



# CESS Network

The Decentralized Data Infrastructure

## Episode 3: CESS Ecosystem and Applications



<https://www.cess.network>



# Course Logistics

Course Website: <https://course.cess.network/>

**Episode 1** ----- CESS Network Introduction

**Episode 2** ----- CESS Architecture & Key Technologies

**Episode 3** ----- CESS Ecosystem and Applications

**Episode 4** ----- CESS Nodes & CESS Account Setup

**Episode 5** ----- Demo: Running a Consensus Node

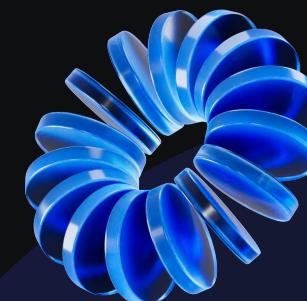
**Episode 6** ----- Demo: Running a Storage Node

**Episode 7** ----- CESS DeOSS and DeOSS REST API

**Episode 8** ----- dApp Development using ink! Smart Contract

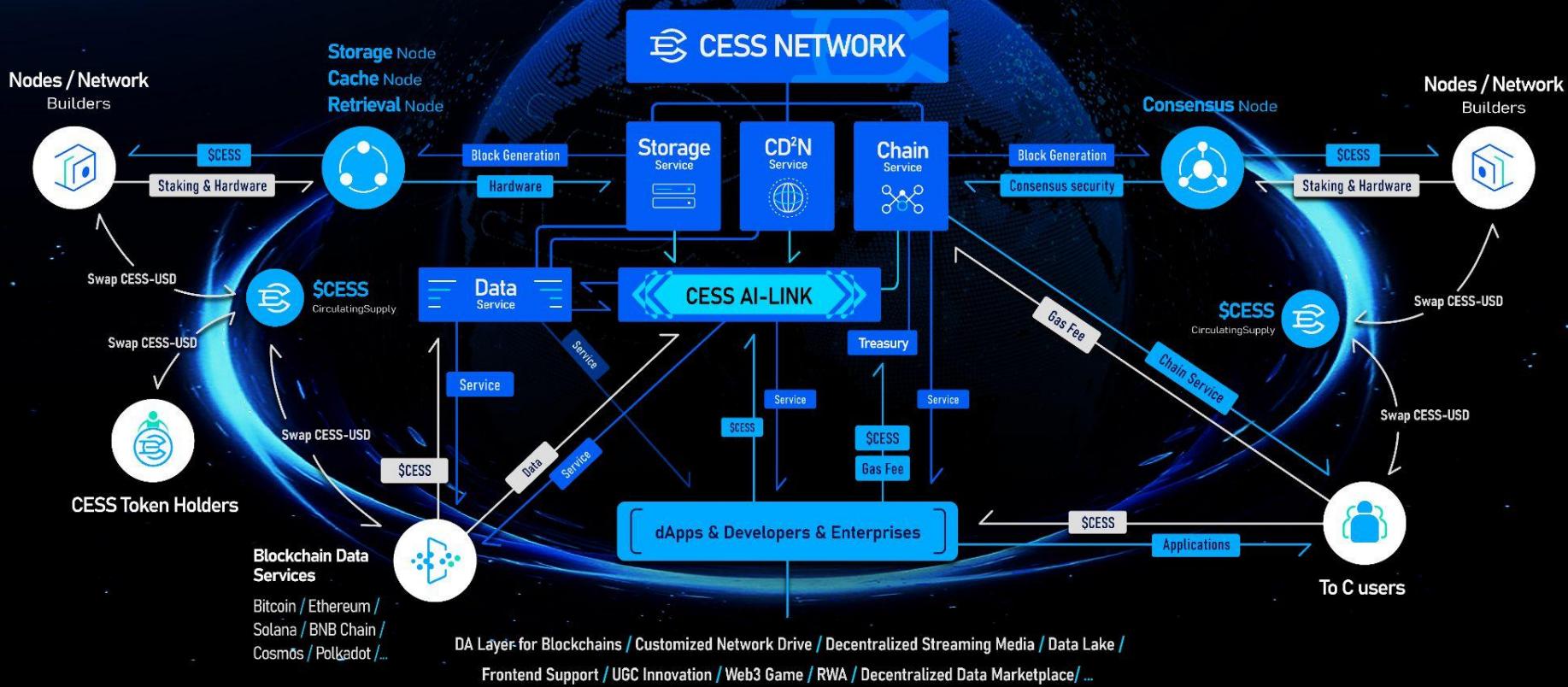
**Episode 9** ----- dApp Development using Solidity Smart Contract

**Episode 10** ----- Building Custom Pallet





# CESS Ecosystem



# CESS Ecosystem Role 1: Node / Network Builders



## ◦ Infrastructure Contribution

Deploys and maintains nodes to support the CESS network's infrastructure. Which includes Consensus Nodes, Storage Nodes, Cache Nodes and Retrieval Nodes.

## ◦ Network Stability

Ensures the stability and reliability of the network by providing consistent and reliable node performance.

## ◦ Requirements

Requires hardware resources to set up and some technical knowledge to maintain nodes.

## ◦ Participation

Involved in network governance, influencing decisions on protocol updates, secures network, ensures data availability and sovereignty, and many more...



# CESS Ecosystem Role 2: Developers



## DApp Development

- Build and deploy Smart Contracts on CESS
- Using Ink! or Solidity for smart contracts
- Create Decentralized Applications Leveraging CESS SDKs (Go, Javascript, Rust) and REST APIs
- Utilize Decentralized CESS Storage and CD<sup>2</sup>N to Secure and Scale applications while preserving Privacy and Sovereignty

## Support and Resources

- Access to comprehensive development tools
- SDKs and REST APIs
- Strong community support for guidance
- CESS Course and Documentation

## Benefits

- Bounties, Grants
- Hackathons
- Project Incubation

# CESS Ecosystem Role 3: Users



## Interacting with CESS Network and DApps

- Engages with a variety of decentralized applications (DApps) built on the CESS platform.
- Uses DApps for different purposes such as finance, social networking, and content sharing.
- Benefits from the seamless integration of CESS's decentralized storage with DApps.
- Enjoys enhanced user experience with faster and more secure interactions with DApps.
- Takes advantage of lower storage costs compared to traditional centralized services.

## Data Storage & Retrieval

- Stores personal or organizational data securely on the CESS network.
- Utilizes decentralized storage solutions for better privacy, security and data sovereignty.
- Easily retrieves stored data with high availability and reliability.
- Benefits from efficient data access through CESS's integrated CDN and P2P technologies.

## Privacy and Security

- Gains control over personal data privacy with privacy management.
- Enjoys enhanced data privacy, integrity and security through encryption and sharding.

# CESS Ecosystem Role 4: Community Members and CESS DAO

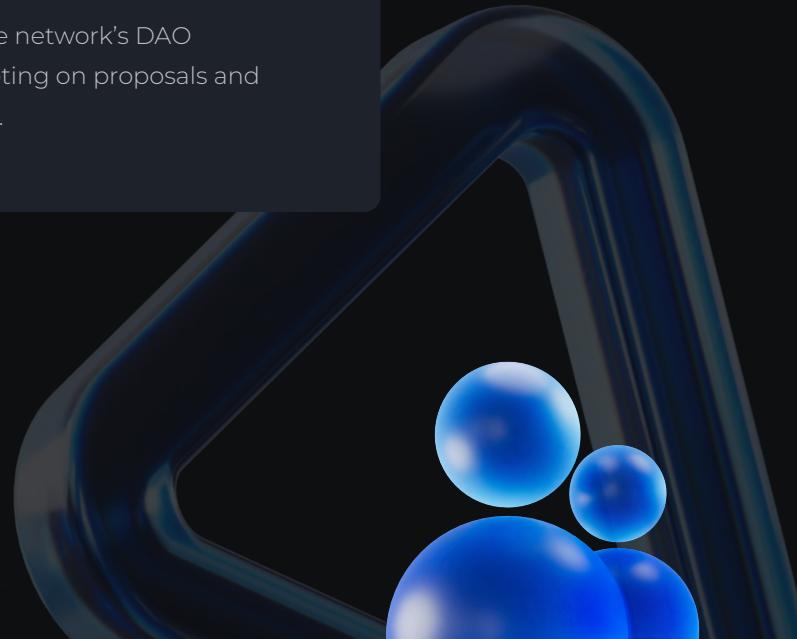


## Economic Influence

- Participate in Community activities and Contributions
- Obtain Community Identity

## Governance Voting

- Participates in the network's DAO governance by voting on proposals and protocol changes.



# CESS Ecosystem Role 5: Agency



## Pivotal Participant with Multiple Roles and Responsibilities

Data Service Provider

Service Provider - Consulting,  
Support and Training

Developer and CESS Service

Integrator Node Operator

# How to Participate in the CESS Ecosystem



## CESS Ecosystem Participation

1. Participate in CESS Testnet v0.7.7
2. Become a CESS Node
3. CESS DAO Cloud Mining
4. CESS Course
5. Ambassador Program
6. CESS Bounty and Grants
7. CESS Events

# CESS Ecosystem Participation 1: Participate in CESS Testnet v0.7.7



## Early Access

- Participate in CESS testnet
- Early Access to new Features and Updates

## Bugs Reporting

- Help identify and report bugs
- Contributing to stability and improvement of the network

## Feedback

- Provide feedback on user experience, performance, and functionality

## Rewards For

Participate in Testnet Activities

Completing Tasks



# CESS Ecosystem Participation 2: Become a CESS Node



## Early Participation

- Join cloud mining campaigns to participate in the CESS network early and earn rewards. Consensus Node or Storage Node.

## Decentralized Governance

- Participate in the decentralized governance of the CESS network, influencing decisions on protocol updates and policies

## Incentives

- Earn incentives for contributing storage space and participate in consensus mechanisms

# CESS Ecosystem Participation 3: CESS DAO Cloud Mining



## Community-Led

- Initiated by CESS DAO, this campaign empowers early community members to contribute actively to the CESS network.
- The objective is to fortify and enrich the CESS data value network, fostering a vibrant, inclusive, secure, and privacy-focused data economy.

## Benefits

- Mining Rewards: Participants (50,000 CM @ 0.05Eth/CM) will share 10% of the mining rewards of the CESS network storage power during its first year (365 days after TGE).
- Transparency: CESS DAO will announce the storage power address and the mining income address after the mainnet launches.
- Exclusive Perks: Participants receive special identity markers, access to whitelists, and early beta testing of upcoming products.
- Benefits commence as soon as the CESS mainnet launches and Nodes become active to generating daily rewards.

## Duration of Benefits

# CESS Ecosystem Participation 4: CESS Course



## YOU ARE HERE!

### Educational Resources

- Access comprehensive educational resources to learn about CESS, its architecture, and its applications

### Structured Learning

- Follow a structured course with episodes covering various aspects of CESS, from network introduction to advanced dApp development

### Hands-On Experience

- Gain practical experience by completing assignments, projects, and participating in demos

### Certification

- Earn certification upon course completion, demonstrating proficiency in CESS technologies and applications

# CESS Ecosystem Participation 5: Ambassador Program



## Community

- Help users in Discord.
- Organize meetups & events in local communities.

## Technical

- Contributing Code and Engaging in Code Reviews
- Hosting Workshops and Webinars
- Developing Tools & Plugins

## Content

- Creating Technical Contents
- Localizing Documentation

## Perks and Incentives



Token Incentives & Swags



Gain Influence



Personal Development



Access CESS Resources

[Join Our Ambassador Program](#)

# CESS Ecosystem Participation 6: CESS Bounty and Grants



## Project Funding

- Apply for grants to fund innovative projects and research that contribute to the CESS Ecosystem

## Bounties

- Participate in bounty programs to earn rewards for completing specific tasks - bug fixes, feature development, community engagement, etc

## Collaboration

- Collaborate with other developers and researchers to create impactful solutions using CESS Technologies

## Recognition

- Gain recognition for contributions and secure long-term partnerships

# CESS Ecosystem Participation 7: CESS Events



## Hackathons

- Participate in hackathons to showcase innovative solutions and develop new applications using CESS technologies.
- Compete for exciting prizes and gain recognition within the CESS community. Winners may have the opportunity to implement their solutions in the CESS network.

## Twitter Spaces

- Join regular Twitter Spaces to engage with the CESS community, project leaders, and developers.
- Participate in discussions about the latest developments, upcoming features, and technical insights, helping you stay informed and contribute your ideas.

## Conferences

- Attend conferences to connect with industry leaders, partners, and other CESS enthusiasts.
- Learn about CESS's latest advancements, success stories, and future plans. Contribute to discussions on trends and challenges in decentralized storage and blockchain.

# CESS Events



[Explore Full List Of CESS Events](#)

# Applications



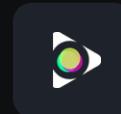
Decentralized Video-sharing  
Platform:  
[TellyWelly](#)



Decentralized Cloud Storage:  
[DeCloud](#)

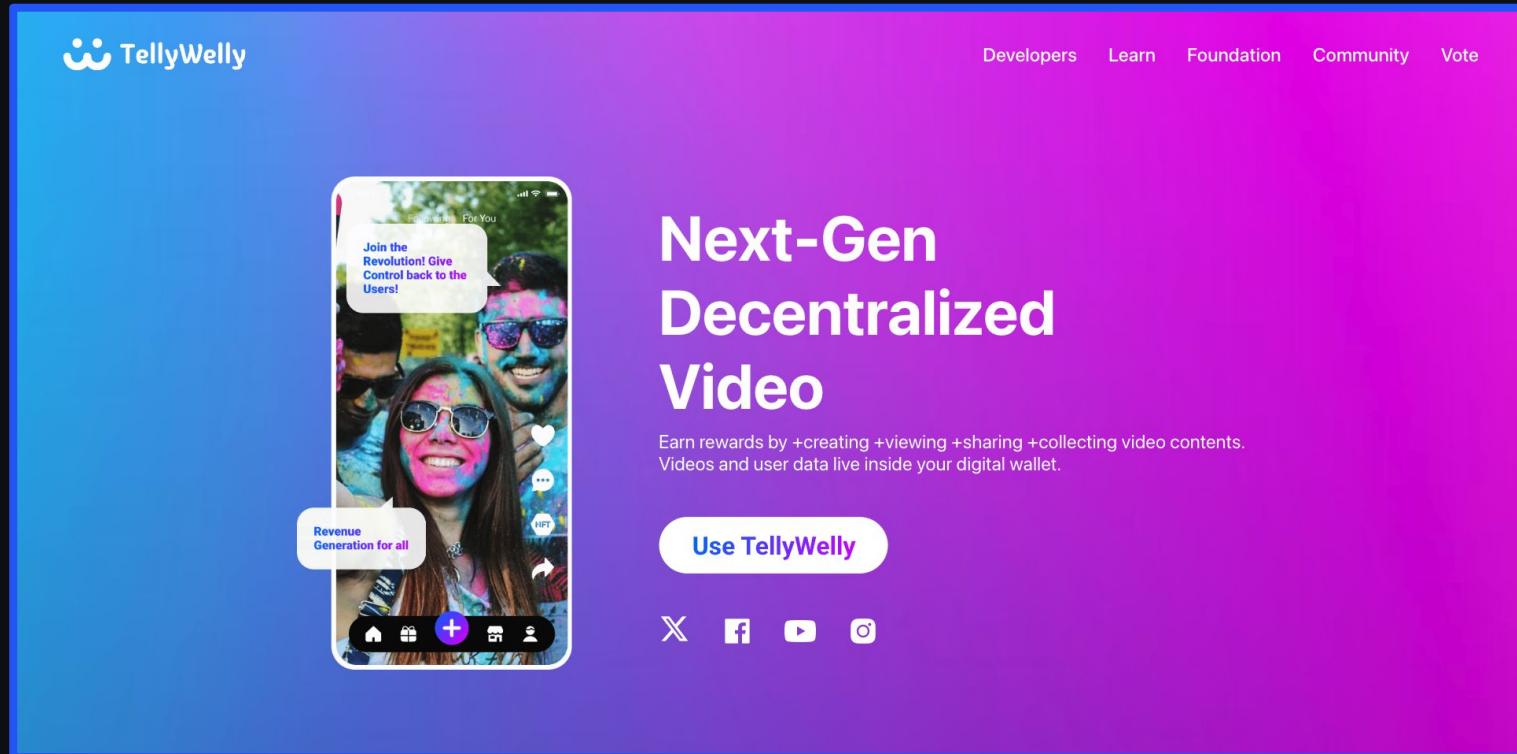


Quickly share file via CESS:  
[DeShare](#)



Decentralized Video Marketplace  
[Videown](#)

# Applications: TellyWelly

A screenshot of the TellyWelly mobile application. The screen shows a video player with two people covered in colorful powder. A speech bubble on the screen says "Join the Revolution! Give Control back to the Users!". Another speech bubble at the bottom left says "Revenue Generation for all". The app's navigation bar at the bottom includes icons for home, gifts, a plus sign, a house, and a person.

**TellyWelly**

Developers Learn Foundation Community Vote

Join the Revolution! Give Control back to the Users!

Revenue Generation for all

Next-Gen Decentralized Video

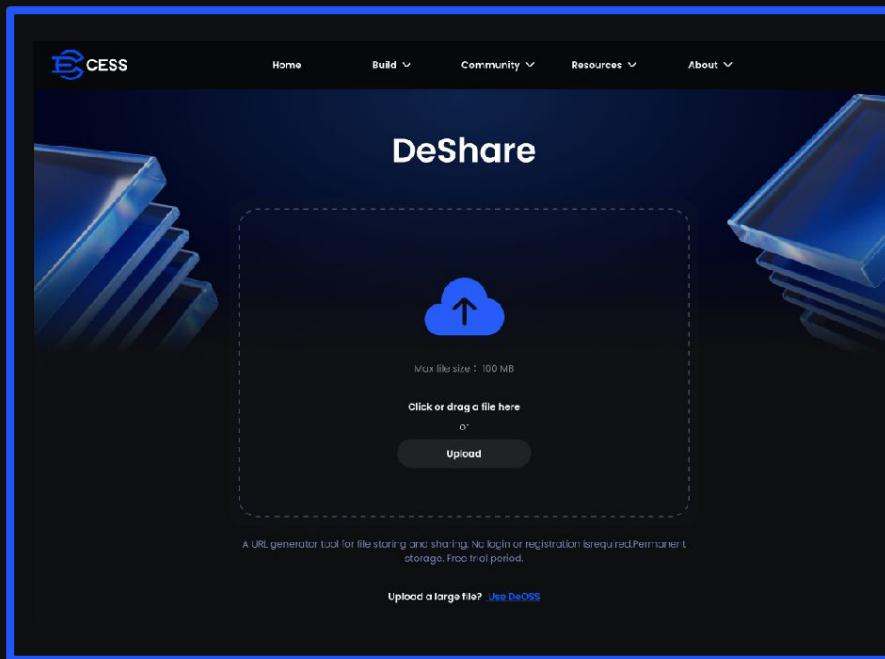
Earn rewards by +creating +viewing +sharing +collecting video contents. Videos and user data live inside your digital wallet.

Use TellyWelly

X f YouTube Instagram

# Applications: DeShare

A URL generator tool for file storing and sharing



The screenshot shows the DeShare application interface. At the top, there is a navigation bar with links for Home, Build, Community, Resources, and About. The main title "DeShare" is centered above a large blue cloud icon with an upward arrow. Below the icon, it says "Max file size : 100 MB" and "Click or drag a file here". There is also an "Upload" button. A note at the bottom states: "A URL generator tool for file storing and sharing. No login or registration is required. Permanent storage. Free trial period." At the bottom left, there is a link "Upload a large file? Use DeOSS".

- Supports most file formats for link generation and storage.
- No login or registration required.
- Permanent storage.

Experience now!



# Applications: DeCloud



Data Access. Anytime. Anywhere.

A screenshot of the deCloud application interface. The top navigation bar includes the 'deCloud' logo, the 'CESS' logo, a search bar with the placeholder 'Search file by Fid', and a magnifying glass icon. On the left, a sidebar lists 'Discover', 'My Files', 'Reward', and 'Account' with corresponding icons. Below the sidebar, it shows '2.16 GB / 51.00 GB' available space and 'Available 37 days'. An 'Upgrade' button is at the bottom of this section. The main content area features a large, abstract purple and black marbled background image. In the center, the text 'Invite friends to share files' is displayed. Below this, a section titled 'Videos' shows five movie thumbnails: 'MADAME WEB', 'PROTELLA', 'INTERSTELLAR', 'THE LITTLE MERMAID', and 'CHARLIE AND THE CHOCOLATE FACTORY'. A 'more' button is located to the right of the fifth thumbnail.

deCloud

CESS

Search file by Fid

Discover

My Files

Reward

Account

2.16 GB / 51.00 GB

Available 37 days

Upgrade

Videos

MADAME WEB

PROTELLA

INTERSTELLAR

THE LITTLE MERMAID

CHARLIE AND THE CHOCOLATE FACTORY

more

# Applications: Videown



Decentralized Video NFT Marketplace

The screenshot displays a grid of nine video NFT listings on the Videown platform. Each listing includes a thumbnail image, view count, upload date, title, creator, and price in TCESS.

Thumbnail	Views	Date	Title	Creator	Price (TCESS)
	74	March 22/23	DUKE UNIVERSITY WEB3 CONFERENCE	test5	5TC
	34	March 22/23	DW3C TEASER	cXhxt...33ndZ	1TC
	37	Hi today		cXhxt...33ndZ	1TC
	29	Du 3840x2160 98.3MB 24 Frames		cXiq8...226cv	88888TC
	24	Du 15.07s 3840x2160 96MB 24 Frames		cXiq8...226cv	88888TC
	26	Du 1920x1080 17.3MB 24 Frames		cXiq8...226cv	88888TC
	42	Ava 1920x1080 40.5MB 24 Frames		cXiq8...226cv	88888TC
	30	Duke University Web3 Conference		cXiNx...S7Rvo	9999999TC



# Thank you for watching

Please Join Our Community





# CESS Network - Episode 3

CESS Ecosystem and Applications



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