

Agenda Item 2 Featured Start-Up –

N5 Sensors, Inc.





SUMMARY OF ITEM FOR ACTION INFORMATION OR DISCUSSION

TOPIC: Featured Start-up – N5 Sensors, Inc. (information item)

COMMITTEE: Economic Development and Technology Commercialization

DATE OF COMMITTEE MEETING: January 26, 2017

SUMMARY: N5 Sensors, Inc., a University of Maryland spin-off incorporated in 2012, was founded by a former UMCP faculty member. The company is commercializing high-performance sensors and detectors for various applications, utilizing technology licensed from UMCP. Notably, N5 Sensor's novel chemical sensor architecture can produce sensors whose selectivity can be precisely tuned to any small set of chemicals through nanocluster design, which is currently not possible with any other technology. Potential applications include environmental monitoring, consumer electronics, toxic chemicals release detection, and industrial safety. The founder and president, Dr. Abhishek Motayed, also had a joint appointment with NIST and has been successful in winning several SBIR awards.

ALTERNATIVE(S): This item is for information purposes.

FISCAL IMPACT: This item is for information purposes.

CHANCELLOR'S RECOMMENDATION: This item is for information purposes.

COMMITTEE RECOMMENDATION:	DATE:
BOARD ACTION:	DATE:
SUBMITTED BY: Tom Sadowski / Suresh Balakrishnan (301) 445-2783	



Committee on Economic Development and Technology Commercialization

Featured Start-Up- N5 Sensors, Inc.

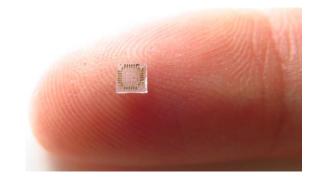
January 26, 2017



Chip-Scale Gas Sensors Of for Wearables and IoT Applications

Abhishek Motayed, Founder, CEO

January 2017



Meet The Team





Dr. Abhishek Motayed
Founder and CEO



Dr. Ratan Debnath

Director of Engineering



Dr. Baomei Wen

Manufacturing

Advisors



Steven Chen

Member, Blu Venture Investors
Former CEO of an Intel Capital Portfolio
company



Chad Lucien

Senior Vice President, Sales and Marketing at Hillcrest Labs



The Missing Information



Accelerometer
Gyro
E-Compass
Barometric Pressure Sensor
Heart Rate Sensor
Proximity Sensors
Hall Sensors
GPS
Camera
Temp/Humidity





What's in the air?

Monitoring Trends and Activities

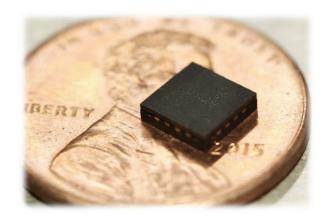
Sleep, Athletic, Heart Rate, Energy Usage, Safety

N5's Smart Gas Sensor Chips



Manufactured by N5 in Maryland

National Institute of Standards and Technology



UMD Patented Design

Licensed by N5



Significant R&D utilizing Federal SBIRs

Robust and Reliable

N5's State-of-the-Art Test Facility in Rockville



Products and Services Enabled by N5's Technology



Customer – 2nd Largest Consumer Electronics Manufacturer



Industrial and First-Response

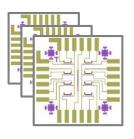
Customer – 3rd Largest Industrial Gas Detector Manufacturer US Dept. of Homeland Security NASA Environmental Protection Agency DoD

Customer – Large Semiconductor Chip Manufacturer

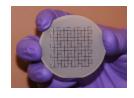




Design



Manufacturing



Packaging



Testing



System Development



Facilities and Resources

20,000 sq. ft class 100 clean room with state-of-the-art Semiconductor Fab Tools

350 sq. ft sensor test laboratory in Rockville, MD





Our Story

