

Technology for tomorrow's silver-economy challenges



Comfort, wellness, and leisure

Personalized physical activity, design and ergonomics, travel, social networks, cultural activities, food, cognitive stimulation



Independent living

Compensation systems for the disabled, in-home diagnostics, personalized medicine, treatment, e-healthcare



CEA Tech technology

Software applications

Data security and management

Information and communication technology

Diagnostics and medical systems Sensor interfaces and integration

Robotics and cobotics

User-centered design



New urban services

Public and shared transportation, signage, ground surface indicators, information displays, accessibility



In-home safety

Home automation, detection systems for personal monitoring and falls, geolocation, safety systems, connectivity, indoor environmental quality



E-services and data security

E-healthcare, secure remote data transfer, big data, service traceability, digitalization of content, administrative tasks



Assisted living

Remote monitoring, logistics, connected objects, in-home assistance, remote medicine, communicating task alert systems, robotics



CEA Tech can help the following businesses:

- Manufacturers targeting the silver economy
- Systems manufacturers and the integrative industries
- Manufacturers of in-home and independent/assisted living equipment
- Transportation equipment manufacturers
- IT services companies

Here are some of the ways CEA Tech can support your development:





Sensor systems and the associated services

Integration of physicochemical sensors into textiles and other materials for the development of services like geolocation, alerts, and fall detection

Communicating systems

Remote patient-to-caregiver communication, medical data transfer. e-healthcare

Data security

Encryption for data transmission, smart-card security and certification

Interactive simulation

Simulation to optimize infrastructures and transportation, to identify disabilities or altered performance, to design equipment for caregivers

HMI (virtual and augmented reality)

Simplification and centralization of in-home user interfaces and cultural interfaces

Vision systems

Fall detection, video protection, search for missing persons, in-home surveillance and security

Lighting

Integration of LEDs into homes and infrastructures for low-power illuminated surface and walkway indicators

Construction

Appropriate building design for the elderly, improved occupant comfort, control of home automation systems like lighting and security

Materials

Surface treatments for the elderly (non-slip, for example); materials for depollution; prosthetics

Big data and data analysis for e-services

Medical records, personalized services via social networks, early alerts triggered by events (weather, epidemics), preventive medicine

Labs-on-chip

Portable physiological fluid analysis

Robotics and cobotics

Rehabilitation, assistance for patients with impaired motor skills, assistance with everyday tasks, assistance for caregivers Photo credits: © spotmatikphoto - fotolia.com; © eyetronic - Fotolia.com; © P. Stroppa; © spiral media - Fotolia.com
