

# 50+ BLOCKCHAIN REAL WORLD USE CASES

**GOVERNMENT**

Essentia develops world's first blockchain solution to manage international logistics hub together with Traffic Labs and the Finnish Government

essentia.one

**IDENTIFICATION**

Voter registration is being facilitated via a blockchain project in Switzerland spearheaded by Uport.

uport

**MOBILE PAYMENTS**

The blockchain ledger that Ripple uses has been latched onto by a group of Japanese banks, who will be using it for quick mobile payments.

ripple

**INSURANCE**

A smart contract-based blockchain is being used by insurer American International Group Inc as a means of saving costs and increasing transparency.

AIG

**ENDANGERED SPECIES PROTECTION**

The protection of endangered species is being facilitated via a blockchain project that records the activities of these rare animals.

**CARBON OFFSETS**

IBM is using the Hyperledger Fabric blockchain in China to monitor carbon offset trading.

IBM

**ENTERPRISE**

Ethereum's blockchain can be accessed as a cloud-based service courtesy of Microsoft Azure.

Microsoft Azure

**BORDER CONTROL**

Essentia has devised a border control system that would use blockchain to store passenger data in the Netherlands.

essentia.one

**SUPPLY CHAINS**

IBM and Walmart have partnered in China to create a blockchain project that will monitor food safety.

IBM Walmart

**HEALTHCARE**

A number of healthcare systems that store data on the blockchain have been pioneered including MedRec.

MEDREC

**SHIPPING**

Shipping is a natural fit for blockchain, and Maersk have been trialling a blockchain-based project within the maritime logistics industry.

MAERSK

**REAL ESTATE**

Blockchain is now being used to complete real estate deals, the first of which was conducted in Kiev by Propy.

PROPY

**ENERGY**

Essentia is developing a test project that will help energy suppliers track the distribution of their resources in real time, whilst maintaining data confidentiality.

essentia.one

**LAND REGISTRY**

Land registry titles are now being stored on the blockchain in Georgia in a project developed by the National Agency of Public Registry.

PUBLIC REGISTRY

**COMPUTATION**

Digital Currency Group are helping Amazon Web Services examine ways in which the distributed ledger technology can help improve database security.

DIGITAL CURRENCY GROUP

**ADVERTISING**

New York Interactive Advertising Exchange has been experimenting with blockchain as a means of providing an ads marketplace for publishers.

NYIAX

**BORDER CONTROL**

Essentia is developing a blockchain project for border control that will allow customs agents to record passenger data from an array of inputs and safely store it.

essentia.one

**JOURNALISM**

Decentralized journalism, as enabled by blockchain technology, has the potential to prevent censorship and increase transparency, as Civil has shown.

CIVIL

**WASTE MANAGEMENT**

Waltonchain is using RFID technology to store waste management data on the blockchain in China.

**ENERGY**

Food importation is another industry where blockchain is proving its worth, with Louis Dreyfus Co trialling a soybean importation operation using this technology.

LDC

**DIAMONDS**

The De Beers Group is using blockchain to track the importation and sale of diamonds.

DE BEERS

**FINE ART**

By storing certificates of authenticity on the blockchain, it's possible to dramatically reduce art forgeries, as one blockchain project is proving.

**NATIONAL SECURITY**

For the past two years, the US Department of Homeland Security has been using blockchain to record and safely store data captured from its security cameras.

**TOURISM**

In a bid to boost its tourism economy, Hawaii is examining ways in which blockchain-based cryptocurrencies can be adopted throughout the US state.

**TAXATION**

In China, a tax-based initiative is using blockchain to store tax records and electronic invoices led by Miaocai Network.

**ENERGY**

Chile's National Energy Commission has started using blockchain technology as a way of certifying data pertaining to the country's energy usage as it seeks to update its electrical infrastructure.

CNE COMISIÓN NACIONAL DE ENERGÍA

**RAILWAYS**

Russian rail operator Novotrans is storing inventory data on a blockchain pertaining to repair requests and rolling stock.

HOBOTPAHC

**ENTERPRISE**

Google is building its own blockchain which will be integrated into its cloud-based services, enabling businesses to store data on it, and to request their own white label version developed by Alphabet Inc.

Google Alphabet

**MUSIC**

Arbit is a blockchain-based project led by former Guns N Roses drummer Matt Sorum seeking a fairer way to reward musicians for their creative efforts.

arbit

**FISHING**

Blockchain technology has been used to provide a transparent record of where fish was caught, as a means of ensuring it was legally landed.