

A novel implantable sensor for long-term continuous glucose measurement

26 Juni - 2020





Lifecare AS is developing an implantable glucose sensor named SENCELL for long term positioning under the skin into the interstitial space.



Lifecare's shareholder base June 24th 2020

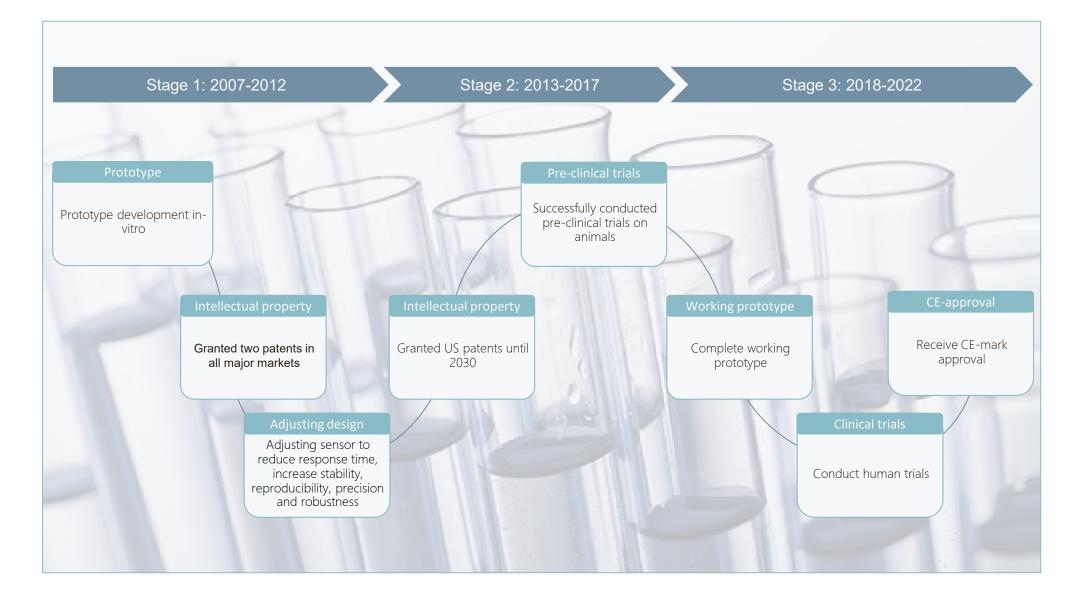
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Increased life quality through continuous glucose measurement





Overall roadmap and milestones





Development Roadmap

Size Reduction

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- Former:
- Current:
- Future:





Needle Mounted

Sencell



Laboratory Cell

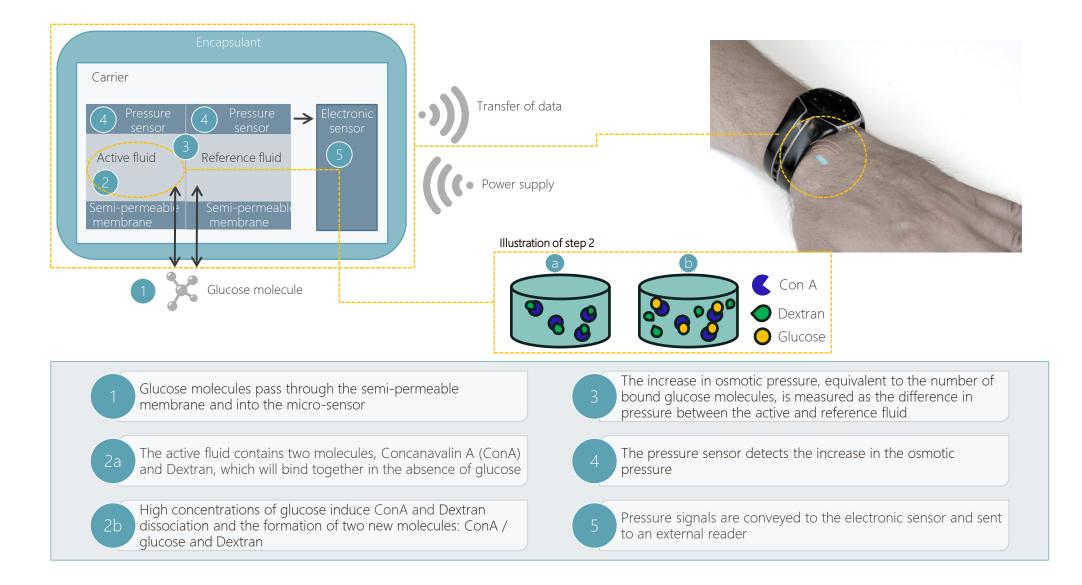


Preclinical I

Preclinical II

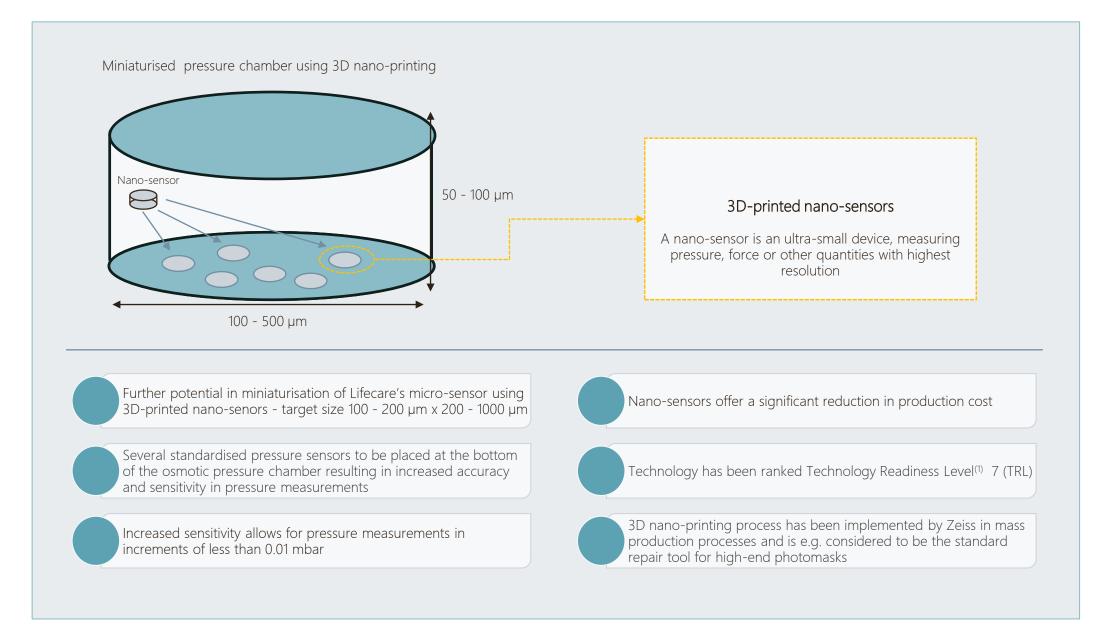


Reading osmotic pressure variations induced by glucose level changes





Long term miniaturisation potential using 3D nano-printing technology





Core technology protected by patents and Freedom To Operate analysis

Double membrane patent 2006-7	 Composition of membranes A pressure sensor with a chamber on each side, where the two chambers have individual semi-permeable membranes Applies in USA, Canada, India, China, Japan, Norway, EPO⁽¹⁾
Augmented osmotic pressure patent 2009-10	 Apparatus for measuring augmented osmotic pressure Patent applies in US Approved EPO
Chemistry	 Active fluid composition and method of production and method of production of active fluid, which can be used in a sensor for measurement of glucose concentrations in fluids Pending (Norway)
Dual sensor patent	 Implantable sensor with two chambers, each with a pressure sensor Pending
3D print nanosensor patent	Global exclusive licence agreement

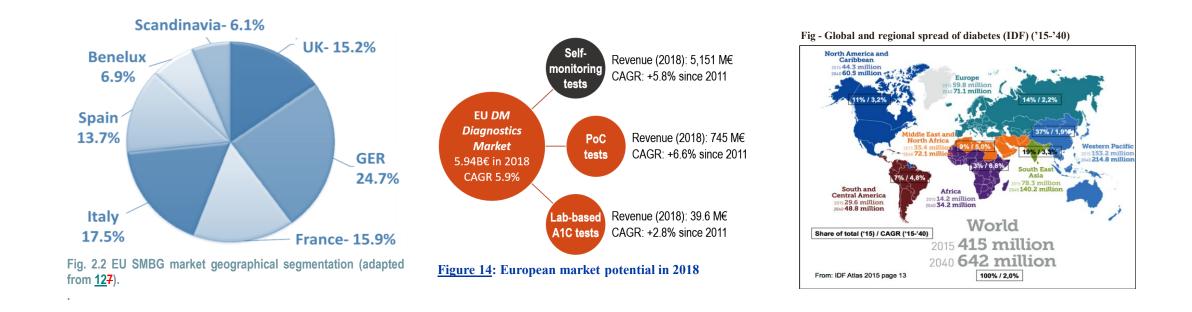
Lifecare



According to Harold Schnitzer Diabetes Health Center US presented at Diabetes Technology Meeting US 2017", this is what the diabetes patient wants for a CGM (continuous glucose measurement) device;

#	1) Simple & Affordable	✓	#	1)
#	2) Covered by insurance		#	2)
#	3) Long wear time	✓	#	3)
#	4) High usability with integration	✓	#	4)
#	5) Excellent accuracy	✓	#	5)
#	6) No calibration required	✓	#	6)
#	7) No interference	✓	#	7)
#	8) Inconspicuous (not readily visible to others)	✓	#	8)
#	9) Safe & comfortable	\checkmark	#	9)
# 10) Accessible data		✓	#	10)

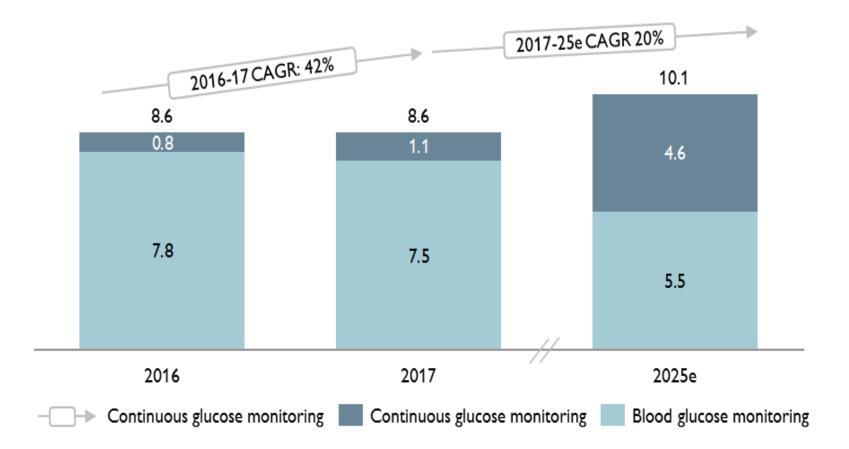




Market potential and trends: the global market for Diabetes Therapeutics and Diagnostics should reach \in 144 Billion by 2021, up from \in 116 Billion in 2016 (4.4% CAGR), including devices and PoC solutions as well as medication and other therapeutics. Within the large DM market, monitoring and diagnosis devices/systems represent close to 11%, expected to account for \in 16 billion globally, by 2021 (9.1% CAGR).



Blood Glucose Measurement (BGM) versus Continuous Glucose Monitoring CGM

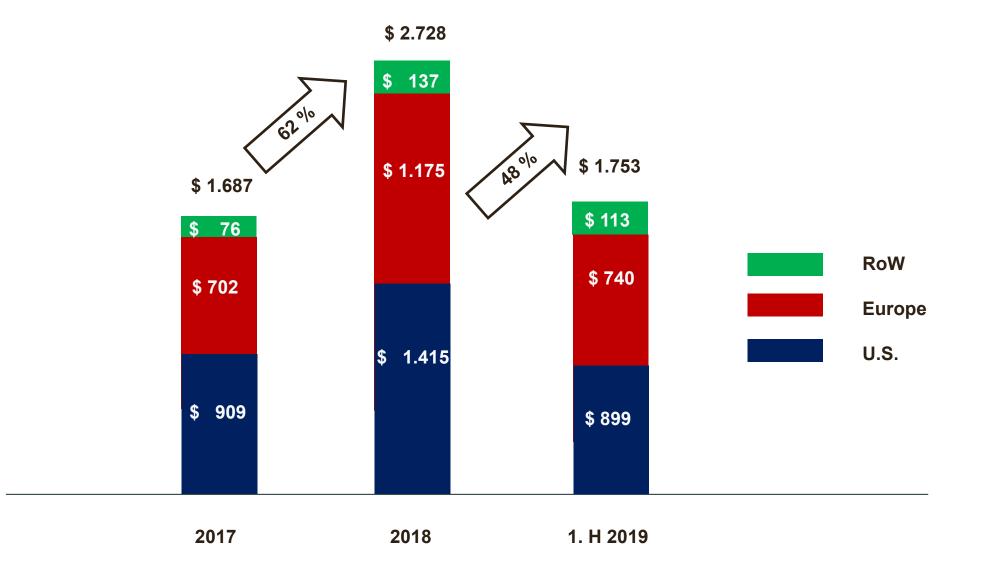




World

Continuous Glucose Monitoring (CGM) - sales in Mill \$







Lifecare Team

Rune Frisvold COO



- Managing Director of Lifecare since 2012
- Previously held senior management, operational and director positions in leading enterprises
- Managed and participated in major national and international companies and projects
- MBA / Usa

Prof. Andreas Pfützner

CSO



- Managing director of Pfützner Health & Science Institute, **Diabetes Center and Practice**
- CEO of ikfe GmbH Mainz Germany
- Prof. of Applied Clinical Research
 - 25 years of pharmaceutical and device development experiene

DR. Sanja Ramljak Scientific Project Manager



- Former Director, Research Laboratory of IFKE
- Post Doc at German Primate Centre
- PhD in Molecular Biology, University of Göttingen
- Specialized in clinical and lab studies for the assessment of the accuracy of blood glucose meters

Prof. Dr. Michael Huth Consultant



Dr. Konstantin Kloppstech VP Technology



- CEO of DEVmedical UG, Oldenburg Germany
- Head of Technology for MEMS/NEMS Sensor Development for Medical and Industrial Sensor Solutions 2016-2019
- PhD at the Department of Physics in Sensor Development for Fundamental Research at University of Oldenburg, 2011-2015

Dr. rer. nat. Frank Flacke VP R&D



- Previously global Medical Director Devices in the diabetes division at Sanofi Held management positions in several biotech and technology companies
 - Over 20 years of experience in the pharma and medtech business



- Professor for experimental solid state physics
- Stefan Lyson professor of physics
- Member Board of Trustees Beilstein-Institut, Frankfurt am Main
- Member Scientific Advisory Board Frankfurt Institute of Advanced Studies
- Member Scientific Advisory Board Austrian Centre for Electron Microscopy and Nanoanalysis
- Member Senate of the Goethe University, Frankfurt am Main
- 170 peer-reviewed publications



Scientific Advisory Board

Prof. David C. Klonoff *Chairman, Scientific Advisory Board*



- Clinical professor of Medicine, UCSF
- Editor-in-chief, DST
- Medical Director, INST
- Chairman, i.a. DTM and ADA
- Chaired i.e. FDA, NASA, US army, NIH, NSF
- Consulting i.e. Sanofi, Google and Insulin
- Spoken to the US Congressional Diabetes Caucus, and White House Health Roundtable, and spoken at the European Parliament.

Prof. Lutz. Heinemann *Member, Scientific Advisory Board*



- Partner and Scientific Consultant, Profil
- · Co-editor, DST
- Published 160 research articles
- Awarded "Leadership in Diabetes Technology"
- Charing the EU founded project "AP at home"

Prof. Kåre Birkeland CMO, Scientific Advisory Board



- Professor of Internal Medicine and Endocrinology, University of Oslo
- Senior consultant in Endocrinology, Dep. of Transplantation Medicine, Rikshospitalet, Oslo University Hospital
- Chairman Advisory Board, Norwegian Diabetes Association



Sanofi-Aventis Groupe – A global health leader



A SIGNIFICANT VALIDATION OF LIFECARE'S TECHNOLOGY, IP, AND SCIENTIFIC AND BUSINESS CREDIBILITY



Lifecare has undergone a complex and robust evaluation and due diligence process from Sanofi scientists and business department, including a detailed review of the product development plan and its funding



Sanofi has also evaluated the commercial aspects of Lifecare's Sencell relative to Sanofi's present and future product portfolio and the competitive landscape



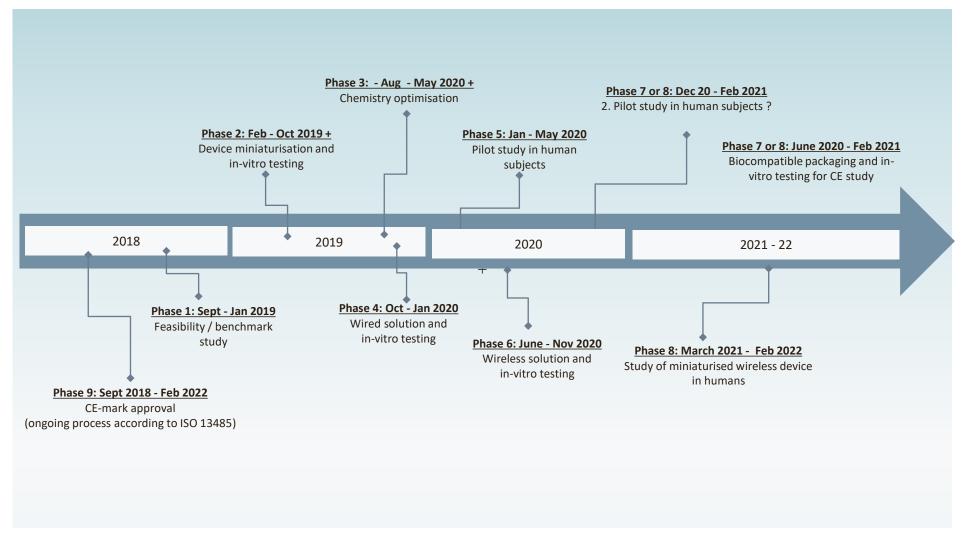
Sanofi will pay EUR 290,000 in four instalments with EUR 190,000 was paid on the initiation of the first phase

Sanofi-Aventis Groupe at a glance

- Sanofi-Aventis Groupe is a global life science company
- Engages in the research, production and distribution of pharmaceutical products and operates through the following business segments:
 Pharmaceuticals, Human Vaccines, and Animal Health
- 44 new pharmaceutical molecular entities in the R&D pipeline with 50% coming from partnerships and collaborations
- One of the key priorities of the company is to provide access to healthcare for underserved populations
- A Bill & Melinda Gates Foundation partner
- Revenue of EUR 33.8bn in 2016



Detailed roadmap and milestones



C Lifecare



First Human Clinical Trial

Timelines:

IRB and BfARM submission:	Feb 7th, 2020
Deficiency Report received:	Feb. 14th, 2020
Review response expected by	Mid/End March 2020
Approval expected by	Mid/End April 2020
First Patient in and first results by	May 2020
Last patient out by	tbd

Covid19 har medført mindre forsinkelser i det korte bildet, samtidig som vi har innspart noe tid i det lengre bildet.





Lifecare AS has established a joint venture with Digital Diagnostics AG in Germany.

Lifecare AS has a 25% ownership in Digital Diagnostics AG

Digital Diagnostics (DD) will finance the remaining costs of completing the development of Lifecare's implantable continuous glucose sensor named Sencell.

In return, Lifecare AS will give Digital Diagnostics AG non-exclusive and non-competitive license agreement for use of Lifecare AS' technology.

Digital Diagnostics will explore how Lifecare's technology can be used outside the field of glucose monitoring and data collection, such as in e-health, big data and lifestyle technologies

Lifecare AS keeps all its rights to its existing IP and has exclusive right to future IP within our filed of use.



Additional technological development by Digital Diagnostics AG has the goal to rapidly develop a new type

of sensor device that can be used for immediate tests for the new SARS coronavirus.

In comparison to currently available rapid tests, the SARS-CoV-2 MEMS 5 Minute Test[™] directly detects the virus over the

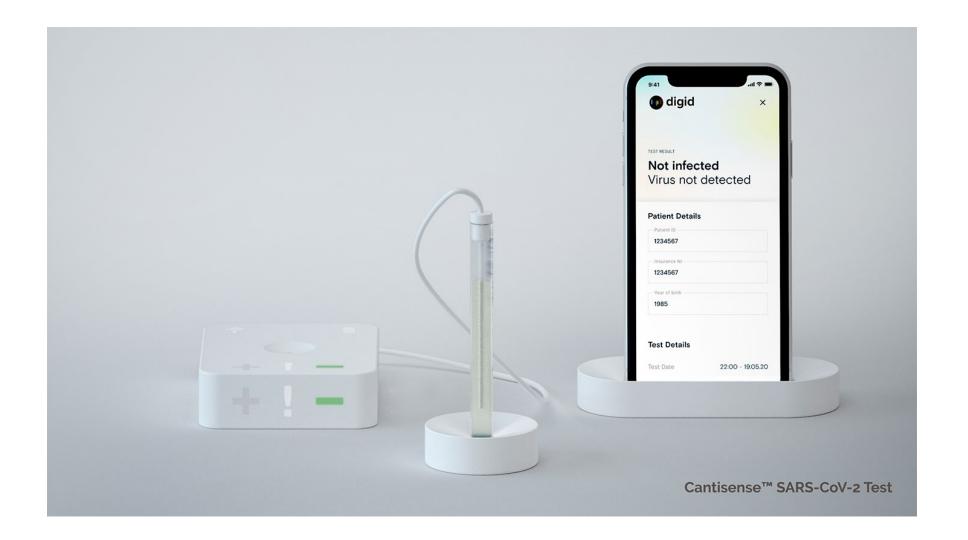
entire course of the infection and can be read immediately, without the need for a laboratory.

The technological development by Digit is based on the IP and technology from Lifecare



Lifecare's partner Digital Diagnostics AG detects corona virus with rapid test,

seeks FDA approval and aims to deliver units starting in July







Takk for

oppmerksomheten!

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https://www.diabetes.no/om-diabetes/diabetes-type-1/ https://www.diabetes.no/om-diabetes/diabetes-type-2/ https://www.youtube.com/watch?v=YnycU8iYqKU