

Great customer experiences start here.

Organizations must embrace change to realize the enormous opportunities of today's disrupted world. Tomorrow's winning digital business will transform the way they share data to earn trust.

Intrigued?

To start shifting your business model mindset, the first step is to understand the imperative of trust.

Trust: an imperative out of reach

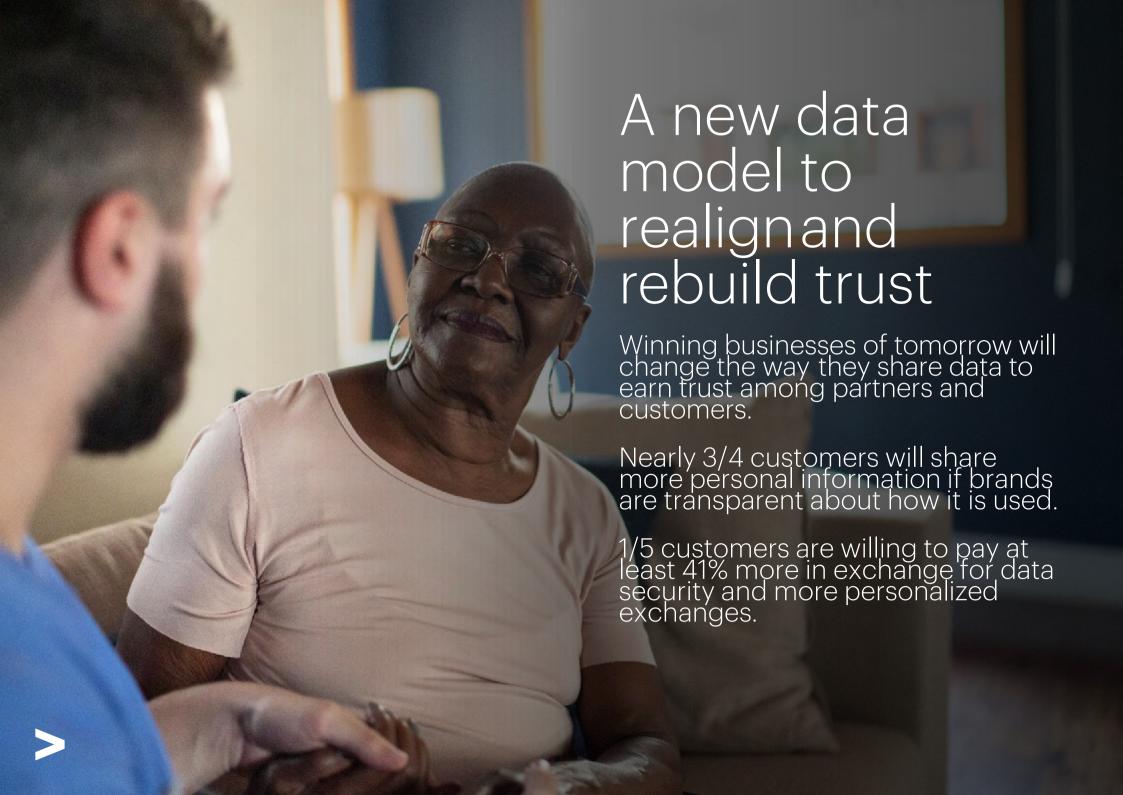


More than <u>76 percent of CEOs</u> say citizen trust is critical to business competitiveness.

Today's antiquated data models fail to provide the transparency, control and agility required to meet the evolving demands of our increasingly virtual world.

A new model that facilitates trust among everyone involved— businesses and consumers—is now a requirement for the new digital era.





Top Ecosystem Data-Sharing Concerns

Businesses must shift to a mutually beneficial data model that gives people more control, allowing them to grant direct access to high-quality data in exchange for improved, hyper-personalized services with enhanced security and privacy.

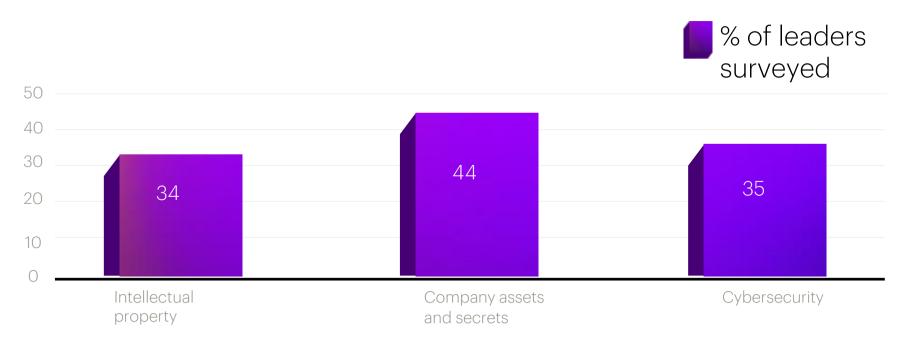


Figure 1.Leaders are uneasy about working outside their organizations, especially when it comes to security. Source: Cornerstone of Future Growth: Ecosystems, Accenture





A single source of truth means data validation can be as simple as, "I see what you see."

Now imagine what that level of data integrity could do for businesses and consumers alike.

Figure 2.Business and government entities



It's more than just a buzzword. Those companies that can demonstrate trust are going to be able to develop better services, better experiences, get better information to then tailor things for consumers.

Paul Daugherty, Accenture Chief Technology Officer

Benefits of multiparty systems

1.

Collaboration

Competitors can trust each other and coinnovate without compromising IP thanks to privacy and security measures like revocation and collective accountability.

2.

Efficiency

Automatic transaction settlements bring greater efficiencies.

3.

Less Risk

A tamper evident audit trail lowers liability.

4.

Standardization

Digital wallets can help to standardize data across organizational silos.

5.

Resilience

Eliminating constant reconciliation improves agility and allows companies to pivot quickly when needed.

6

Improved Value Delivery

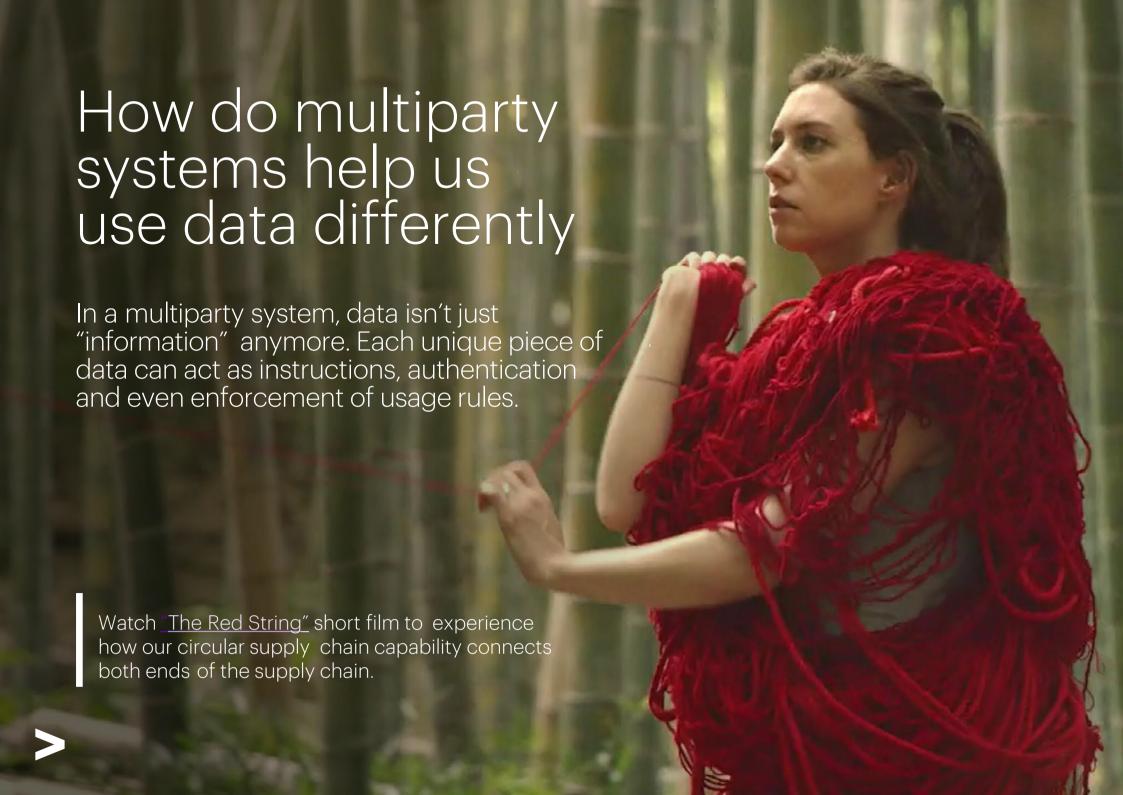
With a single line of sight into the data, companies improve value delivery and productivity by focusing on what matters. 7

Redefined **Processes**

Encoding data with functionality that allows it to be used in entirely new ways so processes and services may be redefined. 8

New Revenue Streams

A shared data infrastructure simplifies onboarding and integration, allowing new and existing partners to rapidly configure and get new offerings to market.



Tokenization

Certain multiparty system technologies, like blockchain, make it possible for everyone in the ecosystem to see that there is only one instance of a given piece of data or token. A token can be any digital representation of value, assets or information.

Uniqueness

This transparency proves uniqueness in the digital world. Each unique piece of data therefore can't be copied, moved, changed, tampered with or "spent" without the knowledge of the ecosystem seeing and mutually agreeing to it.

Ownership

With this uniqueness also comes the ability to attach ownership to the object and authenticate it as it moves around the internet.



Intent

You can limit which aspects of your data that a given party or partner can see by cryptographically signing your intent for that data.

Rights

Individuals and entities can encode the data to declare what a given party can and cannot do with the data they share, whether it's providing a service in return or fulfilling a specified transaction.

Obligation

Data can also be programmed with smart contracts—automated tools that can stipulate, verify or enforce terms and agreements. They facilitate the receiving party's obligation to fulfill a given transaction, service or outcome for the data owner.

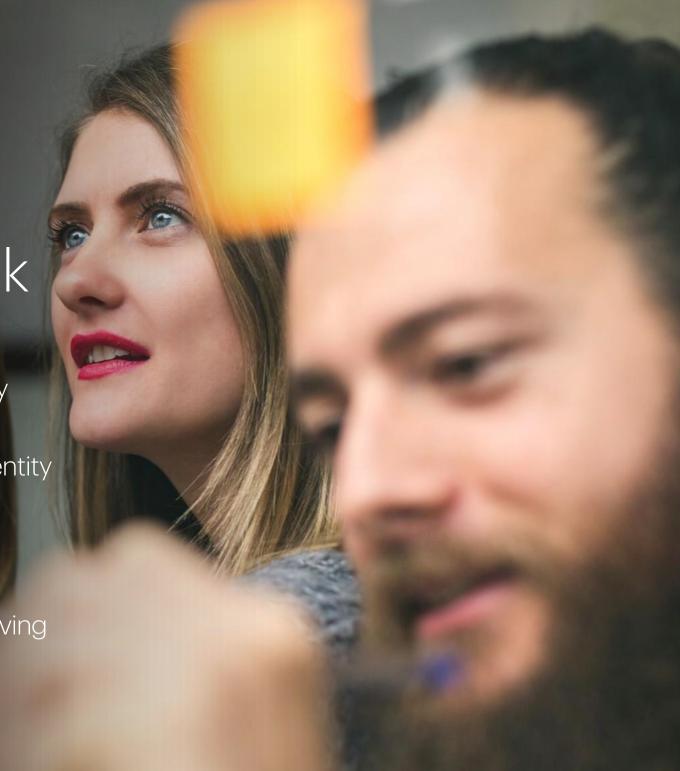
Revocation

One of the most revolutionary aspects of this data model is the fact that an individual or entity can revoke the permission to use their data.



The new possibilities of multiparty systems data sharing are widely applicable from self-managed identity to self- driving cars.

Many organizations are already forming multiparty systems and developing initiatives that are moving from pilot to production.



Digital identity and trusted travel

Known Traveler Digital Identity (KTDI) is a multiparty system of governments, authorities and travel companies working with the World Economic Forum (WEF) to improve security and experience in air travel.

Banking, organizational onboarding, warranty fulfillment—any area that requires know-your-customer checks and costs stands to be transformed.



CBDC and the revolution of money

Our work with the central bank of Sweden simulates how an <u>e-krona</u> could be used by the public for payments, deposits and withdrawals via apps and wearables.

We launched the Digital Dollar Project to collaboratively develop a US CBDC framework for more functionality and utility in the world's reserve currency.



Digital thread for automotive

Accenture works with the Mobility Open Blockchain Initiative (MOBI) to make transportation greener, more efficient and affordable with multiparty systems technologies like digital twin and thread that increase profitability of mobility services across vehicle lifecycles.



Pharmaceutical supply networks

Accenture worked with <u>DHL</u> and its partners on a multiparty system initiative that enhances the traceability of medication throughout its lifecycle.

By assigning a unique identity to each sealable unit, the project makes it possible for the network participants to securely track a medication's origin, batch number and storage conditions in near real-time.





While 90 percent of business and IT executives believe ecosystem success depends on organizational technology, less than a quarter consider ecosystem alignment and governance to be their strong suit. Consider the following steps to start your journey with multiparty systems.



- 1. Understand that blockchain is just one of many technologies that will guide your digital transformation.
- 2. Develop a strategic point of view, based on your business objectives, for how you will harness multiparty system capabilities.
- Determine <u>ecosystem governance</u> and build your multiparty system to pilot and bring use cases to scale.

- 4. Redefine your data culture for better responsiveness and responsibility.
- 5. Engage your C-suite early and often so you can scale to production. Use the <u>WEF Value</u> <u>Framework</u> to workshop those discussions.

Ecosystems have the potential to unlock \$100 trillion of value over the next decade. The move to multiparty systems is no longer a choice. As control shifts to consumers, the era in which companies enjoyed relatively free and unfettered access to data is coming to a close. But with greater consumer control comes greater trust and opportunity.

The successful digital businesses of tomorrow are not those with the most data, but those with the most trust.





References

- Cardinal, David. (2020, November 29). Tim Berners-Lee's Solid Project: Can It Save the Web?
 Extreme Tech.
- 2. "Cost Optimization is Crucial for Modern Data Management Programs". (2020, June).
 Gartner
- 3. Jones, Lydia Clougherty and Sally Parker. "Smart Data Sharing Five Insights to Get It Right". (2019, September), Gartner.
- 4. "Pulse Survey: An Inflection Point for the Data-Driven Enterprise". (2018, November 28). Harvard Business Review.
- 5. <u>"For Predicts 2020: Data and Analytics Strategies Invest, Influence and Impact." (2019, December 6).</u> Gartner. ID: G00463674.
- 6. <u>Linderman, Juliet, Martha Mendoza and The Associated Press. "It's just unprecedented':</u>
 Counterfeit face masks are reaching frontline health care workers in U.S.." (2020, May 13).
 Fortune.
- 7. Heutger, Matthias and Dr. Markus Kückelhaus. "BLOCKCHAIN LOGISTICS: Perspectives on the upcoming impact of blockchain technology and use cases for the logistics industry" (2020, May 13). DHL Trend Research.
- 8. Soohoo, Stacey and James Wester. "COVID-19: Quantifying the Impact on Blockchain" (2020, May), Market Perspectives, IDC, Doc. # US46299020.

Contact

Visit us at http://www.accenture.com/blockchain.

For questions about this report or to schedule a conversation with our team, please contact blockchain@accenture.com.

Author

David Treat
Global Lead - Tech Incubation Group and Global Lead - Blockchain &
Multiparty Systems
david.b.treat@accenture.com

About Accenture

Accenture is a global professional services company with leading capabilities in digital, cloud and security. Combining unmatched experience and specialized skills across more than 40 industries, we offer Strategy and Consulting, Interactive, Technology and Operations services—all powered by the world's largest network of Advanced Technology and Intelligent Operations centers. Our 514,000 people deliver on the promise of technology and human ingenuity every day, serving clients in more than 120 countries. We embrace the power of change to create value and shared success for our clients, people, shareholders, partners and communities. Visit us at www.accenture.com.

About Accenture Research

Accenture Research shapes trends and creates data driven insights about the most pressing issues global organizations face. Combining the power of innovative research techniques with a deep understanding of our clients' industries, our team of 300 researchers and analysts spans 20 countries and publishes hundreds of reports, articles and points of view every year. Our thought-provoking research -supported by proprietary data and partnerships with leading organizations, such as MIT and Harvard- guides our innovations and allows us to transform theories and fresh ideas into real-world solutions for our clients.

For more information, visit <u>www.accenture.com/research</u>.

Disclaimer: This document is intended for general informational purposes only does not take into account the reader's specific circumstances, and may not reflect the most current developments. Accenture disclaims, to the fullest extent permitted by applicable law, any and all liability for the accuracy and completeness of the information in this presentation and for any acts or omissions made based on such information. Accenture does not provide legal, regulatory, audit, or tax advice. Readers are responsible for obtaining such advice from their own legal counsel or other licensed professionals. Accenture, its logo, and New Applied Now are trademarks of Accenture.

Copyright © 2021 Accenture.

All rights reserved. Accenture, its logo, and High Performance Delivered are trademarks of Accenture.