

Project Development Phase

Debugging & Traceability

Team ID	NM2023TMID04427
Project Name	Project – Tracking Public Infrastructure And Toll Payments Using Blockchain

Blockchain Makes Road Tolls More Secure



Global technology and consulting company Indra has added a new capability to its payment system for road tolls: the recording of transactions on a blockchain. Developed as part of the EU-funded CRITICAL-CHAINS project, this capability will

increase the transparency and traceability of toll transactions. The pilot solution is being deployed on a highway in Mexico.

Fraud and cyberattacks on road toll systems affect both road owners and users. For road users, they mainly come in the form of fraudulent emails claiming recipients failed to pay for using a toll road. However, road owners are impacted by a wider range of scams, including the use of counterfeit fuel and credit cards to pay tolls, hacked toll systems and the failure of concessionaires to record all toll payments. The CRITICAL-CHAINS partner is offering a solution to this problem.

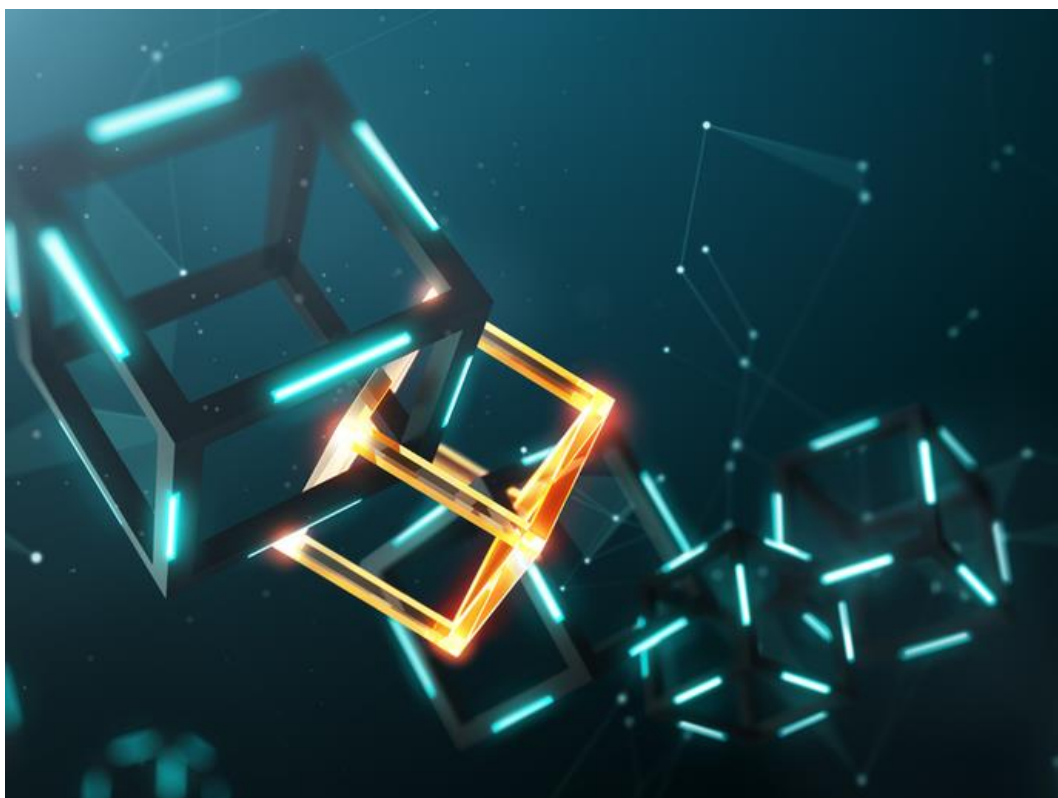
Multiple Benefits

To cover all parties, back office toll systems should be able to ensure transactional integrity, clearing between operators, payments to the central entity, financial auditing and fraud control. According to a [news item](#) posted on Indra's website, incorporating blockchain into related processes and transactions "allows to reduce conflicts between the different participants due to possible disagreements, protects against possible cyber-attacks, and it also facilitates settlement and auditing tasks."

The benefits of this robust solution would be especially evident in electronic toll collection systems and in situations where there are multiple concessionaires. To validate this solution, Indra has partnered with infrastructure multinational Roadis and will be testing the technology on the Monterrey-Salttillo highway in Mexico.

Getting royalties to film content creators

When it comes to calculating and reporting royalties and revenues, the film industry is surprisingly slow, reluctant to digitise and reliant on error-prone payment processes. Up to 30 % of film and TV revenues are under-reported, and payments are delayed for years, or never even made at all. Added to that are the creative accounting methods that middlemen use to keep revenue flows obscure for their own financial benefit.



New partnerships

At the 2022 Berlin International Film Festival, the London-based FilmChain announced two new partnerships, one of which is with Alamode Film Distribution, Germany. In this partnership, FilmChain has been tasked to handle royalties on the horror film *Dark Glasses* directed by Italian filmmaker Dario Argento.

New investments

FilmChain's innovative technology has drawn a first round of investments by Romanian venture capital firm ROCA X. This first round is aimed at helping the company scale its sales, increase its customer base and expand its services in the United States. "The film industry is now at a stage where content creators are becoming more and more independent – from lower production costs to the opening of new distribution channels through streaming platforms, technology is becoming more flexible and decentralized in line with the trend of the creator economy. Certainly, based on team experience, product usefulness and real market needs, FilmChain has the opportunity to become a world-leading player in the entertainment industry," remarks ROCA X's Investment Manager Bogdan Pashko