

**Approved Projects under
Innovation and Technology Fund for Better Living
(as at November 2019)**

	Approved Projects with Fund Agreement Signed^{Note}	Objective	Beneficiaries	Estimated Number of Beneficiaries
1.	Development of Intelligent Target Aiming Device for Visually Impaired Archery	To encourage and assist the visually impaired persons in participation of sports; and to enhance the competitiveness of Hong Kong athletes with visual impairment	Visually impaired persons and the related service staff	600
2.	HOPE Chinese Words and Sentences Game Mobile App	To facilitate children with dyslexia in learning Chinese grammar and their use; and to enhance their learning motivation	Children with dyslexia	5 000 downloads
3.	VR Rehab Generation	Through the use of virtual reality (VR) technologies, to strengthen the training and treatment effectiveness for elders and people with disabilities; and to promote social inclusion and sustain the development of VR programmes in rehabilitation services	Elders and people with disabilities	4 000

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4.	Implementation of robot drama education programme for reducing challenging behaviours of kindergarten children with autism spectrum disorders (ASD)	To let the ASD children of kindergartens understand the rationale behind real-life situations through programmed robot drama, so as to coach them to behave appropriately in daily lives	Children with ASD (aged 3 to 6)	900
5.	Pioneer Integrated Palliative and Hospice Care System (iPAHCs)	By allowing patients and carers to perform self-assessment and monitor the vital signs at home and medical and healthcare professionals to make real-time retrieval and updates on the medical records, to enhance the efficiency and quality of hospice care; and to foster the development of the local palliative and hospice care	Terminally-ill patients and their carers	1 517 terminally-ill patients and 2 882 carers
6.	Early Literacy Mobile App	To assist pre-school children to improve their Chinese language abilities in reading and writing; and to enhance their motivation in early literacy learning with new features of augmented reality and dashboard, etc.	Pre-school children with academic ability at K1 level or above (especially those with specific learning difficulties)	3 000 downloads

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7.	Baduanjin (Eight- Section Brocades) Health Programme Game	Through the mobile application with artificial intelligence, to encourage and assist the elderly in practising Baduanjin exercise and nurture a healthy lifestyle	Elders	10 000 downloads
8.	One Click Care	To enhance the quality of life of people with disabilities and special needs through encouraging enterprises to offer facilitation and disseminate information; and to promote social inclusion by raising public awareness of the needs of them and their families	Persons with disabilities and special needs and their families	30 000 downloads
9.	Mobile Application for Health Management Services in Community	To assist the elderly in health management by simplifying the process of data entry through taking photos of the medication labels and medical appointment slips	Elders	20 000 downloads

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10.	Music textbook with augmented reality effect for special primary school students in junior grades	By adopting a multiple-sensory teaching method and visualising the abstract music theories, to strengthen the memories and easy understanding by the students with special educational needs. The interesting 3D graphics help enhance their learning effectiveness and self-directed music learning capability	Junior primary school children with special educational needs, their music teachers and parents	5 700
11.	Smart Community SPACE21	To provide the youth and the public a platform for information on available community space with booking function, so as to enhance the utilisation of community space and raise the youth's sense of belonging to the community	Youth and the general public	120 000 downloads
12.	Patient Rehabilitation Mobile Apps Platform via Mobile Technology	To provide easy access to rehabilitation services through "tele-rehabilitation" that enhances the patients' self-management and the carers' efficiency, so as to foster the patients' functional recovery and avoid long term disability	Patients with stroke, mild cognitive impairment and functional disabilities	10 000 downloads

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13.	Self-managing Healthy Eating and Active Lifestyle for impeding 3-Highs (high blood glucose, high blood pressure and high cholesterol) mobile application (SHEALF3 APP)	To develop an artificial intelligence software which uses the photo-taking function of mobile device to help users understand the nutritional contents of common foods and beverages; and provide health information, so as to raise public awareness on healthy diet and regular exercise, thereby promoting healthy lifestyle	The general public	30 000 downloads
14.	Development of an online cognitive behavioural intervention programme to reduce symptoms of adults with depression	With the application of innovative technologies, to develop an online cognitive behavioural intervention programme culturally and linguistically appropriate to Hong Kong with a view to helping local adults who suffer from mild to moderate depressive disorder reduce their symptoms and improve their mental health	Local adults who suffer from mild to moderate depressive symptoms and local mental health professionals	600

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15.	Development of a smart portable corneal topographer for characterising corneal shape in young children	To quantify the development of corneal shape in children; to overcome the limitations of the existing instruments; and to establish a data bank for medical reference and designing ophthalmic optics products / treatments to control abnormal refractive error development in young Asian population	Children	990
16.	Plaque cleaning apparatus using dental 3-D printing technique by micro-mist injection for elderly and disabled	To develop a safe and simple device to help elders and people with disabilities or dysphagia clean their oral cavity. The use of micro-scale mist mitigates the risk of aspiration of the users and helps improve the oral hygiene of the needy groups	Elders and people with disabilities	500

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17.	Intelligent care system for singleton elderly	To build and train a machine learning model from the data collected by sensors in order to learn the behavioural patterns of singleton elderly; the said technologies coupled with the support service of a call centre enable speedy and effective response to the risks or abnormal behaviours of singleton elderly for improving the elderly's quality of life and achieving ageing in place and sustainable smart elderly care services	Singleton elderly	400
18.	Artificial Intelligence for Swimmer Safety and Performance Analysis System (Smart Swim)	To enhance the safety of swimming pools and the analysis of swimmers' performance through the use of technologies; to foster the artificial intelligence research development for human posture analysis	Swimmers and athletes	5 000
19.	"Ear Connect" - An innovative sign language communication system to promote social inclusion	To facilitate the communication between the public and the hearing-impaired persons and to promote the use of sign language and achieve social inclusion	Hearing-impaired persons and the general public	3 500

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20.	Interactive Chatbot for Online Quick Fix	To provide free technical support service in the form of chatbot, and to encourage and motivate user's self-reliance and abilities to handle IT related problems	The general public and low income families	9 000 downloads
21.	Share Law	To access free legal information by using the technologies of artificial intelligence, natural language processing, chatbot and cloud with the support from volunteer legal professionals	The general public	40 000 downloads
22.	A Multi-modal Speaking App	To enable primary school students enjoy poetry reading and appreciation, thereby training their intonational expression and nurturing their creative minds	Primary school students	4 000 downloads
23.	Mobile App in Enhancing Independence of Daily Living in Elderly and People with Early Dementia	To enhance the independence of elderly with early dementia, as well as alleviate caregivers' burden and psychological stress	Older adults with early dementia and their caregivers	6 000

Note: Among the 25 approved projects, two are pending for the signing of fund agreements and therefore their contents cannot be disclosed.