SHERLOG eVito, a.s. Precise Localisation to Support Telemedicine and Healthcare



Executive Summary



- Development of telemedicine system eVito started 3 years ago by SHERLOG eVito, inc., member of SECAR BOHEMIA GROUP
- SECAR BOHEMIA GROUP, founded in 1992, includes 4 technology companies and has 150 employees
 - experience in manufacturing, installation and service of high-tech equipment, remote monitoring and transmission of the measured data and the safe data storage
 - 10 years experience with white-label product provision to mobile operators
- eVito
 - system for the treatment of life-style diseases such as diabetes, hypertension and obesity, unique in its scope and functionality
 - eVito is an established brand known among physicians and among target clients
 - strong multidisciplinary team cooperation with top doctors, nutritionists and athletes, experts in IT and telco



Why eHealth?

e\/ito

- Population aging
- Constant increase in health care costs
- The dramatic increase in people with chronic lifestyle diseases:
 - More than a third of the adult population has high blood pressure
 - According to data from WHO is high blood pressure in the 21st century worldwide annually responsible for 7.6 million deaths, representing 13.5 % of all deaths.



- Diabetes mellitus About 347 million people worldwide have diabetes.
 More than two thirds of type 2 diabetics die of cardiovascular disease.
- **Obesity** was WHO declared a global epidemic. More than 1.4 billion adults were overweight in 2008, and more than half a billion obese.
- \$ 1.6 billion was spent in 2014 for equipment monitoring body functions and other similar sensors, this expenditure is expected to rise to \$ 5 billion in two years.
- In 2014 are expected worldwide sales of 17 million wrist pedometers

eVito Timeline

Garmin devices integration



eVito testing version

eVito – iOS, Android mobile application

Nike and ForaCare integration

Integration of SmartLab devices

eShop, Administration modul, product web Development of medical modules – doctor's view, laboratory

On-line consulting with doctor

2012

2013

Market launch

2014

eVito introduction to experts



Showroom

opening

eVito general marketing campaign

Marketing campaign aimed to doctors

Business model adjustment

New sales channel Alza.cz

8 ths. users

eVito – Product Profile

- Fully hosted universal telemedicine platform
- All measurements are wirelessly transmitted to the server
- End application not only displays data, but also processes them according to evidence-based medical algorithms, give appropriate recommendations to the client, or notify the physician / assistance center / caregiver
- The emphasis on data security at all levels of the system
- System development in cooperation with leading experts





eVito System of Active Health















Mobile Application

eVito mobile application with help of GPS phone monitors the speed, duration, route and elevation of outdoor sports activities. The activities are automatically sent to your user account while your mobile phone application allows you to monitor your most recent values from measuring devices.



Certified Devices

eVito certified devices allow you to continuously monitor important information about your health and lifestyle: steps made, weight, blood pressure, blood sugar or heartbeat.



Online Portal

You can log in to your eVito user account through an online portal using any kind of web browser. The portal is the heart of eVito System of Active Health where the first thing you see are your latest data and their evaluation. recommendations and much more.



Wireless Data Transfer

Simple and convenient data transfer measurement data are automatically transferred wirelessly (using one of the three available ways) to your user account.

www.evito.cz

Consultations With Experts

You can choose a part of your data and share it with your doctor, coach or nutritionist and thus work effectively on the improvement. Comfortably, using your computer at a time of your choice. Those taking care of sick people can also receive system alerts using eVito (children, grandchildren, home care professionals...).



Help Desk

Our professional team is ready to help you with possible difficulties.



Maximum Data Safety

Health data belong to the most sensitive ones. The eVito system is registered at The Office for Personal Data Protection. Your data at eVito servers are under maximum protection, such as for example in internet banking systems.



Main Portal



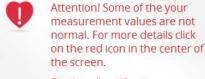


Health Nutrition Activities Motivation



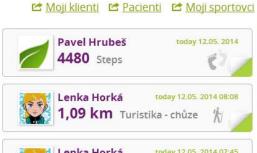






Display all notifications.







Activities

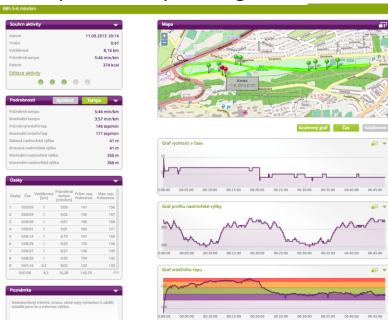






Pedometer





Nutrition



▼ Zobrazit další doporučení

Dobrazit všechna data

Všechny Vaše základní monitorované parametry se nacházejí v intervalech, které

vsecnny vsec skatorii monitorovane paramenry se nacriazeji v intervalecti, které nepřekračují hodnoty normálu. Pro zlepšení fyzické kondice např. z důvodu zlepšení vytrvalosti či sily Vám doporučujeme navštívit modul <u>Energie,</u> který Vám pomůže k

58.0%

Zobrazit více informac

4 56,6₃ 55,0%



Vaše hodnoty BMI a vás řadí do kategorie Obezita I stupně. Vaším prvořadým zájmem by mělo být

dosažení hodnot, které budou spadat do kategorie Normáli Tohoto docilite ztrátou tělesné hinotnosti. Úbytek tělesné hinotnosti by měl být v intervalu 0,5-1,0 kg týdně.

snížte energetický příjem o 500 - 1000 kcal/den. K tomuto Vám dopomůže využít náš modul

měl byste navštívit lékaře a uvažovat o dosažení ztráty tělesně hmotnosti za pomoci farmakoterapie.

Energy intake and expenditure

11.00 Dopolední svačina

16.00 Odpolední svačina 295 kož, culty: 0 g tuty: 13 g bilitoviny: 5 g

9.00 Snídaně

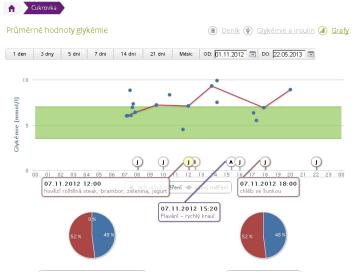
13.00 Oběd 392 koj, gylav, 5 r



Medical







Diabetic diary

Convrigt







Some of Integrated Devices





Pedometer



Blood Glucose Meter



Pressure Meter



Weight Scale



Sportstracker watches





iOS & Android app

eVito Projects in Health Sector



- 1st Faculty of Medicine of Charles University in Prague and General Faculty Hospital - Department of Cardiology and Angiology - trial monitoring of patients with peripheral arterial disease
- 1st Faculty of Medicine Department of Endocrinology and Metabolism-clinical studies monitoring patients with DMI and DMII
- Na Homolce Hospital, Prague, clinical use in the treatment of obesity and arterial hypertension
- Ministry of Interior Health Insurance Company project using the system for patients with obesity
- Health insurance RBP eVito in the treatment of patients with arterial hypertension, diabetes and obesity









Options - What to Do Next?

e\/ito

- Users expect that we can provide more family oriented services, mainly taking care o elderly and kids
- Precise location of a person enables to get faster help in case of emergency
- Nowadays people have less time to take care of their older parents
- On the other hand seniors want to live full life as long as possible
- Parents also want to give more safety to their kids, mainly in the big cities
- Solution is emergency alert system based on S.O.S. button, precise location and specialized call center





How it works



Different sensors













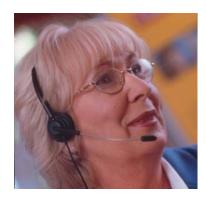
Specialized call center



Positioning



Emergency services
Assistance services
Psychologist
Family











The main benefits for users

- Ensuring adequate and immediate care in crisis situations through trained personnel
- Increase self-sufficiency and quality of life of elderly
- Ensures interpersonal communication 24 hours a day

Risks:

- Sometimes the location cannot be determined exactly (inside houses, in subway, ...)
- Person may not be able to press the alarm button due to ts health condition

Summary



- Telemedicine can use and already has been using location based services for many different purposes
- In many cases the precise location is a key to timely assistance provided to the patient
- Precise location is also helpful at other services, which motivate people to move more and improve their lifestyle

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