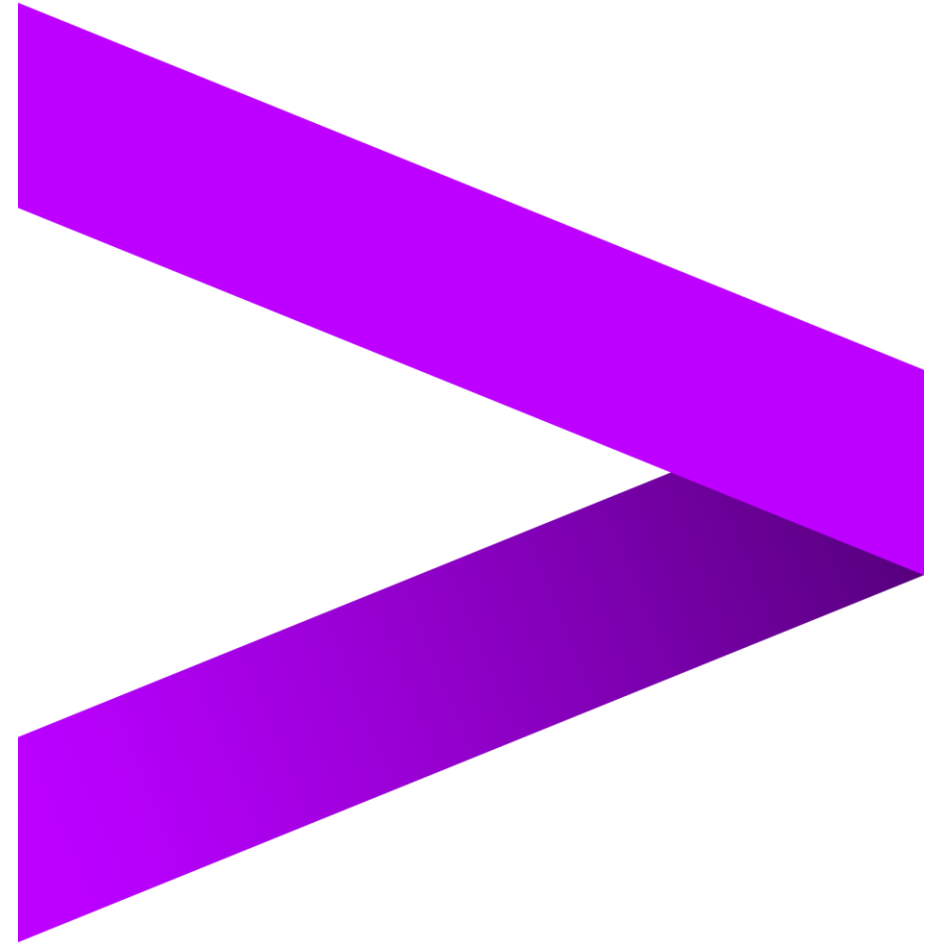


# IDENTITY OF PEOPLE, PLACES, & THINGS

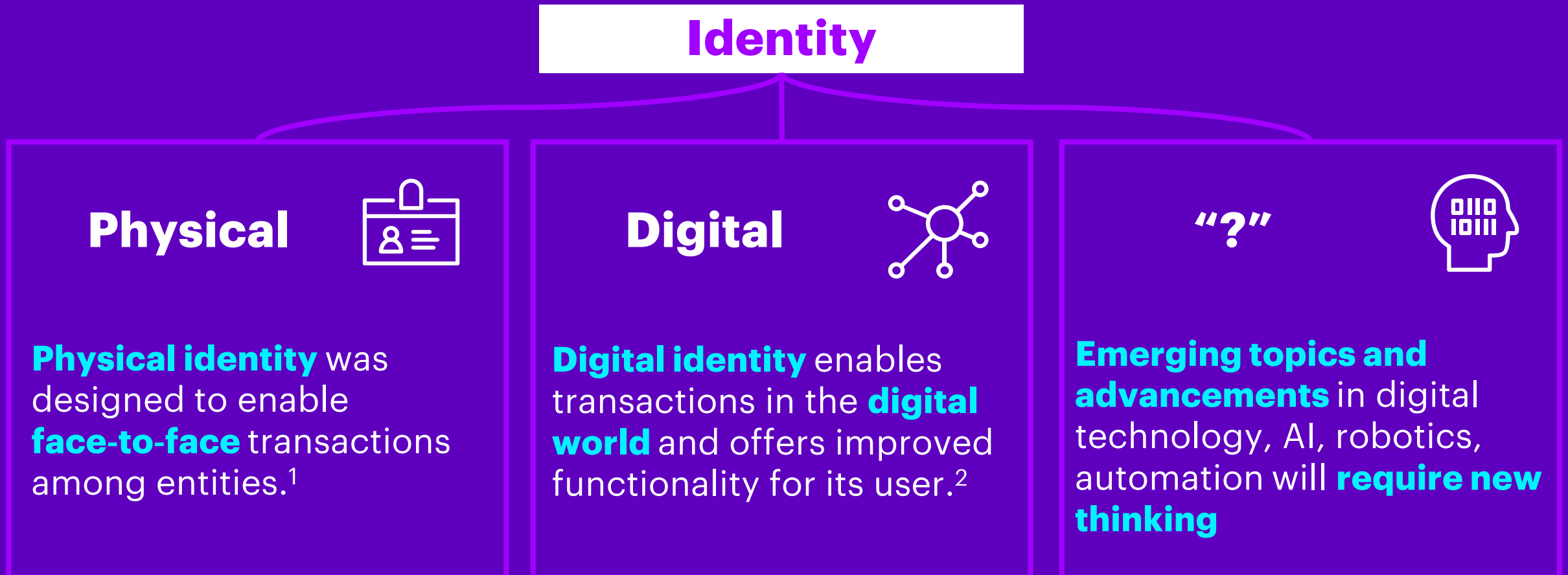
**DAN BACHENHEIMER**  
**20 JUNE 2019**



**accenture**

# WHAT IS IDENTITY?

It makes something or someone the same today as it, she, or he was yesterday.



# A VERIFIABLE AND TRUSTED DIGITAL IDENTITY IS BECOMING ESSENTIAL IN OUR DAILY LIFE

Trust is based on face-to-face interaction



...No face-to-face trust

## PHYSICAL IDENTITY

- Designed for face-to-face transactions
- **Trust based on visual inspection** of person making an identity claim and the document(s) presented

You can see me, so you can trust me



## DIGITAL IDENTITY

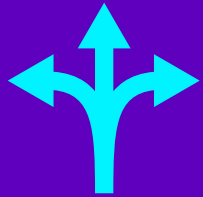
- Enables online, virtual transactions
- **Trust based on the issuer of the Digital identity attribute(s)** and the ability to **bind identity claim(s) to the physical identity**

I am **real** and I **exist**



**Without a trusted identity in a digital world, we would struggle to transact, access services, and be acknowledged that we are who we claim to be**

# IDENTITY TRENDS: WHERE THE WORLD IS GOING



**INCLUSIVE,  
PERSONALIZED**



**SEAMLESS USER  
EXPERIENCE**



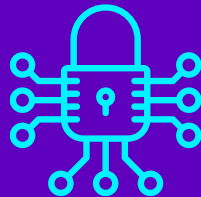
**MOBILE DEVICES  
EVERYWHERE**



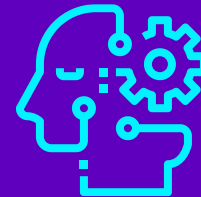
**BLOCKCHAIN IS  
THE DISRUPTOR**



**SELF MANAGED/  
OWNED IDENTITY**



**SECURITY &  
PRIVACY**



**AI & ROBOTS**



**BIOMETRICS ARE  
EVERYWHERE**

# TOWARDS A GOOD DIGITAL IDENTITY









World Economic Forum, ***Identity in the Digital World: A New Chapter in the Social Contract.***

[http://www3.weforum.org/docs/WEF\\_INSIGHT\\_REPORT\\_Digital%20Identity.pdf](http://www3.weforum.org/docs/WEF_INSIGHT_REPORT_Digital%20Identity.pdf)

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# IDENTITY IN EVERYDAY LIFE

- The need for an identity both the digital and physical world from getting access to essential services to accessing social media.
- Identity verification touches almost every industry from people to supply chain.
- Through our lives, we will have 1000s of identities and 10000s more related to us

					
<b>People</b>	<b>Private Sector</b>	<b>Public Sector</b>	<b>Connected Devices</b>	<b>'Things'</b>	<b>Virtual entities</b>
Employment background checks	Banking & insurance e.g. KYC	Getting an ID e.g. driving license	Social benefits & welfare	Goods in supply chain	Social Media
Healthcare services	Making payments	Paying & collecting taxes	Trade finance	Forests & Wildlife tracking	Workforce mgmt.
Border control	Telecom	Travel & hospitality	Paying & collecting taxes	Processes	Machine to machine

# IMPACT OF **LACK OF TRUSTED IDENTITY** IN A DIGITAL WORLD TO ORGANIZATIONS



## **Governments**

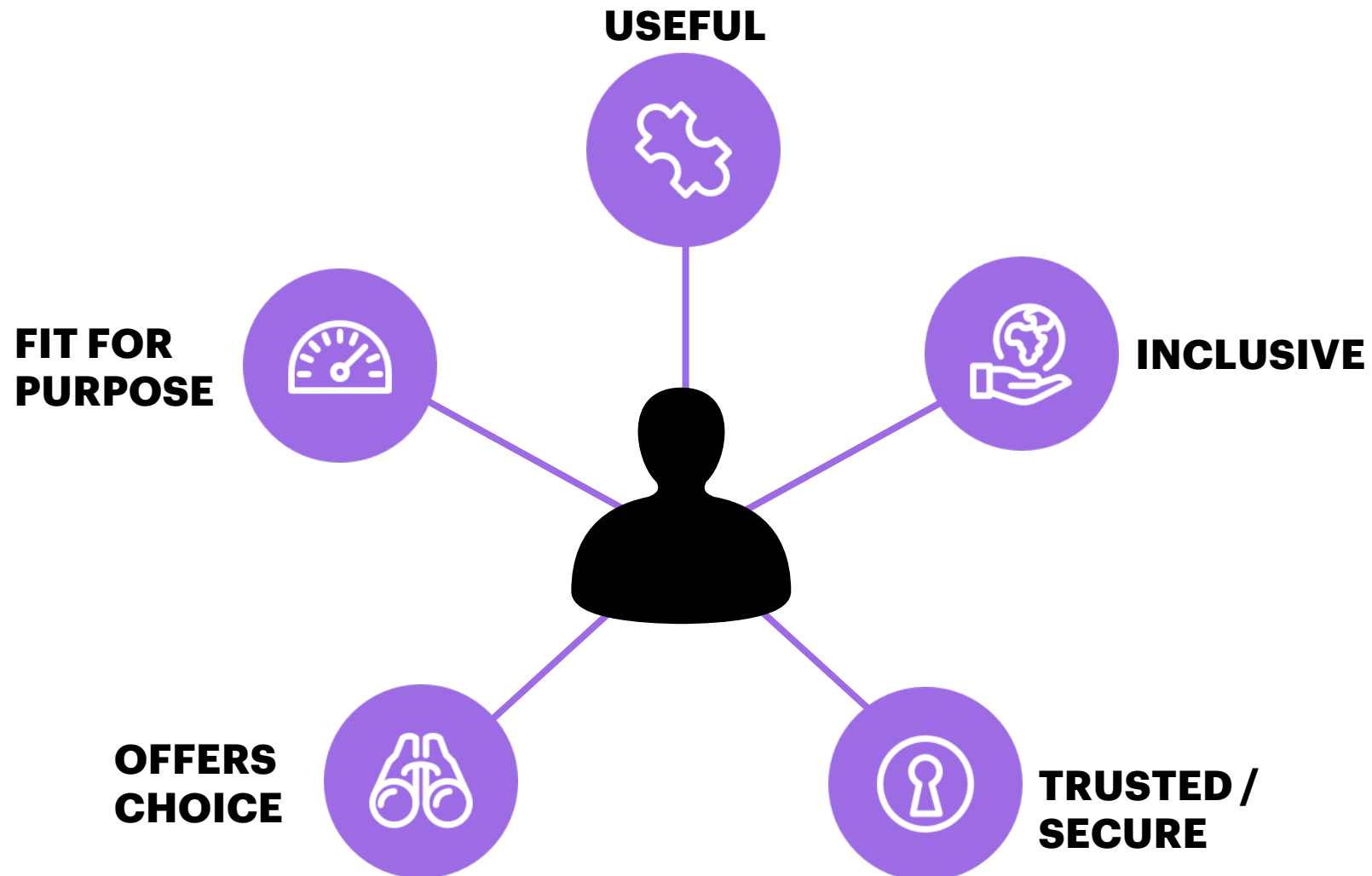
- Low **financial inclusion**
- Low **economic development**
- Poor **resource allocation**
- Vulnerable populations with higher rates of human trafficking, violence, and **more easily exploited** for other criminal activities
- **Higher identity fraud**, and other types of fraud, in the economy



## **Organizations**

- Difficult to detect fraud due to **no reliable source of identity data**
- **Poor customer experience**
- Difficult to manage **compliance**
- **Inefficient & costly**, e.g. Expensive to do background checks
- Cash-heavy transactions **prone to fraud**

# IDENTITY IN THE DIGITAL WORLD NEEDS TO BE: **USER-CENTRIC**





# BEYOND IDENTIFICATION & AUTHENTICATION

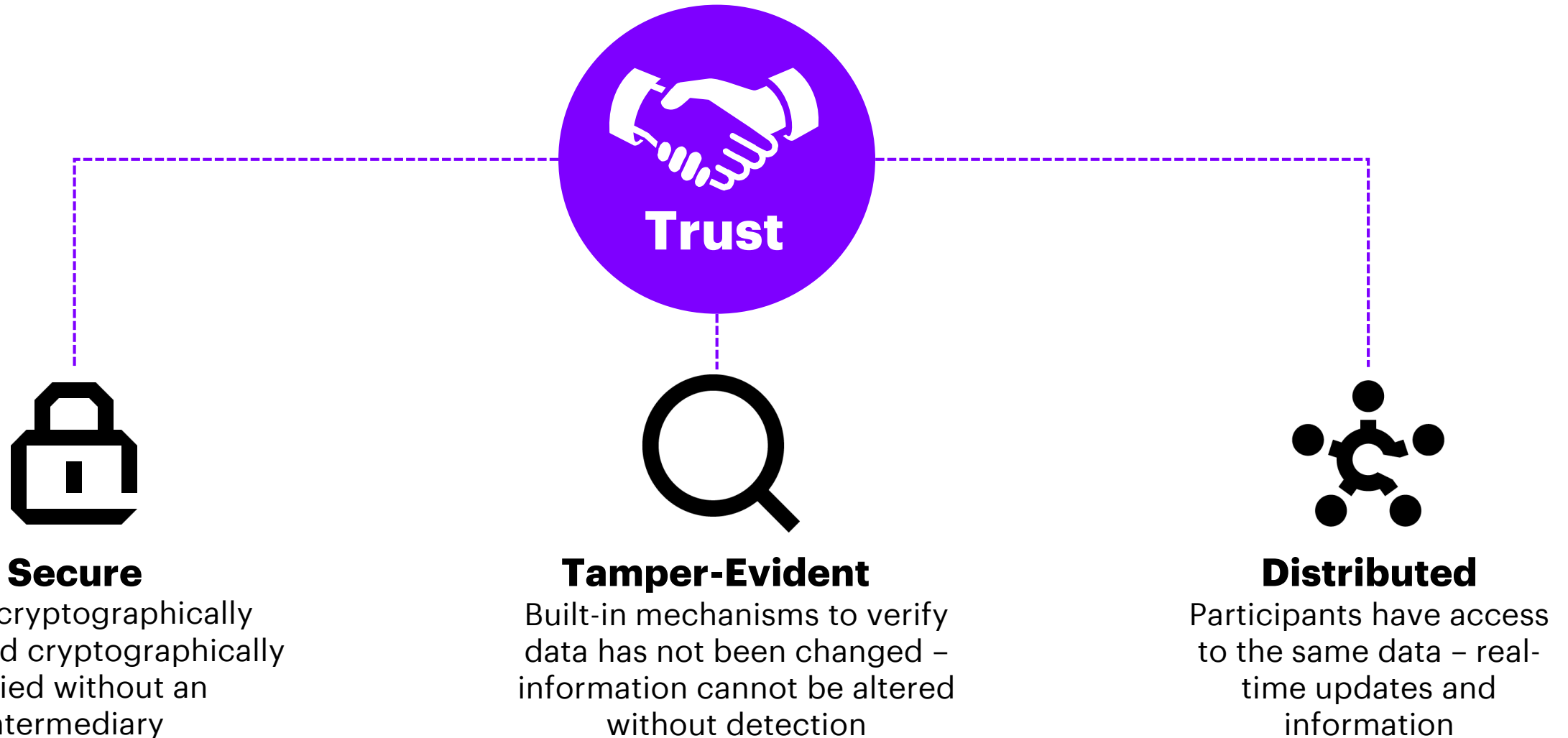
Most countries have different forms of recognized identities within their countries. Some require compulsory carry IDs, some don't. **For any type of digital identity, however, it must be useful.**

**Even if one can be identified and authenticated,** there are a lot of others issues e.g.

- Reliability/trust worthiness
- Validity
- Mutual recognition
- Portability
- Permanence
- Acceptance
- User Adoption

**Digital identity must provide value to the users of the systems and must be useful to drive adoption.**

# BLOCKCHAIN ENABLES DECENTRALIZED IDENTITY THROUGH **TRUST**



# WHY IS DECENTRALIZED IDENTITY RELEVANT



## FOR THE USER:

### **PORTABLE**

Users can take their identity data with them

### **USER EXPERIENCE**

Reduce amount of repeated input

### **ACCURATE**

Data shared more accurately and consistently

### **PRIVATE**

User is in control of what to share, and with whom

### **REDUCE RISK**

Index of data persists; don't share info if not required



## FOR ORGANIZATIONS:

### **EFFICIENCY**

Decrease dependence on manual processes

### **VERIFIABLE**

Data can be easily verified and shared confidentially

### **TRUST & INTEROPERABILITY**

No need for direct trust relationships

### **COMPLIANCE**

Immutability and auditability of blockchain

## DIGITAL IDENTITY

# ACCENTURE'S APPROACH

Blockchain can be used for **interoperability** between existing databases and systems

**No PII is stored on chain** – permanence of the blockchain needs to be considered

**The end user is in control of their data**, or they can choose to delegate control to trusted parties

**Traditional trust anchors, e.g. banks,** governments play a key role in being the gatekeepers and source of trust of an identity

**Biometrics** may be used to bind an identity claim to the individual making the claim



# EXAMPLE PROJECTS [1/4]



**HEALTHCARE RECORDS:** Enables patients to share and manage their own health records so that they can easily get healthcare services and prescriptions anywhere



**STREAMLINED KYC:** accelerate the KYC process with client consent through attestations from network of banks



**BACKGROUND CHECKS & TRAINING RECORDS:** Reduce repetition in background checks & build trusted records of education and professional certificates



**PROOF OF OWNERSHIP / INSURANCE:** attestations of property ownership, for instance, used to get insurance or file taxes

# EXAMPLE PROJECTS [2/4]



**FOOD SAFETY** - How blockchain technology can be used to enhance the traceability of the pork health export certification process.

- A web app which allows both the ante mortem and post mortem vets to conduct their inspections, approvals and reporting; removing duplication of paperwork.
- A mobile companion app, enabling vets to upload photographs onto the chain as immutable evidence. e.g. to prove the seal on a pallet has not been tampered with and also removing the need to use personal devices.
- An analytics dashboard to digitally present key data metrics and enable reporting.
- A user research document, highlighting how the combination of blockchain and design could transform industry processes in the future.

## KEY SOLUTION CRITERIA



### **Traceability**

Provide greater transparency and immutability of data



### **Decentralised Processing**

Distributed and resilient infrastructure with no single point-of-failure



### **Smart Contracts**

Show how Smart Contracts can simplify and automate business processes



### **Privacy of Transactions**

Only relevant parties will have visibility and access to transaction details



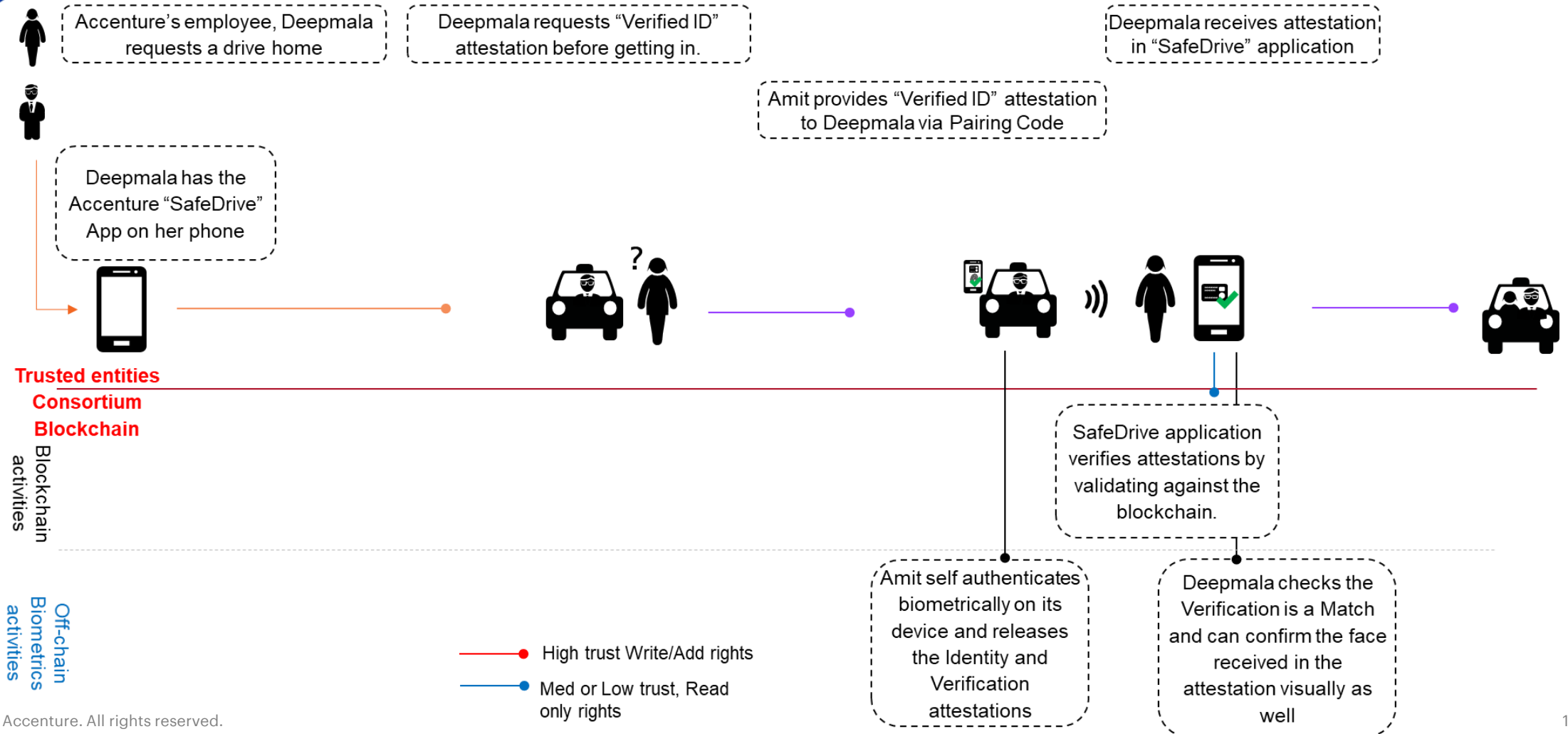
### **Regulatory Oversight**

Allow regulators to more easily and closely follow trading behavior to help combat fraud and resolve legal disputes

# EXAMPLE PROJECTS [3/4]



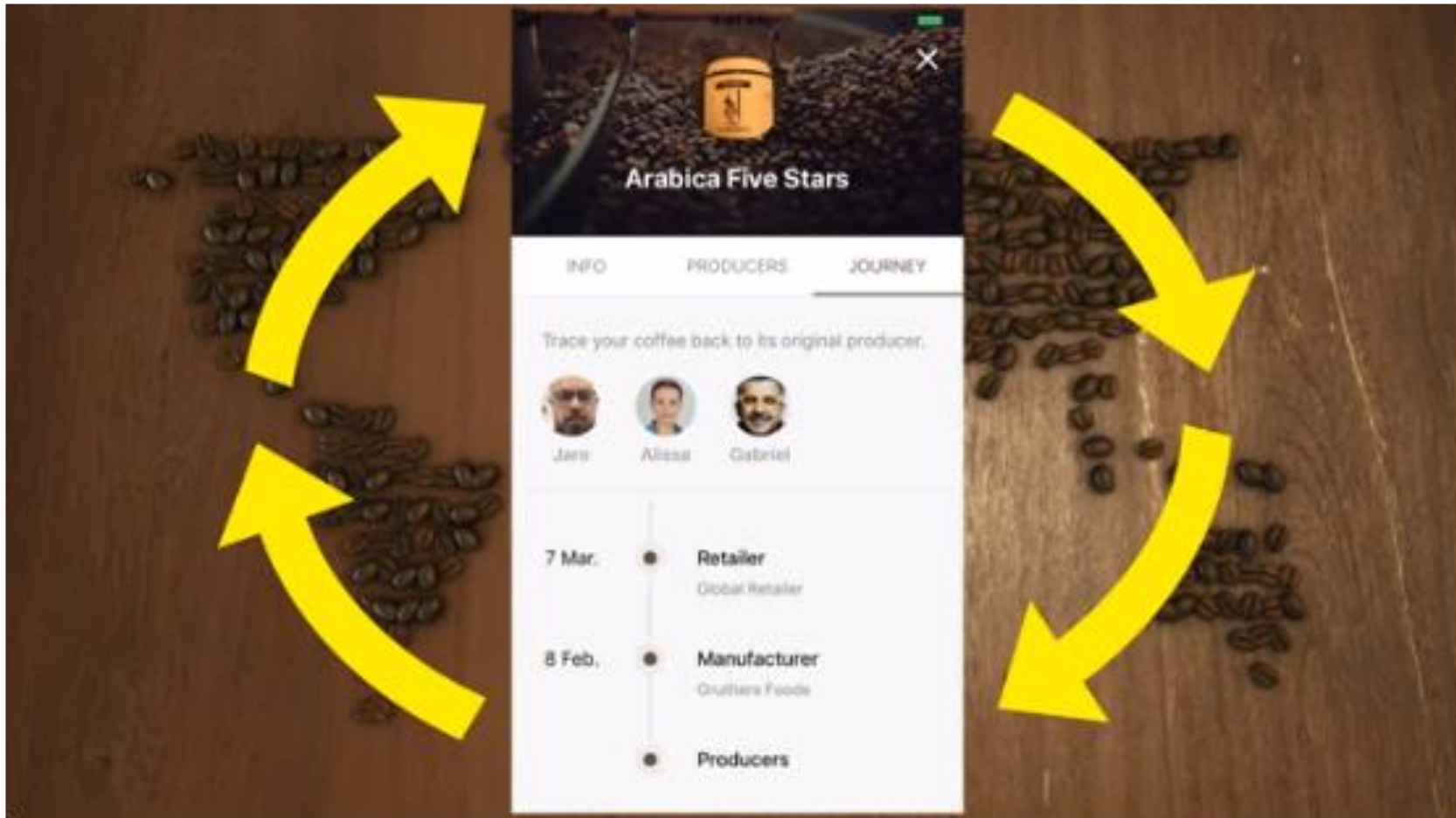
**SAFE DRIVE:** Rideshare providers can verify the identity and authorizations of drivers and passengers can verify driver identity to ensure that the driver is legitimate



# EXAMPLE PROJECTS [4/4]



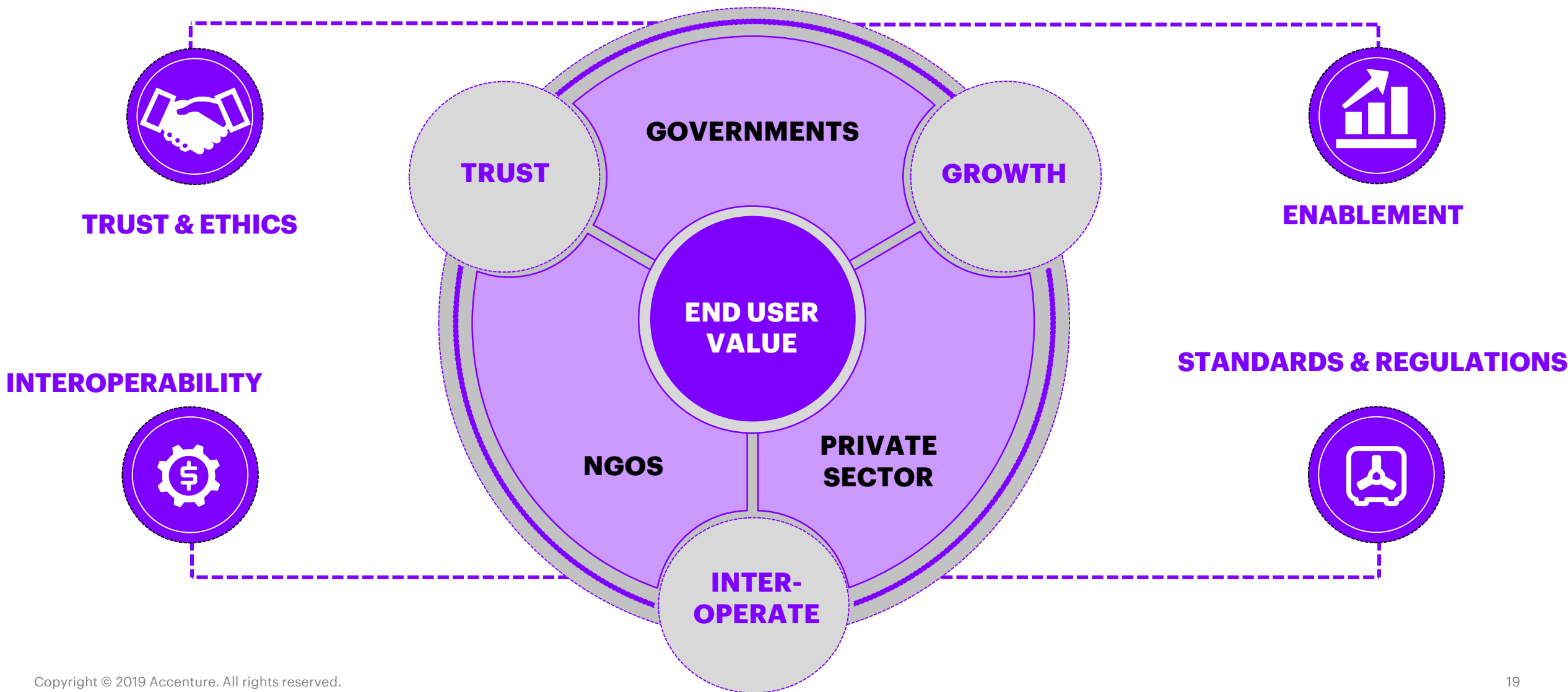
**CIRCULAR SUPPLY CHAIN:** Connects consumers directly to producers, influences positive behaviors of each provider through transparency and traceability in supply chains





**PUBLIC-  
PRIVATE  
COOPERATION  
IS KEY**

# CROSS-SECTOR COLLABORATION: A COLLABORATIVE ECOSYSTEM IS CRITICAL



# GETTING TO THE NEW WORLD OF IDENTITY



**Focus on  
user value**



**Stewardship**



**Shift in  
mindset**



**Accountability**



**Partnerships  
& ecosystem**



**Speed in  
technology  
changes**



**Governance**



**Innovation**



**Security &  
privacy**



**THANK  
YOU**

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