

ContextVision

Norne

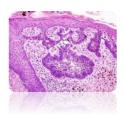
Sep 18th 2019

Fredrik Palm - CEO

A software company specialized in image analysis & artificial intelligence for the medical technology industry



Medical Imaging Established business, market leaders!



Digital Pathology Soon to enter the market, huge potential!

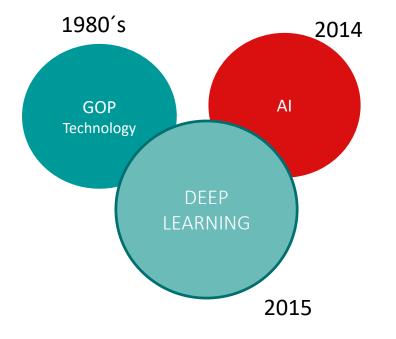


ContextVision short facts

- Listed on Oslo stock exchange
- Market Cap end of Aug 2019 ~ 650 MNOK
- ~ 50 Employees (50% within R&D)
- Two sites in Sweden + local sales offices
- +30 year history with technical roots from Linköping University
- +250 000 system installations world wide



Taking a lead in deep learning

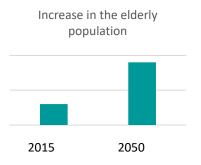


In 2015 we decided to assume leadership in image analysis applications of the latest technologies within machine learning, deep learning for

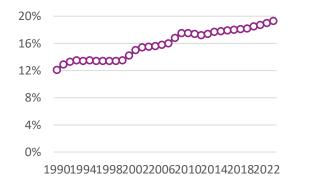
- Medical imaging
- Digital pathology
- Aiming towards treatment guidance



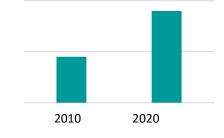
Healthcare challenges



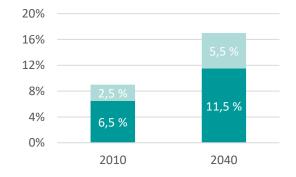
Healthcare cost US, share of GDP



Increased incidence of cancer



Healthcare cost EU, share of GDP





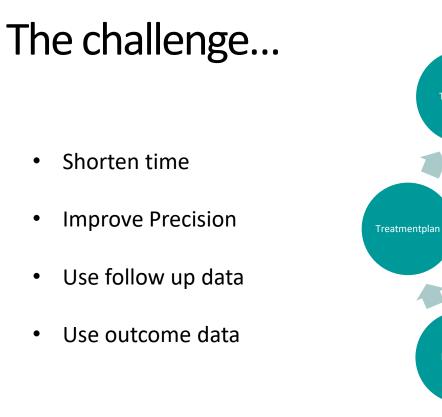
Source:

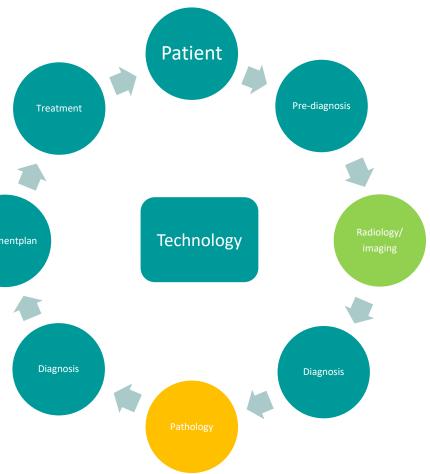
https://www.nia.nih.gov/research/public ation/global-health-and-aging/assessingcosts-aging-and-health-care

Sources:

Cap Gemini (EU) and Sisko A.M. et al. (2014), "National health expenditure projections, 2013–23: faster growth expected with expanded coverage and improving economy"









Major potential for AI based solutions

NEEDS

- Quicker diagnosis –and earlier treatment
- More accurate diagnosis

 more correct
 treatment
- Better outcome prediction – better individual treatment decisions

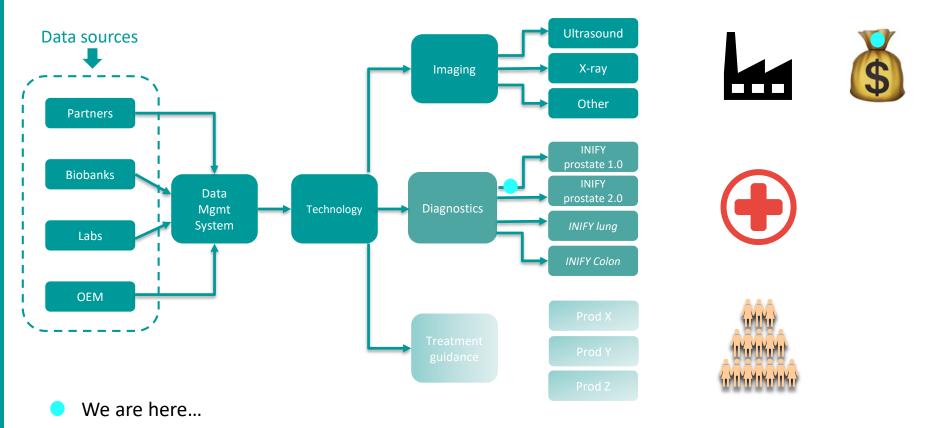
SOLUTIONS

Automation

Decision support tools, e.g.

- Detection
- Measurements
- Diagnosis
- Prognostication
- Treatment guidance

Contextvision - Process of Excellence





Healthcare megatrends benefits ContextVision

Need for cost control and accuracy

Health care costs are skyrocketing all over the world. Governments and institutions regard diagnostics capabilities and efficient procedures as vital in tomorrow's health care system. Medical imaging is a key element.

Ultrasound the global diagnostics trend

Modern ultrasound is safe and accurate. Units have become affordable, more compact, and easier to use. Therefore, ultrasound is now being used in a growing number of medical applications all over the world. ContextVision is a software technology leader in this field.

Digital Pathology emerging

Clinical histopathology is undergoing digitalization just as radiology has become digital. This opens up for new innovative software to support decision-making within pathology in the future.

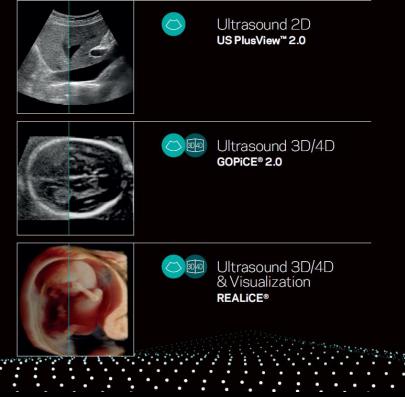


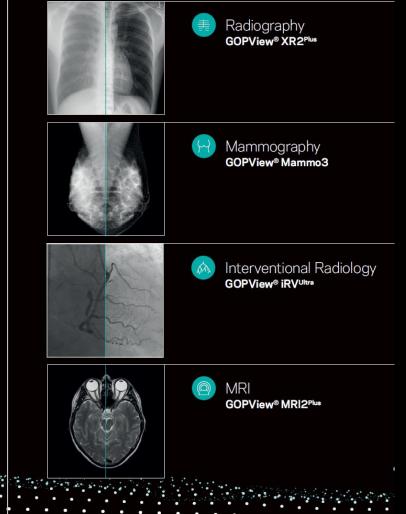
Medical Imaging





State-of-the-art Image enhancement and Visualization







Altumira[™] - First Al-based product line

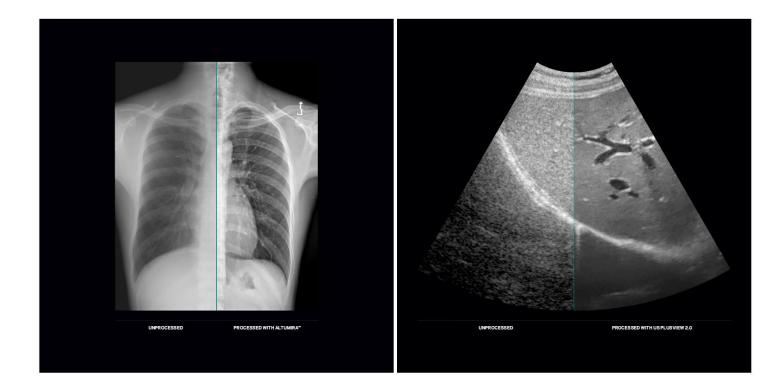
- A technology synthesis with GOP and deep learning technology
- Addresses image quality challenges
- Gold standard image quality
- Static & dynamic X-ray







Image enhancement - examples





OEM Sales and Partnership

- Business to business sales built on partnership with Original Equipment Manufacturers (OEM)
- The software is integrated into the imaging equipment at the time of production
- Our expertise provides added value through customization of our software to meet specific equipment requirements and to adapt to specific clinical applications
- Revenues are based on license fees, Non-Recurring Engineering (NRE) fees during the initial customization phase and service agreements
- Sales volumes are driven by the customers' production rates and product cycles





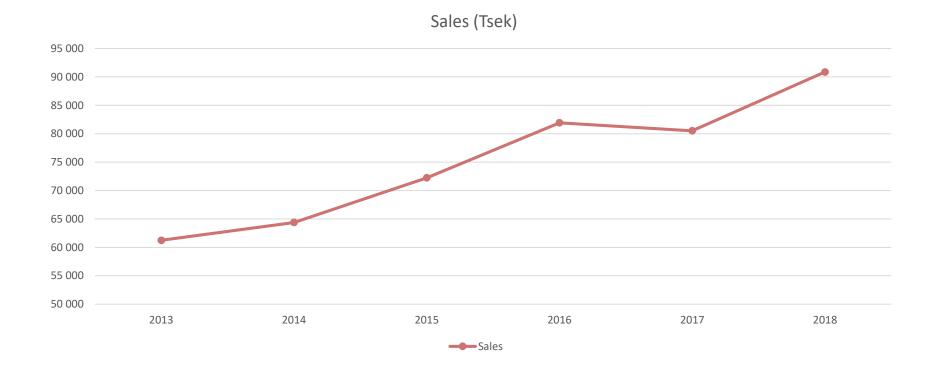
Serving a global market

- The tangible image enhancement market is today worth around MSEK 200
- The market continues to grow; ultrasound CAGR about 3-6%
- ContextVision has up to 50% market share in key segments
- ContextVision serves about 60 customers throughout the world
- Typical customers are global high-end equipment manufacturer as well as regional and specialized manufacturers
- >250 000 systems are equipped with our software





Sales development 2013-2018





Digital pathology – a great potential for growth





Digital pathology – a great potential for growth

Great need for decision support tools

- Challenging image evaluations
- Lack of pathologists
- Treatment decisions highly dependent of the pathologist's interpretation of images
- Today many patients are treated inaccurately or too late



A young, rapidly growing market

Digital pathology is a rapidly growing market driven by the lack of pathologists in almost all countries in the world

- Provides easy access to specialists
- Creates a new workflow
- Digital images opens up for automated image analysis

Automated image analysis has the potential to dramatically *improve the workflow and increase the quality of care.*

ANALOGUE



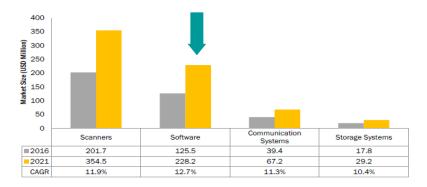
DIGITAL

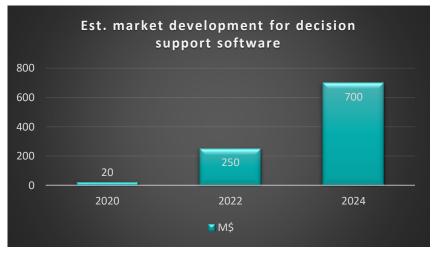




The Digital Pathology Market

Software market estimated to 228 MUSD by 2021





Note: Internal estimates

From: Markets&Markets

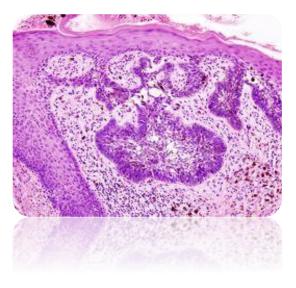
Source: Digital Pathology Association (DPA), the College of American Pathologists (CAP), American Society for Clinical Pathology, U.S. Department of Health and Human Services, Canadian Association of Pathologists, European Society of Pathology, Pathological Society of Great Britain and Ireland, International Academy of Pathology, World Health Organization (WHO), the International Association of Chinese Pathologists, Annual Reports, Press Releases, Expert Interviews, and Markets and Markets Analysis



Digital Pathology – First product

The company has started to develop a portfolio of Decision Support Tools, INIFY[®], for diagnosis of the major cancer diseases

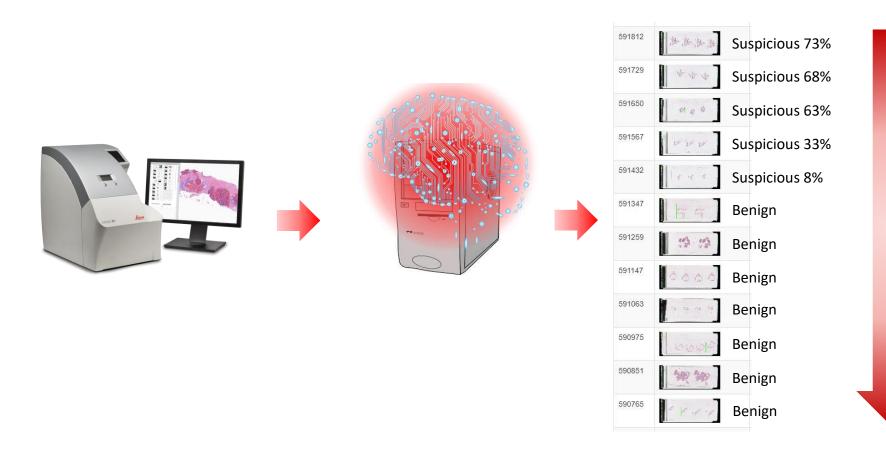
BETA installations ongoing!





SCAN PROSTATE BIOPSY

SORT SLIDES - "WORST FIRST"





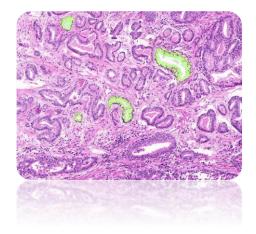
Master Annotation Method

ContextVision has developed a unique method to secure quality of the data used for AI -training with the purpose of delivering products with high precision and high accuracy

The Master Annotation method provides specific and objective annotation of cancerous tissue and serves as a guidance for selecting accurate data for training the algorithms in our deep neural networks.

Compared to non-guided annotations, this makes the annotations

- more accurate
- more consistent and
- more objective



Patent pending



Digital Pathology – Advisory Board

Advisory Board for the research program includes world leaders in the field

Prof. Anil Parwani, a professor in pathology and an important driver for the digitalization of pathology in the U.S.

Dr. Marilyn Bui, a pathologist and researcher at Moffit cancer center in Tampa, Florida. President of Digital Pathology Assosiation (DPA) in the U.S.

Ass. Professor Jeroen van der Laak, a senior computer scientist with long expertise from image analysis within pathology, the Netherlands

Dr. Dan Ciresan, a senior researcher, a pioneer in deep learning and behind one of the key publications in deep learning

Prof. Junyo Fukuoka, a professor and clinical pathologist in Nagasaki, Japan, with high focus on education

Prof. Fredrik Pontén, a professor with a broad competence at the dept. of Immunology Genetics and Pathology at Uppsala University, Sweden





Financials six months 2019



SIX MONTHS 2019 FINANCIAL DATA

- Sales of 44.2 MSEK (41.1)
- Operating result of 9.7 MSEK (-14.3) and operating margin of 22.0% (-10.5%)
- Earnings per share of 0.96 (-0.56) SEK



Income statement Six months 2019

	Six months 2019	Six months 2018	Full year 2018
Net sales	44 201	41 080	90 903
Total revenues	44 201	41 080	90 903
Goods for resale	-1 152	-947	-2 224
Other external costs	-8 597	-16 334	-33 150
Personnel costs	-21 070	-25 630	-50 130
Depreciation assets	-3 667	-2 488	-5 029
Write down	0	0	-1 669
Operating results	9 715	-4 319	-1 299
Interest income	0	0	14
Interest cost	-181	-5	-6
Results after financial items	9 534	-4 324	-1 291
Tax	-2 144	-7	112
Net results	7 390	-4 331	-1 179



Balance sheet six months 2019

	JUNE 30 [™] , 2019	JUNE 30 TH , 2018	DEC 31ST, 2018
Intangible fixed assets	24 329	10 571	11 681
Tangible assets	3 134	3 681	3 353
Right-of-use assets	11 363	0	0
Other financial assets	498	653	323
Inventories	960	1 131	714
Current receivables	20 478	22 007	22 817
Cash and bank	39 704	37 044	37 945
Total assets	100 466	75 087	76 833
Equity	65 406	54 449	58 562
Deferred taxes	924	1 122	968
Non-current lease liabilities	6 572	0	0
Current liabilities	23 650	19 516	17 303
Current lease liabilities	3 914	0	0
Total equity and liabilities	100 466	75 087	76 833



Business Units / Operating Segments

The Business Unit Medical Imaging comprise research, product development and OEM sales within medical imaging. The product portfolio consists of products developed for a variety of modalities, such as Ultrasound, X-ray, MRI, Mammography, CT and iRV.

The Business Unit Digital Pathology presently includes research and product development of new products for the growing digital pathology market.

	BUSINESS UNIT MEDICAL IMAGING		BUSINESS UNIT DIGITAL PATHOLOGY		GROUP TOTAL	
	6 MONTHS 2019	6 MONTHS 2018	6 MONTHS 2019	6 MONTHS 2018	6 MONTHS 2019	6 MONTHS 2018
Net sales	44.2	41.1	-	-	44.2	41.1
Operating expenses	-29.2	-31.4	-5.3	-14.0	-34.5	-44.4
Operating results	15.0	9.7	-5.3	-14.0	9.7	-4.3



Capitalization

Capitalization is recorded as intangible fixed assets only when product development meets certain requirements.

Capitalized costs totaled at 13.9 MSEK for the first six months 2019 vs 2.0 MSEK during the first six months 2018.

Costs for 2 different product development projects have been capitalized;

- Altumira: our first AI-based XR-product
- INIFY prostate 1.0: the first product within digital pathology.





Cash flow six months 2019

	6 months 2019	6 months 2018	Full year 2018
Cash flow for the period	1 759	-3 283	-2 382
Liquid assets at beginning of period	37 945	40 327	40 327
Liquid assets at period end	39 704	37 044	37 945

Positive cash flow of 1.8 MSEK during the first six months.

Strong cash position of 39.7 MSEK at period end.



Summary

- Enabler to change healthcare with powerful S/W tools – origin from medical image data expertise
- Strong leadership in the medical imaging field
- About to enter the fast growing Digital Pathology market
- Solid cash position



ContextVision



ContextVision Thank you!