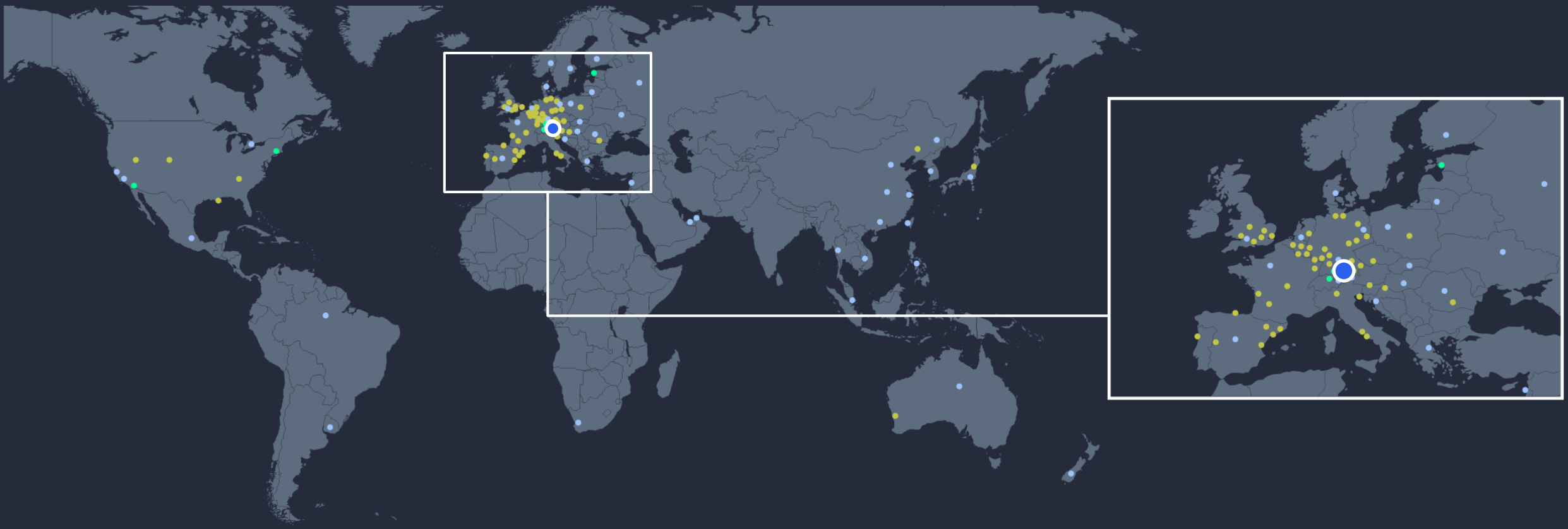
KARL STORZ VIDEO ENDOSCOPY ESTONIA

Company Presentation & Topics for thesis

The world is our home

Headquarters · Sales & Marketing · Manufacturing · Training Centers



KARL STORZ—ENDOSKOPE

Facts and figures at a glance

Foundation

1945 in Tuttlingen (Germany)

Fields

Medical Technology

Business areas

Human & Veterinary Medicine

Production sites

Germany, USA, Estonia, Switzerland

8,800

Employees worldwide

2,05 billion

Euro turnover in 2022

70

subsidiaries in 40 countries

STORZ
KARL STORZ—ENDOSKOPE

Tradition & future: A third-generation family business

Dr. med. h. c. Karl Storz

- Founder and inventor
- 1945: Founded KARL STORZ as a two-person company in Tuttlingen
- Laid the foundation for the company's global success in the field of medical technology
- Inventor of more than 400 patents and utility models

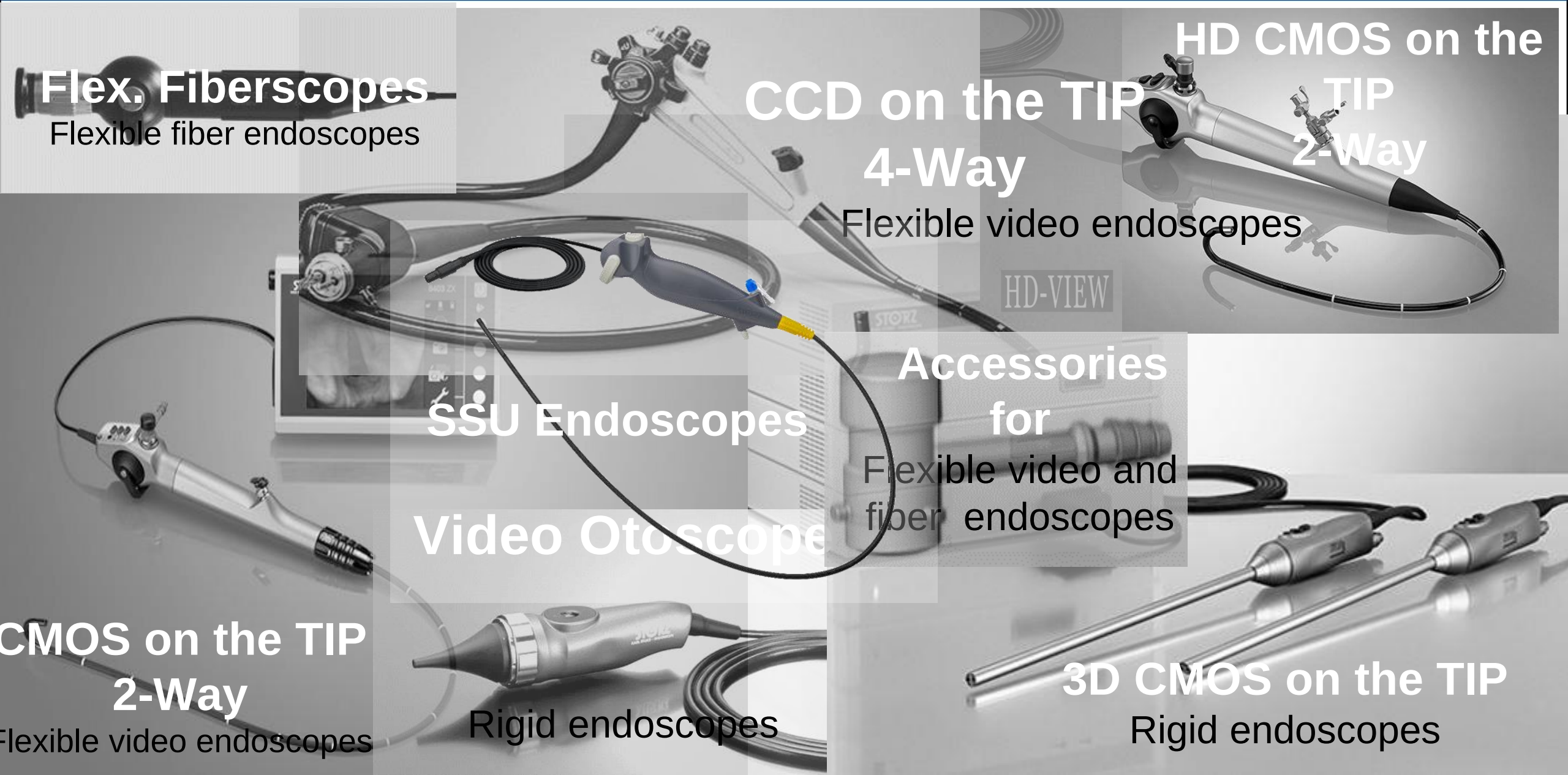
Dr. h. c. mult. Sybill Storz

- 1996: Daughter of the company's founder takes over the company management
- Accelerated the global expansion of KARL STORZ
- 2019: Handover of sole management to her son Karl-Christian Storz
- 2019 to the present day: Chair of the Supervisory Board

Karl-Christian Storz

- 2019: Takeover of management
- Consistently drives forward the digitalization, customer centricity and international development of KARL STORZ
- Continues to foster a close cooperation with healthcare professionals, clinics and research facilities

Product portfolio Tallinn



Flex. Fiberscopes
Flexible fiber endoscopes

CCD on the TIP 4-Way
Flexible video endoscopes

HD CMOS on the TIP 2-Way

SSU Endoscopes

Accessories for
Flexible video and fiber endoscopes

Video Otoscope

CMOS on the TIP 2-Way
Flexible video endoscopes

Rigid endoscopes

3D CMOS on the TIP
Rigid endoscopes

Research and development topics

X-ray visibility of plastic parts
- choice of additives and their effect on X-ray visibility
- effects on mechanical properties
- abrasiveness and effects on equipment

High-frequency compatibility of video images in endoscopy
- necessity and possibilities of analogue signal shielding
- the possibilities of using a sensor with digital output
- optical video signal and its advantages/disadvantages

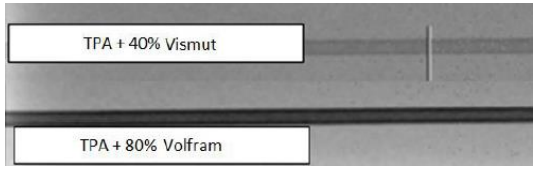
Fabry-Perot pressure sensor manufacturability at Karl Storz
- sensor design and manufacturing steps
- initial signal processing
- testing and analysis of results

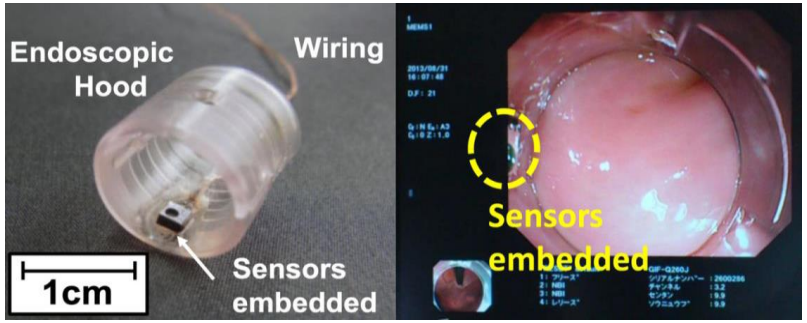
Fabry-Perot pressure sensor signal processing and integration with Karl Storz equipment.
- signal processing solution taking into account KS standards
- integration with software and hardware

Design of a polymer lens for a single instrument.
- choice of plastics
- manufacturing technology

Collecting and analysing production data from a semi-automated production lines to improve the quality of large-scale production.
- defining the data to be collected and methods
- data flow analysis methods and definition of patterns

Application of a collaborative robot for precision bonding on a production line in a manual workplace.





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