

'TRANSFORMING EMERGENCY CARE FOR SENIORS
AND PHYSICALLY DISABLED CITIZENS
INTO A COMPREHENSIVE PORTFOLIO OF CIVIC SERVICES'

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ŽIVOT 90 BACKROUND

- Eighteen years of experience collected by ŽIVOT 90, civic association, showed clearly that the emergency care service can efficiently link other social and health services
- Considering demographic ageing of the Czech population and sources of finance available, this experience proved undoubtedly the need to develop this even further in view of the necessity to optimize social services and health care

AREÍON EMERGENCY CARE

AREION emergency care is a service designed for senior and physically disabled persons. Equipped with a terminal enabling two-way communication, a client is monitored in his/her home by the system that guarantees immediate professional help in case of a crisis situation. A single push on the emergency button connects a client with the control room. Professional aid is available on a 24/7 basis.



An example of an urgent crisis situation



waite.

An alarm is displayed on a screen in the emergency care control room within thirty seconds.

around his/her neck and



A nurse on duty calls the client's apartment – the telephone set automatically unhooks – and finds out what happened.

Space sensor

in addition to the terminal, space sensors are installed in the apartment to react on motion. In case that within a set timeout period no motion is detected (usually 10-12 hours), an alarm is automatically generated and a phone call is established. A space sensor can be easily switched from "motion detection" mode to "apartment guard" mode. If a client leaves his/her apartment for a period longer than the set timeout period, s/he switches the motion detection function off by turning a key, which switches the system to the apartment guard mode. In case of unlawful entry, the system sends an atarm and the operator calls POLICE. This is an important crime prevention function.



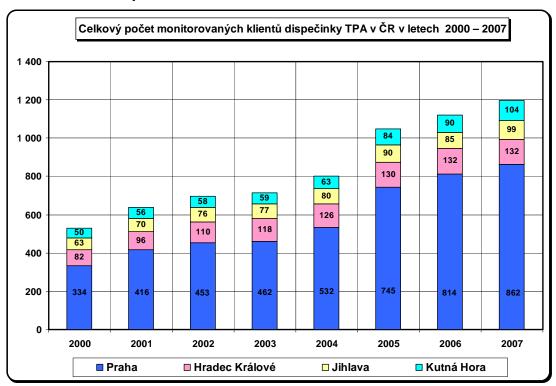
If the injury does not require immediate medical treatment, the client's health continues to be monitored in order to react fast in case it gets worse. If required by the situation, the nurse carries out a psychotherapeutic dislogue with the client.

Depending on the nature of injury, the nurse organizes help. The nurse can either call a medical help, or an ambulance, and ensures that the apartment be accessible. The nurse can call a family member or a friend who has a key, or an emergency service to pick up a key stored in the emergency service control room, municipal police station or another safe place accessible 24/7.



OUTLINE OF CURRENT EMERGENCY CARE NETWORK

The 4 not interconnected call centres in Prague, Hradec Králové, Jihlava and Kutná Hora now help 1,200 clients in 64 Czech cities.







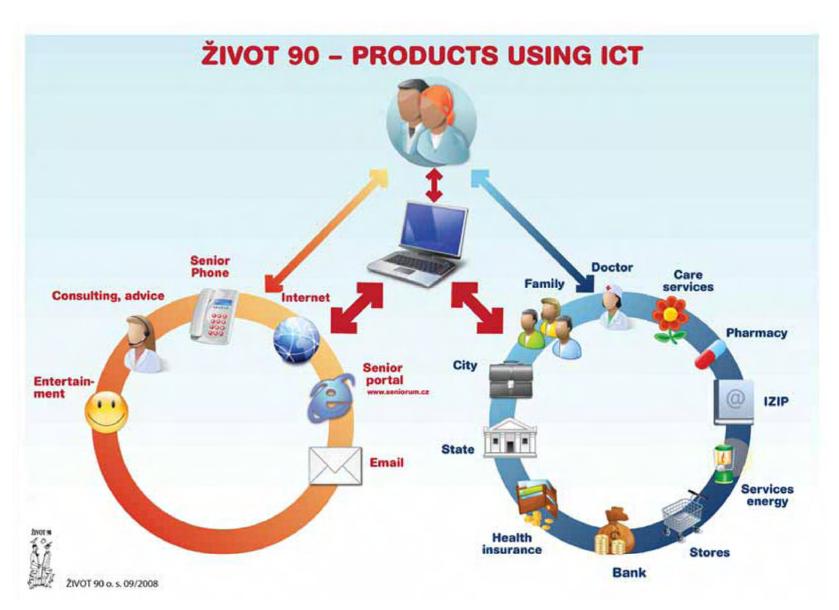
- 11 local and regional providers that are not interconnected;
- They are registered in the register of the Czech Ministry of Labour and Social Affairs (by the law of social services), provide their service to approximately 460 500 clients;
- High costs and low efficiency hindering further development;
- The interest of both the lay and professional public in providing and using the benefits of social and health care service like Emergency care for elderly and health disabled persons (EC) shows an evergrowing and accelerating trend.



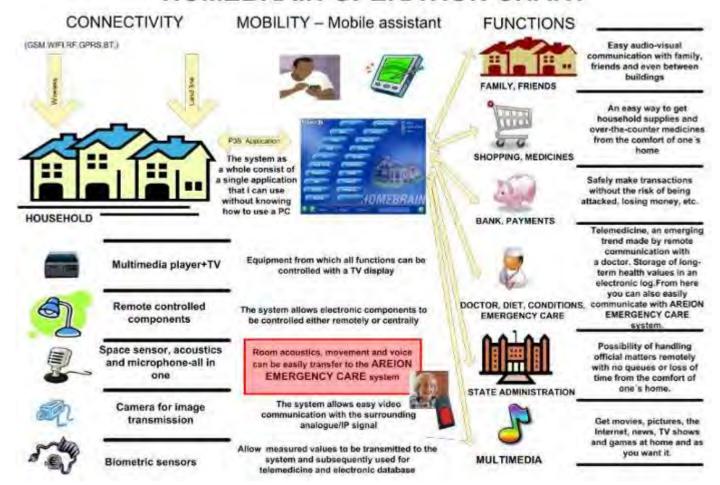
KIND OF AMBIENT ASSISTED LIVING TECHNOLOGIES

- IP / GSM / GPS telephony implementation
 - higher volumes of data
 - New permanent or temporary peripheral devices
 - monitoring basic vital bodily functions (blood pressure, pulse, etc.)
 - o Electronic / audiovisual conference communication network :

SENIOR - CALL CENTRE - FAMILY - DOCTOR - NURSES - HEALTH DOCUMENTATION - PHARMACY SOCIAL+HEALTH INSURANCE - BANK - STATE - MUNICIPALITY - MERCHANTS - SERVICE PROVIDERS...



HOMEBRAIN OPERATION CHART





- Support independence and well-being of elderly and physically disabled people in their own social environment;
- Overcoming social isolation of elderly people living in seclusion
- Introduce user-friendly products in practical life [screen driver];
- Decrease the ever-growing number of risks (health, social and criminal);
- Support to caring families and close relatives and friends;



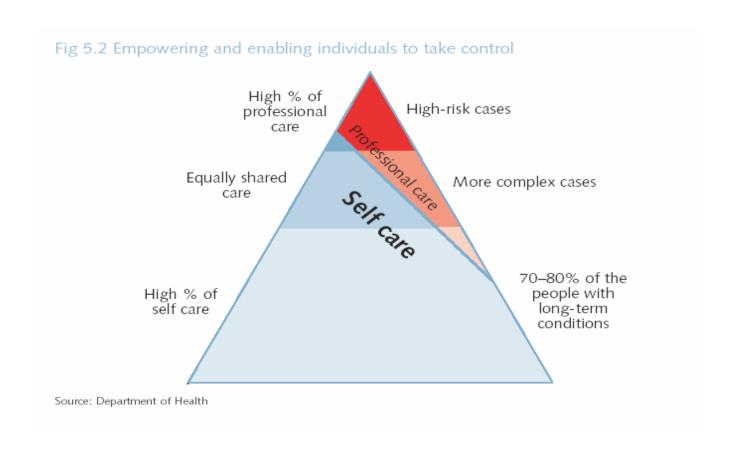
- Electronic (audiovisual) conference of all parties involved in health and social care;
- Update information on the client's health connected peripheral equipment can monitor biometric functions;
- Efficient utilization of e-Health Books (IZIP) through interconnection of central EC servers with central electronic database of medical information;
- Technological interconnection with the Integrated Rescue System (IRS) more efficient and timely and targeted help provided to clients in crisis situations;



- Shorter-term hospitalization in a medical establishment caused by a combination of social and health reasons;
- Manageable quality of service;
- Monitoring of home nursing: easier checks and control over financial flows within the system of health and social care;



- Efficient advisory provided to clients social, health and other general and specialized advisory;,
- Service availability compared to the current situation, the service will be available to clients in all Czech regions, counties and municipalities;
- e-banking; transfers of pensions, social benefits and allowances, health insurance and individual personal resources;
- e-learning and access to information;
- High level of personal data protection;





BACKBONE NETWORK NEED

- EC central call centres backbone network system
- Client accessability improving
- Quick implementation of best practices a new positive element, procedure, type or level of service developed and tested in one part of the Czech Republic will be introduced and provided to the rest of users in a relatively short time;

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- List of direct innovation beneficiaries:
 - □ Elderly, i.e. citizens over 50 years of age
 - Elderly ill and frail, endangered by social exclusion
 - □ The physically disabled
 - □ Caring family close relatives and friends
- List of indirect beneficiaries:
 - □ Physicians, nurses
 - ☐ Health insurance companies
 - Pharmacies
 - □ Social Care Inspection
 - State
 - Municipalities
 - Banks
 - Technology companies



SENIOR BLUE LIGHT is created by High-Tech Park Consortium