

Blockchain Applications in Supply Chain Management

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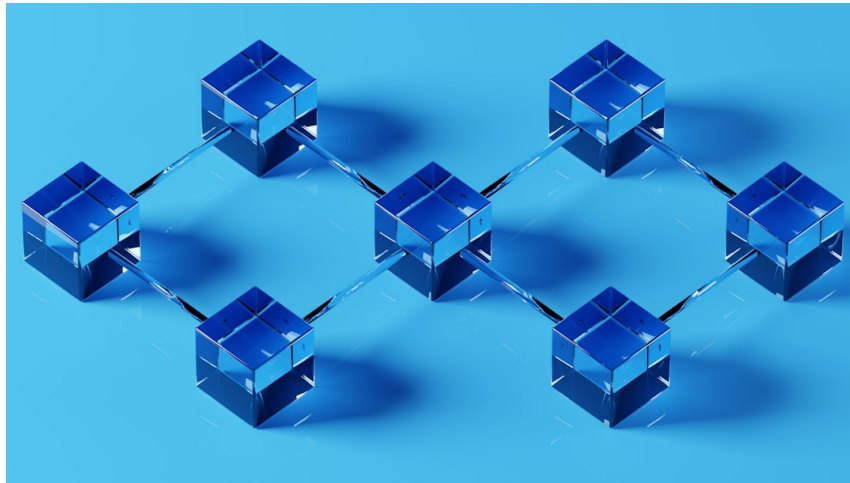


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Blockchain technology offers a tamper-resistant ledger for recording transactions across distributed networks. In supply chains, this means every movement of goods — from raw material sourcing to final delivery — can be logged in a shared, immutable record accessible to all authorized participants. Unlike traditional databases controlled by a single entity, blockchain distributes data across multiple nodes, making unauthorized alterations computationally impractical.

Tracking and Traceability

One of the clearest use cases is product traceability. Walmart, in partnership with IBM Food Trust, deployed a blockchain system to trace leafy greens back to their farm source. Before implementation, tracing a product took about seven days. With blockchain, the same process takes seconds. Each step — harvest, processing, shipping, retail — is recorded with a timestamp and location, allowing rapid identification of contamination sources during food safety incidents.

Marsk and IBM developed TradeLens, a blockchain platform that digitized shipping documentation across ports, customs agencies, and freight forwarders. The system reduced paperwork delays and improved visibility into container locations. Although TradeLens was discontinued in 2022 due to insufficient industry-wide adoption, it demonstrated that blockchain could reduce transit times and administrative costs when multiple parties commit to the same platform.

Smart Contracts and Automation

Smart contracts are self-executing code stored on a blockchain that trigger actions when predefined conditions are met. In supply chains, a smart contract can automatically release payment to a supplier once a shipment's delivery is confirmed by an IoT sensor or a third-party verification. This removes the need for manual invoice processing and reduces payment delays from weeks to hours.

De Beers uses a blockchain platform called Tracr to verify the provenance of diamonds. Each stone is assigned a digital record containing its carat weight, color, clarity, and chain of custody. Smart contracts enforce compliance requirements at each transfer point, ensuring only certified stones move through the supply chain. This directly addresses the problem of conflict diamonds entering legitimate markets through falsified documentation.

Challenges to Adoption

Blockchain does not solve every supply chain problem. Data entered onto a blockchain is only as accurate as the source providing it. If a supplier logs false information about a product's origin, the blockchain faithfully records that falsehood with the same permanence as accurate data. This is often called the oracle problem — the gap between real-world events and their digital representation.

Scalability remains a technical constraint. Public blockchains like Ethereum process transactions slowly compared to centralized databases. Enterprise deployments typically rely on permissioned blockchains such as Hyperledger Fabric, which sacrifice decentralization for speed and privacy controls. Integration with legacy enterprise resource planning systems also requires significant investment, which limits adoption among smaller suppliers.

Despite these limitations, blockchain provides genuine value in scenarios requiring multi-party trust, regulatory compliance, and audit transparency. Industries handling high-value goods, regulated products, or complex international logistics stand to benefit most from careful, well-scoped implementations.

Read more articles: bip39-phrase.com/smart-contract-evm-what-it-is-and-how-it-works/

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CRYPTOGRAPHIC SEED PHRASES

Below is a set of 91 randomly generated 12-word mnemonic sequences built from the official BIP39 wordlist.

[] coast object few record door supreme park antenna slot upper cattle agent
[] retreat fit make trip maid letter cage bachelor crane faculty album paper
[] sauce task monitor patient reform space all tilt young nurse fetch
biology
[] acquire multiply define frost inch spot tribe ticket purity warm trust
garage
[] average salad enhance pink position cook biology recipe aware figure give
gospel
[] beyond eternal gossip drum century round economy joke police stick length
gadget
[] interest man away long east surprise perfect flight unable blood deal
chaos
[] congress talent adapt item tuna family cream strategy matrix method bone
beauty
[] weasel fine laptop oblige music infant solid degree surge vendor front
town
[] exit fade talk series over hire course toy thought various velvet senior
[] banana nest festival another mail wheel settle guess swap six rabbit
north
[] mammal lunar fatal start female album taxi sight weasel small grocery
gravity
[] thought gravity inherit salon motor inmate spread level tiny damp chase
embark
[] produce upgrade limit future flag artefact brave nephew slide orbit snow
minute
[] sample lizard century primary peasant royal fog acoustic ordinary skirt
oven pioneer
[] harvest unhappy onion stem curtain ten strike rough rare uncover glide
flip

Section 3 • 7 total

CRYPTOGRAPHIC SEED PHRASES

[] stairs harvest leave napkin able fog ship social artist prize praise
identify

[] lesson twist where vote diagram rose diary approve nation flame legend
zero

[] life chimney shove clown unable unlock acid hidden core practice spin any

[] pool jungle swarm salon alert sunset math swing typical empty census
prosper

[] maple during analyst initial rigid wrap elephant attend forget funny
carbon core

[] refuse mean prison mirror pill math predict lottery alert dawn curious
company

[] section guilt wash regret coil anchor priority toast aunt armed hammer
test

[] harsh basket awesome erosion proof budget emotion tuition stomach
response weekend famous

[] lizard bird state print analyst tooth rely twist vacant hurt safe violin

[] time catalog runway business nuclear scrub crew rather mail thank lobster
outside

[] since enjoy play pair similar narrow section word before roof spider knee

[] distance stay baby bubble puppy deer plate chief verb put renew display

[] bacon knee aerobic casual file shine onion foster slot head find tomorrow

[] salute green hint victory jelly attract version inject sketch sing flat
caught

[] fantasy will retreat garden save survey spell kitten order mesh soldier
glory

[] swear lonely track canoe certain stuff frequent border amazing twenty
kitchen train

[] fish fan forest voice sugar ketchup vanish display fog river special this

[] lounge brave priority bench giraffe duck physical pilot giggle inch click
cycle

[] mushroom unfold build choice thank price develop run potato volcano
filter fruit

[] spare myth rib cheese arm leave trade play estate chair jar fatal

[] credit cram prison own cradle volcano chuckle mandate fruit uncover
embrace duck

[] lamp document analyst okay stable scorpion tower ahead weekend pig turkey
brown

[] embark buddy sight blanket dad round mouse velvet inspire nut where chaos

[] spring boy march garlic unlock agent acquire click avoid great media
rebel

[] cheese also ball insect sadness decorate bounce text chest emerge way
fury

[] inquiry polar summer west hungry april guitar bench journey water room
venue

Section 4 • 7 total

CRYPTOGRAPHIC SEED PHRASES

[] hurry hire narrow elephant bench tobacco base bracket cover cross pipe brief

[] wool bonus upper female elevator monster income edge balance skin trap index

[] athlete debris nut saddle suit void cherry used beauty make body rigid

[] add brick gold seek verb fox chronic birth below entry that inside

[] chase connect grant lonely retire sunset tree donkey knock neglect blur ice

[] finish pyramid ribbon soccer pulp raw awful chaos clap flag royal drift

[] ethics move announce helmet team truck rule happy mirror month cover fish

[] cream fault crunch horn nephew mixture century mad remain document erosion divorce

[] ice fury remove general cigar robust wise grunt bag chimney team trip

[] muscle ketchup refuse bright ramp inch soldier adult army explain bomb taxi

[] border attitude catch island razor type chuckle icon oppose fun chronic dynamic

[] grow you auction slot hurt equip surface click spring blossom gravity tuna

[] pilot scissors discover rich lizard ensure vendor hill setup company detail bless

[] comfort seek north rate address enhance perfect annual jazz teach honey kid

[] blouse aspect fault capital idle salon vibrant keen demand piano pigeon fire

[] dose volume have mammal amused coral help attack father verb dwarf minute

[] adjust agree soda security book reward sausage age saddle hood affair nature

[] flower diesel area purchase provide ugly slush rug ugly struggle secret have

[] hood someone polar left sweet solution asset creek chair risk universe involve

[] grace cave quarter ignore relax devote domain picnic plate village list race

[] garbage fade ecology invest foil smart antenna limb elder glance action town

[] advice bubble idle trouble save thank false axis girl rhythm club once

[] rebuild arctic brisk sand hill doll visit detail false orbit sponsor endless

[] helmet aisle warm theory interest pretty menu regret truth company master fancy

[] file alter exist sound exist hazard test brain hole remember regular render

[] either wrap bless race cram wreck father bomb obscure edit stereo nature

Section 5 • 7 total

CRYPTOGRAPHIC SEED PHRASES

[] term drip old evil hurry galaxy notice alert discover control pink answer
[] six smooth catalog rug logic quote powder alley roast crazy october medal
[] call impose exact question sketch able title leaf tourist salon off goose
[] beef admit goose smile welcome choice galaxy couch iron naive festival
tortoise
[] harsh suffer rare decide hamster twenty trick round audit fiscal sail
famous
[] play struggle sail inmate ball conduct immune term sign anxiety west
position
[] era priority icon ensure essence diagram fan young recycle where load
pear
[] link surround tuition little panic coral youth elite bar faculty round
valid
[] extend secret filter refuse evil dynamic profit switch blind coin have
insect
[] survey coil unit wrist priority denial flash labor whale vehicle echo
walk
[] script rose rigid real recycle caution grace swift easy jewel enhance
title
[] multiply dinosaur dial satoshi finger maximum divert task like upper
plastic enough
[] peace spend view purse problem culture daring arch vapor cream flower
topple
[] object comic bamboo small emotion tragic prevent visa rival outer kiss
inside
[] enroll paper stock attract route congress seed reward hint pledge behave
clock
[] penalty jeans base scheme follow dream magnet reject heavy forward nest
hour
[] chuckle old promote tissue alert odor fury close purity rotate cupboard
pony
[] initial submit theme aisle off inherit version casual pumpkin glance
venue unique
[] wear hedgehog rival okay derive inner poet spoon shadow save audit output
[] member paddle pole right absent please all puppy number size prefer give
[] melt deer void mammal quote zebra glide orphan embark question art miss
[] kiss empower drama opera angry barrel twenty harvest vanish torch ten
harbor
[] prefer knife tag endless walk pig elder top lobster urge spray unfair

Section 6 • 7 total

SEE ALSO

- Blockchain in Supply Chain Management — BIP39 Seed Phrases (August 12, 2026) (2026-08-12)
- The Intersection of AI and Cryptocurrency: Transforming the Digital Economy — BIP39 Seed Phrases (June 07, 2026) (2026-06-07)
- Bitcoin's Taproot Upgrade Explained — BIP39 Seed Phrases (June 12, 2026) (2026-06-12)
- Ethereum and Smart Contracts Explained — BIP39 Seed Phrases (April 23, 2026) (2026-04-23)

Educational examples only. Randomly generated, not valid wallet phrases - never use them to store funds. Details:

bip39-phrases.com/security/

Section 7 • 7 total