Polkadot.

A Quick Introduction to Polkadot

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Polkadot

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Bill Laboon is the Head of Education and Grants at the Web3 Foundation. Before this, he was a lecturer in the Computer Science Department of the University of Pittsburgh, teaching courses in software quality assurance, software engineering, and blockchain technology. He is a frequent speaker at conferences on a variety of topics, including cryptocurrency, software quality, and the ethics of software development. He is the author of two books: A Friendly Introduction to Software Testing, an undergraduate textbook; and Strength in Numbers, a near-future novel set in a world in which cryptocurrency has eliminated traditional money. Bill has a BS in Computer Science and Political Science from the University of Pittsburgh, as well as an MS in Software Design & Management from Carnegie Mellon University.

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LEGACY BLOCKCHAINS HAVE VARIOUS LIMITATIONS

CAN'T COMMUNICATE

Legacy blockchains can't easily communicate with each other

CAN'T SCALE

These networks can't handle a lot of traffic

POOR SECURITY

Many networks have been attacked by hackers

NO CUSTOMIZATION

One-size-fits-all application platforms do not work

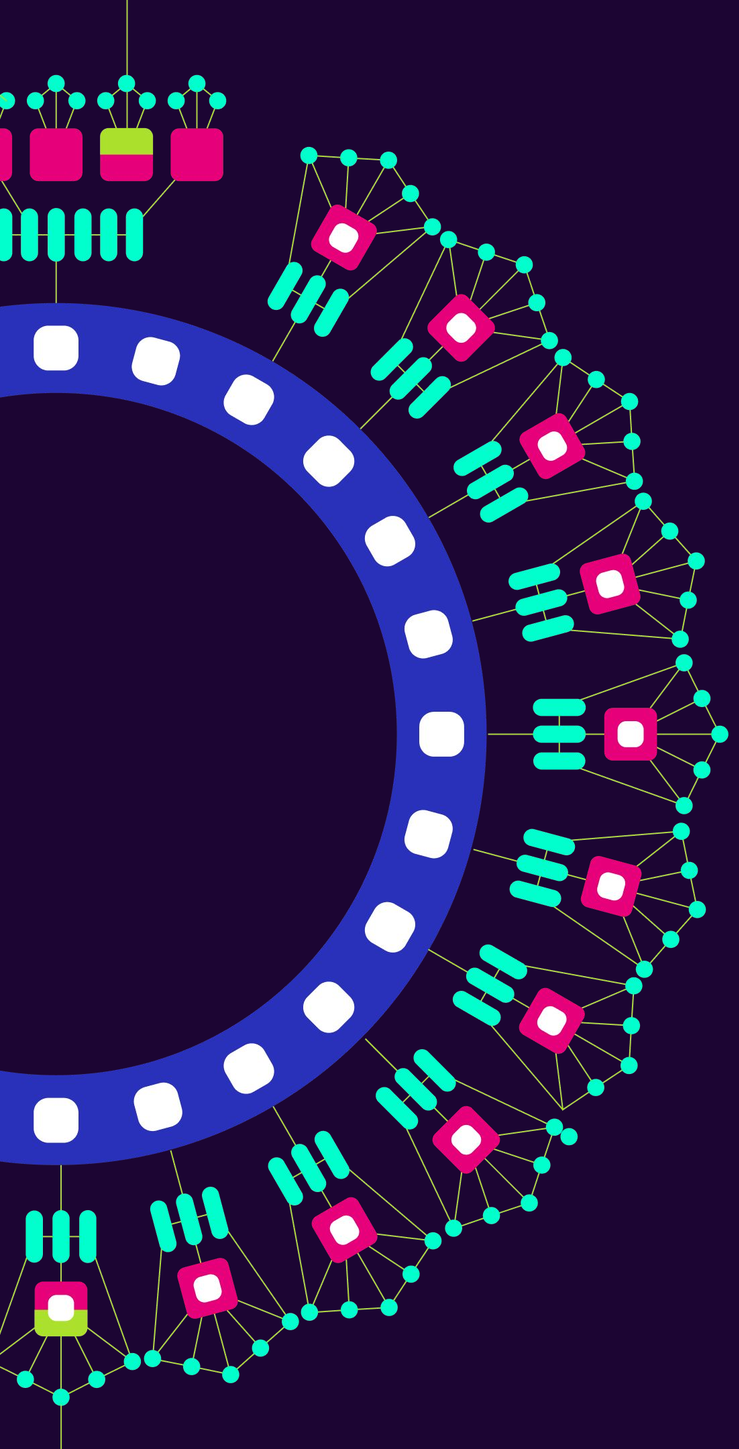
POOR GOVERNANCE

Decisions on many legacy networks are made by one powerful individual or group

UPGRADES ARE DIFFICULT

Users of the network must independently upgrade their software; otherwise the chain can split into two!

HOW DO WE SOLVE THESE CHALLENGES?



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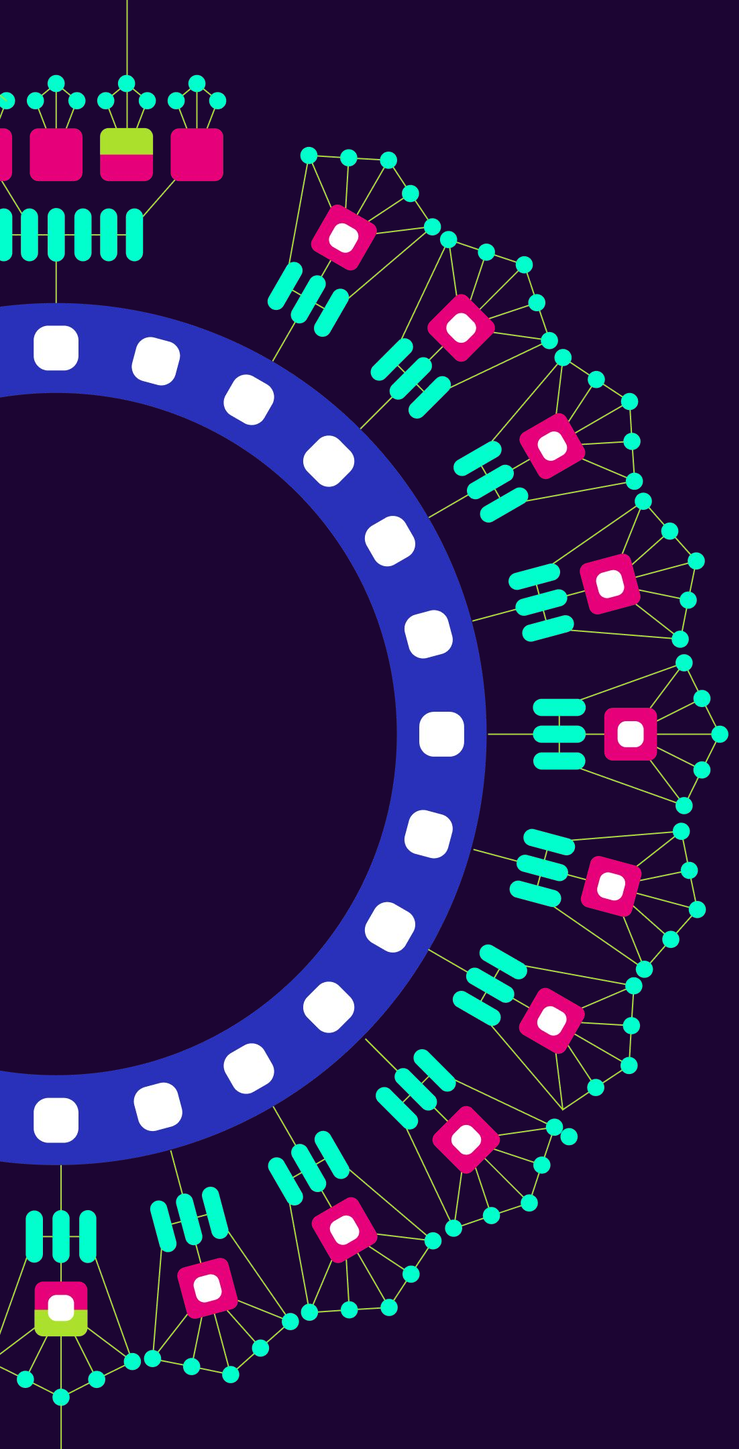
POLKADOT IS A **HETEROGENEOUS MULTICHAIN PROTOCOL** THAT CONNECTS AND SECURES BLOCKCHAINS WITH **POOLED SECURITY AND INTEROPERABILITY**.



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TRANSLATION:

POLKADOT IS A SET OF BLOCKCHAINS THAT WORK TOGETHER AND TALK TO EACH OTHER SECURELY.

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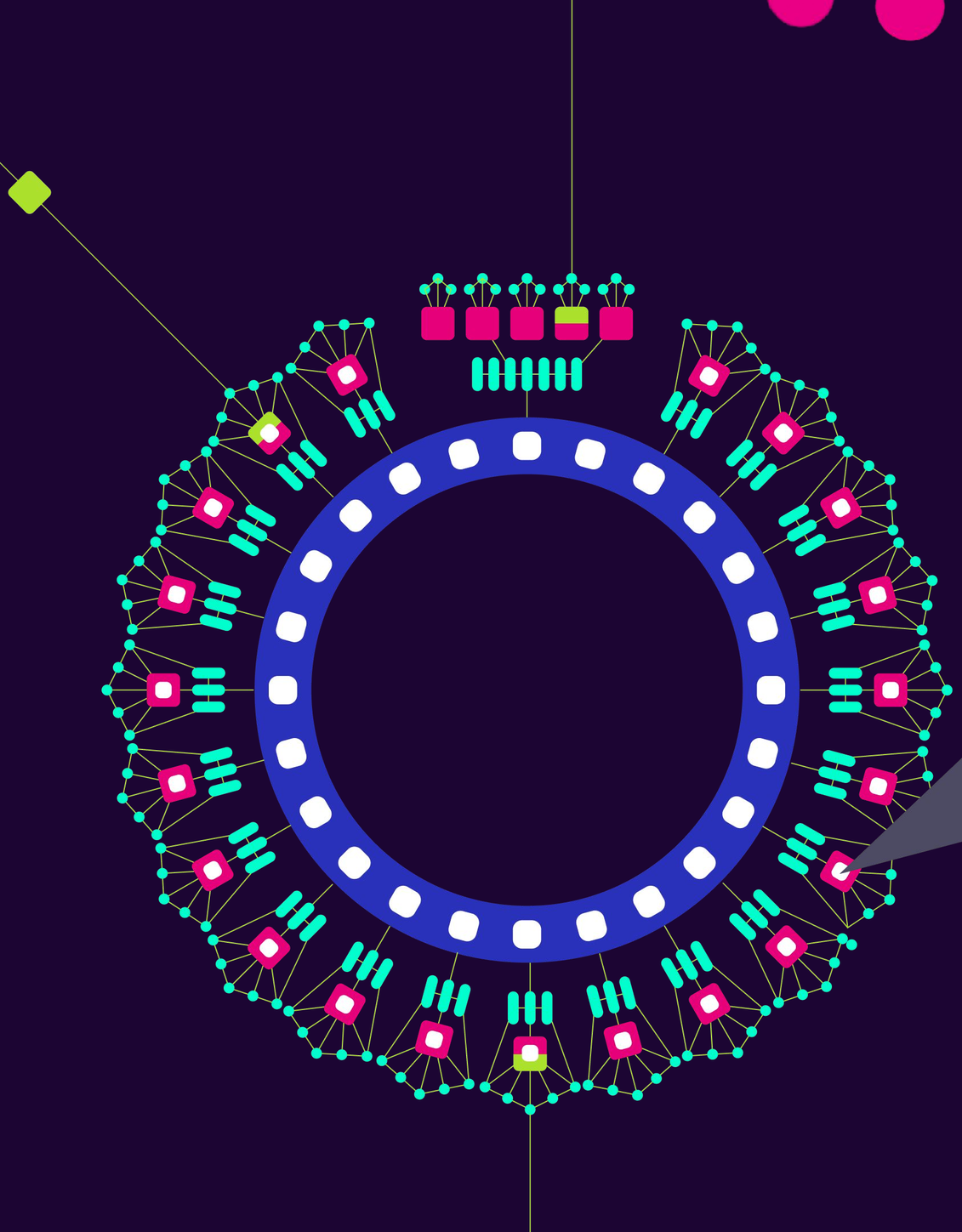


POLKADOT CONNECTS A NETWORK OF CUSTOM-BUILT BLOCKCHAINS & DAPPS

PARACHAINS ARE CUSTOM-BUILT ON POLKADOT FOR SPECIFIC USES

Polkadot

POLKADOT FEATURES

CONNECTS NETWORKS TOGETHER

HANDLES HEAVY TRAFFIC AT SCALE

INDUSTRY-LEADING SECURITY

ENABLES CUSTOM-MADE PLATFORMS BUILT FOR SPECIFIC APPS

REVOLUTIONIZES ONLINE GOVERNANCE THROUGH OPEN, COMMUNITY-DRIVEN DECISION-MAKING

SELF-UPGRADES ALLOWING IT TO BE FUTURE-PROOF

SUBSTRATE - POLKADOT SDK

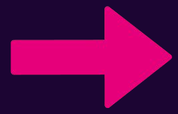
SUBSTRATE IS A MODULAR, FLEXIBLE, EXTENSIBLE FRAMEWORK FOR BUILDING BLOCKCHAINS.

RE-USE BATTLE-TESTED LIBRARIES WHILE BUILDING THE CUSTOM COMPONENTS THAT MATTER MOST.

CUSTOMIZATION

BLOCKCHAINS ON POLKADOT ARE CUSTOM-BUILT AND OPTIMIZED

SUBSTRATE FRAME PALLETS			
ASSETS	BABE	BALANCES	COLLECTIVE
CONTRACT	DEMOCRACY	ELECTIONS	GRANDPA
INDICES	GRANDPA	INDICES	MEMBERSHIP
OFFENCES	SESSION	STAKING	SUDO
SYSTEM	TIMESTAMP	TREASURY	AND MORE...



RUNTIME

SYSTEM BALANCES

SUDO GRANDPA INDICES

TIMESTAMP BABE

*CHECK OUT THE NEW SUBSTRATE.IO WEBSITE FOR INFO AND TUTORIALS ON SUBSTRATE

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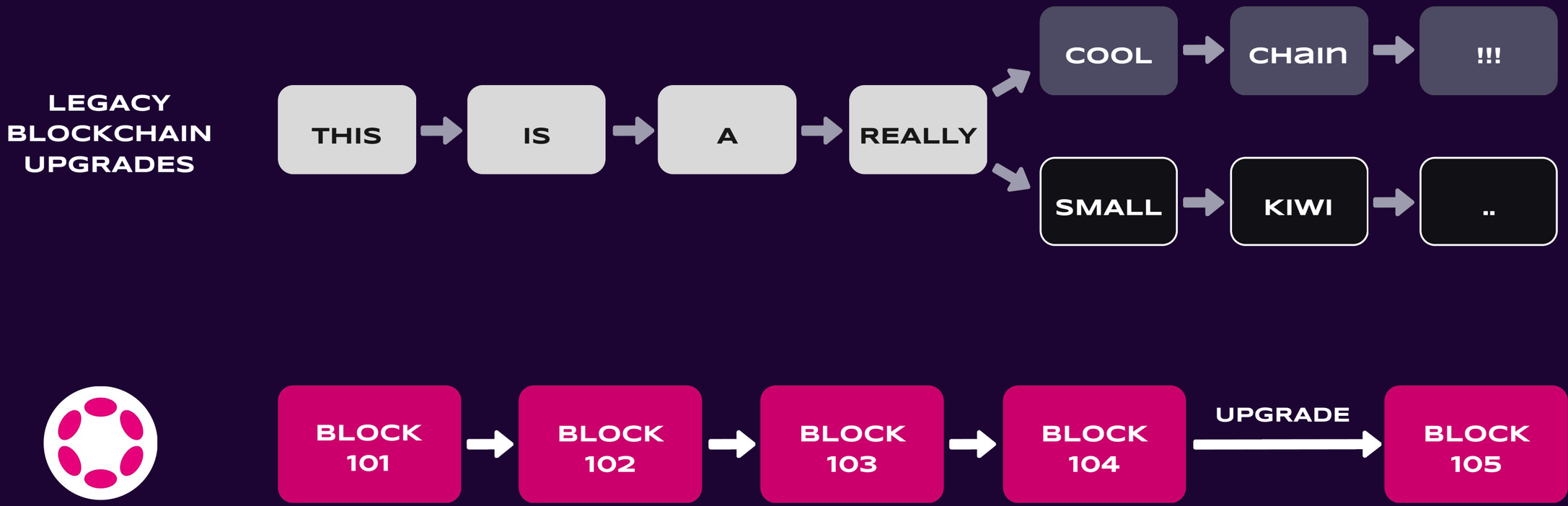
FUTURE-PROOF

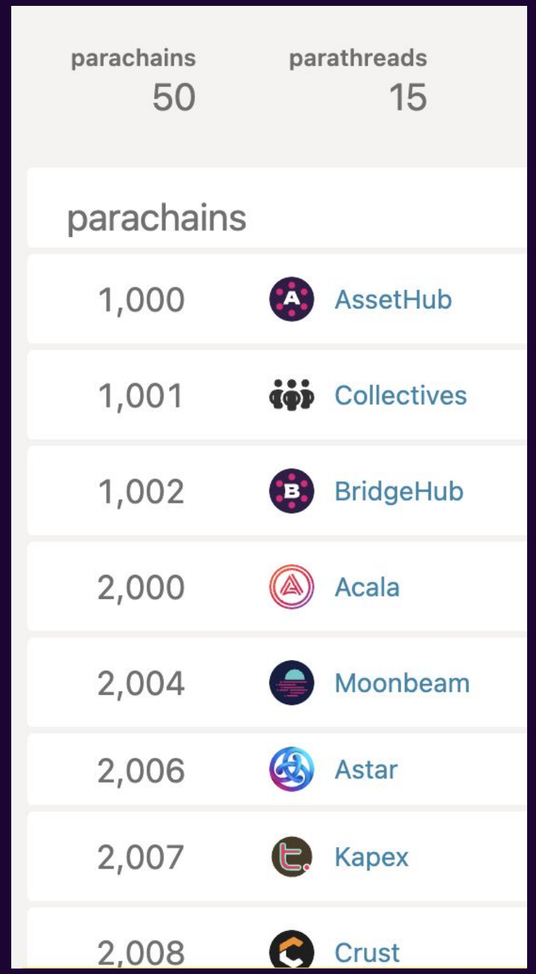
RUNTIME CODE IS ON-CHAIN

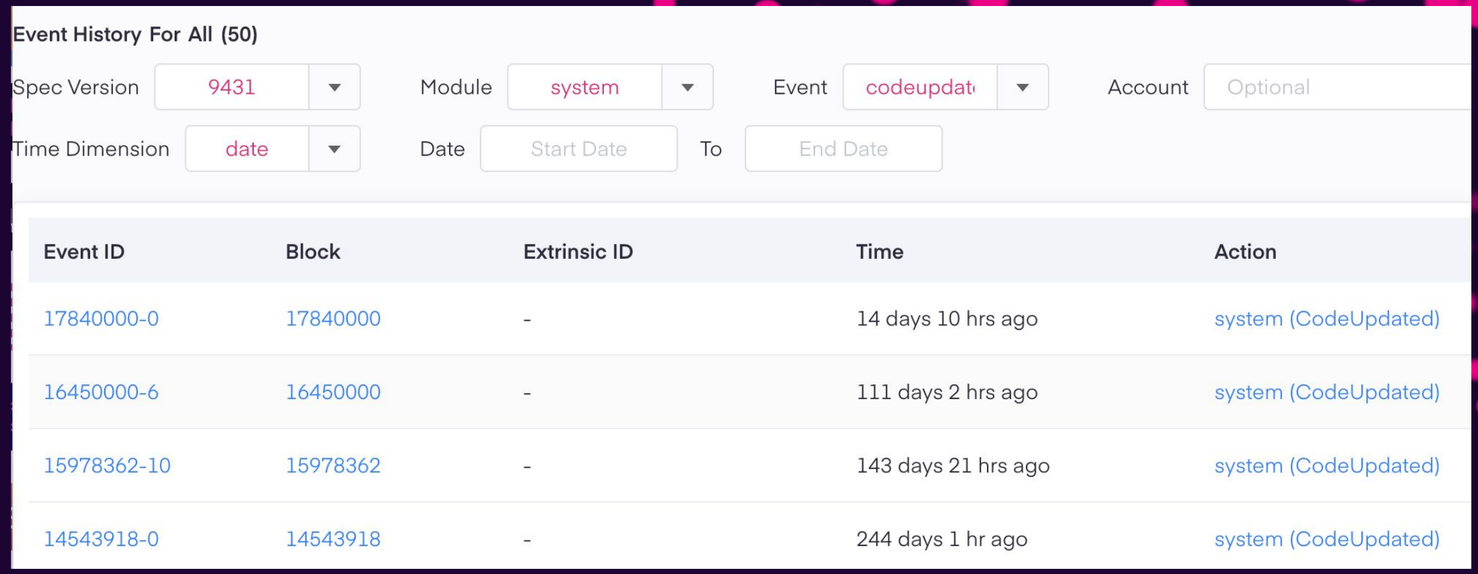
EASY-TO-UPDATE



NOT JUST THEORETICAL

- The Polkadot Relay Chain supports 50 parachains and has upgraded 50 times with no forks





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Questions?

https://polkadot.network

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