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Blockchain Revolutionizing Industry 4.0 (Decentralize Technology for Industries Automation)

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ABSTRACT

Purpose: The basic purpose of Study or research work is to find the revolutionary factors that can remonetise the process or assets involved in todyas industry ,basically after or in deployment phase of Industry 4.0.Out of so many approaches one latest adoption in this series is Blockchain based methodologies for Trusteless domain to Distributed domain. Blockchain initially developed or deployed and came into existence for financial/ banking sector and primary focused aim was crypto currency.It is a matter of fact that when at very initial level technology come across the users generally faces in rejection at early adoption stages , the same things repeated with blockchain also initially or even today also peoples who don't know much about Technologies usually relates blockchain with crypto currency or Bitcoin but it is not like that and now entire world recognises the power of blockchain deployment in different sectors like healthcare agriculture governance automization,supply chain management ,etc and plays a vital role or we can say revolutionizing the industry 4.0.

Methodology: The complete study based upon the deep research based findings ,Aim is to find how make the industrial process simpler to simplest and how to make industrial process to deliver the best customized product that meets the specification of customer dreams.

Originality/Value: Study purely based upon the process of Industry 4.0. How the machinery in industries and humans can interact/even transact with each other without knowing in among selves in secure domain with Block chain.

Findings: In research based study authors find that after deployment of IoT (Internet of Things),machines and things are now becoming capable to communicate in entire world with internet.CPS(Cyber Physical System) completely taking shape in every sector. In industry 4.0 CPS system going to be fully matured. Sooner than later there will be a need arises to make secure and transparent transactions with decentralize technology among industry 4.0 various process and blockchain might be one best technology as solution of this need.

KEYWORDS Blockchain | Smart Contact | Industry 4.0 | Economy | Crypto Currency

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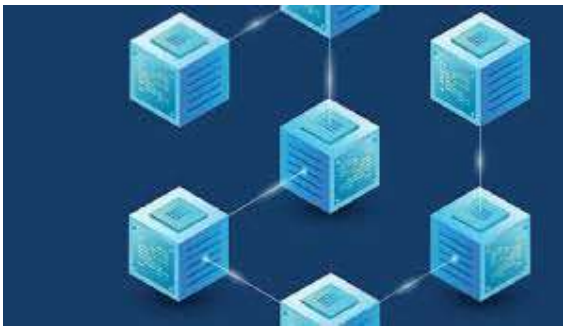
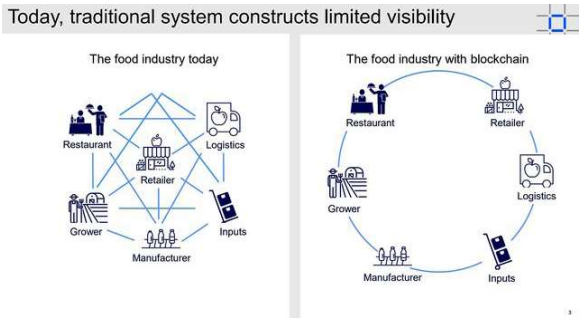


Introduction

Blockchain opens the streat for secure new possibilities where the interaction can be possible between various participants across the globe .Whearas in case of regular contracts where process takes time to take in execution stages now with the help of execution of smart contracts this can be automated in much lesser time and with transparent environment for industrial growth.

It is in need of an hour to adopt the fourth revolution in the form of industry 4.0 industry 4.0 conceptualizes the smart factories, smart manufacturing, smart control and monitoring process and finally a smart product with smart supply chain management.



Supply chain automation will increase the better understanding for industries to understand the customer need and to make the product of market and customer demand. Blockchain has power to connect or communicate in CPS (Cyber physical system) in much more efficient way by integrating both the virtual cyber world and physical objects like machines in industries. Industry 4.0 is a combined or integral form of technologies using IoT, Artificial Intelligence, 3D printing, etc. Blockchain provides end to end Communication among all machines and humans on same platform across the word with the secure environment for example in traditional supply chain management in industry we need to plan design make product but in industry 4.0 this process is automated as the deployment of IoT all the things are communicating efficiently each other with the centralised core blockchain technology and its smart contract these things without worrying the trusted or trust less can transact each other and makes system automatic to fully smart automated transactions between CPS now taking shape with blockchain revolutionizing the industries.

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The Editorial Board had used the Urkund plagiarism [https://www.urkund.com] tool to check the originality and further affixed the similarity index which is 0% in this case (See Annexure-I). Thus the reviewers and editors are of view to find it suitable to publish in this Volume-11, Issue-4, Oct-Dec, 2019.

Annexure 1

Submission Date	Submission Id	Word Count	Character Count
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URKUND

Urkund Analysis Result

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Significance: 0 %

Sources included in the report:

Instances where selected sources appear: 0

Reviewers Comment

Reviewer's comment 1:
On a larger scale, blockchain has provided enterprises with a trustless and tamper-proof apparatus for tracking assets, verifying uniqueness, settling contracts, and so much more.

Reviewer's comment 2:
The possible of blockchain has been extensively discussed in the literature and media mainly in finance and payment industry. One relatively recent leaning is at the enterprise-level.

Reviewer's comment 3:
As the Internet of Things and the cloud: A key component of Industry 4.0 is the Internet of Things that is characterized by connected devices.

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EDITORIAL BOARD EXCERPT This article has 0% plagiarism which is accepted as per the standards of publication for the magazine. Though many administrations might immobile be in denial about how Industry 4.0 could impact their business or struggling to find the talent or knowledge to know how to best adopt it for their unique use cases, several others are implementing changes today and preparing for a future where smart machines improve their business. Here are just a few of the possible applications: Henceforth after review and comment it is decided to take this paper under "View Point" category.