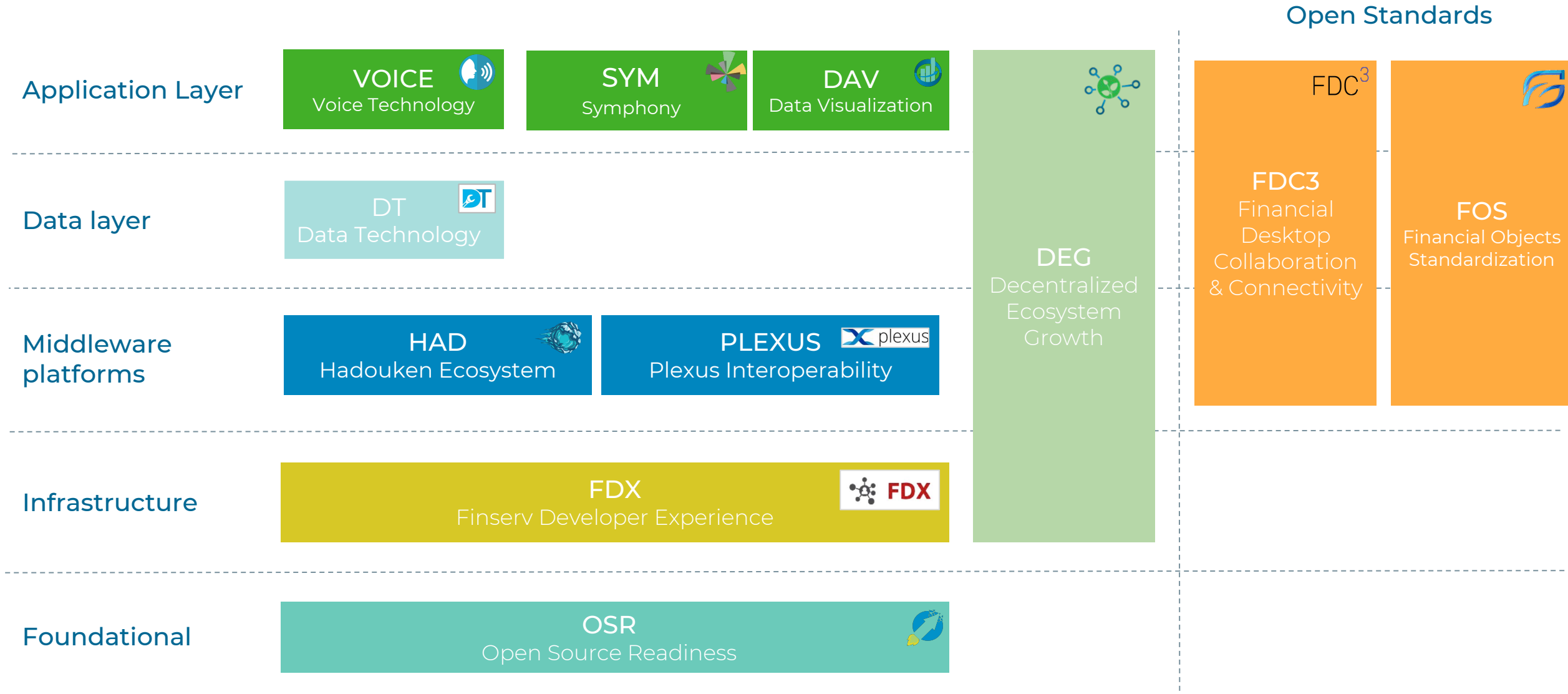
 GreenKey

NODESOURCE

SCOTT LOGIC

finos.org/members

FINOS Programs at a glance



Our Programs, Projects, Working Groups

Legend

Working Group

Open Source Project

Forming

FDC³

Financial Desktop
Connectivity &
Collaboration
Consortium (FDC3)

finos.org/fdc3

Context Data

Intents

App Directory

API

Use Cases

FDX

FinServ Developer
Experience (FDX)

finos.org/fdx

Developer Experience

Foundation Dev
Toolchain

Open Developer
Platform

GitHub Chatops
Bot

Financial Objects

FO

Financial Objects

finos.org/fo

Financial Objects

Hadouken

Hadouken

finos.org/hadouken

Application
Templates

Layouts Service

Notifications
Service

Desktop Services

Hadouken Core

OSR

Open Source
Readiness

finos.org/osr

Open Source
Readiness

Plexus

Plexus Interop

finos.org/plexus

Plexus-Interop

Symphony

Symphony

finos.org/symphony

Tag Standardization
Working Group

Java Client

Integration Bridge

Symphony Electron

ContainerJS

Jcurl

REST API
Specification

50 More...

Voice

Voice, Voice
Metadata and Voice
API

finos.org/voice

GreenKey SDKs

Call Metadata
Standardization

DT

Data Technologies

finos.org/dt

kdb+

Security Reference
Data

DAV

Data Analytics
Visualization

finos.org/dav

Perspective

DEG

Decentralized
Ecosystem
Growth

finos.org/dav

Decentralized
Technology

FINOS Fintech Open Source Foundation

finos.org

More information

Decentralized Ecosystem Program:

decentralized.finos.org

FINOS: **www.finos.org**

FINOS Wiki: **wiki.finos.org**

**Introduce Yourself! Send an email to
community@finos.org**