

NödeNs

medical



AI-driven People-Sensing Solutions

Our patent-pending, AI-powered sensors can detect where people are and what they are doing. This is done without the use of privacy-invading cameras or intrusive wearable devices.

Who we are: Our leadership combines technology development and healthcare improvement experience



Dr. Khalid Rajab

Co-founder & Technology Director

Radar, AI, EM expert with > 50 publications.
Research feat. in international. Media Post-grad
degrees in EE, Maths (Penn State)



Dr. Rishi Das-Gupta

Co-founder & Medical Director

NHS Director (Operations and transformation and IT)
Former management Consultant (McKinsey & Co.)
Medical doctor (Cambridge/UCL), MBA (LBS)



Dr. Peter Alizadeh

Hardware Lead

MM-wave electronics expert
Worked from RF to mm-wave and THz
PhD in mm-wave electronics (QMUL)



Dr. Zofia Das-Gupta

Operations Lead

Healthcare improvement expert (Former: ICHOM
director, UCLPartners improvement team)
PhD in Immunology (UCL, Harvard)

What we do: NodeNs sensors tell you where people are and what they are doing without using cameras

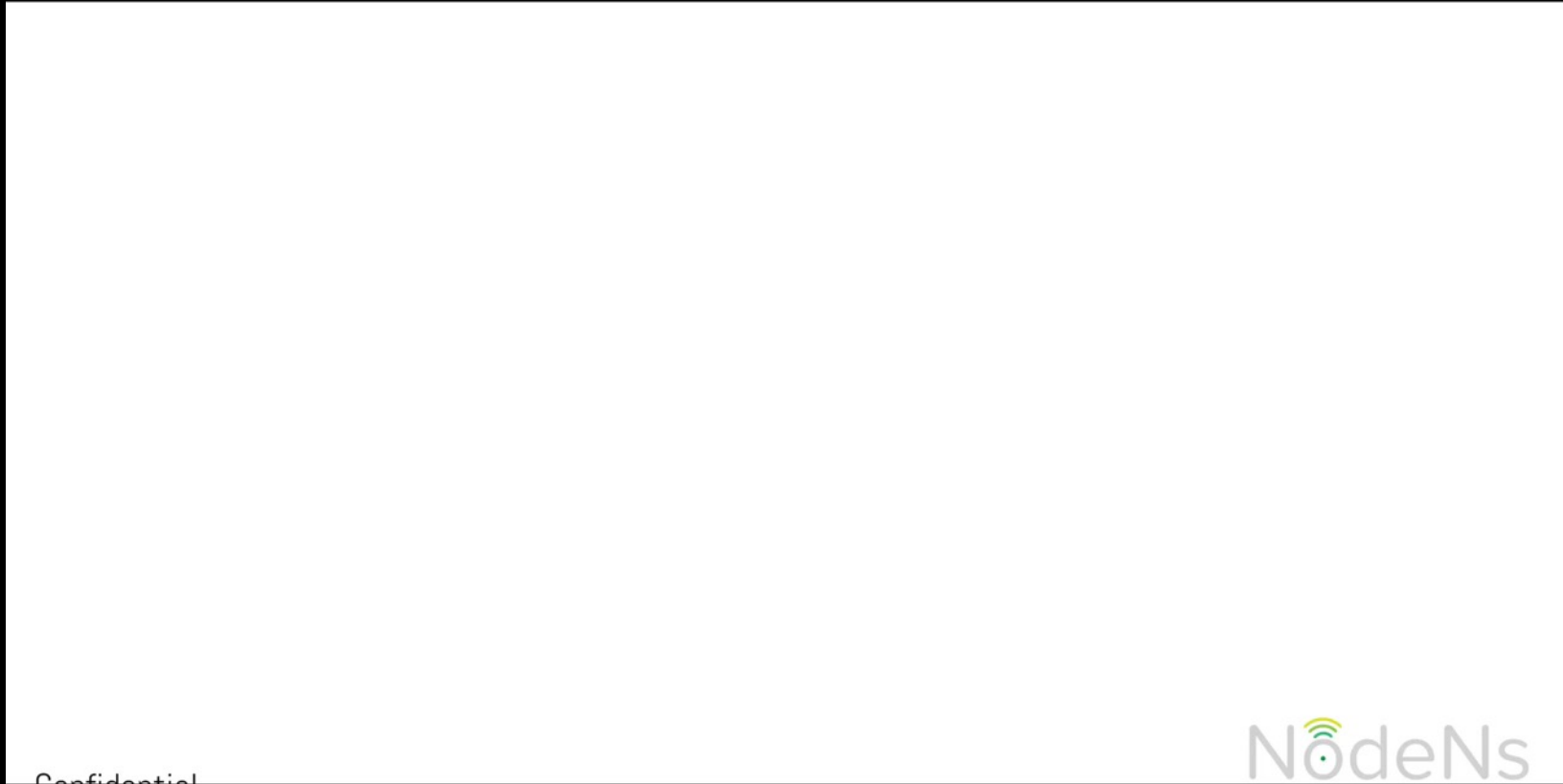
Our sensors...



- **Are easy and cheap to install:**
sensor plugs into a wall outlet and creates a mesh Wi-Fi network. No wiring/network port is needed.
- **Preserve privacy:**
generates a continuous mm-wave 'picture' of the room **without cameras or video recording**, allowing use in privacy-sensitive environments.
- **Are unintrusive:**
no smartphones, tags or wearables.



What we do: the NodeNs sensor in action...



Confidential

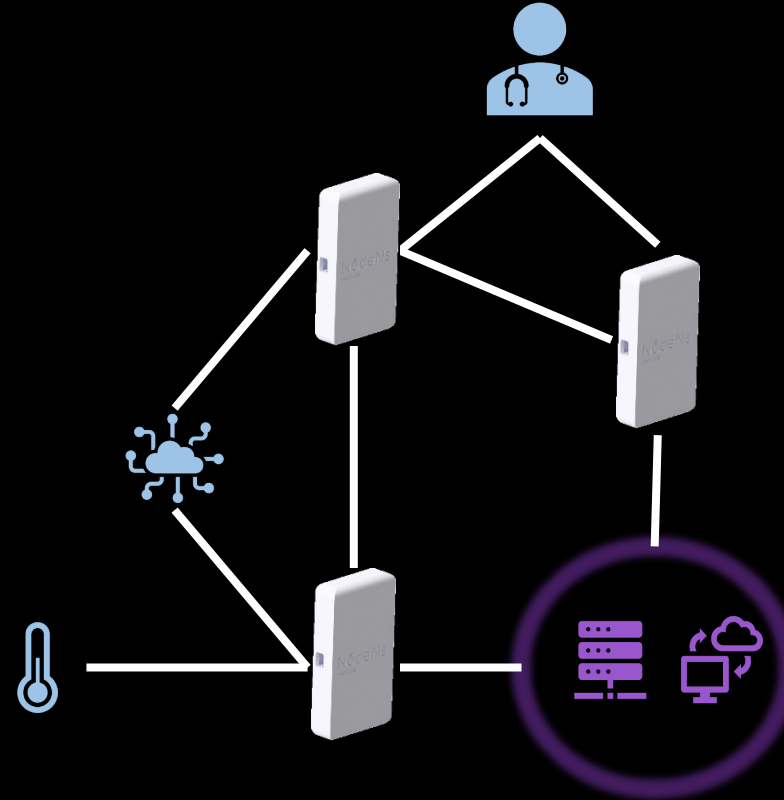
NodeNs
medical

<https://youtu.be/70cyISv018M>

How our technology works: Any number (N) of Nodes can be linked via our mesh network to scale across large areas

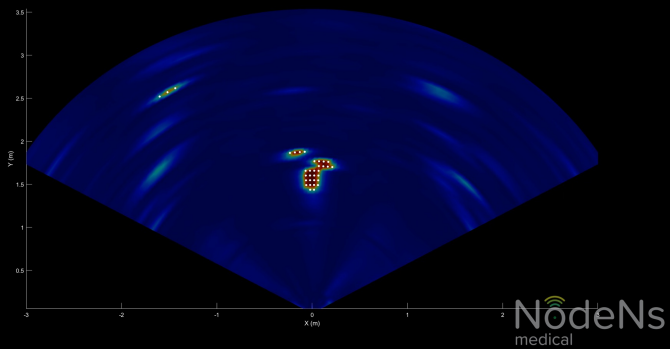
Each sensor works individually to monitor activity in a room but they can be linked...

The NodeNs sensors form a mesh network which is secure, robust, and connects IoT devices to a local server or the Cloud.

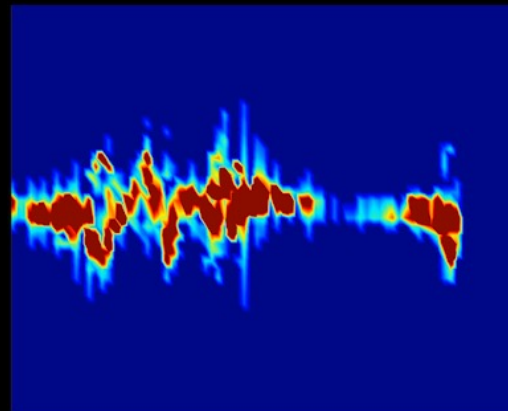


How our technology works: The sensors recognise activity

The sensor generates a continuous mm-wave 'picture'



AI-processing is done on the chip to identify activity



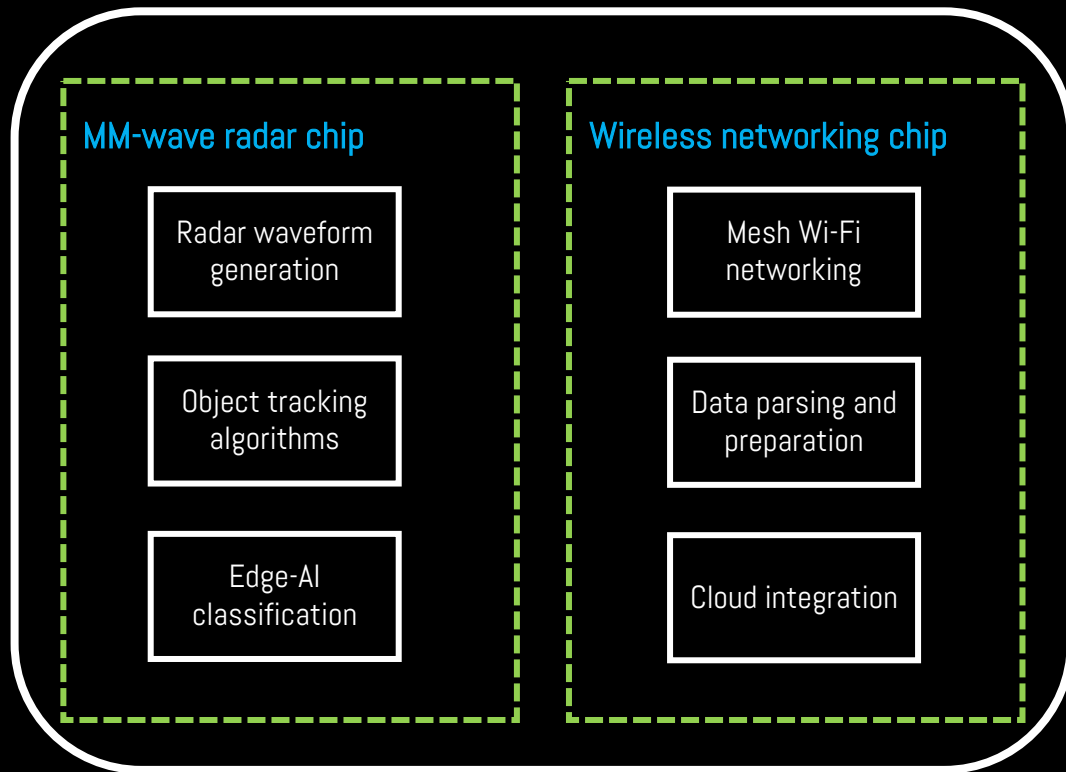
This is really useful in areas where privacy is important



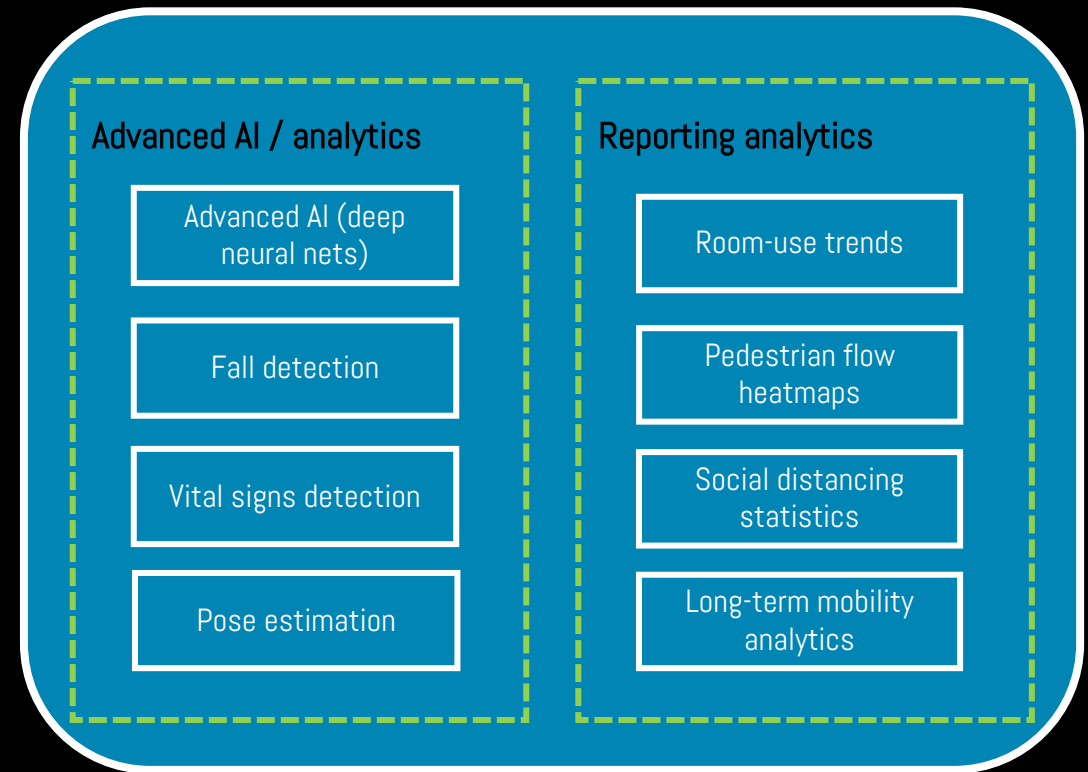
How our technology works: Our approach harnesses edge processing



On the sensor / edge processing

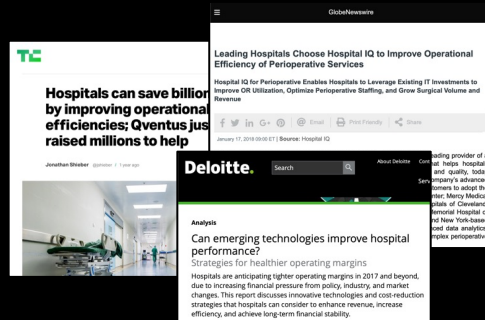


On the server / cloud processing



NodeNs are looking for partners to access key markets in parallel

NodeNs was developed for hospitals where privacy is a key concern...

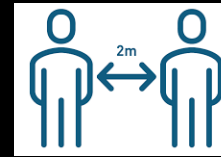


- Minimise infrastructure requirements and simplify installation
- Millimetre-wave sensing can 'see' where people are to within a few cm
- Artificial intelligence can predict what people are doing and improve data quality

...the technology is applicable to other areas as well such as



Homecare /
remote monitoring



Social distancing /
infection control



Smart buildings /
hospital utilisation

NodeNs is currently running three pilots to develop the real-world evidence base for these use cases



Homecare / remote monitoring

- We are preserve the independence of people living in a supported environment
- We have experience deploying the technology in home environments/ apartments and assisted living facility
- Information on activities of daily living and quality of sleep and alerts for mobility issues/inactivity/falls to help facility staff monitor residents and provide targeted care

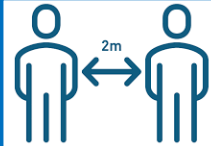
The **ExtraCare**
Charitable Trust



Engineering and
Physical Sciences
Research Council

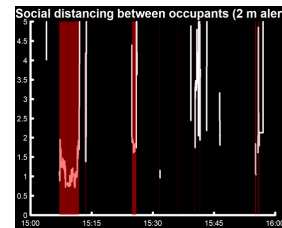


NIHR | National Institute
for Health Research



Social distancing / infection control

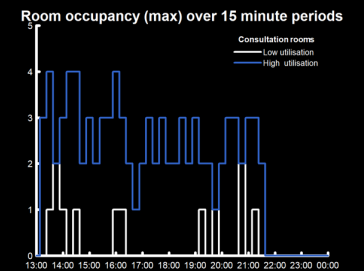
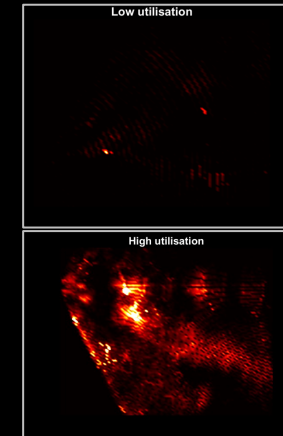
- We are able to support data- and evidence-driven reopening of offices and labs.
- We have experience setting up in work environments, with minimal interruption of occupants
- How many people are in a space? What is the occupancy distribution? Are people respecting social distancing? - we can provide live notifications when occupancy levels or social distancing rules are violated.



Funded by
Innovate UK



Hospital utilisation / Smart buildings



Oxford Health
NHS Foundation Trust

NodeNs are looking for partners to access additional markets and help scale the business

- NodeNs is one of only two UK partners recommended by Texas Instruments for mm-wave sensor development
- We can easily integrate into other platforms – so far we have interfaced into TI, Siemens, Metrikus and Ascom systems
- We are seeking partners to help us access these markets via partnerships and licensing opportunities and scale-up funding for next 2-3 years



Q&A

www.nodens.eu

For further details on the presentation and
the company information please reach out to

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