

## **Immunodex Announces Digital Health Certificates to Reboot the Economy during COVID-19**

**Hong Kong, 16 June, 2020**, Immunodex, a multidisciplinary technology initiative, is proud to announce the launch of its Digital Health Certificate (DHC), a digital proof-of-health that allows cleared individuals to return to everyday life.

### **A reliable system that puts society on the path to economic recovery**

Immunodex believes its DHC will ease quarantine and isolation restrictions by proving the health status of any individual cleared of infection for COVID-19. Cleared individuals can be authorized the freedom of work, travel or other forms of mobility, while governments, healthcare systems and businesses can resume operations safely. This will put society on the path to economic recovery whenever a vaccine is available.

“Tracking health is vital for getting people back to work, especially essential workers” explained Lawrence Ma, Ph.D., Chief Scientist of Immunodex and CEO of EMALI. “However, each decision maker has its own definitions and policies for health compliance, and the accuracy of testing is an omnipresent challenge. We need a system that holds companies accountable for their test kits and lab tests, as well as faithfully report on the health status of individuals while genuinely respecting their privacy. Without these, decision makers cannot enforce their policies.” continued Mr Ma.

### **A technology initiative jointly developed by Hong Kong Blockchain Society, EMALI and partners**

Developed by healthcare professionals and cryptography researchers from the Hong Kong Blockchain Society, the local Fintech startup EMALI.IO and partners, the DHC is a collection of health information issued by an attesting party (such as a medical lab or healthcare professional) verifying that its holder has low risk of being infected by a disease (via diagnostic assessment or immunization if available). Immunodex's DHC conforms with the World Wide Web Consortium (W3C) Verifiable Credentials guidelines, outlining a recent technology that requires blockchain and advanced cryptography to make digital identities auditable, fraud-proof and therefore trustworthy to any verifying party.

Ms Christine Cheung, Director of Corporate Development of Hong Kong Trade Development Council (HKTDC) remarked "HKTDC engaged the local Fintech startup, EMALI to develop a Blockchain-enabled declaration system in 2019. We are pleased to know that riding on their work for our organization, EMALI has developed Immunodex to help facilitate resumption of daily activities around the world in face of the COVID-19 pandemic."

### **Based on cryptographic research & is EU GDPR compliant**

Based on several years of proprietary cryptographic research, Immunodex's DHC is built to be provably secure and privacy-preserving. All data registered onto the certificates is owned by the holder (the patient) and only shared with other verifying parties upon consent. Immunodex may further enhance privacy of all parties with integrated zero-knowledge proof cryptography and anonymous credential techniques. Their verifiable credentials technology is EU GDPR compliant.

### **Help health authorities to control pandemic and prepare future public health threats**

The DHC's digital certificates are designed to be issued by authorized healthcare institutions who would administer and generate results of reverse transcription polymerase chain reaction (RT-PCR, i.e. "swab") and lateral flow immunoassay ("antibody") tests, the clinical diagnostic tools currently available. Additionally, Immunodex offers health authorities the ability to coordinate mass screening

## FOR IMMEDIATE RELEASE

programmes — patients can schedule testing at a designated site and will be automatically updated with the results in their DHC. Immunodex's technology is capable of anonymizing collected epidemiological datasets to support government policies for controlling the pandemic, while simultaneously preparing for future public health threats.

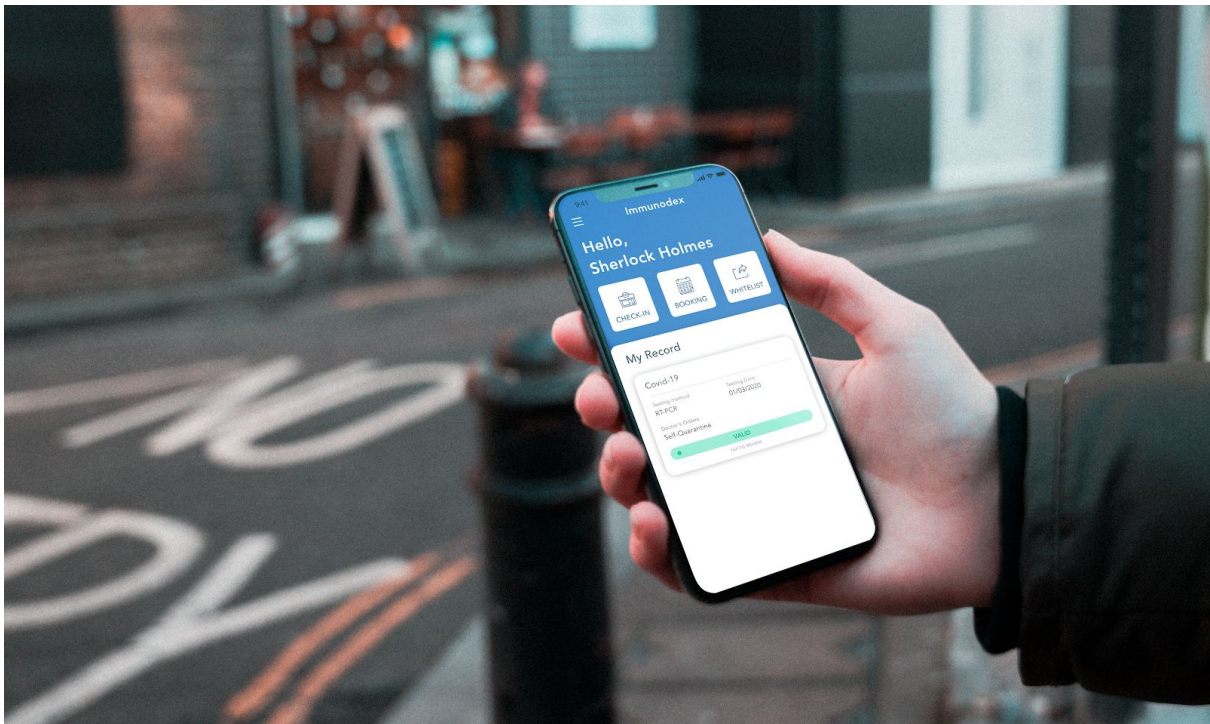
### **With secure mobile app and user-friendly interface**

The DHC is available for individuals as a secure mobile app with an intuitive, user-friendly interface. Upon the holder's consent, the relevant information is exchanged via scanning of a QR code. For healthcare providers, Immunodex's "plug-and-play" solution can be readily integrated into most clinical settings and government agencies, including with cross-border policies.

Immunodex was founded by a team of experts in healthcare, blockchain, cryptography, and data governance from Canada, Hong Kong and Europe. It is expanding globally to deliver the next generation of user-centric verifiable credentials for vaccinations and immunizations.

— ENDS —

**Photo 1 :**



*Caption 1: Immunodex's DHC proves an individual's health status with regards to COVID-19 in a secure, tamper-proof and privacy-preserving way.*

FOR IMMEDIATE RELEASE

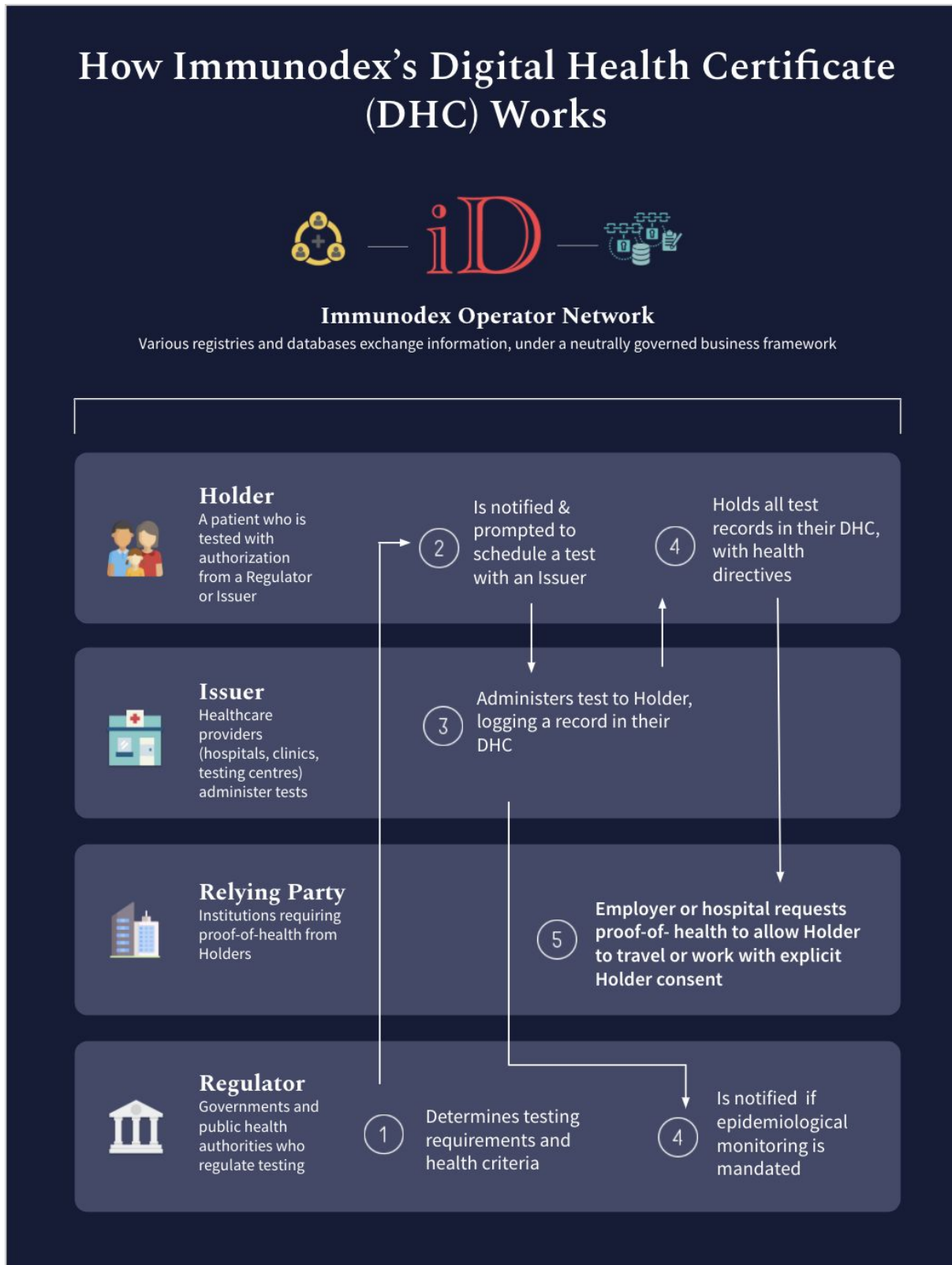


Photo 2:



*Caption 2: Lawrence Ma, Ph.D., Chief Scientist of Immunodex and CEO of EMALI.*

Photo 3:



Caption 3: A brief schematic of how Immunodex's DHC works.

**About Immunodex**

Immunodex is an COVID-19 initiative that developed in Hong Kong & Canada via collaborations with academics, corporate and non-profit entities to deliver verifiable credential products for healthcare applications around the world. For more information, please visit [www.immunodex.com](http://www.immunodex.com).

**Media Contact**

Immunodex Public Relations  
[info@immunodex.com](mailto:info@immunodex.com)  
+852 5982 1304

**Reference information: the development of digital health certificates**

Digital health certificates have received support by prominent technology figures, such as Bill Gates during an “Ask-Me-Anything” session on Reddit last month. To a question one user asked about how businesses could keep running while complying with social distancing rules, he answered, “The question of which businesses should keep going is tricky. Certainly food supply and the health system. We still need water, electricity and the internet. Supply chains for critical things need to be maintained. Countries are still figuring out what to keep running. Eventually we will have some digital certificates to show who has recovered or been tested recently or when we have a vaccine who has received it.”

The US, UK and German governments have been reported to be working on some form of immunity credential to allow recovered, antibodies-positive people, estimated to be anywhere from 2.8%<sup>1</sup> to 15%<sup>2</sup> of the population, to return to the workforce.

**References**

1. Bendavid E, Mulaney B, Sood N, et al. COVID-19 Antibody Seroprevalence in Santa Clara County, California. *MedRxiv* 2020 [Ahead of press].
2. Vogel G. Antibody surveys suggesting vast undercount of coronavirus infections may be unreliable. *Science* 2020.