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Blockchain and Crypto Currencies – Broadband Taskforce

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Blockchain Granny

Rural Washington's Bitcoin boom

"In Wenatchee, Wash., a Bitcoin invasion is underway," said Alison Sider in *The Wall Street Journal*. Home to hydroelectric dams that harness the power of the Columbia River, the small town of 34,000 boasts "some of the cheapest power in the U.S." That's prompted an influx of Bitcoin mining operations, which require "vast amounts of electricity to run" the thousands of computers needed to mine the digital currency. After last year's 1,300 percent

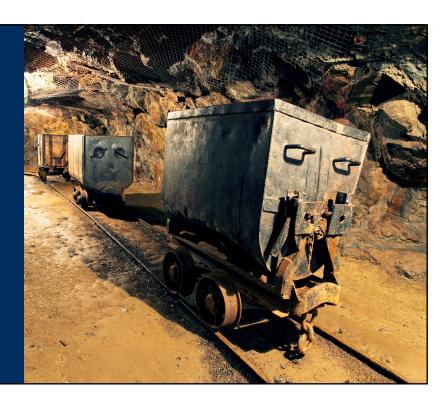


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Blockchain will unlock value of \$176B by 2025.

Will you own the gold mine?

Or be undermined?



Key Issues

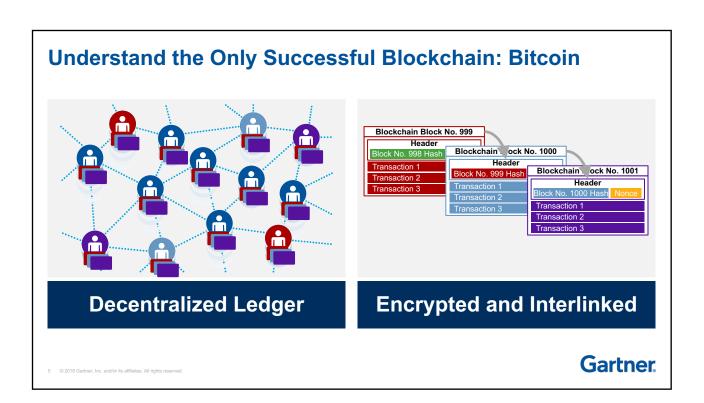
- 1. What is blockchain and what is its disruptive
- 2. What is cryptocurrency and why is it important?
- 3. Industries are exploring blockchain and why?

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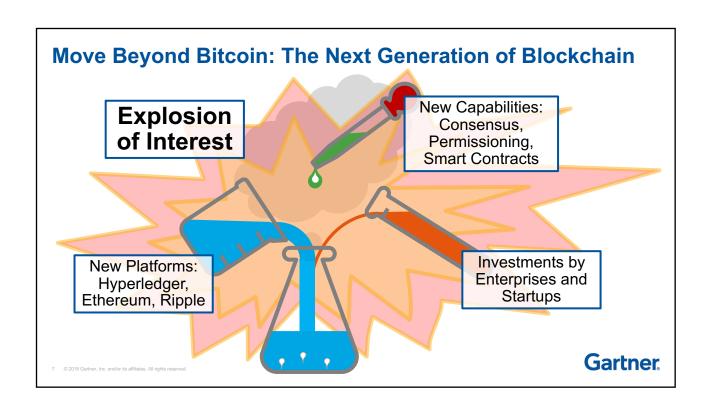
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Stay Grounded: See the Weak Links Beyond the Hype Throughput Ease of Integration Privacy Data Analysis Open Source? • Blockchain technology is not yet mature • The eventual market leader has not yet emerged Gartner.

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Cryptocurrency



Digital currency that uses cryptography for security, generally anonymous – not issued by any central banking authority

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Cryptocurrency

Transactions transact directly without third party

No processing fees

No bank or government control

Transactions are computationally impractical to reverse (fraud protection)

Difficult and expensive to hack – 10 minutes = half a billion USD



Digital currency that uses cryptography for security, generally anonymous – not issued by any central banking authority

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Cryptocurrency

Bitcoin mining

Selling products directly online

Buy Bitcoins outright at Bitcoin exchange markets



3 Ways to Get Bitcoins

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Cryptocurrency

Stored in a digital wallet, electronic signal is added, transaction is verified

Bitcoin users have a 34 character address

Transaction is added to log of each Bitcoin user across the globe



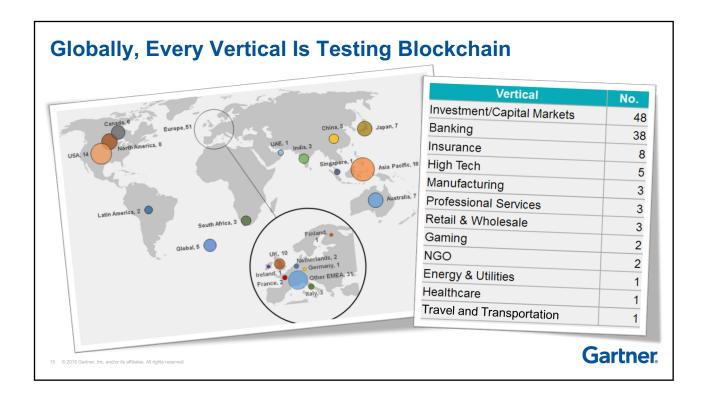
Introduced in 2008 by pseudonymous developer "Satoshi Nakamoto"

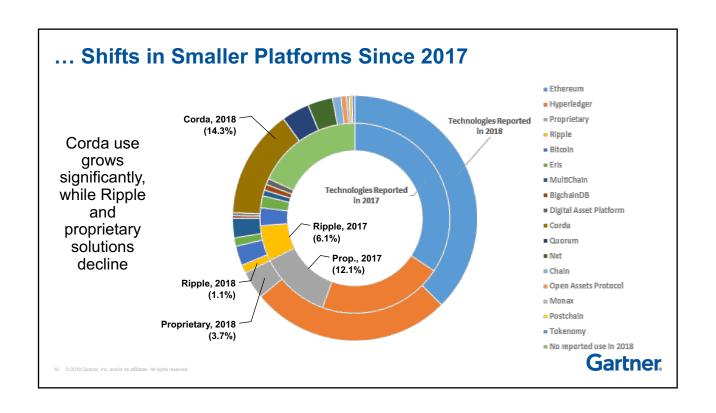
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State of Illinois

- -6 state and local agencies:
 - -Pollution Control Board
 - -Commerce & Econ Opp
 - -Innovation and Technology
 - -Financial & Prof Regulation
 - -Insurance
 - -Cook Cty Record of Deeds
- -3 goals:
 - -Thoughtful & Light Touch
 - -Support Blockchain

Ecosystem

- Government Integration

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Recommended Gartner Research

► Blockchain Trials Across Industries Show the Pulse of a Rapidly Moving Professional Services Market

David Groombridge, Jacqueline Heng and Rajesh Kandaswamy (G00322046)

- ► Market Guide for Blockchain Consulting and Proof-of-Concept Development Services
 Jacqueline Heng, Rajesh Kandaswamy, Neil Barton and David Groombridge (G00317612)
- ► Toolkit: Overview of Blockchain Use Cases David Furlonger (G00302283)
- ► How to Make the Most of a 'Pointless' Blockchain Project
 Ray Valdes and David Furlonger (G00315764)
- ► How to Determine If You Need a Blockchain Project, and If So, What Kind? Rajesh Kandaswamy and Fabio Chesini (G00320247)
- ► How to Develop a Business Case for Blockchain Projects
 Rajesh Kandaswamy and David Furlonger (G00323011)

For more information, stop by the Experts Desk in the CIO Lounge

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