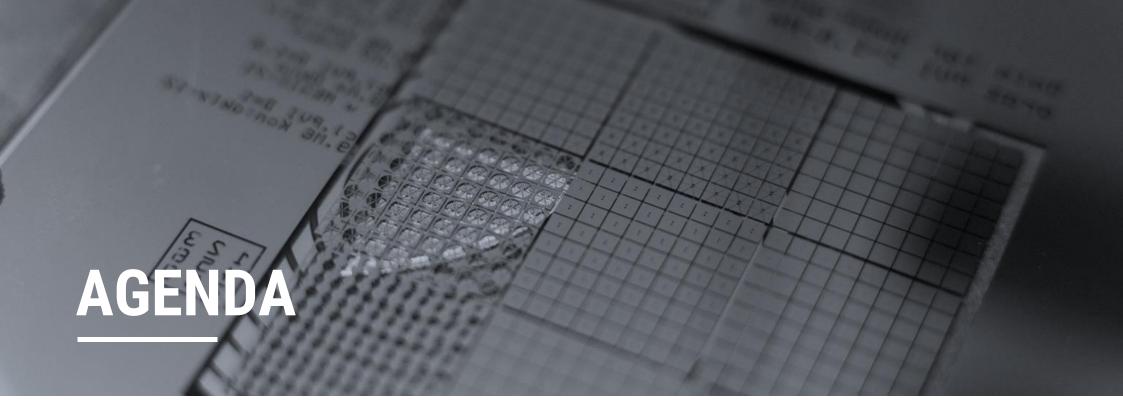




THE LEADER IN IR TECHNOLOGY

July 2020



- 1. About us
- 2. Mid-IR Market
- 3. VIGO 2020+ Strategy
- 4. Operational & financial results



ABOUT US



VIGO System S.A. is a photonics semiconductor company.

We are the global leader in the photon mid infrared detectors market.

Producer of the highest quality epiwafers for photonics and microelectronics applications.





33
years in the market



165 employees



6500 m² of production area

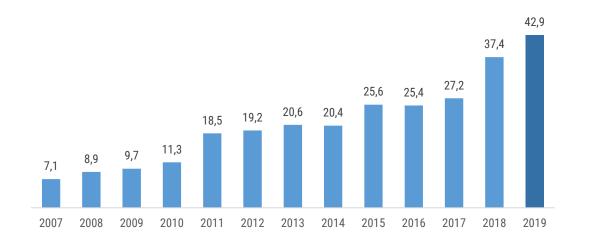


detectors on Mars

ABOUT US



// Revenues [m PLN]

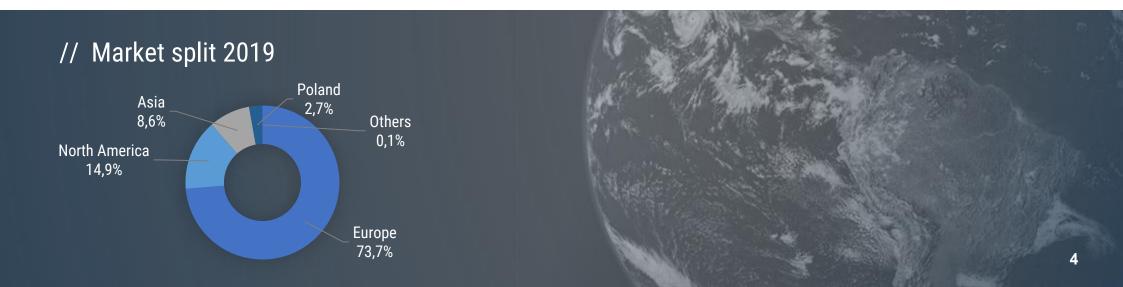


// Development

- Over **30 years** of continuous technological development and market expansion
- Supplier of the high-tech components for the most demanding customers (NASA, ESA).

Quality, technology and credibility attracted global corporations:

- Emerson Electric Co. (industrial gas analysers),
- Safran (optoelectronics systems),
- Gasmet Technologies (emissions monitoring),
- Caterpillar (railway sensor systems)



ABOUT US



Vertically integrated producer of photonics devices (Mid IR detectors)

IN-HOUSE FOUNDRY CAPABILITIES EPITAXY & PROCESSING

DETECTORS ASSEMBLY AND PACKAGING

PHOTONIC MODULES AND SUBSYSTEMS

Epi wafers growth (II-VI - MCT III-V - InAsSb, InAs)



TE cooled detectors



Uncooled detectors



Devices with optics, digital output and on-board software



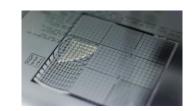
Epi wafers III-V (GaAs, InP)



Detection chips



Processing



Integrated detection modules

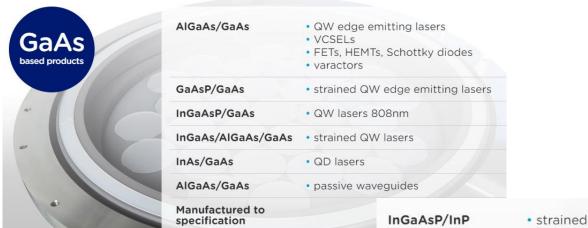


OUR PRODUCTS



// Epitaxial wafers:

We manufacture exceptionally high quality III-V epitaxial structures for use in sophisticated electronics such as lasers, photodetectors, transistors, photovoltaic cells and other devices. As one of the few companies on the market, we offer a broad range of high quality epi-wafers, which can be produced both in large volumes as well as in small test batches.



/ New department of VIGO System:



// Applications:

> Transistors: HEMT, MESFET

Diodes: Microwave, Schottky, LED

Lasers: F-P, QCL, VCSEL

InGaAsP/InP	• strained or matched QW edge emitting lasers and SOAs 1300 - 1600nm
InGaAs/InP	• QW edge emitting lasers
InGaAsP/InP	VCSEL structures
InAlGaAs/InP	edge emitting and VCSEL structures
InGaAsP/InP	passive devices
InGaAs	• photodetectors
InAlAs/InGaAs/InP	• HEMTs
Manufactured to specification	



MID IR MARKET



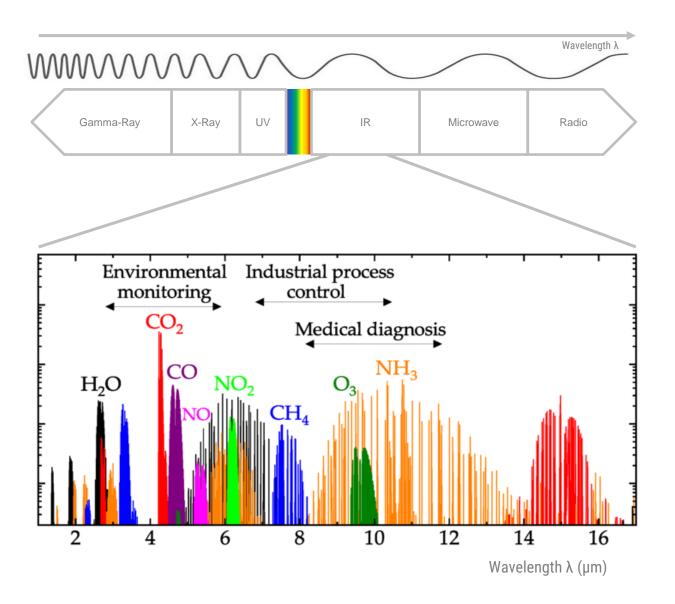
// Mid IR Market

Main applications

- Fast temperature measurement (ns) allowing accurate measurements at high velocities
- Analysis of gases and liquids

Markets:

- Environmental monitoring (emission monitoring, detection of hazardous substances, air and water quality measurement)
- Industry (industrial processes control, laser power control, quality inspection, sorting, lacquer thickness measurement)
- Railway automation systems (hotbox detection, fire detection)
- Security and defence (detection of laser rangefinders and laser aiming systems, intelligent ammunition, identification of hazardous substances)
- Medicine (non-invasive diagnostics, breath analysis, health monitoring)



MID IR MARKET

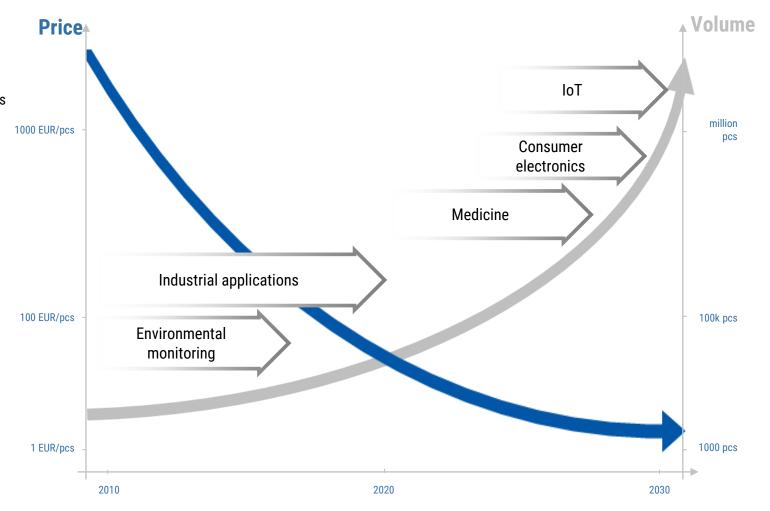


// Trends

Prices of components decreasing
 Prices of mid-Ir photon detectors below 100 EUR (without temperature stabilisation) for larger order volumes
 Increasing demand

Technology development

- New materials (III-V, T2SL)
- Integration of various functions in one device
- First attempts to use mid IR solutions in consumer electronics



Typical user stories











Consumer electronics manufacturer

- High volume production
- Extremly low cost
- Enable to monitor most vital human body signs

Industry 4.0 supplier

- Need for sensitive reliable product
- Sense anything anywhere
- Digital interface
- Easy to calibrate and service

Enviromental sensor manufacturer

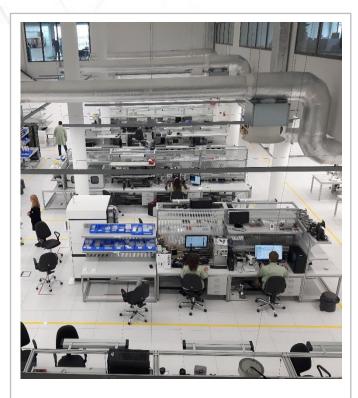
- Multigas sensors
- · Sensitive and reliable
- Small, low power sensor
- Measure air, water and soil
- Working in harsh conditions

HVAC system integrator

- Small, low power, affordable
- · Measure indoor air
- Stable and easy to maintain
- Integrated solutions

INVESTMENT PLAN





New packaging facility

New assembly and packaging facility.

Capacity of more than 100 ths. detectors a year.

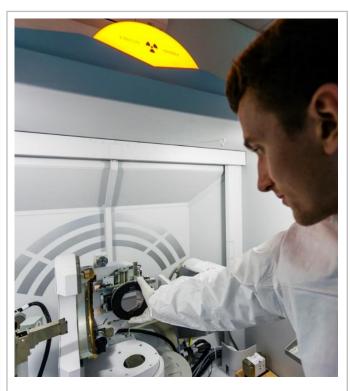
Project completed in 2019. CAPEX - 9 m EUR.



New epitaxy

New division within VIGO System – high throughput epitaxy. Production of semiconductor materials for photonics and microelectronics applications.

Project completed in 2019. CAPEX – 4,5 m EUR.



New clean-room facility

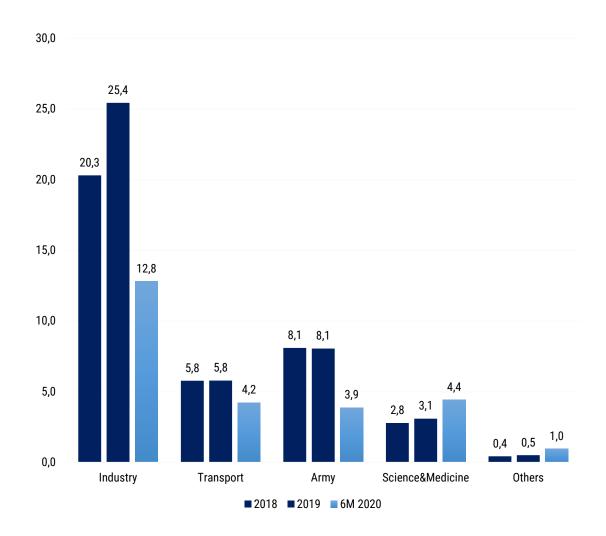
New cleanroom facility (700m2) to increase yield and improve production quality.

Project ongoing.
Planned completion in 2021.
CAPEX - 6 m EUR.

FINANCIAL RESULTS



// Revenues by application [mln PLN]



// Comment

- Significant growth in revenues in all segments (+37% in 2018, +14,6% in 2019, +29% in H12020).
- Revenues very well diversified among various segments and customers.
- Significant sales increases in the **industrial segment** (industrial gas analyzers, laser operation control, applications in the semiconductor industry, paint thickness measurements).
- Sales in the military and rail transport automation expected to increase in 2020.
- New prospective customers in the medical segment.

FINANCIAL RESULTS



// Financial results [mln PLN]



// Margin [%]



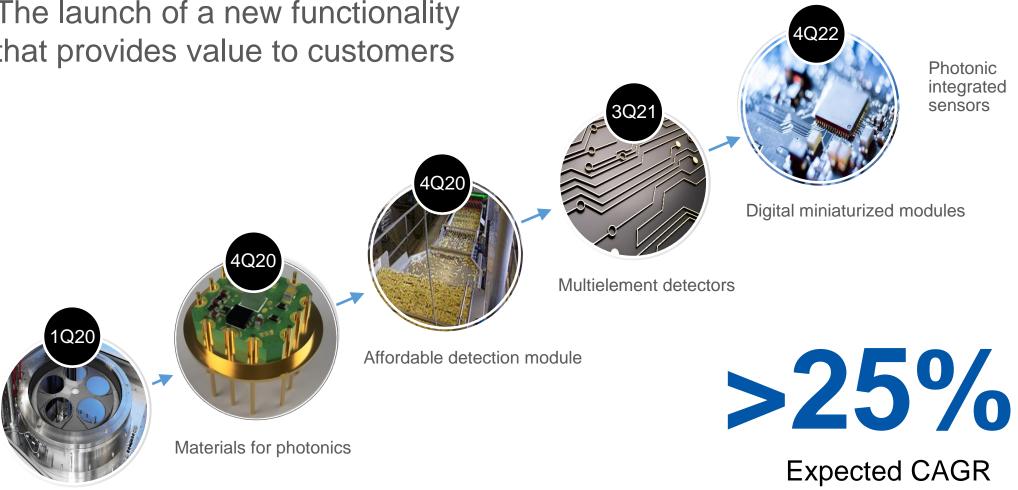
// Comment

- Significant increase in operating profit (+ 9.8% in 2019), EBITDA (+ 14.6% in 2019) and net profit (+ 6.6% in 2019). Further growth in 2020.
- Increasing profit margins (EBIT 35,7% in H1 2020, EBITDA – 47,3% in H12020).
- Net profit margin slightly lower due to valuation of EUR credits.



New Product Releases

The launch of a new functionality that provides value to customers



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FINANCIAL GOALS



>25%

CAGR beyond 2020

50-60%

Gross margin

- Production automation
- Decrease of unit costs
- · Optimization of supply chain

<20%

SG&A

· Economies of scale

35-40%

Net profit

 High net profitability through tax exemptions due to operation in Special Economic Zone - at least till 2023.

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Thank you for your attention

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