

Benexo - your personal exoskeleton

December 2017
Kristiansand, Norway
Contact person: pasl@benedics.com

Benedics

Who we are

- ▶ **Benedics AS (Ltd)** was founded in May 2017, by two specialists whose projects had been sold around the world from tropics to the Northern ice.
- ▶ **Benedics** specialises in development and sale of automatized, robotized devices intended for the general consumer audience.
- ▶ **Benedics** is located in Kristiansand, Norway.

Team



Paweł S. Sliwa
CEO, founder

Mechanical Engineer I



Mirosław Baszun
CTO, founder

Mechanical Engineer II

Electronic Engineer I

Electronic Engineer II

Special Programmer

Founders' Project Portfolio

Pawel S. Sliwa – 13 years in R&D, prototypes and pilot plants, as a lead engineer and head of department.

Miroslaw Baszun – 20 years in R&D, prototypes and new product development, as a principal engineer, head of department.

We have contributed to the growth and expansion of several companies, and developed products for international clients in various industry sectors, i.e.:



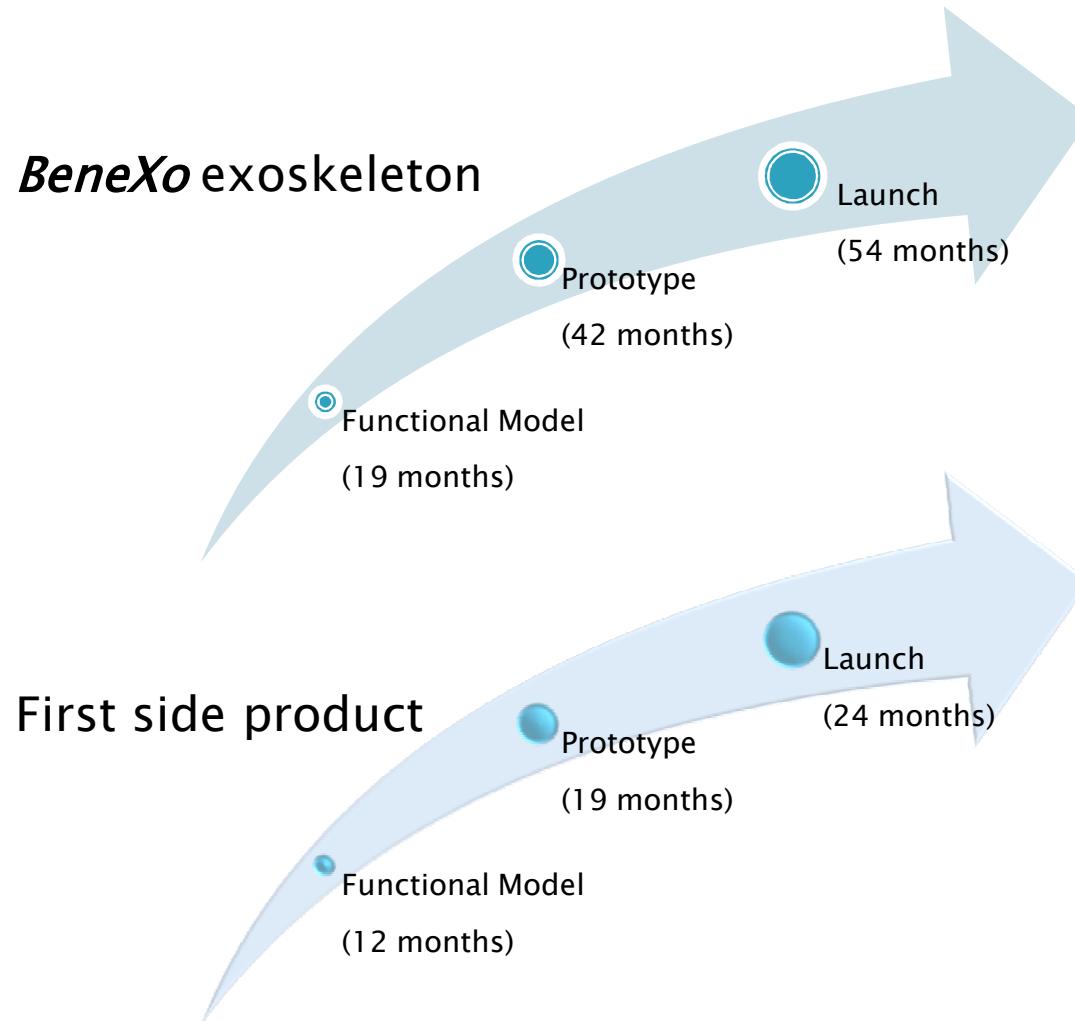
As well as products and services for start-ups, such as:

- Simplicardiac
- Skagerak Dynamics AS – with patent application submitted Dec.5, 2016

What we do

- ▶ **Consumer devices and systems for various applications:**
 - Personal exoskeleton – a wearable device, which extends the walking range of people with weakened physical mobility. It's like robotized pants which add power to the user's legs.
 - Customizable, self-learning control system.
 - Intelligent Power Management system.
 - A group of personal distress signal senders.
 - Product group of medical devices.
 - Other side products.
- ▶ **Prior to- and After-sales services:**
 - Online service with subscriptions.

Product and Feature Roadmap



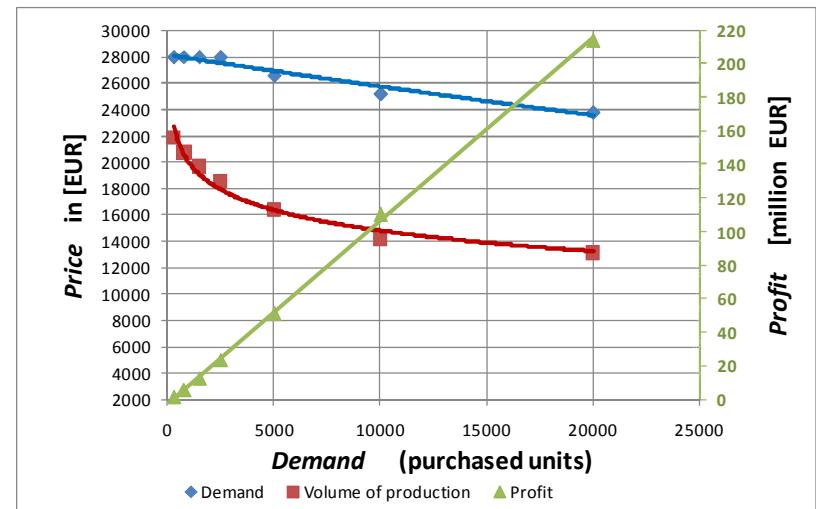
Who we sell to

General consumer market globally:

- ▶ people in elderly,
- ▶ people with weakened physical mobility,
- ▶ people after injuries or long hospitalization.

A scalable business model:

- ▶ pay per unit,
- ▶ subscriptions.



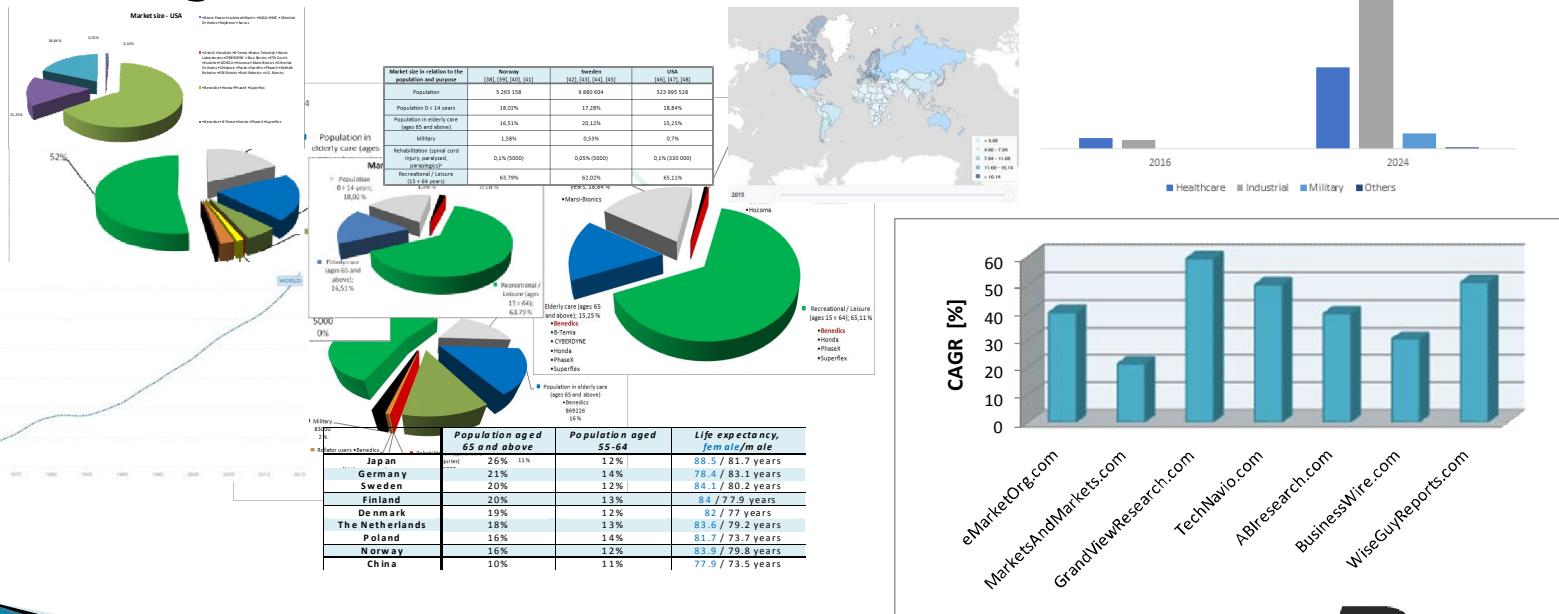
Customers problem

- ▶ Many people can walk independently but they get tired quickly. Often, the old or injured knees hurt at higher load.
- ▶ Such people simply need something that will relieve their joints and muscles. Something not conspicuous, that will not disturb while walking, getting into a car, or while sitting on a couch, chair or a park bench.

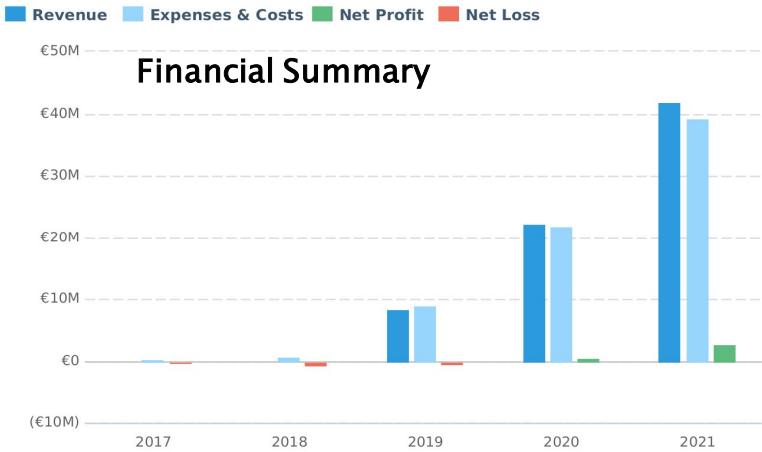
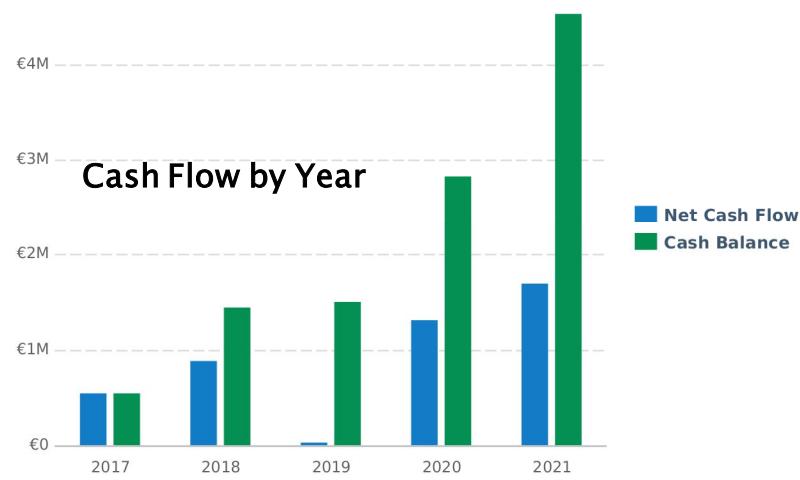
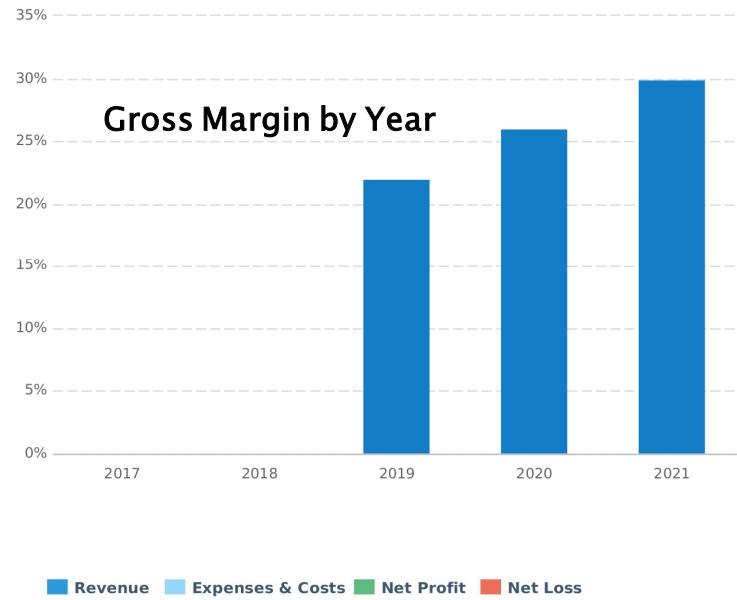
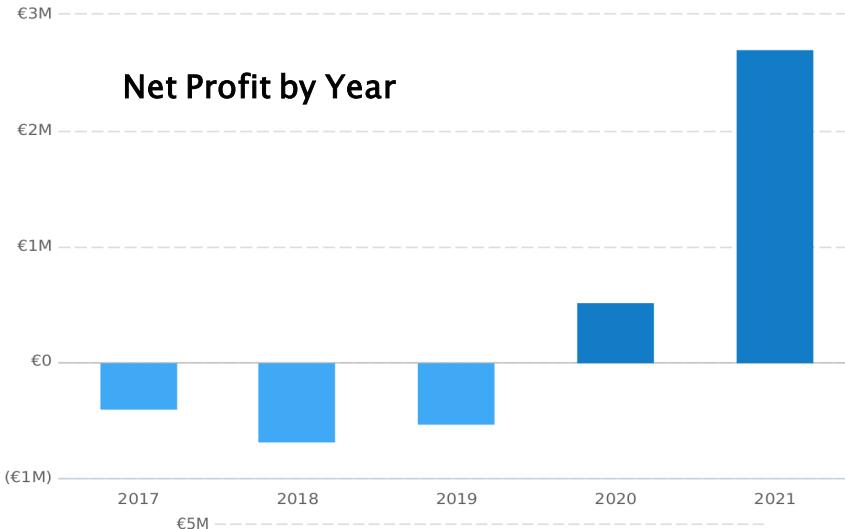


Market potential

- The exoskeleton market is expected to accelerate reaching \$2–4 billion by 2025 with the compound annual growth rate CAGR of 50%.
- Great potential in own technology development.
- Young, unsaturated market.

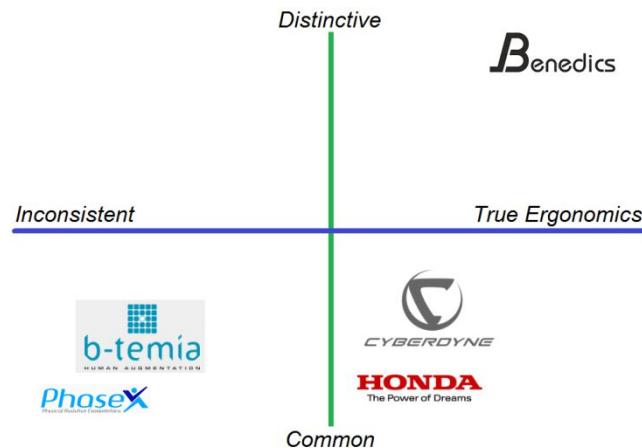


Revenue Projected



Competitor analysis

- ▶ The whole competition focuses on a tight market (0.1% of population). They have duplicated each other over and over again for nearly 20 years.
- ▶ All the current devices are based upon assumptions that are practically limiting the scalability of their business. This is clearly described in their patents.
- ▶ We do not want to go that way. We have already developed our own solutions that position us in a completely new product categorization. Our target audience is of other order of magnitude. As an example, the Norwegian market is worth \$300 million.



Competition



Please, find the difference...

Do you think the user
feels comfortable in it?

Development stage

WHAT WE HAVE:

- ▶ Completed research on the subject (market, competitors, potential, trends, demand, patents, publications).
- ▶ Developed design principles, concepts and problem solutions ready to patent, and with defined course of our further action.
- ▶ Detailed project plan with determined activities, assignments and specific milestones.
- ▶ Business plan.
- ▶ Product in development. Pictures and advantages over competition can be presented upon request.

TO DO:

- ▶ Registration of brand names and trademarks.
- ▶ Patent application for the exoskeleton device.
- ▶ Development of a prototype.
- ▶ Patent application and commercialization of the side products.
- ▶ Development of specific systems for control and power management.
- ▶ Final product and its commercialization.