The blockchain is a ledger consisting of blocks (i.e., pages) containing a set of data and “chained” among them. The Ledger is replicated across all the nodes of the network, but they don’t own it. Nodes are interconnected and store locally a copy of the blockchain transactions. The populated block is subjected to validation, through consensus algorithms. Only the valid blocks are inserted into the Blockchain and the ledger is updated accordingly.
Imagine a world

Financial institutions settle payments and securities in minutes instead of days.

Insured assets and related risks are monitored real-time, events captured and contracts executed autonomously.

Manufacturers track the origin and movements of inventory across a supply chain.

Authors sell content directly to the final customer, reducing barriers for new entrants and frauds.

Producers and consumers digitally exchange energy, with certification of origin.

We take full control of our digital identity and how data is managed by third parties.

Gartner Predictions

Blockchain Business Value Forecast, 2018-2030

- Phase 1: Irrational exuberance, few high-profile successes (2018-2024)
- Phase 2: Larger, focused investments, many successful models (2022-2026)
- Phase 3: Global, large-scale economic value add (2027-2030)

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D.L.T. have the potential to drive **simplicity and efficiency** through financial services infrastructure and processes, but its applications **will differ by use cases** (leveraging the technology in different ways for different benefits) and will require deep **collaboration between incumbents, innovators and regulators**.
HOW ABOUT CRYPTOCURRENCY

Market cap

>260 Bn $

<table>
<thead>
<tr>
<th>Cryptocurrency</th>
<th>Market Cap</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bitcoin</td>
<td>68.07%</td>
</tr>
<tr>
<td>Ethereum</td>
<td>8.62%</td>
</tr>
<tr>
<td>Ripple</td>
<td>4.48%</td>
</tr>
<tr>
<td>Litecoin</td>
<td>1.77%</td>
</tr>
<tr>
<td>Others</td>
<td>9.52%</td>
</tr>
</tbody>
</table>

Source: Coinmarketcap (as of September 23, 2019)

Bitcoin blocks

<table>
<thead>
<tr>
<th>Height</th>
<th>Relayed by</th>
<th>Size (B)</th>
<th>Reward</th>
</tr>
</thead>
<tbody>
<tr>
<td>596,197</td>
<td>Huobi Pool</td>
<td>1,330,914</td>
<td>12.73011188 BTC</td>
</tr>
<tr>
<td>596,196</td>
<td>ANT POOL</td>
<td>1,356,217</td>
<td>12.74198189 BTC</td>
</tr>
<tr>
<td>596,195</td>
<td>ViaBTC</td>
<td>1,207,987</td>
<td>12.94179105 BTC</td>
</tr>
<tr>
<td>596,194</td>
<td>f2pool</td>
<td>1,606,006</td>
<td>12.70230056 BTC</td>
</tr>
<tr>
<td>596,190</td>
<td>SpiderPool</td>
<td>1,184,666</td>
<td>13.05180146 BTC</td>
</tr>
</tbody>
</table>

Source: BTC.com

Bitcoin venues

198 venues in Czech Republic

Source: Coinmap.org

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Decentralized and distributed ledger that can be used to secure data by encrypting them, with advances in privacy and user anonymity. Also a cryptocurrency can be set to buy content and pay for services

**OBSIDIAN**

Obsidian messenger uses Stratis-based blockchain and the system stores data in a decentralized system and the data is not used for analytics and advertising.

**INDORSE**

Indorse is the equivalent of LinkedIn on top of Ethereum blockchain but with its own economy and currency. You can create your own content and own all rights, build your profiles and connections, and get paid for your contributions.

**NEXUS**

Founder Jade Mulholland has said they aim to “eliminate all invasion of privacy that large corporations are currently performing.”

**STEEMIT**

Steemit runs on top of a decentralized network known as Steem. It supports community building and social interaction with cryptocurrency rewards and users get paid for their posts.
Blockchain could help to solve the problem of duplicated and pirated contents introducing the "digital scarcity": issuing a limited number of copies and tying them back to unique blocks proving their ownership.

MAECENAS
Maecenas is the first open blockchain platform that democratizes access to Fine Art. The platform offers art investment without intermediaries.

DADA.NYC
DADA.nyc provide a decentralized marketplace where you can buy limited-edition digital artworks with IP protection and proof of ownership.

ART COLLECTIVE
Blockchain Art Collective is a growing movement of artists using the blockchain to verify a work of art’s origin, authenticity, and journey.

VERISART
Using decentralized technologies, Verisart wants to help artists and collectors with new ways to certify, document, verify and enliven their works.
POTENTIAL BUSINESS DISRUPTIONS

**SHARED DATA**
- Data Reconciliation
- Clearing/Settlement
- Payments
- Loyalty Points
- Audit and compliance
- ...

**SUPPLY CHAIN**
- Trade Finance
- Supply Chain Financing
- Traceability
- Authenticity
- ...

**DISTRIBUTED EXECUTION**
- Smart Contracts
- Real time gross settlement
- Letter of credit
- Syndicated Loans
- ...

**DIGITAL IDENTITY**
- Customer onboarding
- AML / KYC
- Data Monetization
- CV certification
- ...

*NOT EXHAUSTIVE*
Accenture’s Unique Identity Service Platform is used to **enroll and de-duplicate users’ biometrics** that would be linked to the identity records. Platform used to allow a person to create a **unique profile** and capabilities through which they can manage and share their own data securely. The application enables the organization to **capture, view, request and process** the data selectively shared by the user.
AN ECOSYSTEM GAME

A new way to collaborate within industry and cross-industry will be required

DIFFERENT COLLABORATION MODELS

INTERNAL

CONSORTIUM OF PEERS

SUPPLY CHAIN

ECOSYSTEM

APPROACH

CURRENT FOCUS

EXAMPLES

▪ Innovation, Learning

▪ New Industry Ecosystems

▪ Industry Platforms

▪ Systemic Initiatives

▪ Contracts, Reconciliations

▪ Trade Finance, Payments

▪ Goods tokenization

▪ Money, Identity, Public Services

▪ Inter-company reconciliations

▪ International agreements, payments

▪ Traceability

▪ ID 2020

▪ Employees skills certification

▪ Trade Finance

▪ Internet of things

▪ We.trade

▪ Reinsurance

▪ Payments

▪ Central Banks

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