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and "technology". Accountants have deeply understood ledgers for centuries. They have been leveraging technologies for decades. Therefore, Blockchain, is not a ...

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BLOCKCHAIN

Blockchain is a distributed, secure ledger (database) that uses cryptography over a

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ignore.

Blockchain and the accounting profession:

The key things to keep in mind concerning blockchain are:

- Blockchain enables transactions data to be exchanged securely without going through a central third party
- Unless there is (enough) verification and consensus by participating entities, no transaction enters Blockchain
- It is enormously expensive and difficult to tamper with the data on Blockchain

It means the time, effort and cost required to create books for each business and reconcile them can be drastically minimized. At the same time, the need to audit business transactions data can be nearly obviated. These two fundamental impacts of Blockchain are of extreme significance for the “work” that accounting and audit firms will do in the future. Blockchain will, therefore, require transformative “de-skilling” and “re-skilling” of the traditional accountant, CFO and auditor roles.

Accountants need to evaluate the impact of Blockchain on their own internal processes and more importantly, how their clients and prospects are adapting / will adapt to the Blockchain opportunities in their industries/professions.

Blockchain to trigger changes on the immediate horizon

- **Cryptocurrency+Smart Contracts:** Big Four firms are leading the way in the race to adopt Blockchain. Accepting Bitcoins as a payment method was just the start that Big Four kicked off. Blockchain Advisory and Auditing services are already a reality even if it is not a profession-wide experience so far. Smart contracts are already proving their ability to minimize “payments management and reconciliation” work.

- **IoT+Blockchain:** Internet of Things (IoT) is revolutionizing manufacturing,

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Cybersecurity. While Blockchain technology, when properly implemented, increases cyber defense capabilities, it does not address the proven weaknesses in “access” to any technology/network that cyber-criminals exploit. Cybersecurity services and Blockchain system access audits – including auditing what “value” was tokenized to represent it on Blockchain are two promising, emerging new revenue segments for the accounting profession.

Day-to-Day Accounting and Blockchain

Essentially, clients in such industries that work mostly with digitized value e.g. capital markets, financial services, etc. will be the first ones to implement Blockchain. Other industries will follow suit sooner or later.

At the very minimum, CPAs and accounting firms need to learn about Blockchain and try to understand which clients are likely to implement Blockchain in their businesses. When CPAs want to adapt their accounting and audit processes for Blockchain, some of their current skills will be *less* useful in the future and they will need to learn new skills e.g. how to correctly implement business contract steps, terms, and actions into smart contract programs.

If a significant portion of accounting firms' revenue comes from audit, CPAs will want to assess the entire time and cost of collecting and organizing transactions information/data for audit purposes. Blockchain can (and will) obviate this need altogether, potentially diminishing accounting firms' revenue and profitability. At the same time, if CPAs establish processes to audit in real time – because Blockchain data gets created securely in real time, it gives their firms a new way of generating audit revenue. The key to identifying threats and opportunities is to “think Blockchain” when you think of your work processes and flows.

What will happen to the cloud software?

Cloud software essentially means CPAs access their firms' or clients' accounting and

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going through a central collection and distribution agency like the Post Office or a courier company. "Disintermediation" will be triggered by Blockchain. But it can kill cloud only in the way cloud is defined now. A business with entities in its supply chain and products distribution/delivery chain can use a private, permissioned Blockchain. This is known as the "private cloud".

Accounting, tax and audit cloud software providers will obviously adjust to this enormous shift Blockchain brings in. It has taken a few decades for current accounting software programmers to build the knowledge of accounting rules and processes into the software's code. It is not easy for Blockchain-based accounting systems to replicate that deep knowledge instantly. But it will be considerably faster. Accountant-centric software solutions are likely to adapt faster as such software can fetch real-time data from Blockchain networks to keep processing it with deeply ingrained knowledge of accountants' processes, in order to automatically create books and generate on-demand insights for accountants.

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