Smarter Healthcare

powered by THiNaër™

People. Places. Things.

Tracking what matters.

www.thinaer.io

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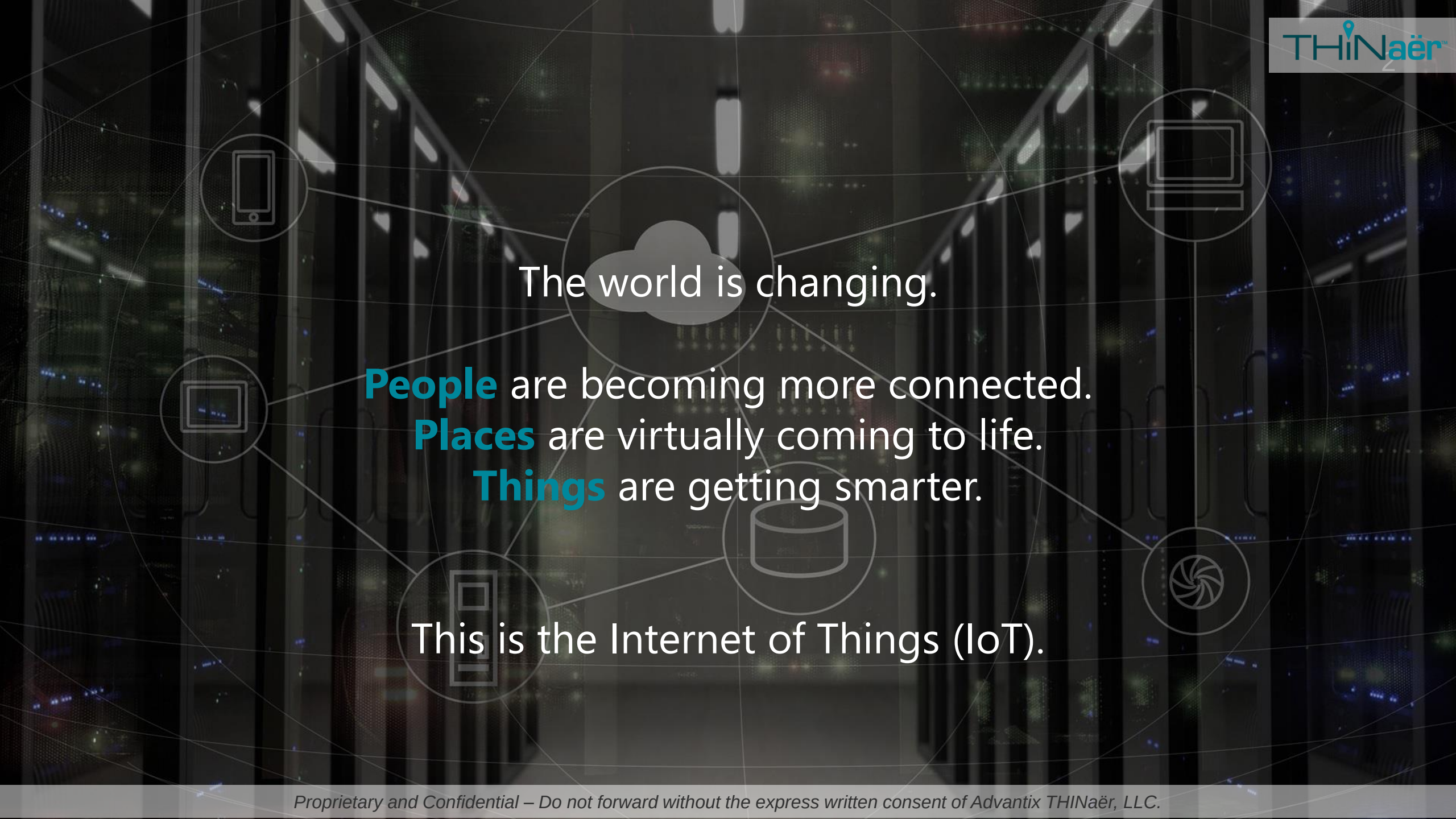

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By 2019
85% of businesses plan to adopt IoT technology.

The Internet of Things: Today and Tomorrow, Aruba

By 2020
there will be more than 200 billion connected devices.

A Guide to the Internet of Things, Intel

By 2030
IoT will add $10-15 trillion to worldwide GDP.

Industrial Internet Insights Report, General Electric (GE)

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Internet of Things (IoT) Healthcare Market Report, Allied Market Research

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Age old problem of RTLS
Too expensive and two hard to install

THINaër brings it all together and turns it into actionable data today!

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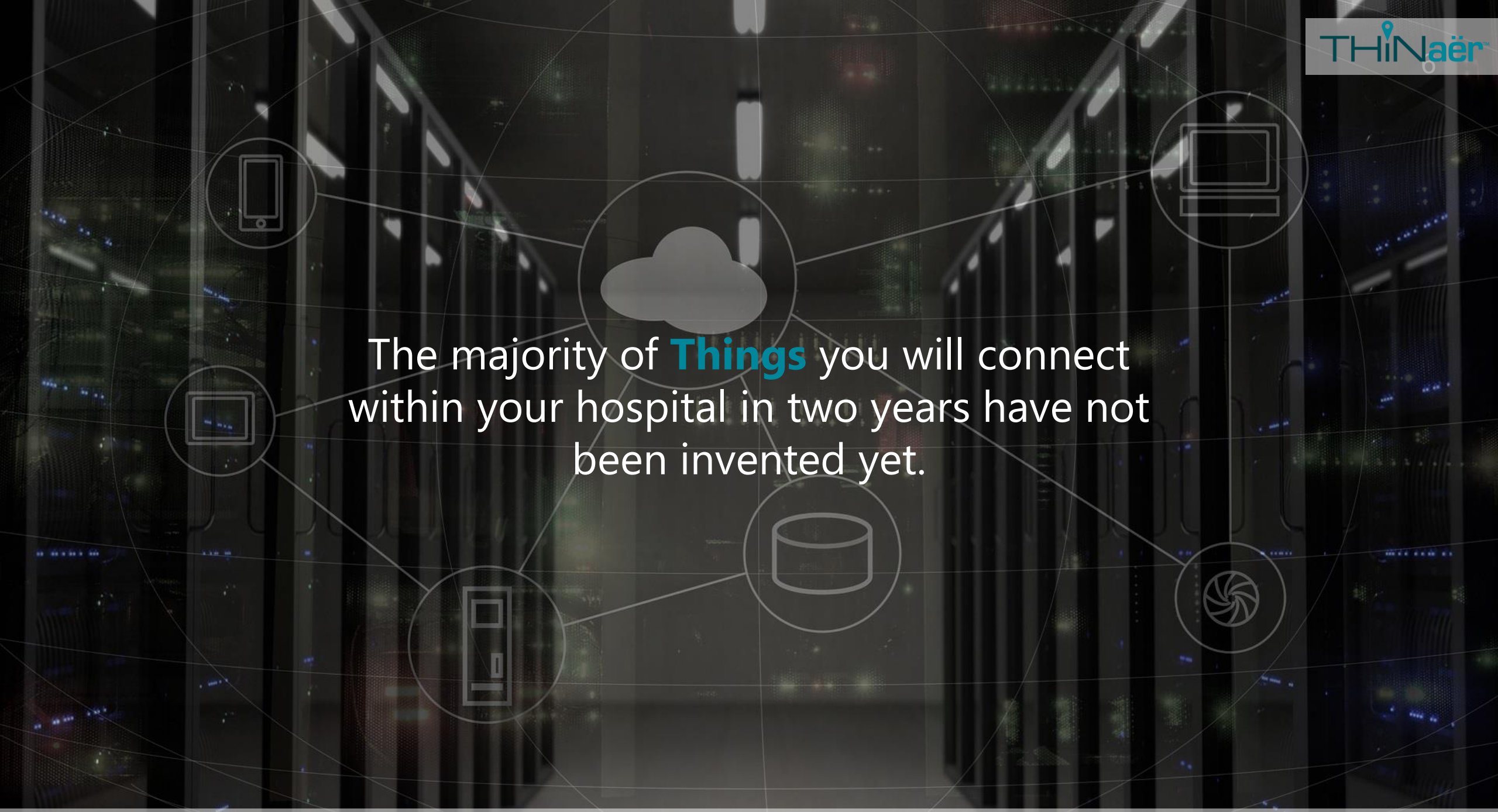

The majority of **Things** you will connect within your hospital in two years have not been invented yet.

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THINaër makes it easy to add your new THINGS!

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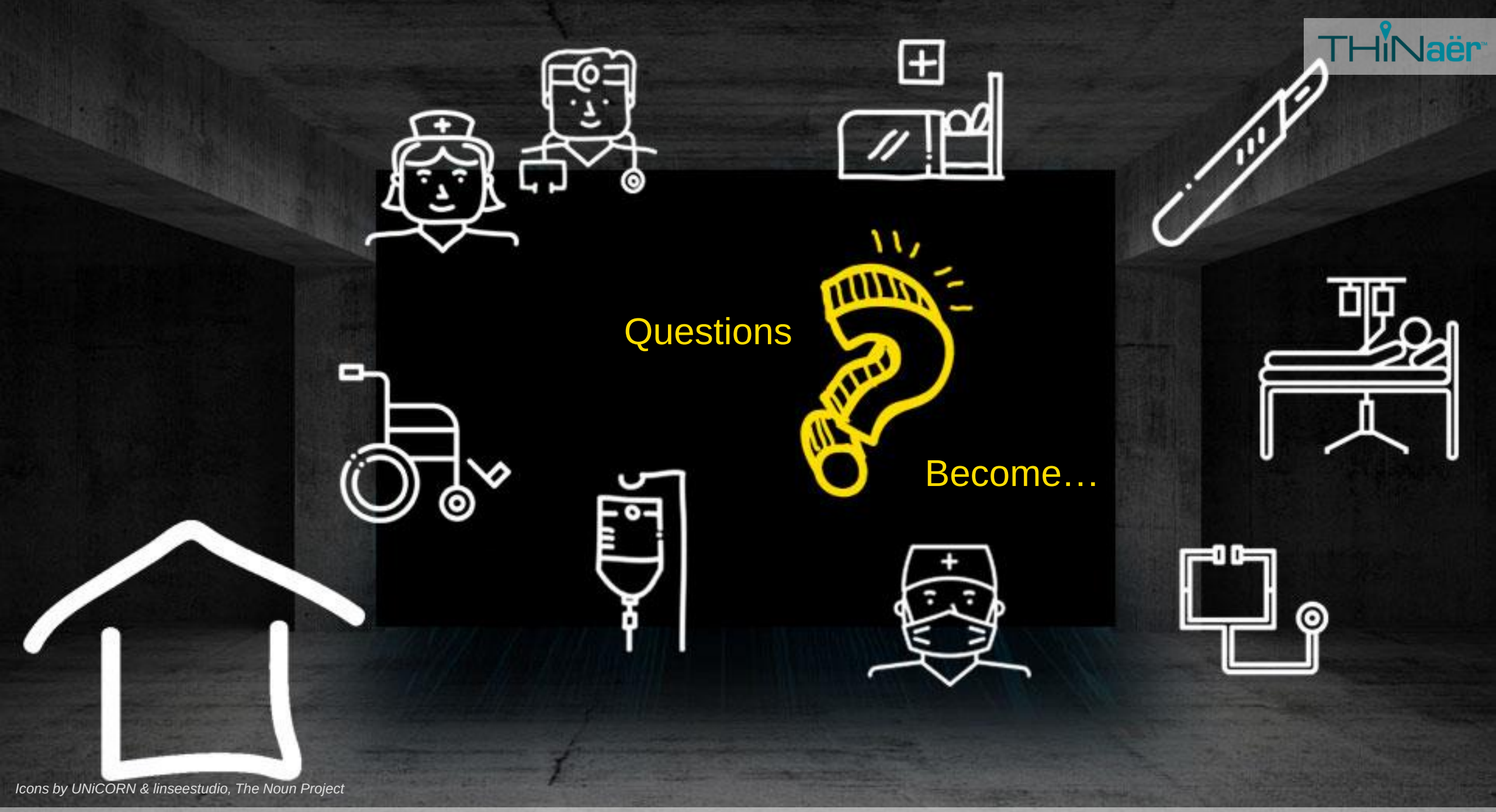

Icons by UNiCORN & linseestudio, The Noun Project

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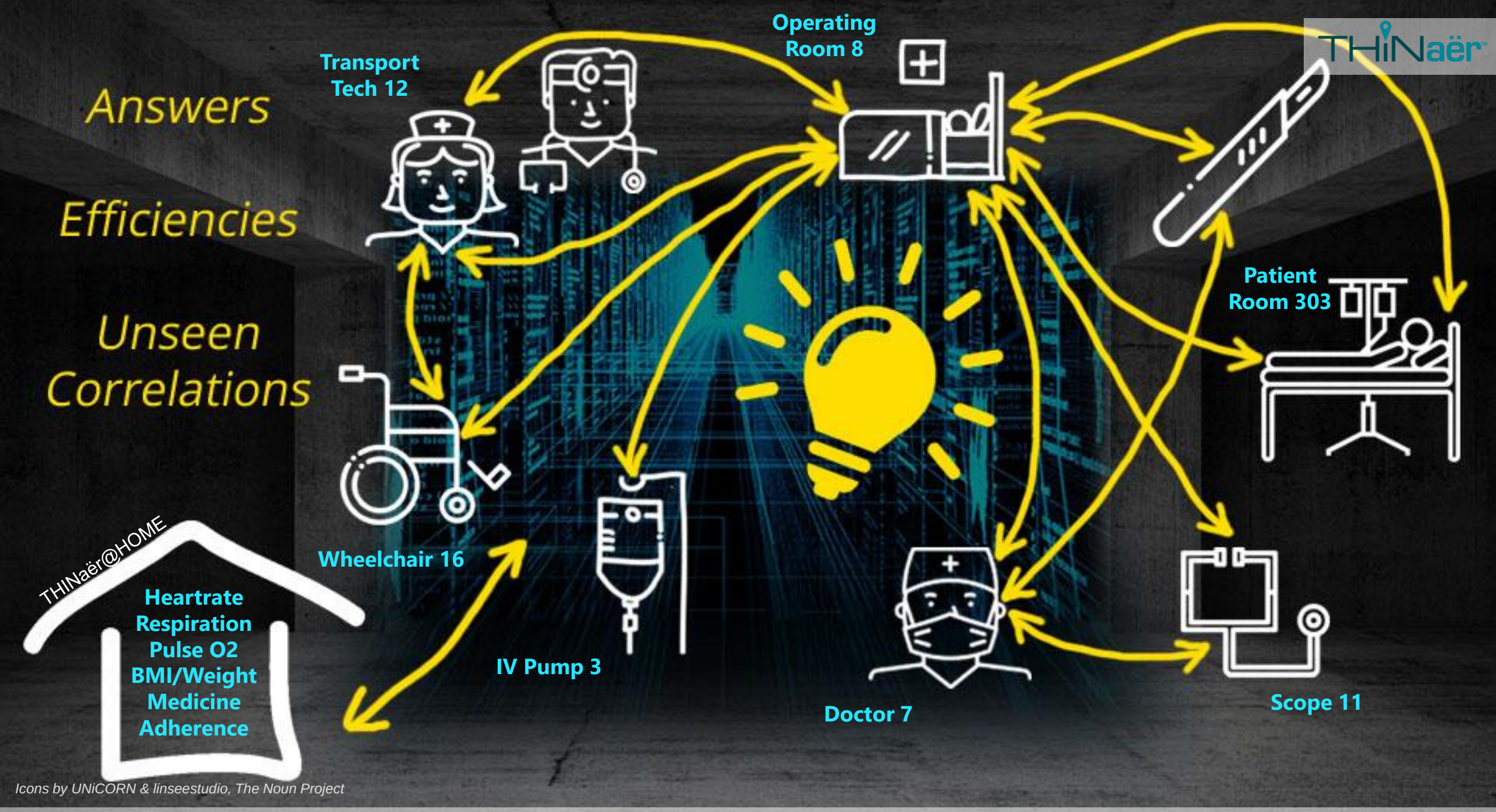

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THINaër™

Make facilities smarter and more compliant to requirements

by automatically knowing the locations of key **people** and **things** and triggering alerts for out-of-range values.

Out of the box today!

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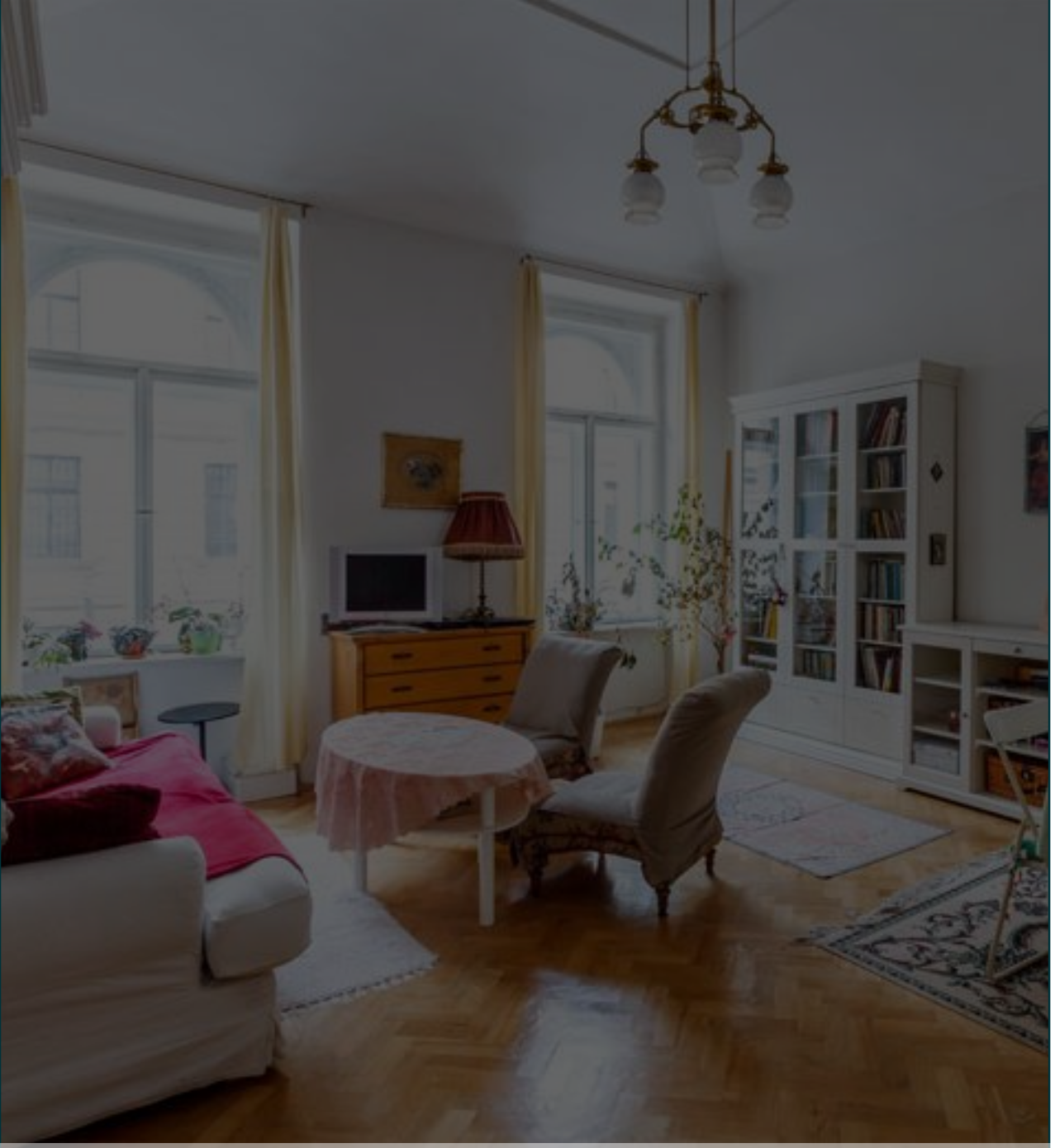

Reduce readmissions by easily adding new health and wellness devices to THINaër@HOME

Leading Edge Wearables

Smart Pill Dispensers

Smart Scales

Out of the box today!

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Patient care is improved

by making workflows more efficient and enabling staff to spend more time providing care and less time looking for the **people** and **things** they need.

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Procedure rooms are safer, more compliant and generate more revenue

by monitoring temperature and humidity of key **places** and triggering fluctuation alerts.

A THINaër customer successfully created temperature and humidity triggers and actions to end recurring OR shutdowns.

Each shutdown of each OR could cost as much as $90,000 per day.

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Equipment costs are reduced by 5% or more

by automatically tracking **things** like infusion pumps and wheelchairs.

A THINaër customer is installing hospital wide due to an average of 10% of equipment missing at each monthly review.

A new THINaër customer will be creating approved zones for high value portable equipment after an $80,000 unit was accidently thrown in the trash.

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Dementia wandering is immediately improved

by allowing **people** the freedom to roam while decreasing risk of getting lost or hurt simply by monitoring location information and informing personnel of location changes.

THINaër is currently integrating Triggers and Actions with a gate and door system for a customer.

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Joint Commission compliance is improved

through access to ***real-time data*** about locations, temperature and humidity.

A THINaër customer is using the Sonar reporting feature to show temperature and humidity compliance avoiding $10,000 fines per incident.

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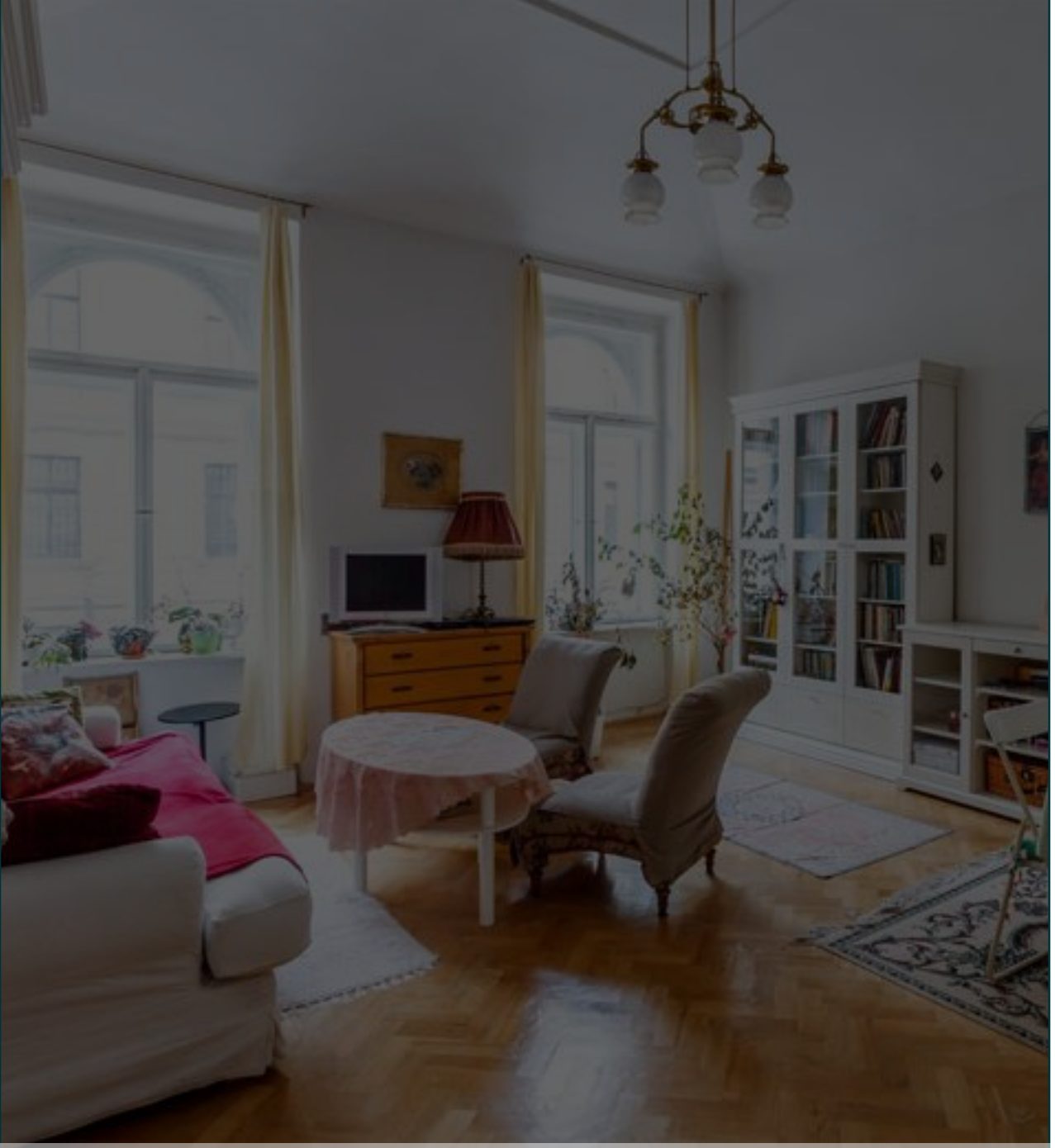

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Meet THINaër:

Innovative open technology platform
generating a new class of data
transforming the *Internet of Things* into
The Internet of People, Places & Things℠.

The THINaër data ingest engine sees Bluetooth and Bluetooth Low Energy (BLE) signals throughout your entire organization and passes them to the THINaër platform for packaging, distribution and consumption.

It's the most comprehensive view of operations ***ever****.*

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THINaër 5.0.1 Technology and Products

Cloud IoT and Location Engine

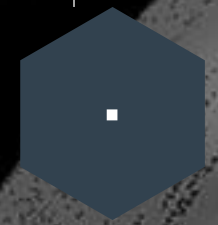
Gateway agnostic platform for aggregating data from all Bluetooth devices and beacons, Overlook module for location learning and tracking, data cleansing and historical data storage. Sense and respond scaling with no human interaction.

THINaër API

REST API, Web Hooks, iOS SDK & Android SDK

Developer Kits & Tools

Developer.thinaer.io



Enterprise Grade BLE Beacons

Beacons to connect legacy assets, people and raw materials. Includes Temperature, Humidity and Accelerometer to enable new high value use cases.

Enterprise Grade BLE Gateways

We built our own gateway to quickly enable todays IoT use cases , designed to become the new intelligent edge of the enterprise.

Sonar

Powerful IoT Dashboard and location mapping application with triggers and actions that support endless IoT use cases.

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THINaër 5.0.1 Technology and Products

Enterprise Grade BLE Beacons

Beacons to connect legacy assets, people and raw materials. Includes Temperature, Humidity and Accelerometer to enable new high value use cases.

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THINaër 5.0.1 Technology and Products

Core IP

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We built our own gateway to quickly enable todays IoT use cases , designed to become the new intelligent edge of the enterprise.

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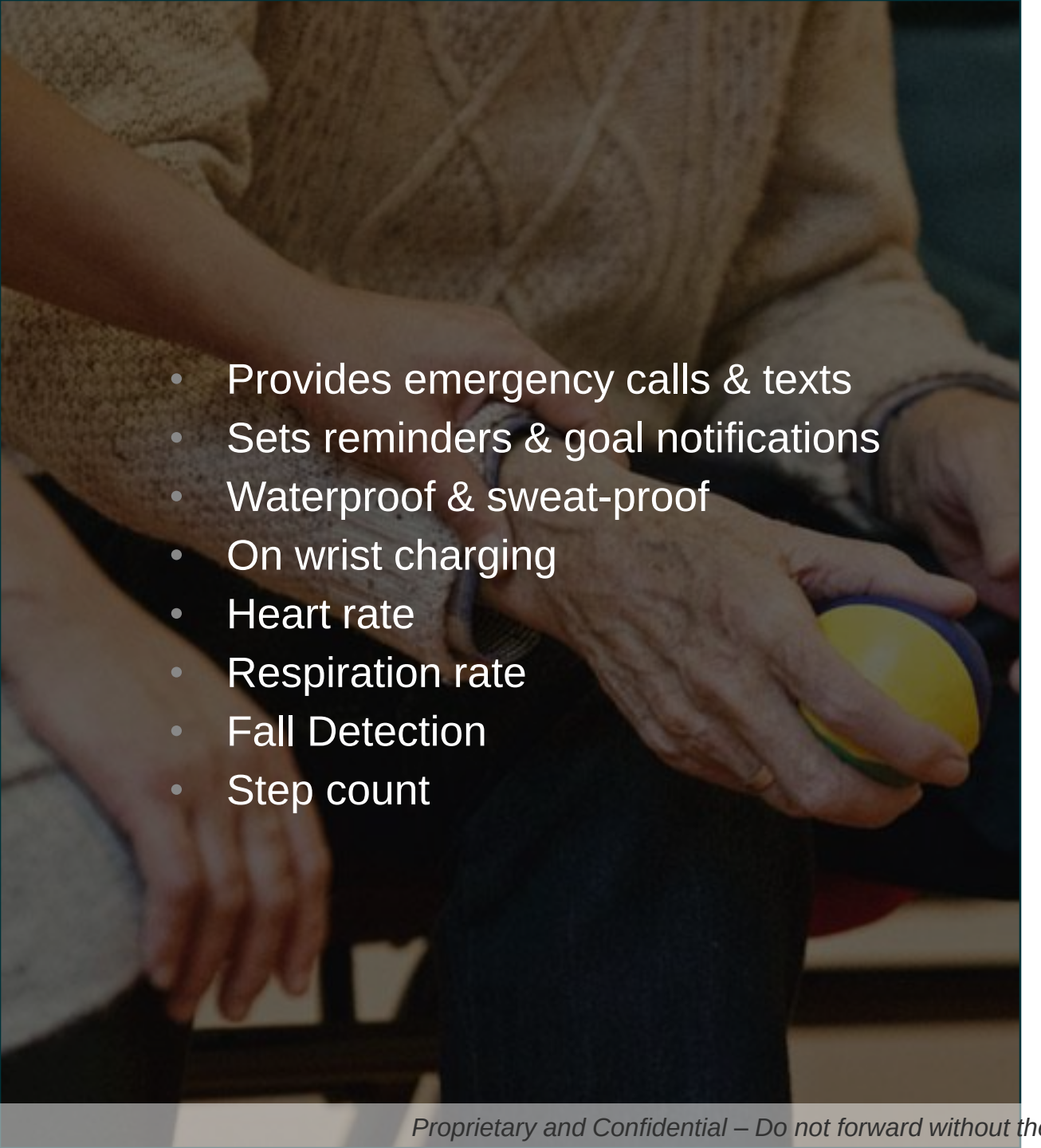

- Provides emergency calls & texts
- Sets reminders & goal notifications
- Waterproof & sweat-proof
- On wrist charging
- Heart rate
- Respiration rate
- Fall Detection
- Step count

SENSOGRAM TECHNOLOGIES

THINaër™

VitalBand detects falls, accurately monitors critical vital signs and activity with both automatic and wearer activated emergency response – Technology/Marketing partnership with Intel

- Alerts are easily set, data is easily shared with family, caregivers or physicians wirelessly with permission
- Easy to dismiss false alerts
- Easily pairs to smart phone, tablet or hub

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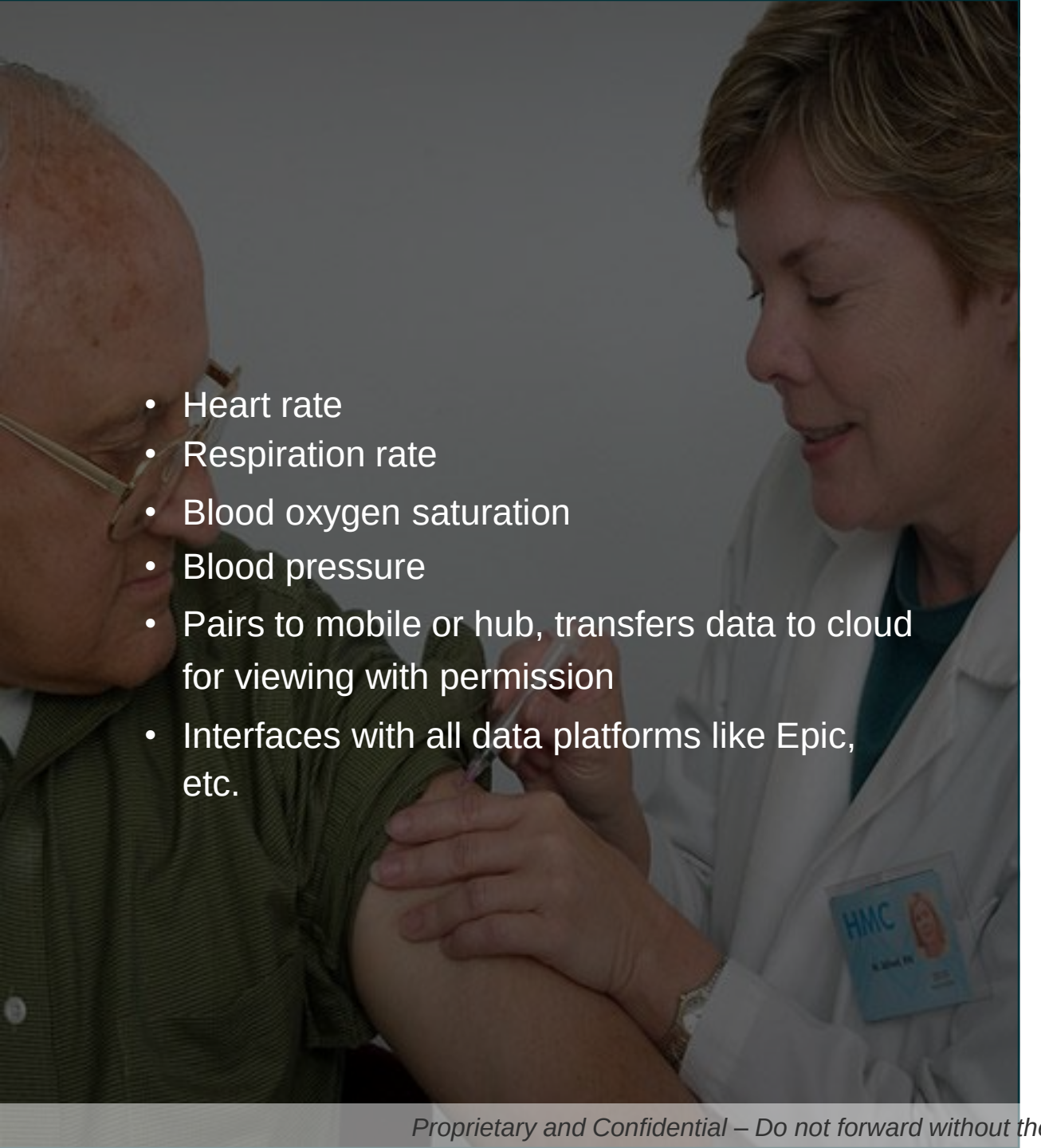

- Heart rate
- Respiration rate
- Blood oxygen saturation
- Blood pressure
- Pairs to mobile or hub, transfers data to cloud for viewing with permission
- Interfaces with all data platforms like Epic, etc.

SENSOGRAM TECHNOLOGIES

THINaër™

SensoSCAN is a patented, non-invasive, cuff-less, wireless, mobile continuous vital signs monitoring platform that inexpensively and efficiently replaces multiple devices across many use cases

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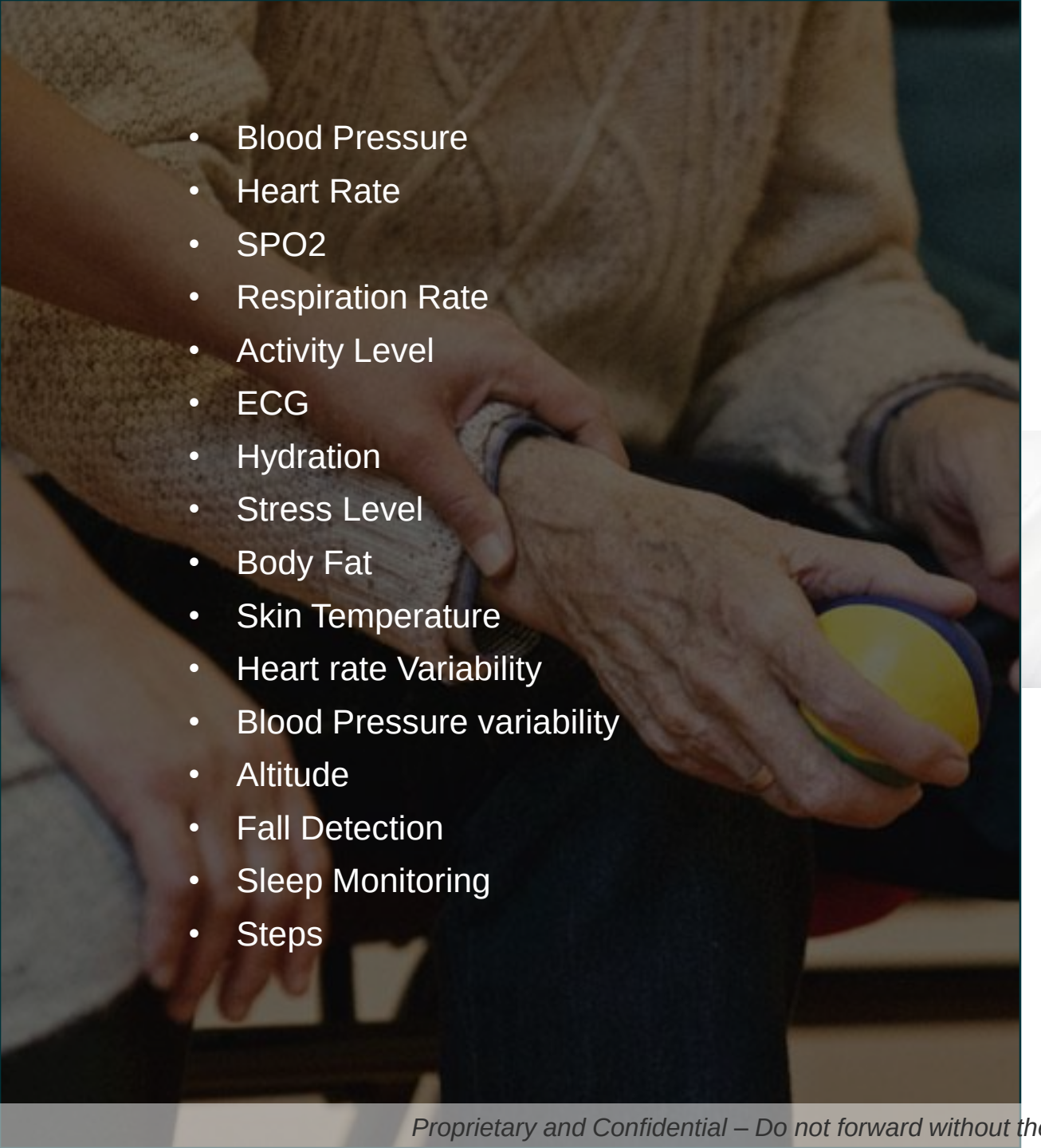

- Blood Pressure
- Heart Rate
- SPO2
- Respiration Rate
- Activity Level
- ECG
- Hydration
- Stress Level
- Body Fat
- Skin Temperature
- Heart rate Variability
- Blood Pressure variability
- Altitude
- Fall Detection
- Sleep Monitoring
- Steps

SENSOGRAM TECHNOLOGIES

THINaër™

SensoRING is designed for personal performance, military, first responder and highly active use cases

- Vitals monitoring
- Wellness monitoring
- Stress monitoring
- Performance monitoring
- Sleep monitoring

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THINaër 5.0.1 Technology and Products

Sonar
Powerful IoT Dashboard and location mapping application with triggers and actions that support endless IoT use cases.

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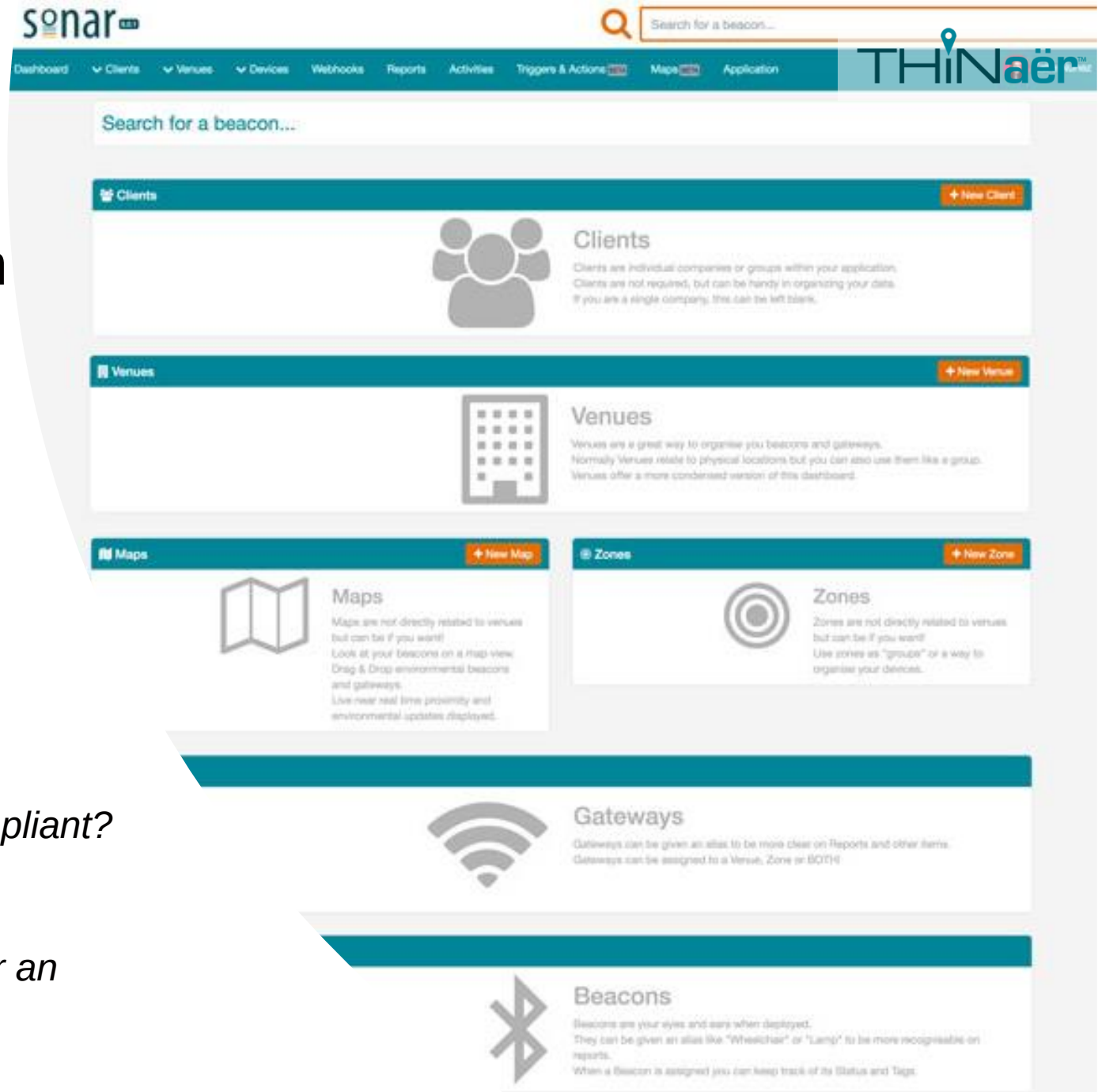
Sonar

Web-based application

Enables organizations to track assets and understand utilization trends, patterns and opportunities for optimization through a user-friendly interface.



<u>Enables more meaningful insights</u>

Location

- *Where is everyone? Is everything where it's supposed to be?*

Temperature/Humidity

- *Have there been fluctuations? Are we still compliant? Is the location too hot? Too cold?*

Triggers & Alerts

- *Is it time to send help, alert someone or trigger an event?*

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What are the questions you'd like to ask your organization?

*The THINaër platform can answer **questions related to data** and transmitted by an IoT-enabled entity:*

- Where are my IV pumps?
- What equipment is in room 302?
- What is the temperature in OR Room 8?
- How many nurses are on 3 north?
- What equipment on 3 North needs to be serviced in the next 90 days?
- Where is patient #28458?
- Show me an inventory of medical equipment and devices for each location in a facility.
- How much time do your nurses spend in patient rooms, nurses station, other locations?

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Why THINaër?

- Significantly lower cost
- Doesn’t require infrastructure overhaul
- Faster and easier to deploy
- Easier to maintain
- Simpler to integrate
- More flexible and configurable
- Enables better data-driven decisions

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THINaër in Action

- Tag your people or your things
- Drop our gateway(s) onto your guest network
- Monitor location information through our *Sonar* web-based application
- Create custom triggers to alert key personnel when conditions or locations change
- Access critical data to feed existing systems by integrating with THINaër APIs

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A THINaër Exclusive!

The Internet of People, Places and Things℠

- An intelligent database layered on top of raw ingested, real-time data
- Agnostic & unconcerned with underlying device types
- Context aware, industry specific & configurable
  - Ex: People have permissions & geolocation restrictions; in hospitals they're nurses nurses, doctors & patients; in manufacturing they are equipment operators, managers & drivers
  - Ex: Places are fixed & provide real-time information about the people and things they see
  - Batching scheme for downstream processing and enables manual data science
- Data is packaged & made available via API for 3rd party application integration and Artificial intelligence solutions
- Ask questions of your data using natural language

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Why THINaër?

- Reduce spend on moveable medical equipment by 5% annually.
- Improve the patient experience and operational efficiency by simply finding "things" faster.
- Reduce losses due to inadvertently throwing small high value equipment away.
  - If equipment is placed in a drawer, THINaër still sees it!
- Reduce losses due to theft by being alerted if equipment leaves an approved area or zone.
- Save time and improve compliance by having assets raise their hand when they are due for maintenance.
  - Assets even tell you where to come pick them up!
- Avoid joint commission fines because ORs tell you when they are out of Temperature or Humidity range.
- Joint commission reporting for Temperature/Humidity becomes just a few clicks.
- COMING SOON! Reduce readmissions by monitoring patients with THINaër@HOME.
- COMING SOON! Improve the patient experience by letting them sleep the evening prior to discharge. Capture and monitor vitals via a wearable rather than waking the patient up every hour.

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Team THINaër Management

Bryan Merckling
CEO

Bryan was COO and Co-Founder of Webify, which was acquired by IBM. Bryan then served as Director of World Wide Software Strategy at IBM.

Bryan also founded a sports technology company which has been acquired after being featured on ESPN. The technology continues to be used by companies such as Nike, Under Armour, GoPro, Tour Academies and Hank Haney Golf among others.

Bryan led CommerceOne.net, the world's largest online B2B marketplace as SVP.

Rusty Lewis
CGO & CSO

Rusty served as CTO of McKesson and CTO/CIO at Vizient, the world's largest Healthcare GPO, where he led all technology advancements including data analytics.

Rusty has multiple successful Healthcare exits and holds more than 20 patents.

Ben Pyle
Architect, Healthcare Solutions & Data Analytics

Ben was Director of Strategic Technology & Enterprise Architecture at Vizient, the world's largest Healthcare GPO where he led 5 software development teams.

Ben and his teams rewrote *the Vizient Clinical Enterprise Data Warehousing & Business Intelligence* products in addition to a *Surgical Cost per Case* solution.

Nate Rowland
VP of Technology

Nate is an expert in Big Data technology and mission critical platforms with more than 10 years of experience.

Nate was formerly a Principal Engineer at Research Now. Before that he developed platform technology for Bug Labs.

Katie Nunez
Director of Marketing

Katie was a founding member of the Zebra Technologies IoT platform team where she led Digital Marketing and UI/UX for Customer Facing Applications.

She led GTM strategy for the first-ever integrated narratives by Narrative Science and is co-Chair of Digital Strategy for the IoT Council by Illinois Technology Association.

Tricia Shevlin
VP of Sales

Tricia is a passionate change agent focused on building channel communities. She spent the past decade leading sales, channel development and marketing for Advantix.

She also supported the launch of the first-ever digital network at AT&T and Vice Chair on CompTIA's Smart Cities Advisory Council.

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If you answer one question today, what would it be?

Get in touch

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