

HOW IBM BLOCKCHAIN CAN IMPROVE GOVERNMENT SERVICES AND ENSURE TRUST

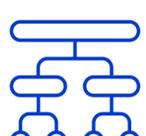
Serve citizen needs, fight fraud and help meet compliance demands through trusted, immutable records with IBM Blockchain



Government agencies provide services—from issuing identification to registering property, administering public elections and enforcing laws—that require deep trust from citizens. Earning that trust requires meticulous data stewardship; efficient, permissioned data sharing and authentication; and carefully crafted privacy protections.

And government services face challenges like no other domain: data architects, administrators and privacy officers must protect citizens' personal information, yet keep vital information accessible when needed. Scale complicates life for government administrators, too: the vast scope of mandated services, and the huge workforces needed to provide them, open the door for fraud, waste and abuse—and invite simple but significant errors in vital public records.

IBM experts and technology can help buyers leveraging blockchain technologies tackle these compounding challenges and clear paths to even more intelligent data use.



Let's examine how IBM Blockchain can help address some of the most important tasks facing government bodies.

Supply chain:



Whether it's a replacement street sign, an emergency generator or a needed component for a scientific instrument, the ability to track and trace where an object is in the supply chain is vital with large-scale government purchasing systems.



Limited visibility can lead to waste through over-ordering—or failure to meet critical needs because of unanticipated shortages. Late delivery can lead to significant losses across the range of government services, from military operations to municipal services.

Solutions

With IBM Blockchain, an object's precise location within the supply chain, and its accompanying digitized documentation, can be made part of a traceable permanent record, reducing uncertainty and increasing your ability to plan for infrastructure needs, even with lean budgets.

Asset registration:



Accurate and accessible government records for real estate as well as personal property—tracking the provenance and attributes of everything from automobiles to land—are crucial for smooth financial transactions, for accurate tax records, and for verifying ownership in legal disputes.

Today's registries, though, suffer from slow, duplicative processes and a reliance on error-prone, incomplete and manual data entry.

Solutions

By linking ownership to other attributes in a unitary record collection mediated with IBM Blockchain tools, agencies can not only gain efficiency, but can also gain deeper citizen trust in publicly held property records, without disrupting existing registry data, making a good case for digital transformation in citizen services.

Fraud prevention and compliance:



Fraud, information privacy abuse and accidental data exposure plague government data transactions. Siloed legacy systems, limited resources and cumbersome processes mean mistakes are made and oversight is neglected—especially when data must cross agency borders.

And citizens spend too much time entering duplicative data. That data should reside in one place, authenticated by government but controlled by the individual, and with permissioned access granted to government agencies as needed.

Solutions

IBM Blockchain offers ways to increase process efficiency through intelligent workflow design and data aggregation, especially for data shared across agencies. Linked, shareable data collections mean that mandates such as the European Union's General Data Protection Regulation (GDPR) can be more easily met.

Identity services:



From licensure to passports to publicly funded medical services, establishing and verifying identity is vastly important for both citizens and government agencies themselves. The financial and personnel costs of providing rigorous identity services, though, are enormous.

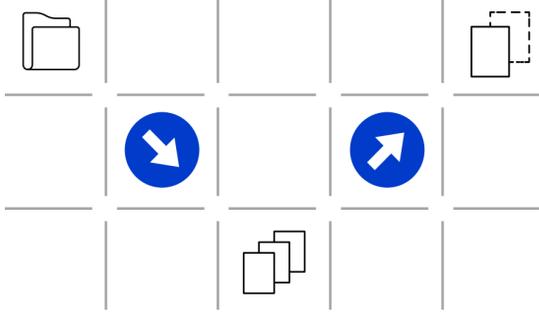
The great need for identification documents and verification of existing credentials arises partly from the difficulty in linking enough verifiable personal data on which to base any kind of government-issued identification. What sounds like a simple task is complicated by records in different formats, of varying provenance, and containing sometimes conflicting data.

Solutions

With IBM Blockchain, government agencies can create a single, trustworthy collection of identity and authentication documents. Across and within government agencies, fewer hours will be spent reconciling data conflicts while minimizing the steps citizens need to take advantage of the data they have provided.

How IBM Blockchain helps governments—and citizens

IBM Blockchain helps government leaders and agencies confidently create a framework of linked data records—an immutable ledger—that preserves vital information in a distributed, highly available form based on trust and transparency, even at the largest scales.



IBM Blockchain leverages advanced cryptography to create permissioned records, ranging from personal identification to registered property transactions, available to authorized members of the blockchain network such as tax authorities or other government agencies.

Blockchain also allows advanced, automated smart contracts to help govern processes and business flows that are agreed upon by the consensus network.



Learn more

Only IBM has worked with more than 400 clients globally and across industries from design to implementation. Our experts and technology can help you achieve tangible outcomes to improve social services, drive leaner operations and reduce risk. Visit ibm.com/blockchain to explore more.



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