

INVESTOR EXECUTIVE SUMMARY
QUANTUM-BASED, REAL-TIME COVID CARRIER SCREENING ROOM

- Summary** Research Center for Quantum Technology, Chiang Mai University, is collaborating with Rebus Co., Ltd. in creating a screening room that can detect COVID-19 carriers in real time. Our technology offers drastic improvement in COVID-19 screening process in terms of scalability, time of diagnosis, and cost of testing. We have a proof-of-concept prototype ready and are raising THB 100 million to commercialize this technology within six months. We are looking for visionary investors who want to unlock international trade and travels, accelerate recovery from the global economic recession, and free mankind from the fear of virus.
- Background** With over 55 million cases of infection and over a million deaths, the COVID-19 pandemic has wreaked havoc internationally on an immeasurable scale. To curb the spread, an effective and efficient method to test for an infection is necessary. Currently, the most reliable method to test if the person is infected is to conduct a tissue swab, culture growth, and gene mapping. This process can take hours to days, is expensive, and is hard to scale. International communities are in grave need for a cheaper and scalable testing method that can provide immediate result.
- Our Tech Solution** We have developed a quantum-based, non-invasive, breath-analyzing technology that allows us to instantly diagnose if the person is a potential COVID-19 carrier after the person exhales into our device (similarly to typical breathalyzer). This diagnosis tool can be fitted inside a negative pressure room, hence creating a screening room that can contain the individual inside and safely restrain the contagion if she/he is tested positive. This screening room can be mass-manufactured and placed in entry points of high-contagion-risk areas, such as airports, malls, stadiums, or office buildings to provide real-time COVID-19 carrier screening.
- How It Works** Research has shown that COVID-19 can be contaminated through airborne droplets, which means the virus particles can be detected in the breath of carriers. Our device will use nano-interferometric biosensor that will automatically detect and send out alarm if the person's breath contains virus particles.
- The Plan** We have successfully developed a proof-of-concept prototype. Once we have received the investment fund, we will accelerate our R&D process to complete the design of our commercial prototype within six months.
- The Ask** We are looking for investors who would like to participate in our THB 100 million investment round, with minimum investment of THB 10 million for each investor. All R&D contracts will be made between individual corporate bodies and Chiang Mai University.
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