



SmartRehab

An AI-powered Platform for Patients Necessitating Rehabilitation

Principle Investigator: Prof Gary Lau

It makes rehab more **accessible**, **affordable** and **scalable**, particularly in regions where traditional rehab services are limited.

Prof. Jeyaraj Pandia (President, World Stroke Organization)



Intellectual Property

US patent (US 63/578,370)
HK patent (HK30108417)
China patent (CN119517289A)

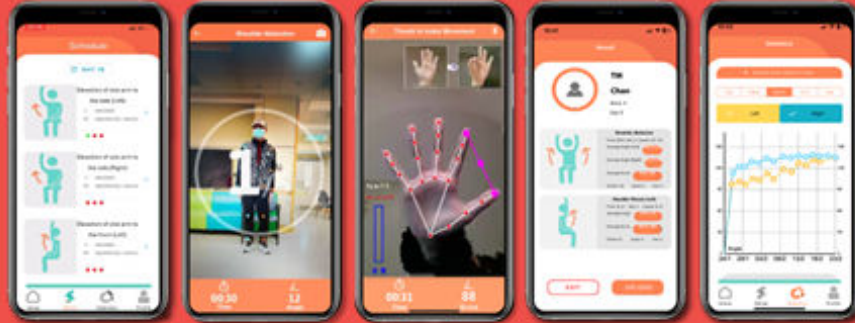
Contact

Website: www.remobility.net/
Email : gkklau@hku.hk



Technology

- Use of computer vision & deep learning technologies to facilitate personalized home rehabilitation without need of external sensors
- Real-time AI analysis of movements to facilitate monitoring of compliance, provision of personalized feedback to facilitate recovery



Stage of Development

- 2020 • Developed by multidisciplinary team of HKU Neurologists & Engineers & therapists from HK Society for Rehabilitation (ITF for Better Living Grant 2020)
- 2023 • Founded ReMobility Ltd. in 2023 [Technology Startup Support Scheme for Universities (HKU), & HKSTP Incubation Programme (2023 – 2026)]
- 2025 • Completed study to determine feasibility, usability & acceptability in 8 hospitals across 7 countries (World Stroke Organisation Grant)
 - Cost-effectiveness study in 3 hospitals within HK Hospital Authority (HA) underway (commissioned by HA Head Office, completion 2026)
 - MOU with Xiamen Humanity Rehabilitation Hospital signed with mission to implement SmartRehab in China
- 2026 • Ongoing clinical use in Tung Wah Hospital (HK) & subscription by HK Sanatorium Hospital, negotiations with Gleaneagles Hospital HK & other organizations underway



Key Advantages

- Huge market potential given high & growing global demand for rehab
- Excellent feedback from patients and therapists globally
- Commendation by Presidents of World Stroke Organization, World Federation for Rehabilitation & International Society of Physical & Rehab Medicine
- Currently no market competitors with similar extensive local & international networks to facilitate diffuse market penetration across sectors
- Gold Medalist with Congratulations from the Jury in International Exhibition of Inventions, Geneva (2024)
- Only HKU Startup Finalist in Asia Technology Entrepreneurship Competition 2025



Opportunities

- Local – deployment in public (under HA GO App) & private hospitals & NGOs
- Regional – deployment throughout China after piloting & optimisation in Xiamen, obtaining NMPA for more widespread clinical use, collaboration with China Disabled Person Federation & insurance companies
- International – deployment via World Stroke Organization networks, FDA approval for more widespread clinical use
- R&D – more exercise modules for a range of health conditions (e.g. cardiopulmonary rehab), gamification, pairing with wearables for biometric monitoring; leverage cumulating multi-modal big data to further facilitate AI-assisted personalized rehab with objective feedback

