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| Start-up name | ICTK Sarl (http://www.ictk.com/) |
| Date of creation | 01.06.2016 |
| Share capital | €12,500 |
| Founder(s)' name(s) and academic and/or entrepreneurial curriculum | <p>Branch manager: Ms. Seungeun PARK, University of Hamburg, MBA graduate is leading the ICTK Luxembourg Start-up. (Worked at Vodafone, LG, Beiersdorf AG.)</p> <p>Regarding PUF business unit, the below team members are located in Seoul, South Korea.</p> <p>1. Sam S. Yu, Vice Chairman: Ahn-Lab, Consultant in Resident, Microsoft Korea, President & General Manager, HP Computer Systems Group (USA), Director of Strategic Alliance, Stanford Univ., MS (USA) 2. Dong Hyun Kim, CEO: Korea Standard Association, Consultant, Ajou University Graduate 3. Justin J. Lee, COO: Hoseo Venture Capital, Director, Hoseo Univ. Assistant Prof, BSL (Singapore), Director, Harvard Univ., BA (USA) 4. Doo Jin Bak: Vice president: Samsung Electronics, Sr. Director, ST Microelectronics Vice president, Seoul National University, Bachelor of Electrical Engineering 5. Bong Jae Jin: Sr. Director, KDCOM Senior Engineer, Soonchunhyang University, Bachelor of Electrical Engineering 6. Geun Yong Park: Outside Director, UTC Investment Director, Orient Securities (current Tongyang Securities), Seoul National University, Bachelor 7. Dong Kyu Kim, CTO: Hanyang Univ., Fusion Electronics Department, Prof, Korea Electrical Engineering Association Semiconductor society, Director, Seoul National Univ. Ph.D 8. Byong Deok Choi: Special Research, Hanyang Univ., Electric Electronics Department, Prof. LG Electronics, Senior Researcher 9. Jong Hak Baek, Chip Development, Department Head: Samsung Electronics, LSI Principal Research Engineer, Hanyang Univ., PhD, Electrical Engineering 10. Je In YU: Security Development, Department Head: Samsung Electronics, DMC Principal Engineer, KAIST Electrical Engineering, PhD.</p> |
| Number of employees | 46 persons: 1 person is located in South Korea, 4 persons in the China office, 1 person is located in Luxembourg. |
| Field of activity and description of the product/service | PUF-based H/W key and key/data protection solutions which, as a basic element of security, provide both higher convenience and stronger security. PUF is a digital fingerprint for devices which is unique and unclonable. By making the device unique and unclonable, any transaction through such device is non-repudiable and secure. This curtails several steps in financial transaction while providing superior security, providing faster and easier financial transaction environment for users while reducing reliability for service providers. |

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| <p>What is your business model based on?</p> | <p>ICTK's unique and innovative PUF are already patented for the global market. There are giant competitors such as NXP, Hitachi, Mitsubishi, Samsung, Philips and others trying to create PUF for a decade but failed to create PUF that is reliable yet; hence no mass production yet. ICTK has tried over 40 FAB runs to create chips and is ready for its mass production in June of 2016 with *JEDEC and **NIST proven PUF (*JEDEC-Joint Electron Device Engineering Council; **NIST-National Institute of Standards and Technology) ICTK is aggressively investing in order to secure additional certifications for testing capacities. After expanding our testing facility and completing certifications, sales are rising due to our additional testing capacities.</p> |
| <p>Last (or current) fundraising</p> | <p>3.9 Million Euros, Venture Capital Funds in 2014. 1.6 Million Euros, Korea Ministry of Trade, Industry & Energy in 2014. Its smart card-testing business supports its running of R&D and sales team for PUF business.</p> |
| <p>Base financial data (turnover; result if relevant)</p> | <p>The sales forecast is to be seen from DEC.2016.</p> |
| <p>What is your growth forecast for the next 3 to 5 years?</p> | <p>2016: 4.5 Million Euros 2017: 14.5 Million Euros 2018: 31.3 Million Euros</p> |
| <p>Why did you choose Luxembourg?</p> | <p>Our main aim is to develop our R&D further with SnT in Luxembourg, which has renowned researchers. Our R&D centre is currently located in South Korea but we need to go further with the global standard to promote our technology into the European and global level. Luxembourg is the best place for innovation. We also look for governmental aids or Venture Capital who would like to invest to the world's first technology which is just ready for the market use. Furthermore, our final aim is to grow in Luxembourg to increase projects and hire more staffs.</p> |
| <p>What makes your product/service different from others on the market?</p> | <p>ICTK provides the innovative chip-based security solution. With the new-generation digital fingerprint called VIA-PUF, a physical unclonable function, it created the most secure and cost-effective way to provide security solution. This unclonable identification and encryption key is applicable to smart devices, cloud computing, smart grids, intelligent automobiles and many other IoT sectors for secure yet flexible designs.</p> |
| <p>Why do you think your business will have value in 5 years?</p> | <p>The IoT market is growing rapidly and the key word for the IoT market is « SECURITY ».</p> <p>To protect the big data through sensors, « SECURITY » is the top theme which must be supported, and ICTK's VIA PUF is the world first mass production available technology.</p> <p>Development of PUF-based H/W Key generation technology is a next-generation technology to the Private Key management of the main problem in the security technology.</p> |