

# GENTLE GUARDIAN



ellipsiz

Eldercare Overwatch Solutions





# About us

## 01 Ellipsiz DSS

Ellipsiz derived its name from the latin word 'ellipsis', a punctuation mark represented by three dots (...), which indicates that there is 'more to come'. It is a reflection of our focus on continuously bringing cutting edge technology and solutions to our customers in new markets across the healthcare, hospitality and food & beverage industries.

Ellipsiz Distribution & Services Solutions (DSS) has a comprehensive portfolio of solutions and services to cater to the needs of the hospitality and service ecosystem. Among our specialised distribution offerings are microbial solutions, intelligent access systems, automated disinfection and cleaning systems and more. We also provide highly tailored and packaged solutions to meet the demands of clients across the world.

## 02 Gentle Guardian

Ellipsiz DSS in partnership with OneBerry, Viatick, Trek2000 International, Pensees and Robosolutions, have collaborated to bring into the eldercare industry, a comprehensive overwatch system.

Gentle Guardian is focused on giving primary caregivers of elderly tools and services to monitor loved ones from anywhere without intruding on their privacy and providing peace of mind.

Our comprehensive Eldercare Overwatch Solutions are a tailored package of interconnecting systems leveraging on Artificial Intelligence, Wireless Connectivity and Data Analysis that can be applied in a home setting with individual families, or scaled up to larger eldercare facilities to reduce manpower needs.

## 03 Why work with us?

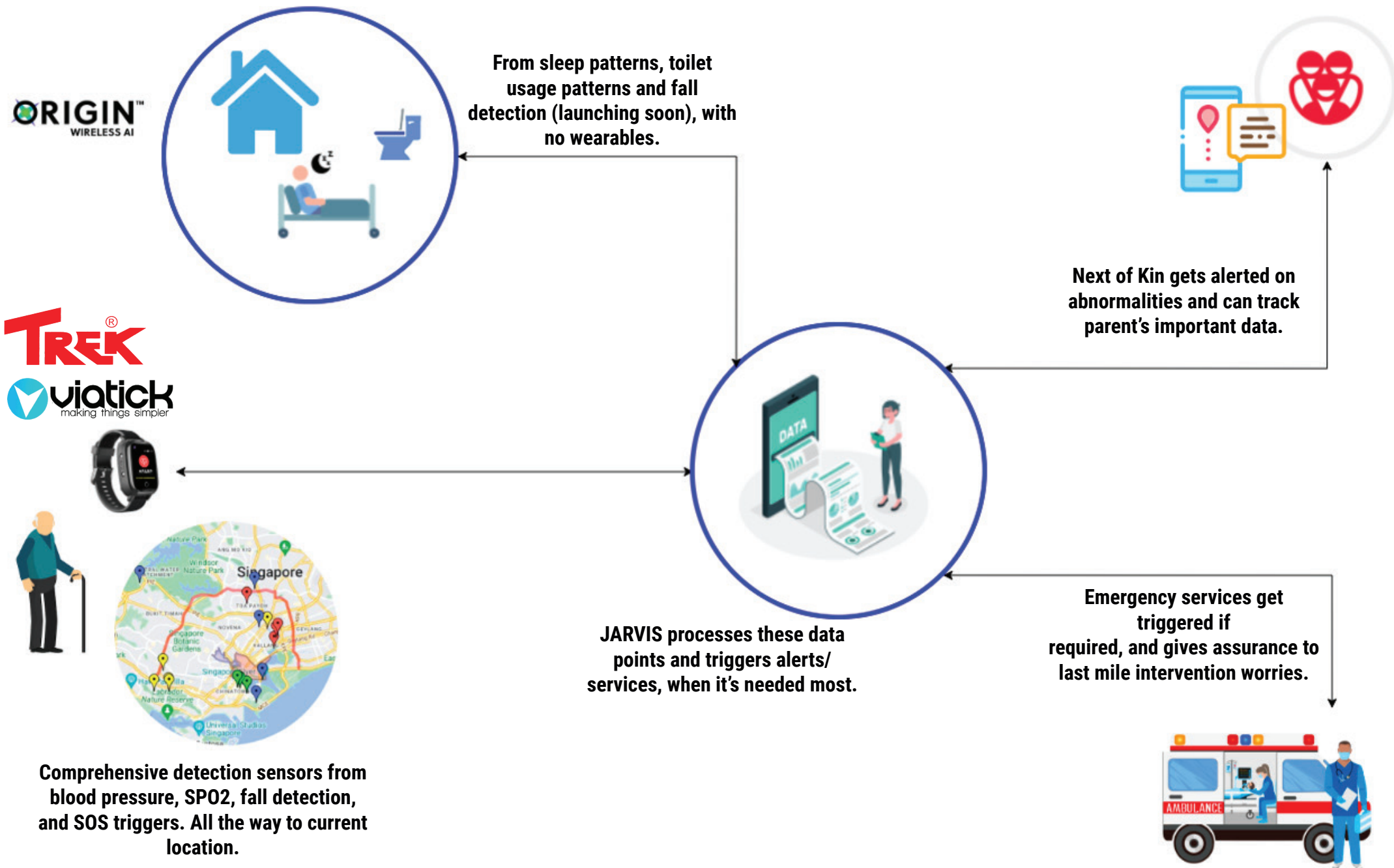
We at Ellipsiz DSS pride ourselves first and foremost as a premiere logistics company, linking manufacturers of innovative products to forward thinking businesses like you, in the most seamless manner possible.

When you work with us, you ensure that you get:

- Quality controlled products.
- Customized solutions based on requirements.
- A wide and consistent logistics and delivery capability.
- After sales service and support.

We believe these are the qualities that set us apart from the majority of companies we compete with, and we believe they are qualities your business want to have in a partner.





# JARVIS Engine

## 01 What is JARVIS

JARVIS is a singular platform of choice that provides overall assurance about the wellbeing of elderlies, and provide a peace of mind to caregivers and next of kin.

JARVIS provides active tracking of elderly patients within aged care centres, at home, and even outdoors.

It is a system that automates the activation of local emergency services if abnormalities are detected.

## 02 Indoor/Outdoor Stats

By using a WiFi mesh network at home or in a facility, JARVIS is able to process location and biometric information of elderly patients captured within the area. Through AI learning, JARVIS is able to provide overwatch for:

- Sleeping Patterns
- Toilet Usage
- Presence at home/facility
- Detection of Abnormalities
- Fall Detection

While outdoors, paired wearables collect various data like BPM, blood pressure, SP02, temperature and location to understand a patient's current vitals.

## 03 Pairing with EMS

JARVIS is able to use data collected from patient vitals in order to process the presence of a fall or abnormal conditions anywhere within a facility, home or outdoors.

With these data points, JARVIS is able to alert Next-of-Kin and/or caregivers to initiate contact with the patient to ascertain their wellbeing.

JARVIS is also able to remotely request the response from local emergency medical services (EMS) with the necessary data if required, giving assurance to last mile intervention worries.





# Components



## 01 Origin Wireless Mesh

The Gentle Guardian Overwatch system is able to provide wireless mesh installations at homes and facilities based on Origin WiFi mesh technology, provide non-line-of-sight (NLOS) sensing, so we have significantly fewer blind spots and cover more areas with less hardware.

This method doesn't require cameras, contact sensors, or other intrusive equipment, for privacy and security.

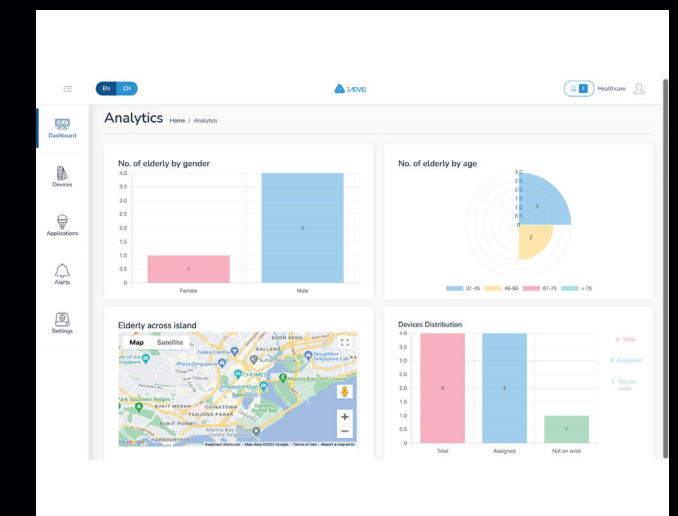


## 02 Wearables

With Gentle Guardian, we provide a full suite of wearables to enhance overwatch and vitals monitoring in outdoor spaces, as well provide additional info.

These include the:

- Vein Series Smartwatch
- Smart Socks
- Smart Sensor for diapers



## 03 Dashboard

A bird's eye overview from the comfort of your own PC, tablet or smartphone, caregivers are able to receive a quick and informative rundown of all elderly patients in need of monitoring.

Available on AppGallery, Google Play and Apple App Store.





# Facility Upgrades

## 01 Autonomous Service Robots

A premium designed, video-oriented, autonomous personal AI assistant robot. The temi can recognise and follow when requested, save preset locations, and navigate flawlessly around your care facility while connecting staff to colleagues, patients, family and various web services.

Monitor, lead and entertain multiple groups of independent and mobile patients around facilities from a single control center.

Deliver care packages, food, documents and other items using temi as a personal caddy around your facility.



## 02 Video Analytics

Video analytics transform regular IP cameras into intelligent systems. Traditionally, a surveillance system requires at least one member of staff to look at multiple TVs 24/7, which is very costly and inefficient.

By leveraging existing IP cameras in your surveillance infrastructure, PesEyes' video analytics changes the traditional surveillance method.

By automating the surveillance process with image processing and computer vision, PesEyes automatically and swiftly alerts end users of areas for attention as they arise.

PesEyes is able to be customized to suit various care facility criterias like Conflict Detection, Facial Recognition, or Unattended Object Detection.



# Facility Upgrades

## 03 Kitchen Waste Pipe Cleaners

Our MicroFIX line of customized kitchen waste pipe cleaning solutions are an eco friendly and less destructive means of clearing clogged sewage and kitchen waste pipes in your facility.

A proprietary blend of microbial and other biodegradable ingredients, MicroFIX works by populating pipes blocked with fat, oil and grease with beneficial bacteria that eat away at the blockages, staying in the pipes and multiplying in the process, becoming even more effective over time.

Our MicroFIX solutions are also provided with an automatic doser to ensure consistent and fuss free maintenance of your facility.



## 04 Non-Toxic Cleaners

We provide cleaning solutions made of natural ingredients and depend on enzymatic processes to break down dirt and oil.

Free of sulfates, chlorine, parabens and phosphates, they are biodegradable and safe for the environment and humans.

Our anti-bacterial cleaners can be used in a wide variety of applications including surface cleaning, laundry and they are even gentle on the skin as a handsoap.

Our cleaning agents do not produce fumes that irritate eyes or skin, perfect for the vulnerable residents in facilities.





# Empowering Independent Living through Technology





# Vein Smartwatch



## Features

- 4G LTE Connectivity
- SOS Button
- Heart Rate Monitoring
- Beacon Locating
- Step Counter
- Voice Prompts
- Fall Alarm
- Set up Geofences & Alerts
- 4 Locating Technologies (GPS, WiFi, Bluetooth and LBS)
- Reminder Alerts
- Waterproof IPX8
- Two-way Calling with built in microphone and speaker

This is a multi functional wearable meant to track the well being, location, and activity status of the wearer.

It provides a quick emergency response unit to wearers in duress, and also notifies next of kin readily of such emergencies.

## Specifications

- Dimension: 47.5mm\*16.9mm; Weight: 65g
- Screen: AMOLED
- Backup battery: Rechargeable, 3.7V, 580mAh
- Charging voltage: 5V DC
- Operating Temperature:
  - 20°C to +80°C for working
  - 30°C to +70°C for storage
- Battery life: Up to 48 hours under normal use

# Smart Sensors



## 01 Smart Socks

Specially catered to patients suffering dementia, our Patient Alert System allows caregivers to know when patients have fallen or left the area.

- Mobile App Control
- Easy Maintenance
- Ergonomic Design
- Power Saving
- Intelligent Sensors



## 03 Diaper Sensors

Be alerted when elderly patients require sanitary care without the need to constantly conduct physical checks.

Our Smart Sensors for diapers are:

- Hygienic
- Effective & Reliable
- Unobstructive Sensing
- Reusable
- Easy to use



# temi Personal Robot



## ROBOX™ Navigation System

- 2D Mapping
- 3D Localization
- Navigation
- User detection and tracking
- Obstacle avoidance
- Path planning

## Sensors

- 360 degrees LIDAR
- 2 depth cameras
- RGB camera
- IMU sensor
- 6 Time of Flight linear sensors

## Specifications

- Size (cm.): 100H x 35W x 45D
- Weight: 12 kg
- 13.3" Capacitive multi-touch display
- (1920X1080) IPS LCD 16M colors Touch Capacity
- Display Pixel density: 224 (ppi)
- 340 cd/m2 max brightness (typical)
- Fingerprint-resistant coating
- Autonomous face tracking screen tilt
- 4 Omni-directional digital mics
- 20W Audio
- 13MP High Resolution Camera
- Autonomous charging- 220V/110V
- Speed: up to 1 m/s
- Custom tires for optimal grip, stability and vibrations management

## Features

- Voice Interaction: temi hears, identifies, understands and responds to the user's voice
- Facial recognition supported
- Open to 3rd party apps and customization
- Full SDK Available for 3rd party app development and deployment
- Up to 8 Hours of operation per charge





# Micro+ Auto Doser



## Features

- For automatic dosage of MicroFIX Waste Pipe Cleaners.
- Two unit types, each specially designed for the needs of different facilities and scale.
- Consistent dosage while reducing labor costs and eliminating human error.

## Micro+ Specifications

- Peristaltic Pump - 220-240V, 50Hz AC current, delivering 10 litres per hour with 4.8mm tube.
- Control Box - Wall mounted, made of flame retardent polystyrene with a removable cover.
- Timer - Rechargeable back-up battery in case of power failure. Used to maintain the timme programme and ensure regular biomatic treatments.
- 6mm Nylon Tubing.
- Storage Drum - Available in 20 and 25 litres.
- Waste Fitting Kit.
- 30 dosing programs to suit different needs.

## Micro+ MAX

## Specifications

- Compact size.
- Auto Dosing - In multiples of 100g.
- Optimised stir.
- PLC Control with HMI.
- Level Sensor.
- User-friendly.
- Easy to Maintain.
- Provision for future add-ons - IOT for data collection, alerts, predictive analysis, and more.





**Ellipsiz DSS Pte Ltd**

54 Serangoon North Avenue 4,  
#05-02

Singapore 555854

Tel: (65) 6518 2200

Fax: (65) 6269 0838

Email: [info@ellipsiz.com](mailto:info@ellipsiz.com)

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