

# Smart Shoes for Both the Disabled and the Non-disabled

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⇒ Wearable smart devices that can be used by both disabled people and ordinary people at low prices and various functions

### Client / Market

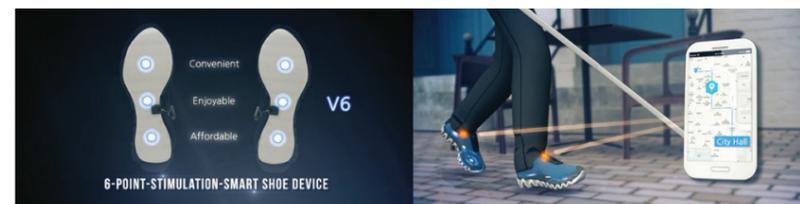
- Assistive device for visually impaired
- Pedestrian navigation
- Wearable entertainment device

### Necessity of this Technology

- For visually impaired, their hands replace the roles of the eyes. In order to use Braille pads, which are used by the visually impaired, for outdoor activities, one hand should be placed on the braille pad and one hand should be carrying a stick.
- In other words, since both hands are used, it is difficult to cope with emergency situations
- In addition, assistive devices for the visually impaired are not cheap in price because there are not many users, and the development of the products is not fast.

### Technical Differentiation

- This technology is equipped with a supplementary device in the shoe insole, providing the convenience of one hand for the visually impaired.
- We construct six driving units that can transmit braille information to shoes. It can be linked with a smart device such as a smart phone to perform navigation functions when moving, or to provide simple braille information based on location to blind people.



- Navigation through shoes can be a very useful technique for the general public. As a smart device, various sensors can be inserted in module form to be used for entertainment (health, gait analysis, etc.).



### DESIRED PARTNERSHIP

Technology Transfer

Licensing

Joint Research

Other

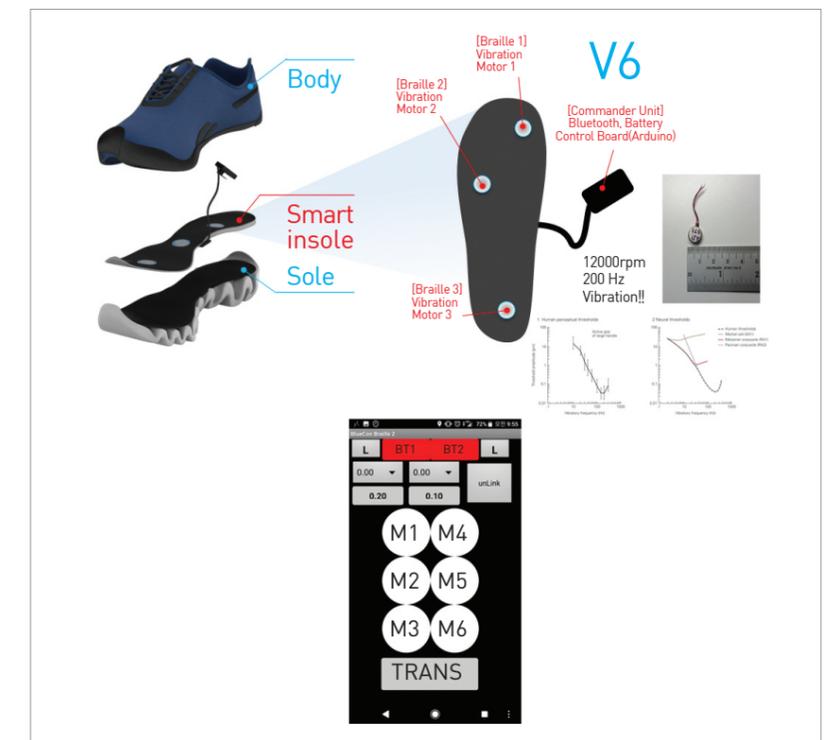


### TECHNOLOGY READINESS LEVEL [TRL]



### Excellence of Technology

- Various consumers can be secured as it can be used both by the disabled and the non-disabled.
- Realizes a social value where a better life is shared using a smart device.
- Design, production, and module-level performance verification is completed.
- Completed a demo version that reflects the opinion of the disabled.



### Current Intellectual Property Right Status

#### PATENT

- Smart Shoes Having Function of Information Transfer and Method of Providing Information Using the Same (KR1757377) and 3 others