



# Decast.Live

Video Infrastructure as a Service

>> by Leren Leren

Decentralized Live  
Casting and Media  
Management



CALL



CAST



DECAST

```
/* Decentralized Casting and Media  
Creation Platform for Events */
```

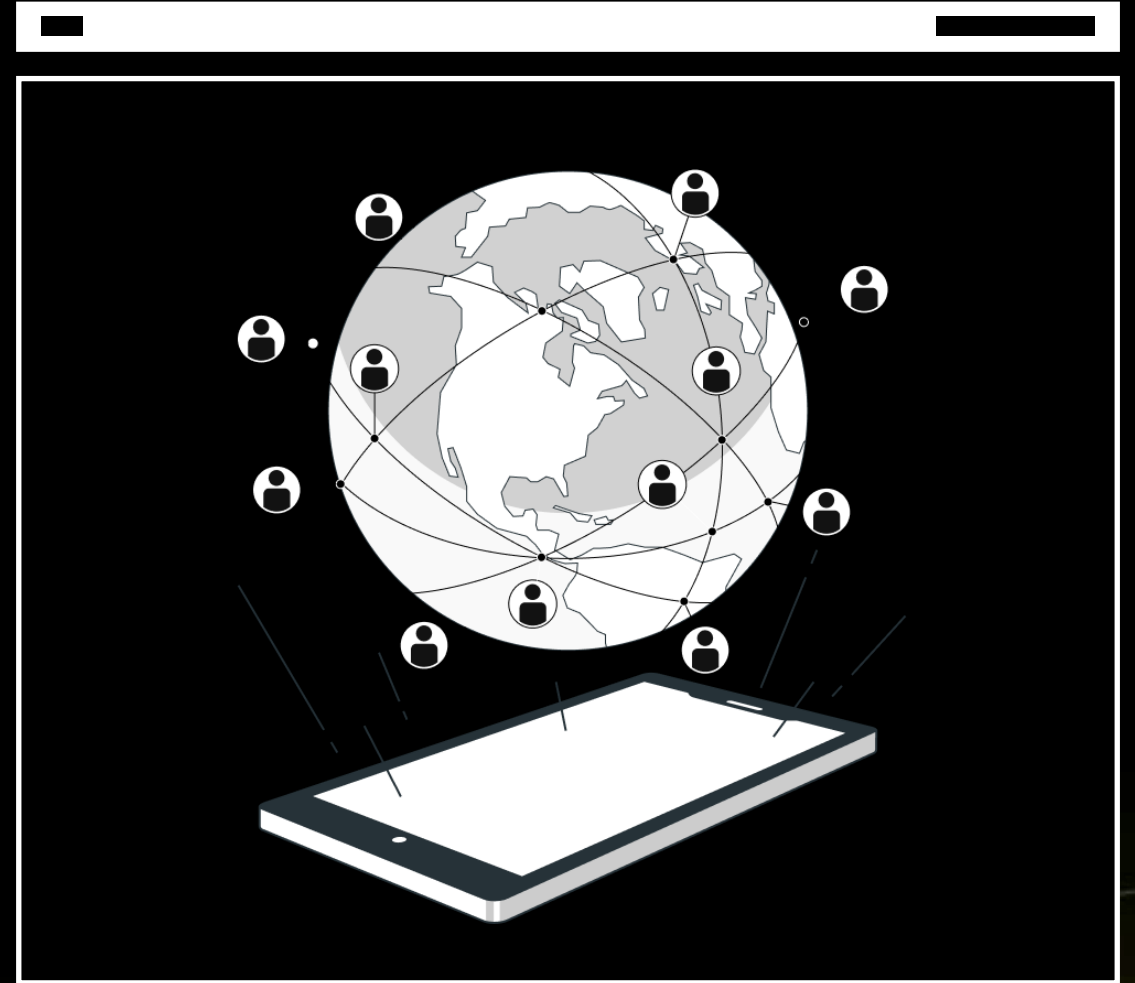
```
/* Video Infrastructure as a Service */
```



```
>> On Premise / Cloud  
>> Private / Public  
>> Open / Closed
```

# The Problem

- ❑ In today's digital landscape, ensuring the security and authenticity of video casting is challenged by **generative AI and Deepfakes**.
- ❑ Traditional platforms do not maintain data integrity and privacy, leaving sensitive communication **risky and prone to leaks**.
- ❑ Centralized storage systems are susceptible to tampering, unauthorized access, privacy breaches, undermining **trust and reliability**.



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Problem? Information Management?

Fake

Real



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# Problem Matrix

Information Issues

## Penetration Breaches

Deepfakes can be used to bypass command authentication systems, gaining unauthorized access to secure facilities and sensitive data. This poses a severe risk to both individual privacy and national security.

[\(Source\)](#)

## Video Misinformation

Deepfake videos can be used to create false narratives and influence public opinion. For example, during the 2022 conflict between Russia and Ukraine, a deepfake video of Ukrainian President Volodymyr Zelenskyy falsely urging his troops to surrender circulated online, demonstrating how deepfakes can be used to undermine trust and manipulate public perception.

[\(Source\)](#)

Slow

## Economic Impact

The ability of deepfakes to manipulate financial markets by spreading false information about companies or economic policies can lead to significant financial instability and loss.

[\(Source\)](#)

Fast

## Cybersecurity Threats

The National Security Agency (NSA) has highlighted that deepfakes pose a cybersecurity challenge by facilitating impersonation attacks, which can lead to unauthorized access to critical systems and sensitive information.

[\(Source\)](#)



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Infrastructure Issues

# Our project **DECAST**

Ensuring secure, authentic, and efficient video infrastructure with decentralization.

---

With Decast, build communications that are secure plus verifiable and tamper-proof using:

- **Authentication Layer:**  
DID binding between Multiple Web2/Web3 IDs.
- **Verification Layer:**  
Chain agnostic Verification.
- **Accessibility Layer:**  
Data storages and Data Streams

```
//everything  
is public,  
  
//everything  
is private.
```



**Decast.live**

## DID based Authentication:

Authentication layer: Binding Multiple Identities Web2/Web3 with DID system.

Because your face is not your only identity anymore

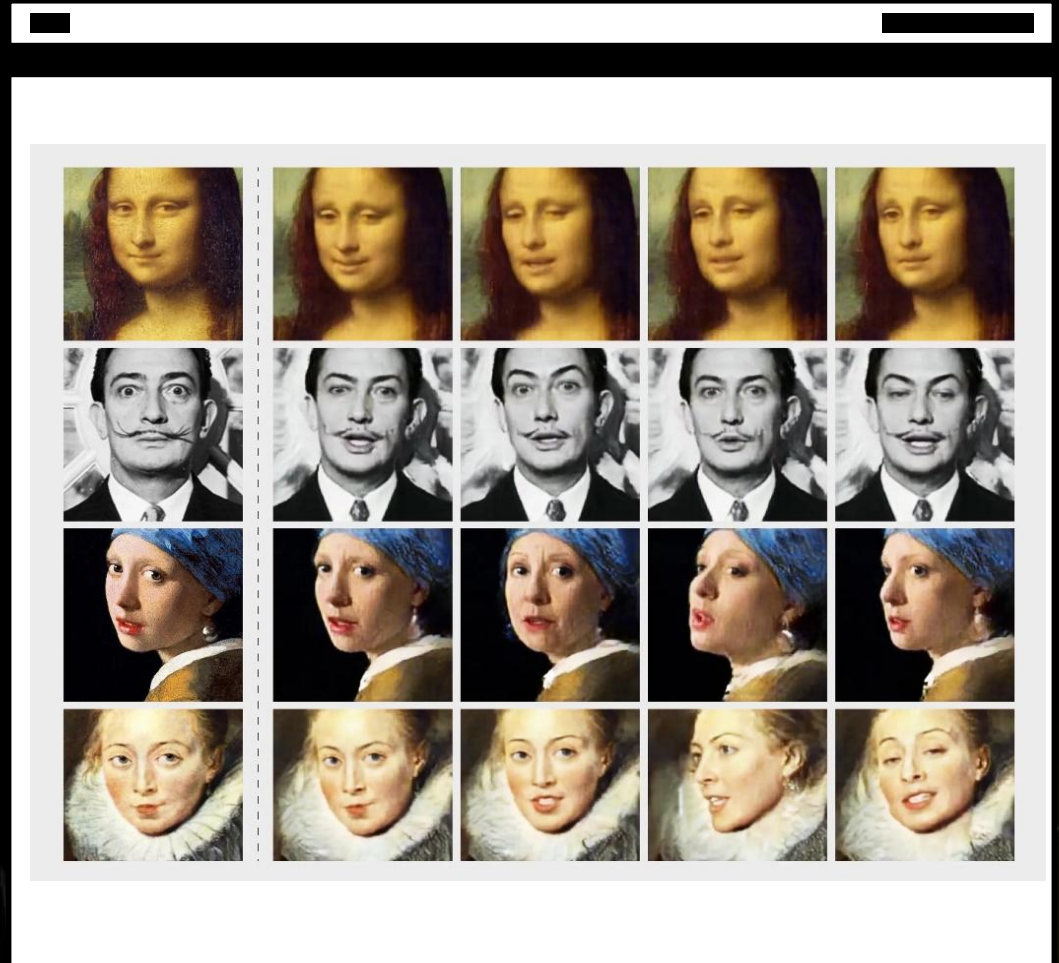


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# Chain Agnostic Verification:

Verification Layer: Verification using  
Wallet identity or NFTs to verify  
ownership/accessibility of media/content.

Because it is easy to  
create fakes especially  
when sources are different



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# Decentralized Accessibility:

Accessibility Layer: Secure Video  
Infrastructure with media content  
and live stream accessibility based  
on Authentication and Verification  
(1. & 2.)

Because recorded  
content can be  
is being reliably  
tampered.

Fake

Real



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# Problem, in Numbers



Kaspersky  
reported

26%

Increase In Number Of  
Malware Attacks Using  
Video Conferencing



Personal data of  
Around

500K

Zoom Accounts Was Found  
For Sale On Dark Web



Google  
reported

30x

Increase In Number Of  
Impersonation Attack  
Reports On G-Meet



Approximately

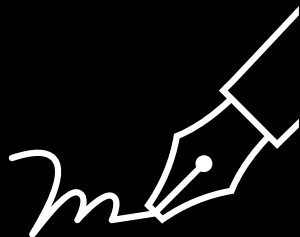
149K

Attacks Detected Every  
Month On Microsoft Teams

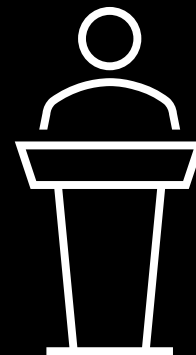


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# Democracy?



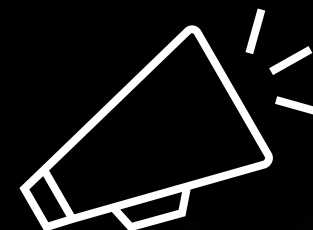
*Legislative*



*Governance*



*Judiciary*



*Press*



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“General audience is aware of the problem, they would switch to better privacy and security, if they are given a choice!”



## What do we do?

Developing network-driven learning architectures—where AI and decentralized systems evolve together.

- ❑ **Decentralized Identifiers (DIDs):**  
DID binding between Multiple Web2/Web3 IDs.
- ❑ **Decentralized Networks:**  
Digital infrastructure with community nodes.
- ❑ **Decentralized Apps & Accessibility:**  
Data storages and Data Streams.



# Decast.Live



## Decast.Live

DECAST.LIVE is a **decentralized live-casting platform** that redefines how content is broadcasted and stored. It eliminates reliance on centralized servers, ensuring superior security, privacy, and autonomy.



Funded by  
the European Union



swarm



sia



SKALE

# Engaging Fan Base

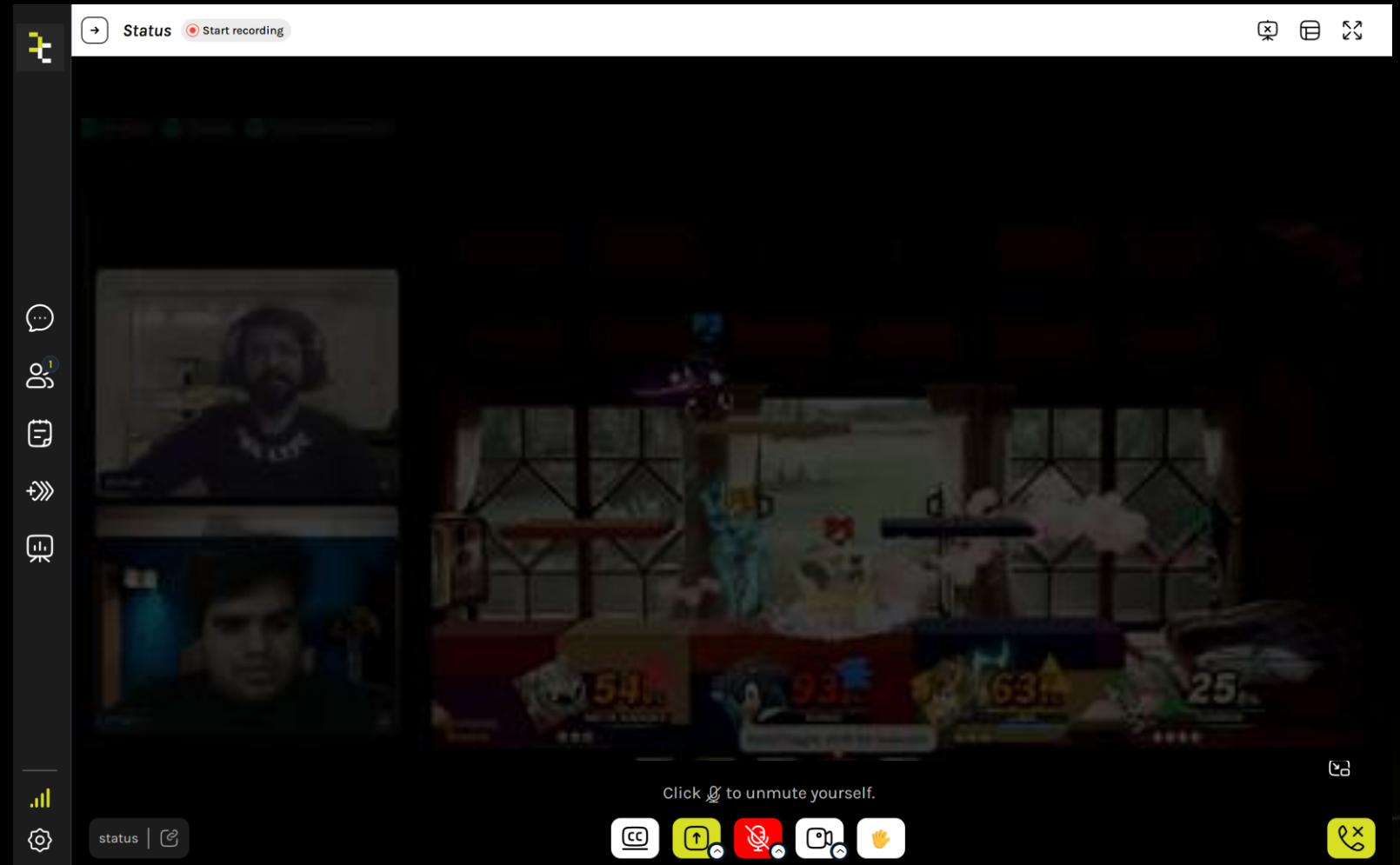
To on-ramp Games on our platform  
with video SDKs and developer  
on-boarding.

## Live Events to

- Embed,
- Enhance,
- Engage!



# Decast.Live



# Personalized Deployments

To on-ramp applications on decentralized private networks with video infrastructure.

Reach out to  
co-create!

Decast SDKs for  
canvas integration



# Decast.live

The screenshot displays the Decast.live interface. At the top, a status bar shows 'Status' and a 'Start recording' button. Below this, a video call window on the left shows a participant named 'Yasrab'. The main area is a large canvas with the text 'Your DAPP/APP/Game here!' in yellow. The canvas has a terminal-like header with '>>>> decast.live\_' and a 'Styles' panel on the right. A bottom toolbar contains icons for CC, upload, mute, video, and a hand icon, along with a 'Click to unmute yourself.' prompt. The interface is dark-themed with yellow accents.

# Features

NFT Gating

Access Control

Secure

Personalized

Transactions

Event Pages

Audience

Event Setups

Content

Multi Platform

Production

Streaming

Airdrops

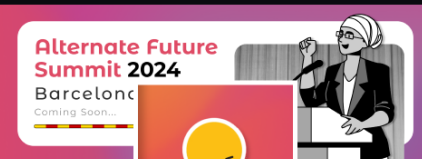
Data Ownership



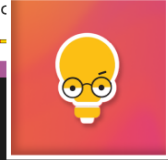
Decast.live

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30x...TMTkV8LK4ZnX71  



**Alt Future Summit 2024**  
Coming Soon



**Alt Future Summit 2024**

22/10/2024 | 9:00 GMT

Join leaders from across the globe where they share vision, knowledge, experience, and inspiration on leading a human life and career in the future.

**Join Event** 

[www.decast.live/j/altf-summit-2024](http://www.decast.live/j/altf-summit-2024)

**Website** 

[www.decast.live/](http://www.decast.live/)

**Hosts and Guests**

 **Shivam Dhawan**  
Founder, Getboarded

 **Maria Margarido**  
Marketing Enthusiast

**Event Tickets**

/\* Each user can mint only one NFT Ticket per Wallet. Multiple NFT minting is not permissible for fair ticket distributions \*/

**Speakers**

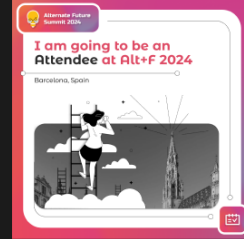


**I am going to be a Speaker at Alt+F 2024**  
Barcelona, Spain

Tickets Left : 9  
Total Tickets : 50  
Cost : 0.05ETH

**Buy Ticket** 

**Attendees**



**I am going to be an Attendee at Alt+F 2024**  
Barcelona, Spain

Tickets Left : 236  
Total Tickets : 5000  
Cost : 0.02ETH

**Buy Ticket** 

**Volunteers**



**I am going to be a Volunteer at Alt+F 2024**  
Barcelona, Spain

# Decentralized live casting, **Competition?**

Users have adapted to virtual communication tools not only for work-related meetings but also for social gatherings, online learning, and virtual events.

Inspiration for Distributed and Decentralized Casting Platform is rooted in a vision of democratic, censorship-resilient, user-centric event hosting landscape.

zoom



Audio and Video Conference



User Authentication



Call Recording



Automatic Summary Notes



User Data Control



Data Integrity



Truly Private Casts



Community Engagement



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# Why DePIN?

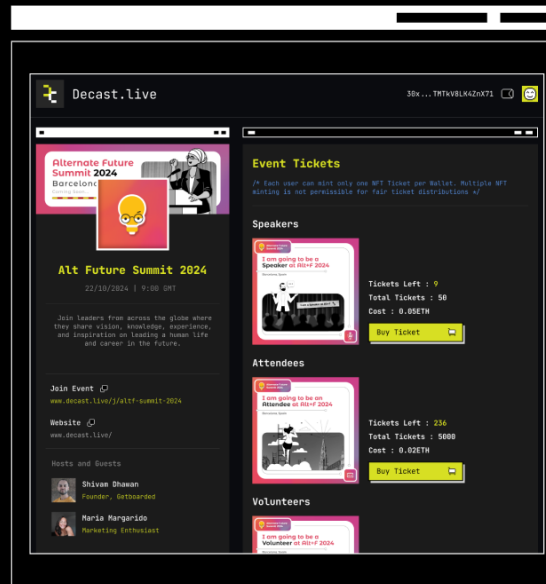
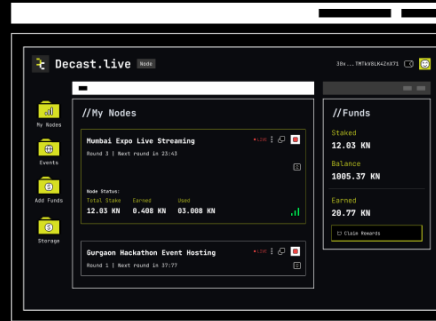
## Why now?

Inspiration for Distributed and Decentralized Casting Platform is rooted in a vision of democratic, censorship-resilient, user-centric event hosting landscape.

Strong foundations for a stronger future!

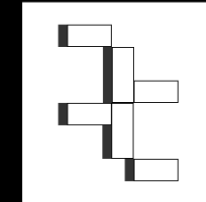


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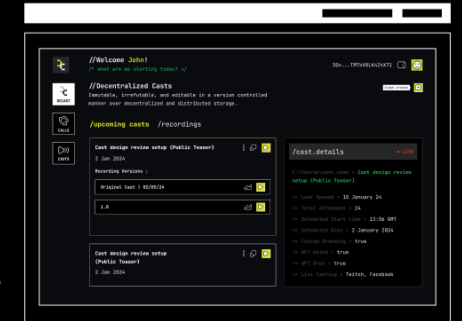
Nodes/Testnet

Community Channels



Web Extension

NFT Gated Events



## Problem? Information Management?



## Solution!

- ❑ (Identity) Security & authenticity of information protected from **genAI and fakes**.
- ❑ (Data) Next-Gen platforms that do not leave sensitive information & data **prone to leaks**.
- ❑ (Media) Decentralized systems are **tamper-proof, reliable & trusted**.



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# Information Architecture

**Authentication** Service Layer

(Identity)

**Authorization** & Security Layer

(Information)

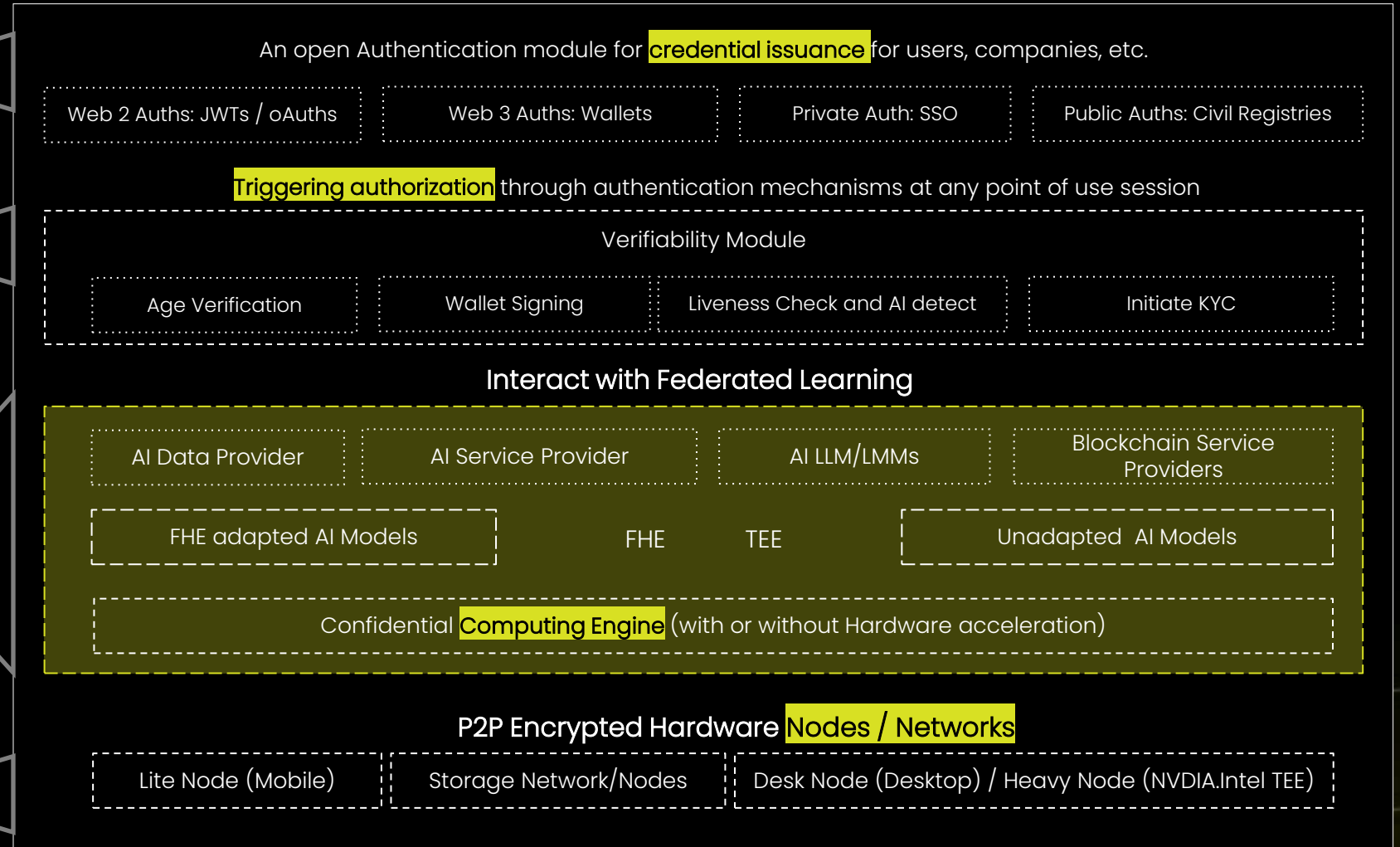
**AI & Application** Compute Layer

(Integrity)

**Accessibility** Layer with DePIN



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# dApp Architecture

**Authentication** Service Layer

(Identity)

**Authorization** & Security Layer

(Information)

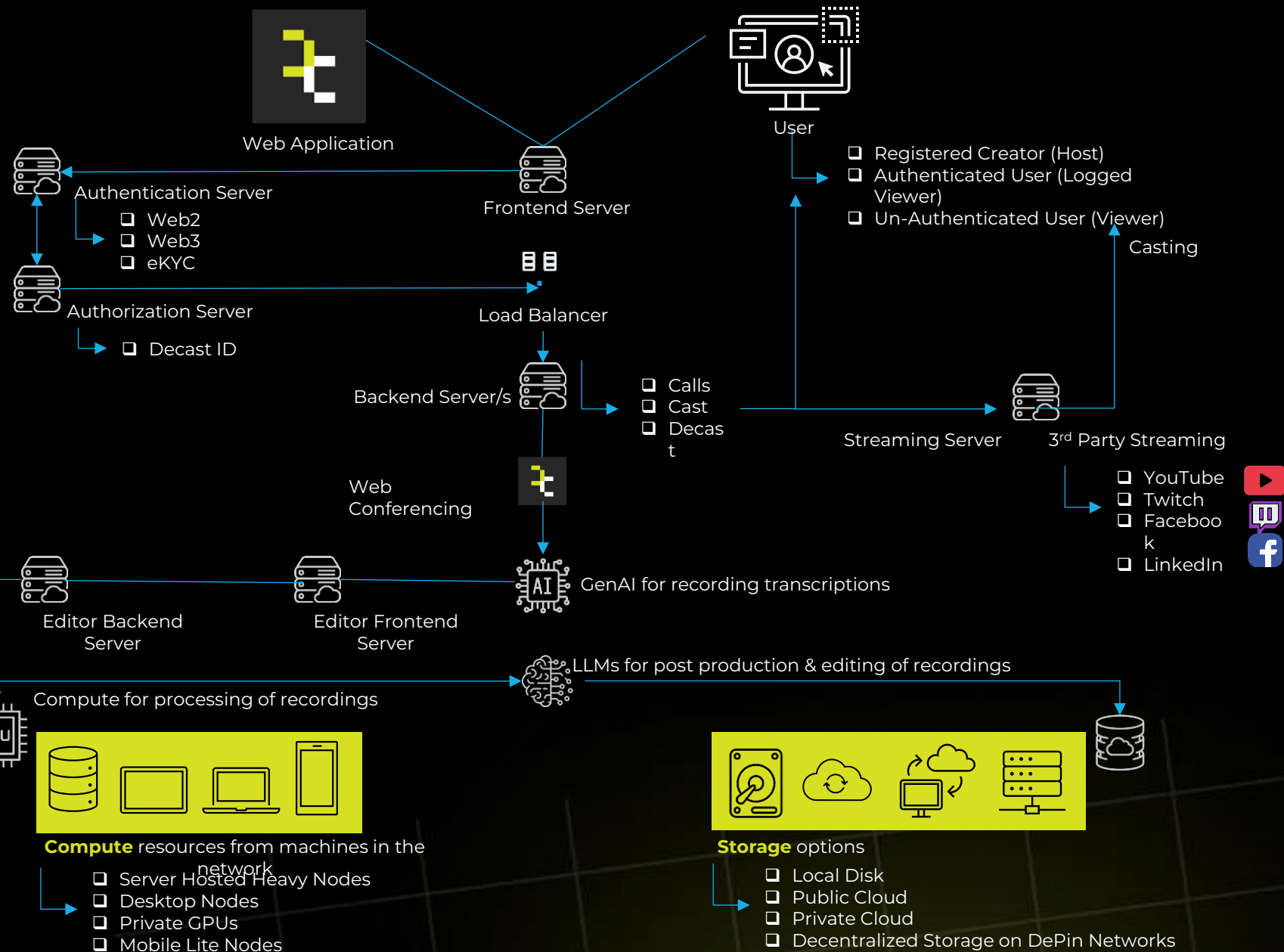
**AI & Application** Compute Layer

(Integrity)

**Accessibility** Layer with DePIN

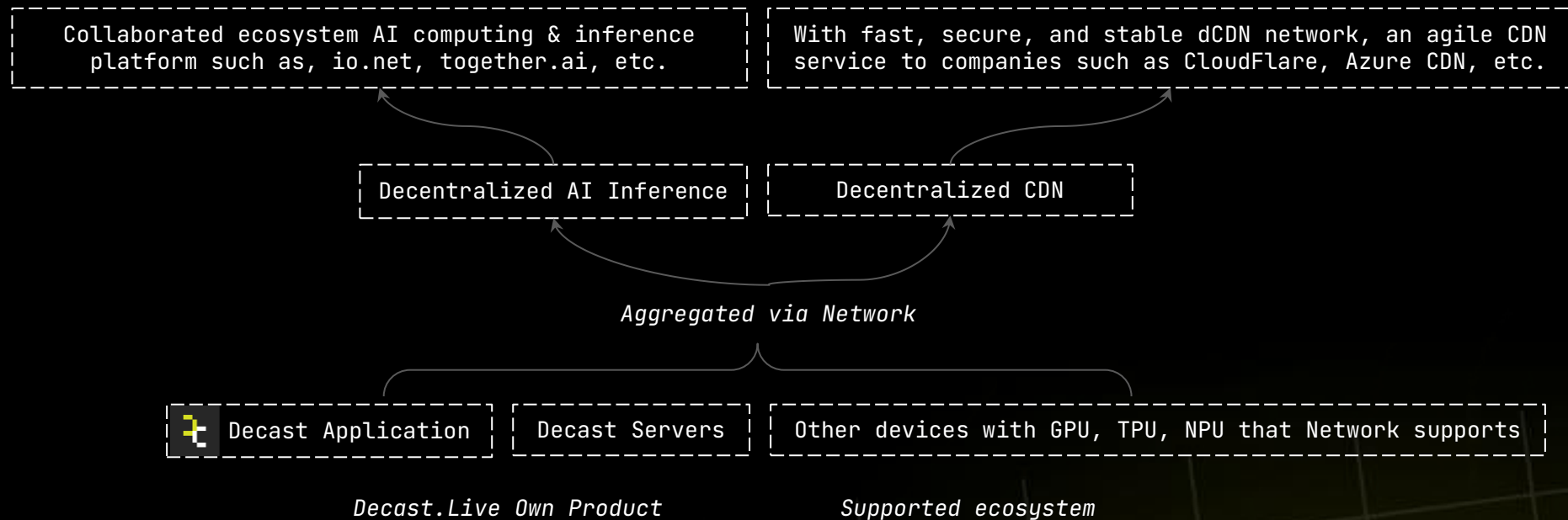


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# Computing Power In AI

The idle computing power, bandwidth within the ecosystem can be shared and utilized in a secured way to not only provide AI and CDN Infra services, while incentivising hardware owners.



## Decast.live

# Node

The Decast node is a vital part of the platform's decentralized network, enabling users to contribute computing resources for live casting and event hosting.

Each node enhances the system's security, scalability, and reliability by distributing data and preventing single points of failure. Node operators are rewarded for their participation, ensuring a strong, collaborative infrastructure.

 **Decast.live** Node

 My Nodes

 Events

 Add Funds

 Storage

//My Nodes

**Mumbai Expo Live Streaming** LIVE  

Round 3 | Next round in 23:43

Node Status:

| Total Stake | Earned   | Used      |
|-------------|----------|-----------|
| 12.03 KN    | 0.408 KN | 03.008 KN |



**Gurgaon Hackathon Event Hosting** LIVE  

Round 1 | Next round in 37:77



30x ... TMTkV8LK4ZnX71  

//Funds

Staked

12.03 \$C

Balance

1005.37 \$C

Earned

20.77 \$C

 Claim Rewards

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# DePIN Actors

## Node Operators

Providing decentralized infrastructure for virtual events and live casting. By contributing their computing resources, node operators support the secure transmission, storage, and distribution of content.

## Decentralized Infrastructures

Other DePIN (Decentralized Physical Infrastructure Networks) projects will enhance Decast by providing complementary infrastructure such as decentralized storage, connectivity, and computing power

## Community and Content Creators

Their participation ensures decentralized, secure, and reliable content distribution. In return, they gain rewards and contribute to a collaborative ecosystem, making virtual events more accessible and resilient.

## Decentralized Storages

They ensure data integrity, prevent unauthorized tampering, and enhance privacy. With decentralized storage, content becomes more resilient, scalable, and protected against potential breaches or downtime.



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# Decentralized Infra, Players & Advantages?

|                     | Core Tech                    | AI model deployment | Verifiability | Security | P2P Encryption | Perf. | Cst. | Open Ecosystem |
|---------------------|------------------------------|---------------------|---------------|----------|----------------|-------|------|----------------|
| Decast Network      | SS+TEE+FL, FHE, Security SoC | ✓                   | ✓             | ✓        | ✓              | High  | Low  | ✓              |
| Sahara.AI           | Merkle tree, ZK              | ✓                   | ✓             | X        | X              | High  | Mid  | ✓              |
| Ora                 | opp/ai+zkML+opML             | ✓                   | Opt.          | Opt.     | X              | High  | Mid  | ✓              |
| Morphic             | teeFHE                       | ✓                   | ✓             | ✓        | X              | Mid   | Low  | ✓              |
| Privasea            | FHEML                        | Opt.                | X             | ✓        | X              | low   | low  | ✓              |
| Fabric Cryptography | VPU chip                     | Opt.                | X             | Opt.     | ✓              | Mid   | Mid  | X              |
| Fhenix              | FHE Roll ups + fhEVM         | X                   | X             | X        | X              | X     | X    | X              |
| Mind Network        | FHE                          | X                   | X             | X        | X              | X     | X    | X              |

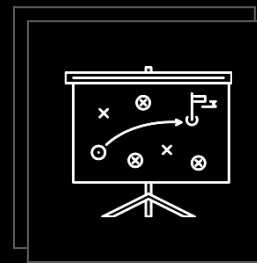


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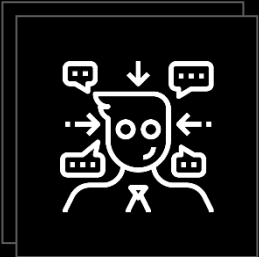
# Primary Audience



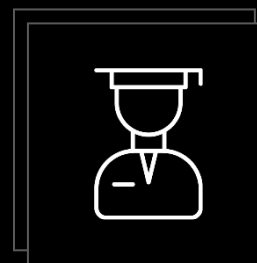
**Event Organizers:** Secure platform for hosting and streaming events, ensuring authenticity and privacy.



**Corporate Executives:** Secure communication platform for confidential meetings and sensitive content dissemination.



**Content Creators:** Reliable platform for publishing and distributing media content with confidence in its integrity.



**Educators:** Trusted platform for hosting educational seminars and distributing course materials securely.

... and Developers!



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# Business Model

BUSINESS MODEL

## PaaS

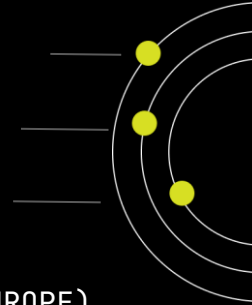
Platform/Infra as  
a Service

TAM €10.6B

SAM €2.25B

SOM €112M

MARKET SIZE (EUROPE)



MARKET SEGMENT



☐ Tech

☐ Web 3.0

☐ Gaming

☐ Finance

☐ Education

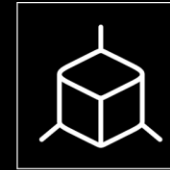
CHANNELS

☐ Marketing

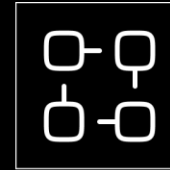
☐ Content

☐ Events

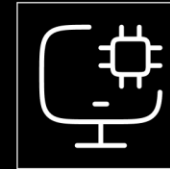
☐ Partnerships



Decentralized  
Physical Infra  
Networks (DePIN)



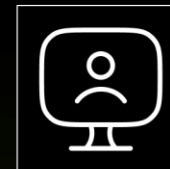
Nodes and  
Network  
Operators



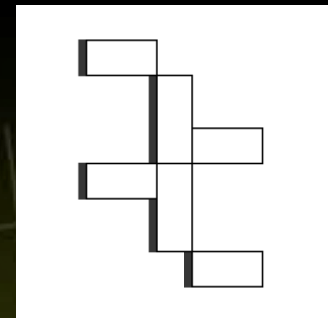
Operating  
System



Decentralized  
Database Management  
Systems (DDBMS)

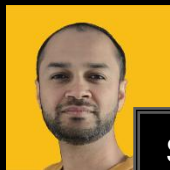


Video  
Conferencing



# Decast.live

## Our Team



S

Shivam Dhawan  
CEO / Business Analyst



P

Peyman Pourjafar  
CTO / Solutions Architect



A

Ahmad Arshad  
Product Engineer



S

Sushil Kumar  
Full Stack Developer



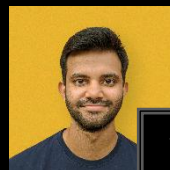
A

Anish Jha  
Full Stack Developer



R

Rupesh Choudhary  
DPO Infrastructure



Y

Mohammed Yasrab  
Product Design



M

Muhammed Ajmal  
**Phd** Cyber Security  
Researcher



Z

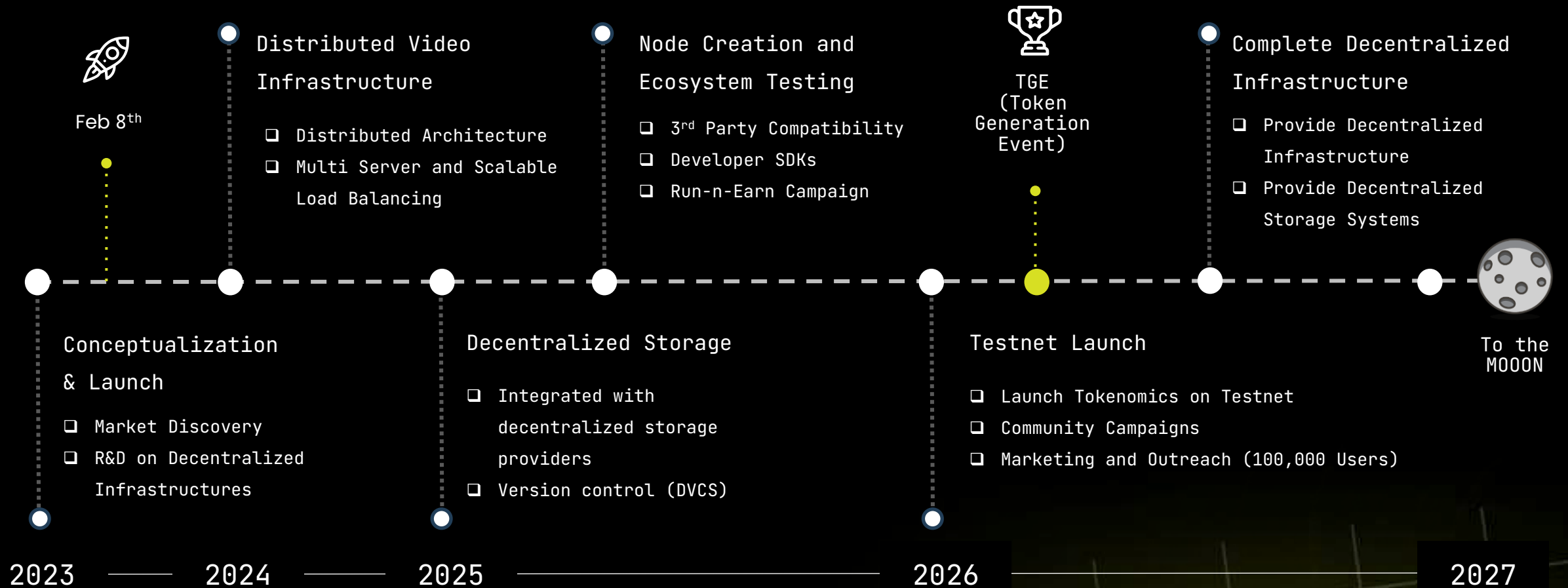
Zain Hasan  
**Msc** Cyber Security  
Researcher



Decast.Live

Working to create the world's first  
**serverless live casting dapp.**

# Roadmap



Decast.live

# Our Achievements and Awards

## [EUvsVirus \(EU Commission\) Hackathon](#)

### Challenge Winner

(June 2020): Won at the largest global hackathon, developing Decast (formally known as VideoWiki) to provide secure, accessible content creation. [\[Read more\]](#)

### World Summit Awards Nominee

(September 2020): Nominated for creating social impact via decentralized communication. [\[Read more\]](#)

## [WomenInCloud AI Solutions](#) Semi-finalists

(October 2020): Solving SDG Global Goals through AI. [\[Read more\]](#)

## Winners [DigiEduHack by EIT Digital KIC](#)

### Timisoara edition

(November 2020): Innovating digital education solutions. [\[Read more\]](#)

### HackBack Overall Winner

(May 2020): Secured first prize and UX award for user-friendly design. [\[Read more\]](#)

## DFINITY Foundation Finalist

(December 2020): One of 8 finalists selected to build scalable dapps on the Internet Computer. [\[Read more\]](#)

## Winners of Climate KIC Romania:

Winners Recognized for climate-focused solutions. [\[Read more\]](#)

## Partnership with SWARM

(January 2022): Established partnership with SWARM, to integrate decentralize storage. [\[Read more\]](#)

## Grant Awardees from Sia

(April 2024): Integrated Sia for decentralized and tamper-proof storage solutions. [\[Read more\]](#)

## Partnership with Partisia Blockchain

(July 2024): Collaborating with Partisia for enhanced privacy and decentralized services. [\[Read more\]](#)

## Upcoming Partnership with SKALE

(October 2024) : In the process of partnering with SKALE to strengthen DePIN. [\[Read more\]](#)



# Decast.Live

## Other Projects deployed...



Immersive Video Encyclopedia.

Launched during the COVID-19 pandemic to help educators quickly convert text into videos, bridging gaps in remote learning.

- Community-maintained video knowledge platform
- Co-editing with decentralized Version control



A GenAI tool to enhance learning retention.

Designed to help students retain knowledge through personalized revision content and assist educators with automated assignment grading.

- Personalized AI assistants for learners
- Automated knowledge synthesis



A team building and decision-making App.

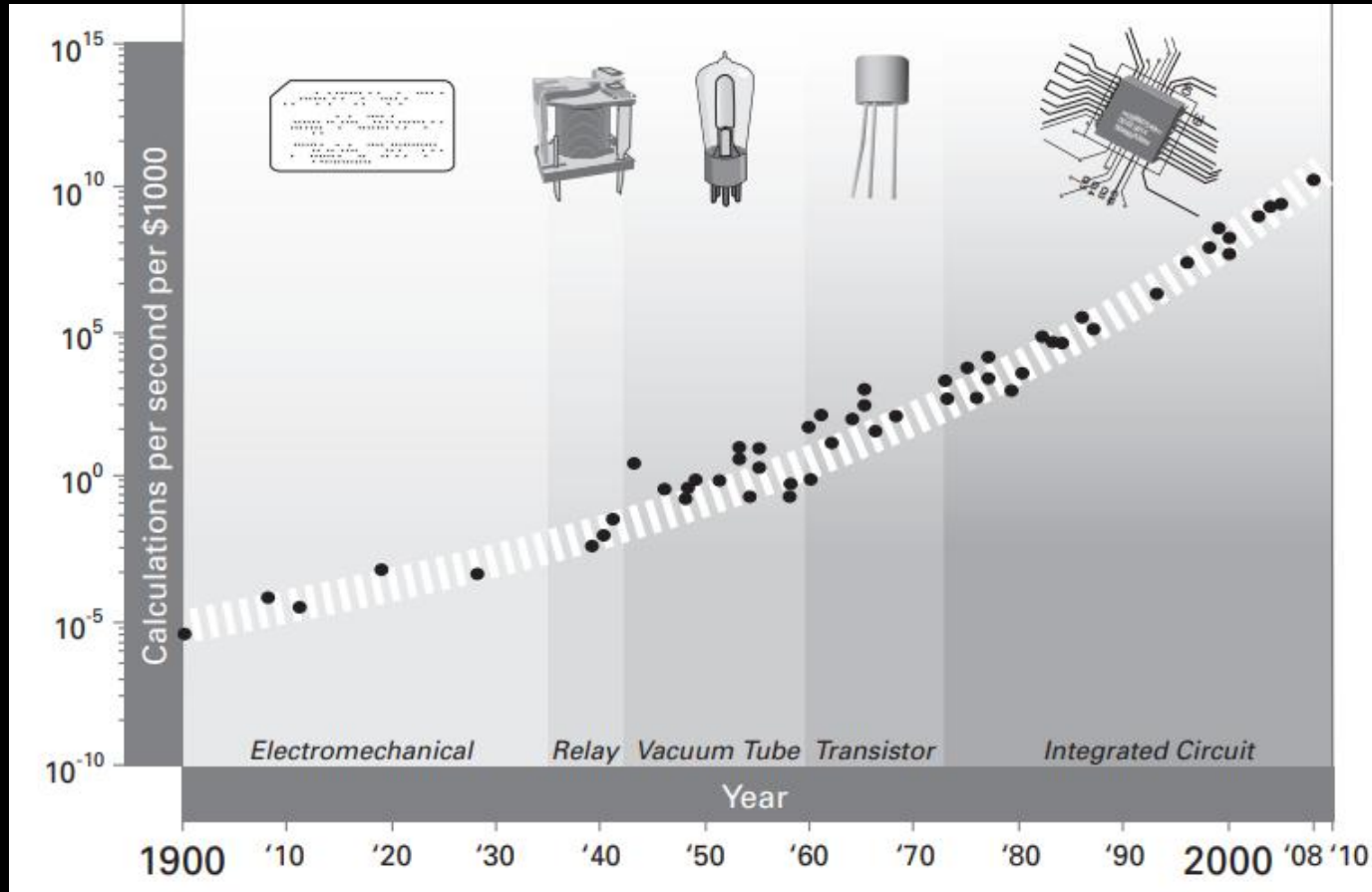
Make your teams more productive, with team insights & work on actionable network Visuals.

- AI-powered decision-making for remote teams
- Workplace productivity and workflow automation



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## Exponential Growth of Computing for 110 Year



**In 1978, a commercial flight** between New York and Paris cost around \$900 and took seven hours. If the principles of Moore's Law had been applied to the airline industry the way they have to the semiconductor industry since 1978, that flight would now cost about a penny and take less than one second.

Moore's Law was the Fifth, not the First, Paradigm to Bring Exponential Growth in Computing



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# Thank You :)

Building Learning Ecosystems with  
**Human** and **Machine** Integrated Networks.



**Leren Leren Unipessoal**

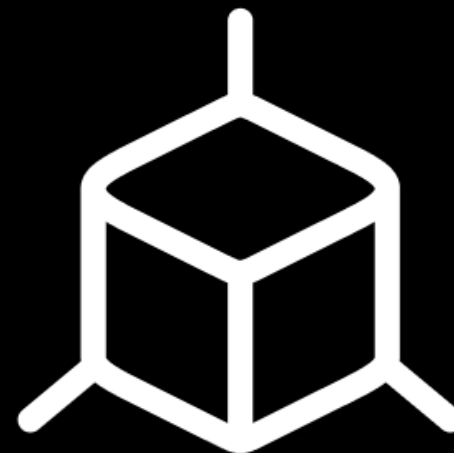
Company VAT/NIPC: 517383861

Address: PCI - Creative Science Park, Rua Do Conhecimento,  
Aveiro Region, 3830-352 Ílhavo, Portugal



**Decast.live**

**FAIR**



**EQUITABLE**

**SAFE**