

Mapping systems encourage the healthy society by promoting walking and outdoor activity. Active 5D mapping system shows useful visible/embedded information and guides citizens safe and easy routes in daily life. It also assists transit oriented development of healthy cities based on geological information in mainly five fields in aging society (fig. 1). (1) Daily Life Activity, (2) Business, (3) Personal Network, (4) Pleasant routes, and (5) Psychological barrier-free.

(2) Business. Older people and the disables should do a work-share in a few days for a week by public transportation system like an Olympic Transportation system. The work-share promotes their health and develops pleasant lifestyles. Effective mobility to an office for the work-share is guided by 5D mapping system. A safe mobility to hospital of acupuncture is also guided. The 5D mapping system guides older people, disabled people, and people that cannot consult a map through safe and easy routes. Wheelchair persons can know steps, risks in steep slopes and safe routes in its 3D map and “psychological care” (fig. 2). It actively shows users awareness “where and how what kinds of damage would cause” by pictures and animations (fig. 3). A wheelchair person and a person with a stroller can find an easy route in order to avoid injury in wrists and elbows etc. by repetition of shocks and pressures in a slope after a long term. The 5D mapping also navigate safe crossing and the right direction of a route without noise by ultrasonic beams that are similar to laser beams.

(3) Personal Network. All people should build “Personal Network” over an area among home, the office and shelters for emergency. They have lots of hobbies and belong to a community for each hobby. A role and a responsibility of each person in the community promote the healthy. “Social type 5D mapping system” with “robot network” assists not only safe and easy mobility but also transit oriented development of healthy cities based on geological information in the five main fields in aging society (fig. 4). Robot network works in case of lack of human helpers and in emergency time. Robots are owned by either each person or a store like super market. Robots have many kinds of useful sensors and share a “transmit context library” and “emergency context library.” Each robot has a private context library of owner’s nature and actions. The robot shows the accurate direction with its arm, a hand and an ultrasonic long beam. It also shows the owner universal solutions in case of emergency after analyzing Big Data etc. that are shared in the robot network.

(4) Pleasant routes. All people should have pleasant routes for their own mobility corresponding to their preferences for environments that are covered by the personal network and friend’s beautiful gardens etc.

(5) Psychological Care/barrier-free. 5D mapping system provide residents with awareness to release them from psychological problems such as normalcy bias and catastrophe forgetting in emergency time.

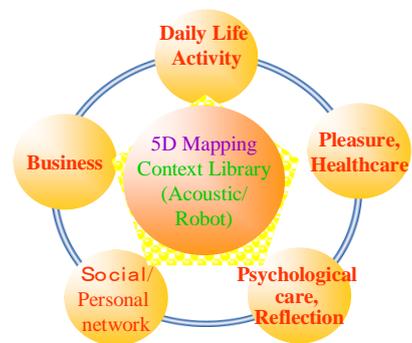


Fig. 1 Transit Oriented Development of ageing society by 5DMapping



Fig. 2 3D Map for slopes

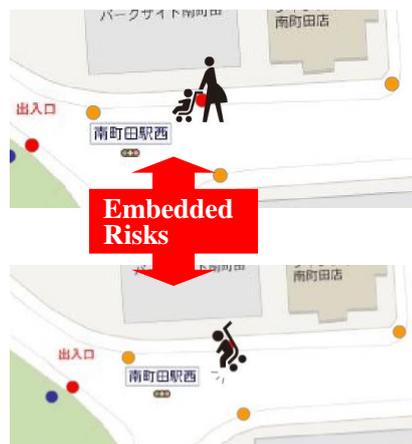


Fig.3 Active guide by animation

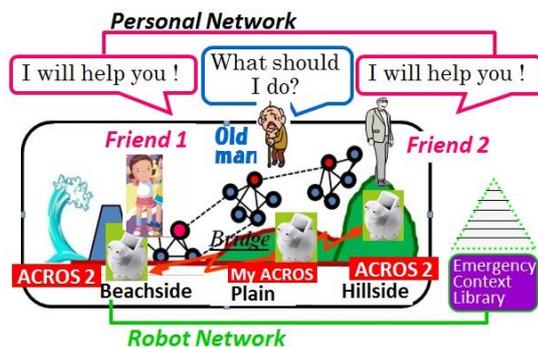


Fig. 4 Human and robot networks for the guide