A chronic neurological disease monitoring service for healthcare professionals
Hidea Solutions Co., Ltd. was established in 2001 as a sensor and sensor network specialist. Since then, we have continuously accumulated our capabilities related to sensors and Internet of Things (IoT). At present, we are focusing on telecare solutions that provide healthcare, safety and security services for the aged and the disabled.

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Hidea Solutions Co., Ltd.</th>
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<tbody>
<tr>
<td>CEO</td>
<td>Seung-Yeop Lee</td>
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<tr>
<td>Business Areas</td>
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<td></td>
<td>• Development and manufacturing of telecare devices</td>
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<td>• Development and operation of a telecare service platform</td>
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<td>• Development of IoT sensor devices</td>
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<td>• Design and construction of a wireless sensor network</td>
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<tr>
<td>Date of Establishment</td>
<td>February 11, 2001</td>
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<tr>
<td>Address</td>
<td>3 Achasan-ro, Seongdong-gu, Seoul, South Korea</td>
</tr>
</tbody>
</table>
• 2016. 04: Signed an MOU for the development of LivOn Telecare & health care service and conducting Pilot with Italy AdiTech
  03: Signed an MOU for the development of LivOn Telecare & health care service with Turkey Delta Teknoloji ve İnovasyon A.Ş.

• 2015. 11: Received the IT Convergence Entrepreneur Award from the Minister for Commerce, Industry, and Energy
  11: Selected for a Korea-Swiss joint telecare service platform development project for chronic patients
  07: Started LivOn Telecare & health care service Pilot with Romania Butonulvietii
  06: Carried out a stretchable smart-band development project for youth physical fitness measurement
  06: Constructed a complex for demonstrating demand-linked daily healthcare
  04: Started exporting LivOn telecare devices to Japan NSK
  02: Developed a healthcare technology and an empirical model for AAL-based smart apartment houses
  (Ministry of Land, Infrastructure, and Transport)

• 2014. 08: Signed an MOU for the development of an elderly-insurance-combined product with AIA Life Insurance
  07: Signed an MOU for remote monitoring services for patients using CPAP with Resmed from Australia
  07: Received an order from Qualcomm for the development of an LTE-based next-generation telecare/mHealth device
  04: Joined Telecare Service Association in UK, Director of Korea IoT Association

• 2013. 12: Selected as the leading company for industrial convergence by the Ministry of Commerce, Industry, and Energy
  06: Started supplying emergency safety systems for severely disabled persons (Ministry of Health and Welfare)
  02: Received the IF Design Award in Germany
  02: Started exporting LivOn telecare devices – Swiss Domo Safety

• 2009. 07: Started supplying emergency safety systems for elders living alone (Ministry of Commerce, Industry, and Energy)
  07: Constructed the U-Safety system for Hyundai Heavy Industries

• 2008. 12: Constructed the remote shipping management system (CMS) for the LG Electronics plant in Reynosa, Mexico
Telecare is a hub-type service for the residential space of elderly people. As such, it has a high potential for being combined with other services, such as insurance and medical care, and is expected to expand to mHealth and big-data services. Hidea is endeavoring to develop into a provider of HSSE* devices, platforms, and services for elderly households.

(*HSSE: Health, Safety, Security & Environment)
Task Overview

- **Subjects**: Related Medical Expert for Chronic neurological and psychiatric disorders (Parkinson’s disease, Alzheimer’s, depression, epilepsy etc.)

- **Development Technology**: IOT Technology, Mathematical algorithms, The visualization tools, Innovative therapeutic management based on advanced biomarkers, Integrated diagnostics, Preventive Services Development

- **The Ultimate Goal**: Development of a professional commercial service for Medical institutions, Protection Agency, Visiting nursing services etc.
1. End-to-End Integrated Solution Development

① Sensor
- New sensor Survey & Selection, Development & Commercialize
- The existing sensor precision/acceleration
- Definition & Realization of Sensor interlocking Protocol

② Gateway
- Protocol standardization & Development between Gateway & Server

③ Application
- Development of commercialized application installed accelerated analysis tool
- Build up domestic service infra structure

2. Exchange of Medical Protocol & Diagnostic technique for Domestic & Overseas about a chronic neurological disease
- Research on a chronic neurological disease – behavioral disorder (CHUV)
- Clinical Test for Research hypothesis verification (CHUV / CAUV)
- Visiting care protocol Development & Verification (CAUV)

1. End-to-End Integrated Solution Development

① Development of Analysis tool
- Development of Mathematic & Statistic pathology prediction analysis algorithm
- Development of New medical prediction analysis tool based on joint research of the two countries medical institution

② Development of Application
- Design & Development of Application installed accelerated analysis tool
- Development of commercialized application workflow for medical expert

③ Build up infra structure
- Realization of high use infra considered data traffic and stability
Participating Organizations in Korea

- Various research experience of Neurology and Parkinson's disease
- Possess Medical professionals for Parkinson's disease

- The oldest and largest Nursing College in Korea
- Possess Community Healthcare professionals
Domo Safety S.A.
- Founded in 2010
- Located on EPFL Innovation Park, Lausanne, Switzerland
- Leading 3rd Generation Telecare Service Company
- Focus on Western European Telecare Market
  - Swiss, Belgium, Holland, Germany, France, Austria, Italy
- Partner with Hidea since 2012
  - Hidea: Focus on Device and communication Technology
  - Domo Safety: Developing Service platform and application

Lausanne University Hospital
- Largest Medical university hospital in Swiss
- One of the Europe’s leading centers in neuroscience
- 200 medical staff in Department of Neurology

EPFL
- #1 international universities and #12 Engineering & Technology University in the world (Times, 2015)
- Strong in Computer science and Machine Learning
- Home for Domo Safety
Thank you.