







Challenges in COVID-19 Epidemiology Research











Needed New Diagno	sis Codes
World Health Organization (WHO) ICD-10:	U07.1 COVID-19, virus identified U07.2 COVID-19, virus not identified
United States ICD-10-CM:	U07.1 COVID-19
United Kingdom ICD-10 5th edition (UK):	U07.1 Emergency use of U07.1 U07.2 Emergency use of U07.2
Canada ICD-10-CA:	U07.1 Emergency use of U07.1 U07.2 Emergency use of U07.2
Australia ICD-10-AM 11th ed:	U07.1 Emergency use of U07.1 U07.2 Emergency use of U07.2 U06.0 Emergency use of U06.0































		Case Management	Proximity Tracking		
		Tools to capture data on cases and contacts; some allow for automated notification and follow-up	Tools that use Bluetooth or GPS to track an individual's exposure to cases; used in addition to contact tracing case management tools		
y User	PHAs	 PHAs collect information on cases and contacts and follow up when necessary 	 PHAs receive information that users choose to share to enhance contact tracing 		
Primar	Cases and Contacts	 Users report symptoms and contacts and can receive information 	 Users elect to share data and are alerted if they have been close to a COVID-19 case 		
	Key Points	 Ability to receive information from COVID-19 data systems through importation or automated means Allow for automated notifications and follow-up 	 Proximity-sensing technologies that preserve personal privacy are still under development by many groups across the country Requires community-wide adoption 		













Whe	re is	Valu	e of	Bloo	ckch	ain?		burs
Key Dimensions	Improved Profitability and Quality			Increased Transparency		Reinvent Processes		
	Automation ties Full Traceability		Control		Distributed		Decentralized Autonomous x	
Capabilities			Security		Holistic View		Enhanced Identity	
	Speed / Efficiency Evidence		Tampering			Tokenization & Digital Assets		
Value Drivers	Audit- ability	Compli- ance	Data Mgmt	Data Security	Data Sharing	Resiliency	Authen- tication	Identity Mgmt
	Owner- ship	Payments	Process Auto- mation	Recon- ciliation	Trans- parency	Trust	Market- place creation	New products
Standard- ization		Standard- ization	Track and Trace				New / e partne	xpanded erships
W	orld Econo	mic Forum (i	2019)					



































Key Points

Development of a new blockchain-based solution requires tremendous:

Understanding of the market
Knowledge of current best practices
Data collection to create evidence
Risk assessments and mitigation
Implementation strategy and messaging





Crush COVID-19 and beyond

Humanitarian (non-revenue-generating) blockchain environment to:

- Advance research about this pandemic
- Prepare for future public health needs
- Promote collaborations















burst iQ **Other Features** • Many corporate and association partners • Collaborative environment 0 • Crowdsourcing options 0 • HeroX challenges • Perform analyses on chain ୶ 2 Governance Committee oversight 59





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