






# Building Customized IoT Products for Numerous Industries

Carving Thoughts into Solutions

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# Introduction



**Bluepixel Technologies** holds a forefront position in providing IoT Businesses solutions that meet the custom requirements of the cliental crowd. Our services are designed to help them grow faster and in a more efficient way.

Our primary focus is on developing Mobile & Web Applications for versatile technologies like IoT, Bluetooth Low Energy, Beacons, NFC / QR codes, Sensors & WIFI, RFID, and Wearables. Apart from building projects from scratch, we develop custom SDK modules for clients as per their requirements for their ongoing projects.

Not only on the Software side, but we also have good reach and experience in Hardware design and Firmware Development.

Till now in our career span, we have delivered promising solutions in different industries like Healthcare & Fitness, Construction & Home Automation, Automotive, Proximity marketing, Asset Tracking, IIoT – Centralized & Integrated system control, and many more.

Further, for future endeavors, we are doing research & development on Artificial Intelligence in the healthcare domain and Indoor navigation for live locations as the positioning has been already achieved by us.



**46100+**  
Man Hours



**17+**  
Countries Served



**200+**  
Satisfied Clients



**180+**  
IoT Projects

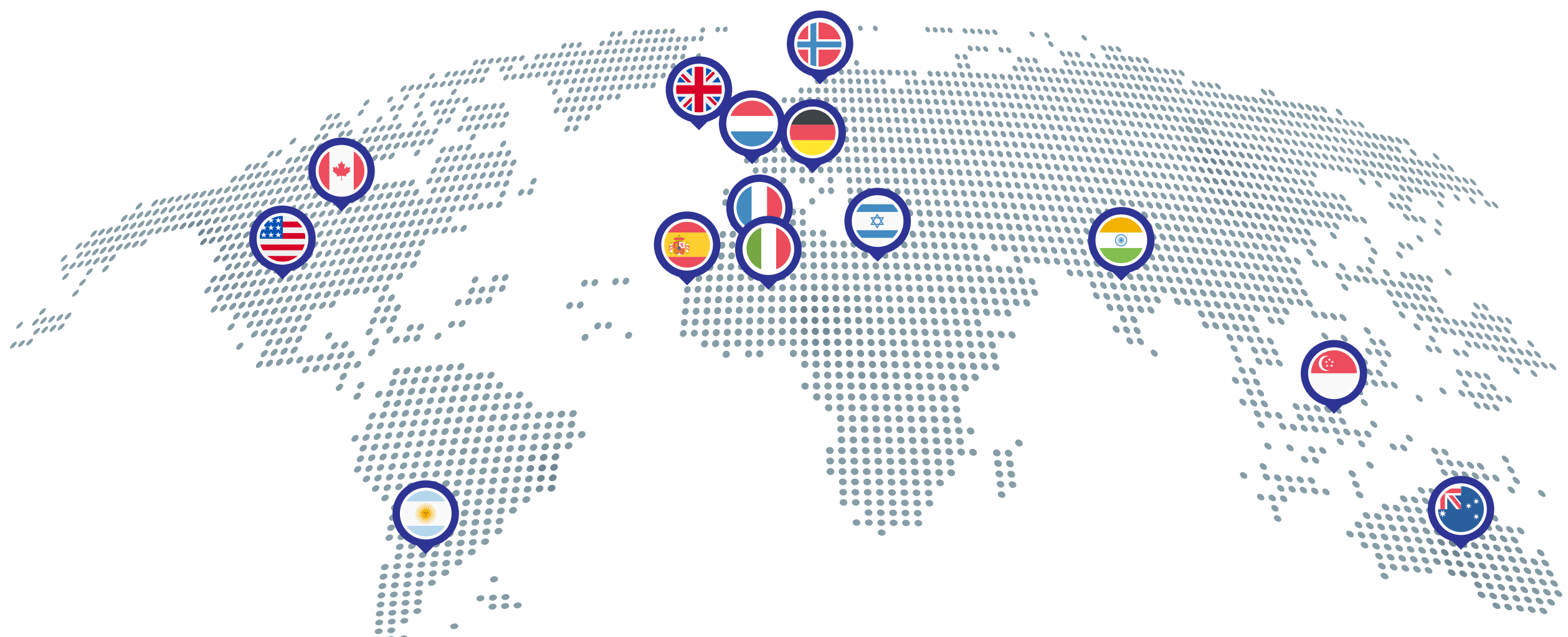
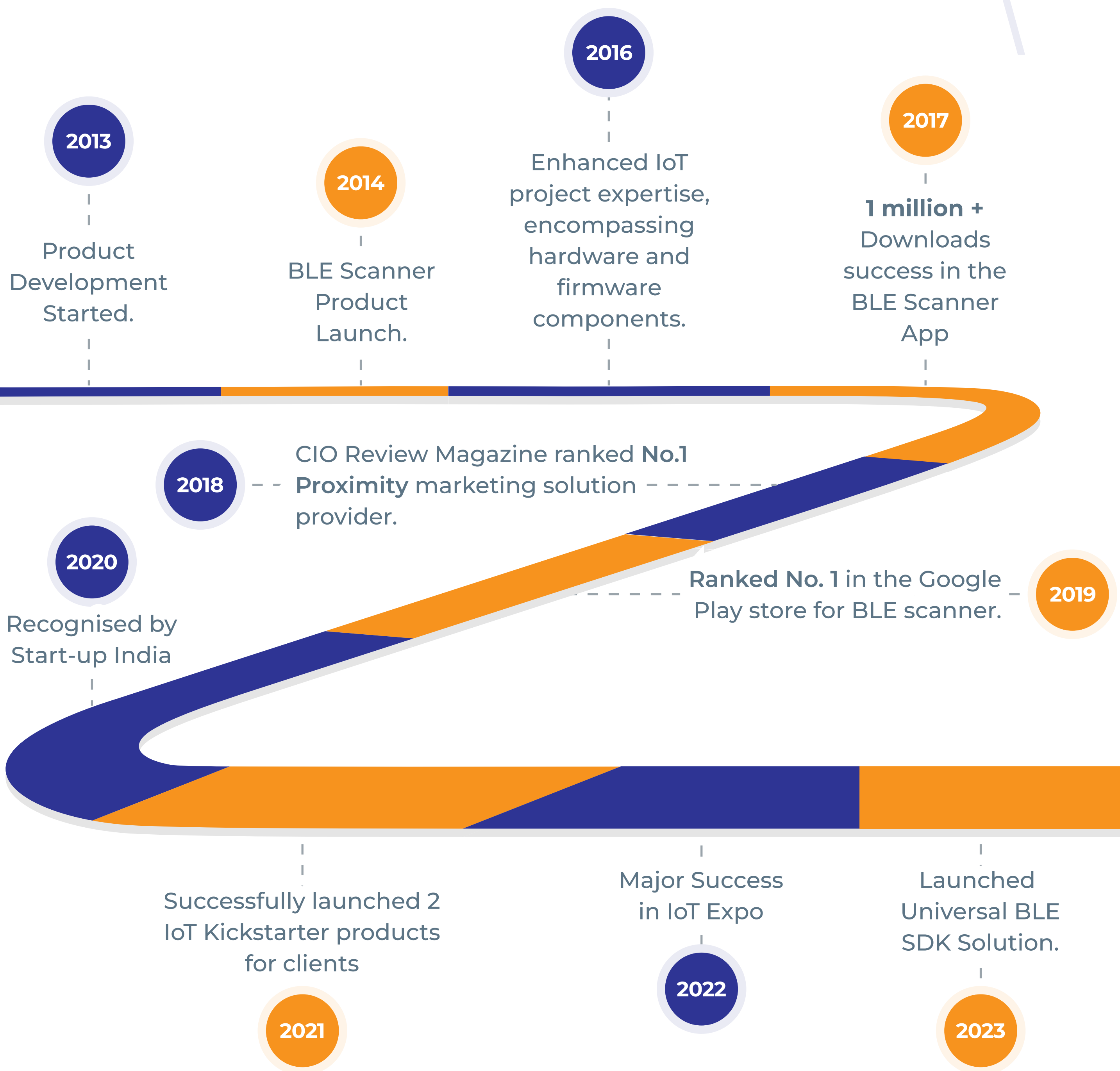


**20+**  
SDK Development



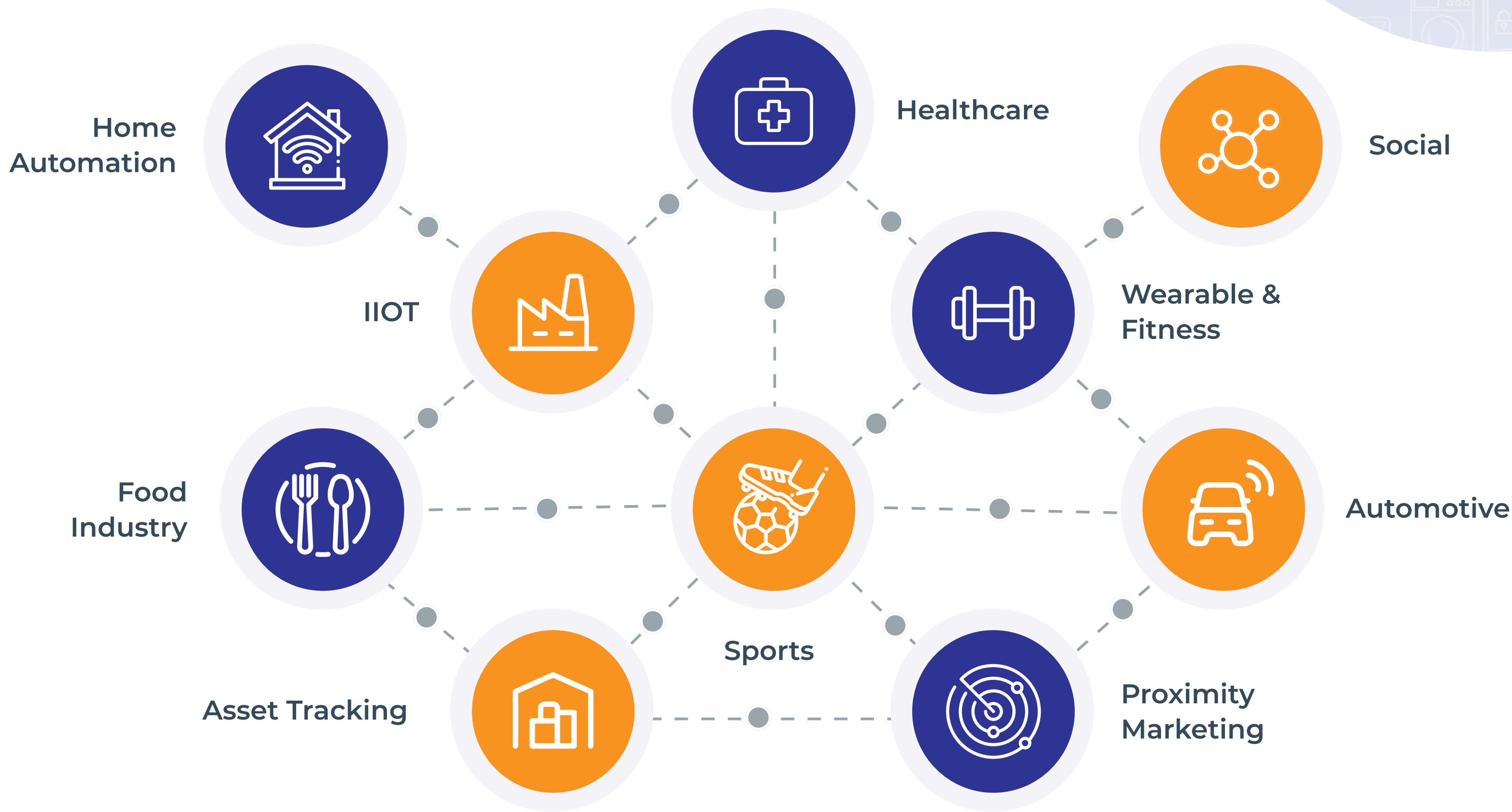


# Timeline of Achievements





# Industries we Serve



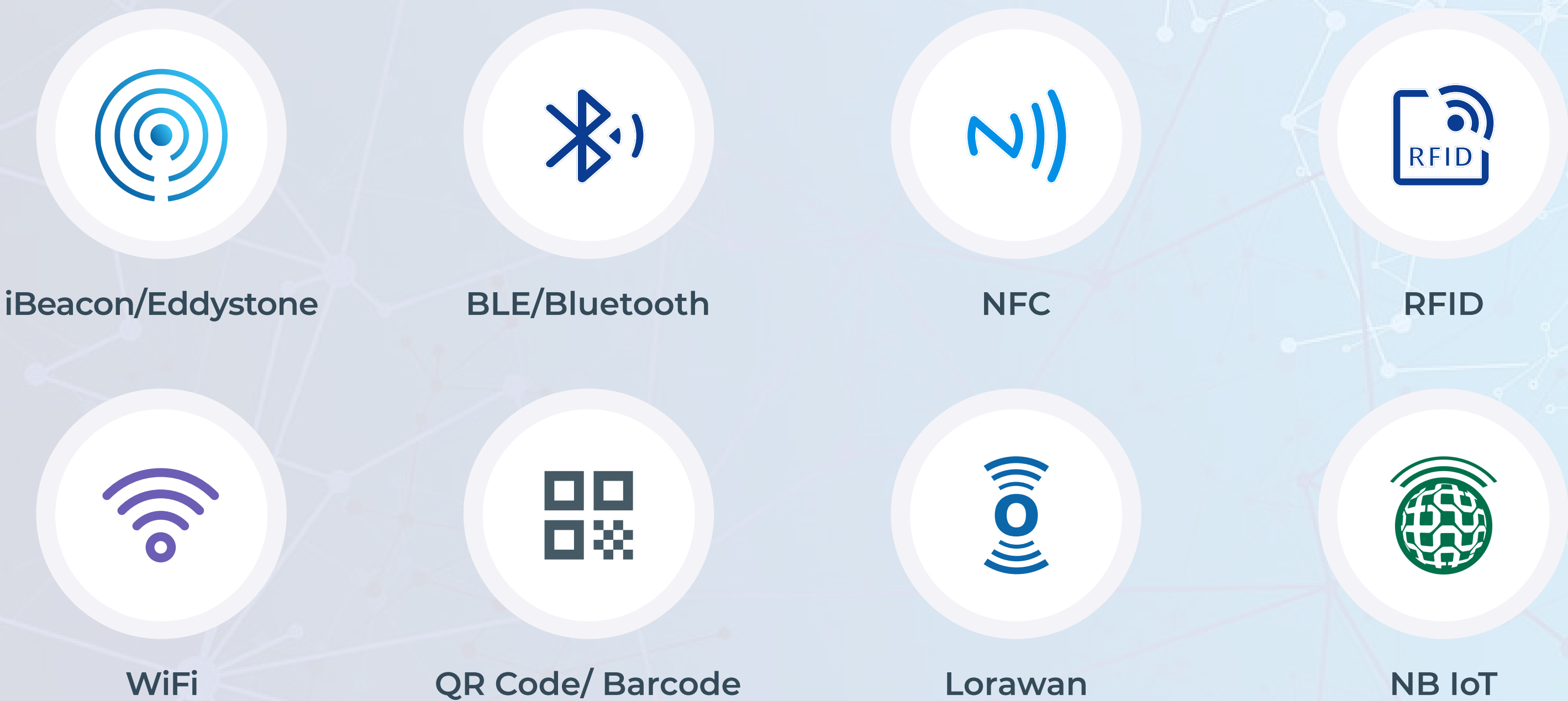
## Services





# Technologies on which we are Working

## Wireless Interfaces and Protocols



## Microcontroller and Microprocessors



## Mobile App Development





# Technologies on which we are Working

## Cloud Development



AWS



Microsoft Azure



Google Cloud Platform

## Backend Development



PHP



Python



NodeJS



Java

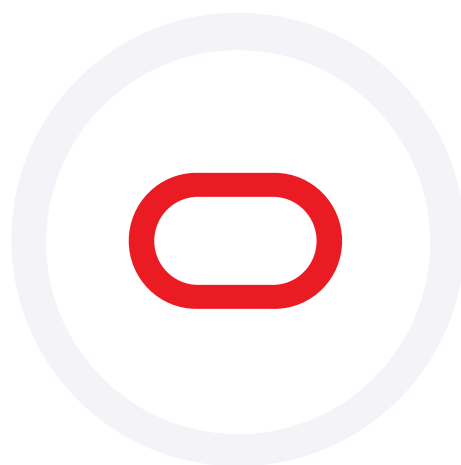
## Known Databases



My SQL



Firebase Store



Oracle



Mongo DB



Amazon Dynamo DB



PostgreSQL



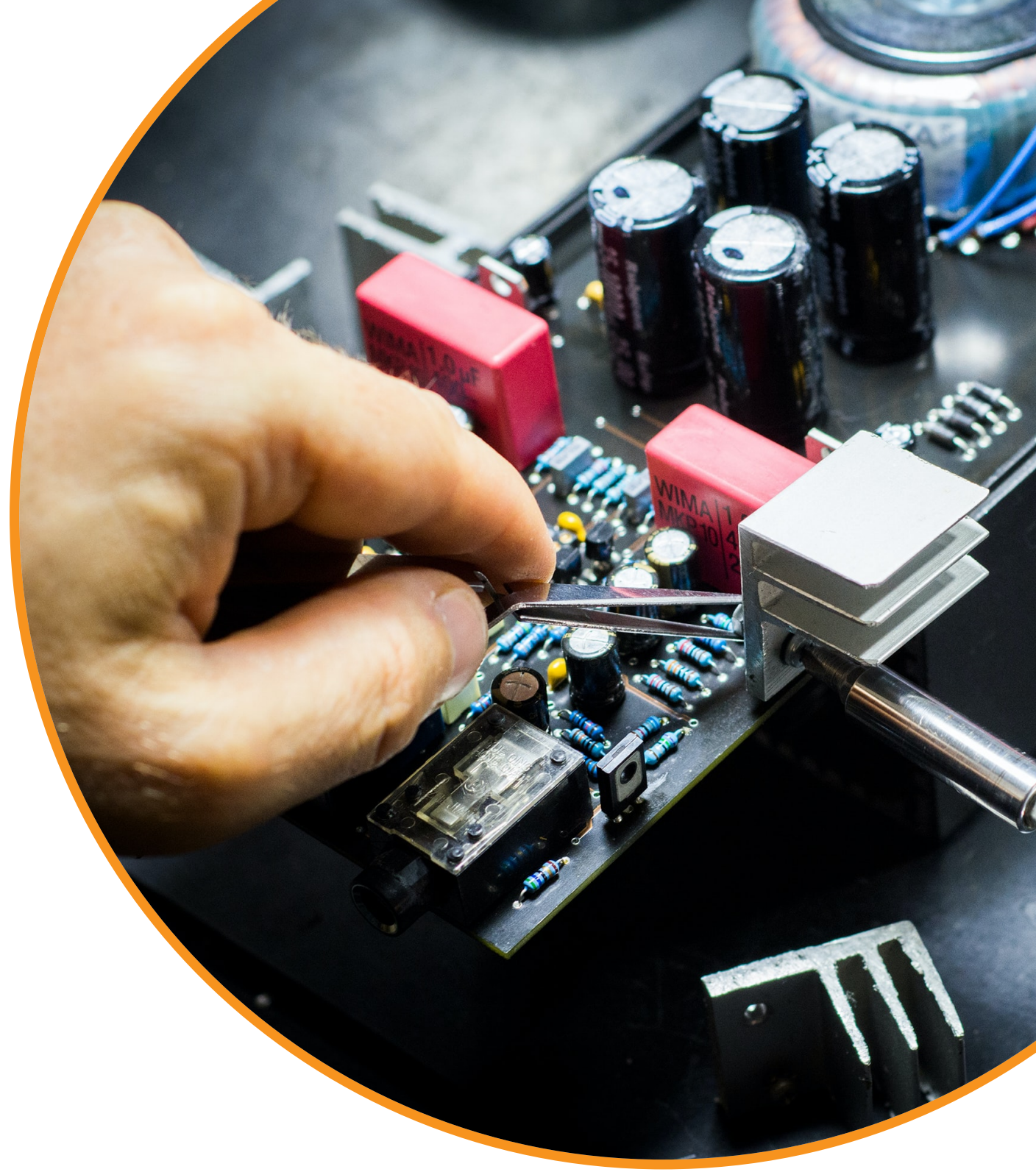
SQLite





# Hardware Designing

- Layout of complex printed circuit boards including Digital, Analog & Mixed Signal technology.
- Managing and Designing PCB designs range from 2-10 layers with flat & hierarchical schematics.
- Responsible for complete documentation package including BOM, layout, fabrication & assembly drawings.
- Work directly with PCB fabricators on technical questions and fabrication issues.



# Firmware Development

- Microcontrollers (8/16/32 bit)
- Wireless Connectivity Solutions ( BLE, BT5, Mesh, LoRA, IrDA, CIR, RF, Zigbee)
- Motion Processing (IMU Sensor Based) & Motion Algorithms.
- Motor Control (BLDC, PMSM, Stepper)
- Wired connectivity (RS485, Modbus, CAN)
- HMI Solution (TFT + Cap touch )
- Smart watch (having heart rate, ecg, GPS, motion sensor 9 axis, body moisture, body temperature)
- GSM-BLE hub for asset tracking.
- Ble based system to track a ball speed in sports application.
- Smart Lock.

- Walk aide: sending foot movement data of patient having foot drop problem to the PC for the analysis.
- Irda-ble bridge for data logging application compatible for Baxter sigma pump, merk auto injection pump, animas insulin pump etc.
- Asset management. (Milk carton management, local beacons tracking, employee attendance management).





# BLE Development

Exploring the Vast Landscape of Bluetooth Low Energy (BLE) Applications: From Smart Wearables and Healthcare Devices to Asset Tracking and Home Automation, the World of BLE Technology Offers a Diverse Range of Solutions for Seamless Connectivity and Data Exchange in the IoT Era.



## Mobile Development

Cultivating Innovation in Mobile App Development: Leveraging the Cutting-Edge Approaches for Android and iOS Platforms to Create High-Performance, User-Centric, and Feature-Rich Mobile Applications in Today's Rapidly Evolving Digital Landscape

Empowering Cross-Platform Excellence with Flutter: Harnessing the Latest Advancements in Mobile App Development to Craft Stunning, High-Performance Applications for Android and iOS Simultaneously, Redefining Efficiency and User Experience in the Mobile Arena

## Web Development

Discover limitless possibilities with our comprehensive web, backend, and cloud development services. We are your trusted partners in crafting innovative digital solutions. Our expert team leverages cutting-edge technologies to create seamless web applications, robust backend systems, and scalable cloud solutions that empower your business to thrive in the digital age. Whether you're looking to build a dynamic website, optimize your data infrastructure, or harness the power of cloud computing, we've got you covered.





# BLE Scanner

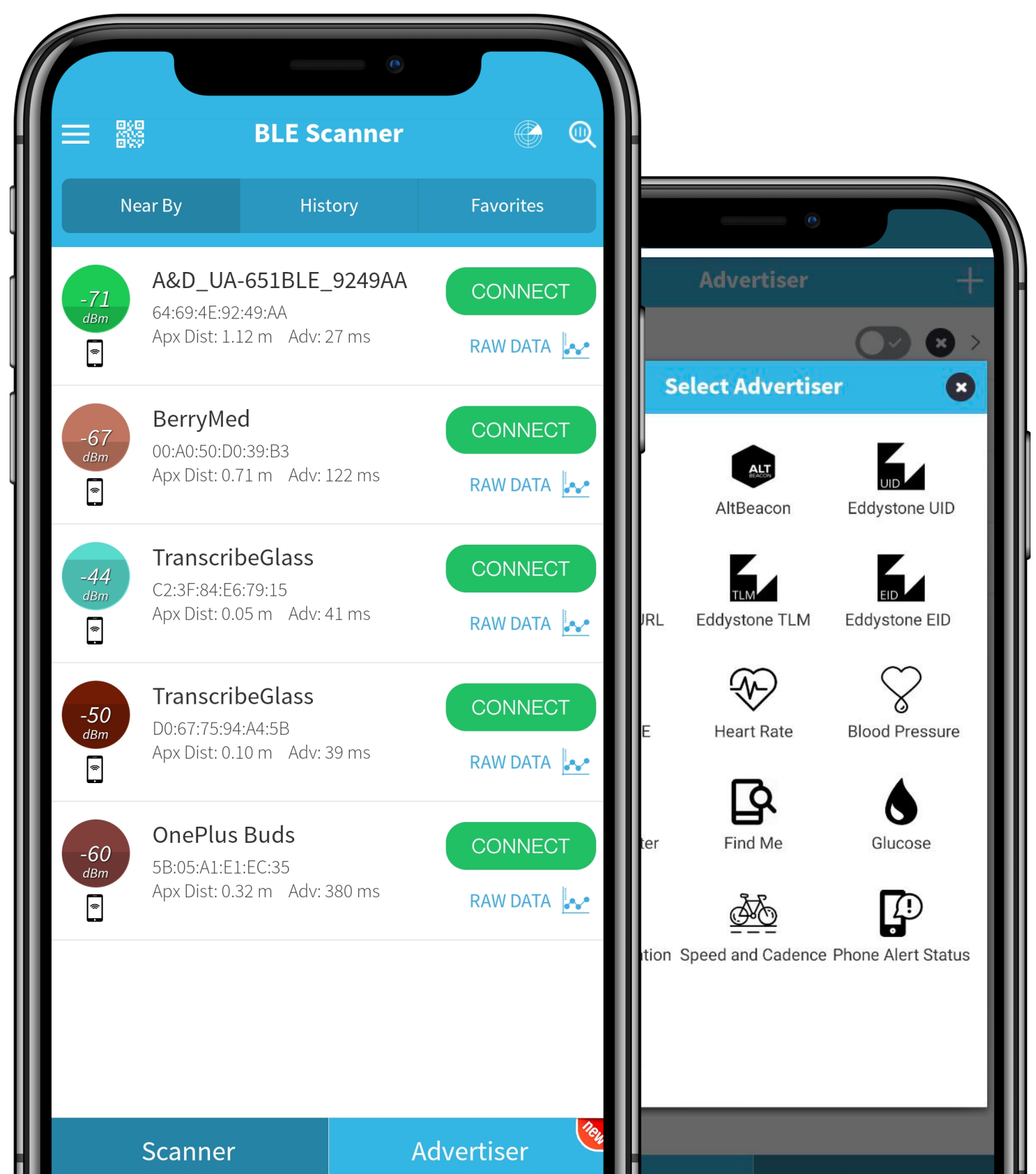
(Product)

BLE Scanner was developed with a vision to help the Bluetooth community and developers who want to build BLE products & applications. Not only developers but users can also use it to find their lost Fitness Trackers and other Bluetooth Smart Devices.

## Key Features

- Scan nearby Bluetooth smart devices like iBeacon, fitness trackers, Sensors, Health devices, and many more.
- Advertise your phone as a custom peripheral device and add custom services & characteristics.
- Advertise your phone as a Health device i.e. Heart rate, Glucose, Temperature, & Blood Pressure.
- Find your lost BLE device in proximity using Radar view & unique device colors.
- Filter devices by Name, Mac Address, RSSI, & Service UUID.
- Export History data in CSV format into sd card.
- Explore Services & Characteristics of connected devices and Perform Read, Write, Notify & Indicate.
- Copy raw data from your BLE devices.
- Show rssi on graph and export rssi value in CSV file.

1M+ Downloads  
for this app.



Play Store

[https://play.google.com/store/apps/details?id=com.macdom.ble.blescanner&hl=en\\_IN&gl=US](https://play.google.com/store/apps/details?id=com.macdom.ble.blescanner&hl=en_IN&gl=US)

App Store

<https://apps.apple.com/us/app/ble-scanner-4-0/id1221763603>



# HeartRate Monitor for Wear OS



(Android Wear, Product) 

It is necessary to measure heart rate for health and fitness concerns mainly for the heart patient and normal user after entering in their elderly age.

"WearHeartRate" is an application for a wearable that works on Wear OS 2.0.

Application is helpful for the users who frequently have to keep records of the range of their heart rate, as per the medical record generation purposes.

The main benefit is that it is a universal application to get connected with the Heart Rate monitor devices based on BLE.

Play Store

<https://play.google.com/store/apps/details?id=com.wearheartrate.main>





# Bluepixel Domains



## Healthcare



10  
Projects



15,800+  
Hours

- Diagnostics • Fitness • Elderly Care
- Mental Health • Infant Assistance System
- Pill Reminder • Hospital Asset Tracking
- Feminal Health Tracking

## Fitness & Wearable



5  
Projects



3,390+  
Hours

- Heartrate Monitoring • Sleep Tracking
- Mood Detection • Exercise Supervising
- Calories burnt & Steps detection



## Automotive



6  
Projects



2,210+  
Hours

- Air Monitoring • Battery Management
- 360 Degree Video Capturing
- Tire Pressure Monitoring
- EBike operations management





# Bluepixel Domains

## Home Automation



**3**  
Projects



**1610+**  
Hours

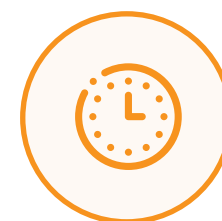
- Sound Recognition (Smart Sense)
- Smart Environment Monitoring
- Automating Home & Appliances.
- Elite Plug



## Sports



**1**  
Projects



**380+**  
Hours

- Chess Board of the Future.

## IIoT (Industrial Internet of Things)



**2**  
Projects



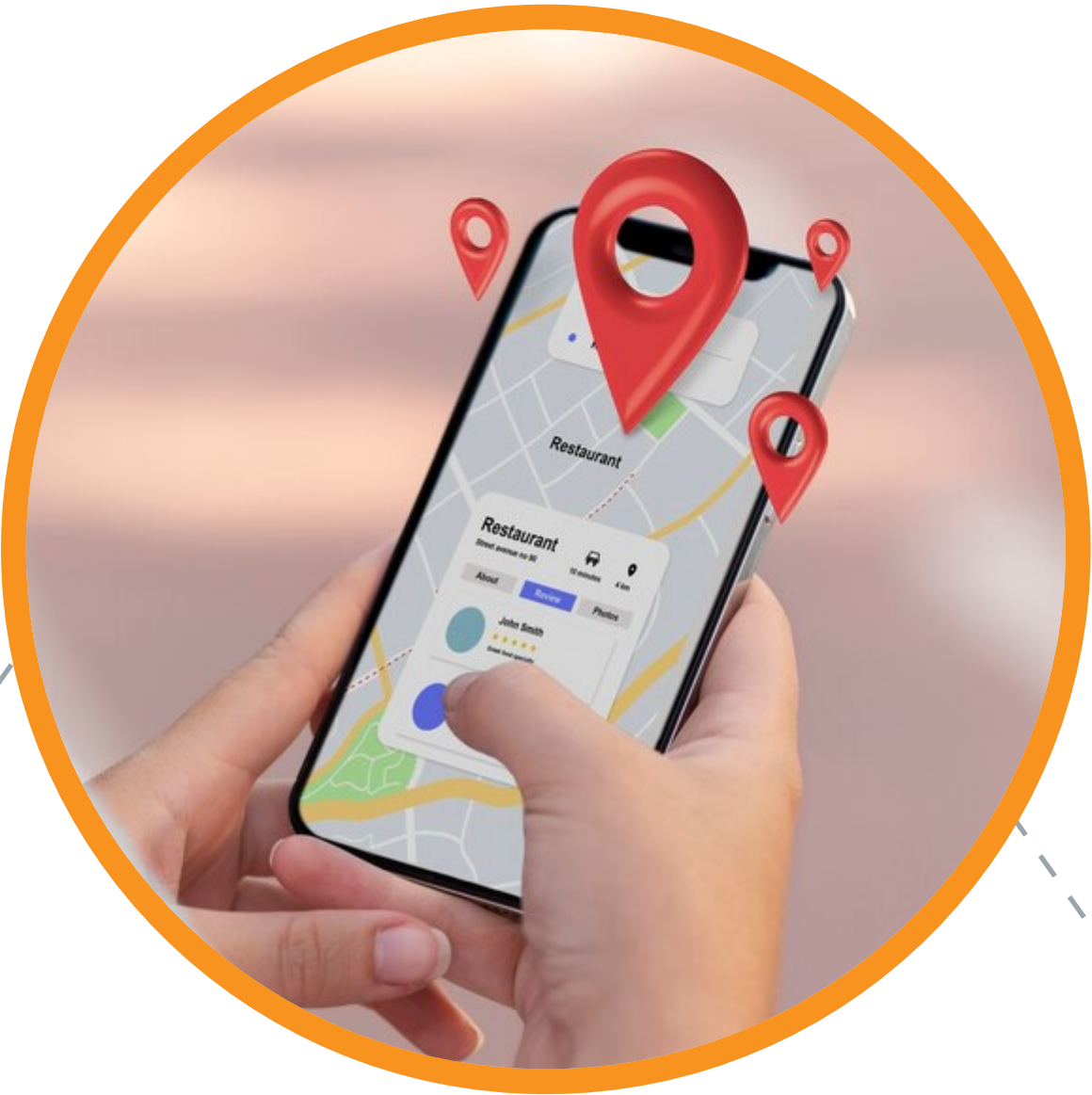
**950+**  
Hours

- Preventing Power Fluctuation  
(Elert safety measures)





# Bluepixel Domains



## Asset Tracking



5  
Projects



1,780+  
Hours

- Last Location Visibility
- Inventory Tracking
- Asset Management

## Social



3  
Projects



12940+  
Hours

- Smart NFC Business Card
- Loyalty Programs using NFC

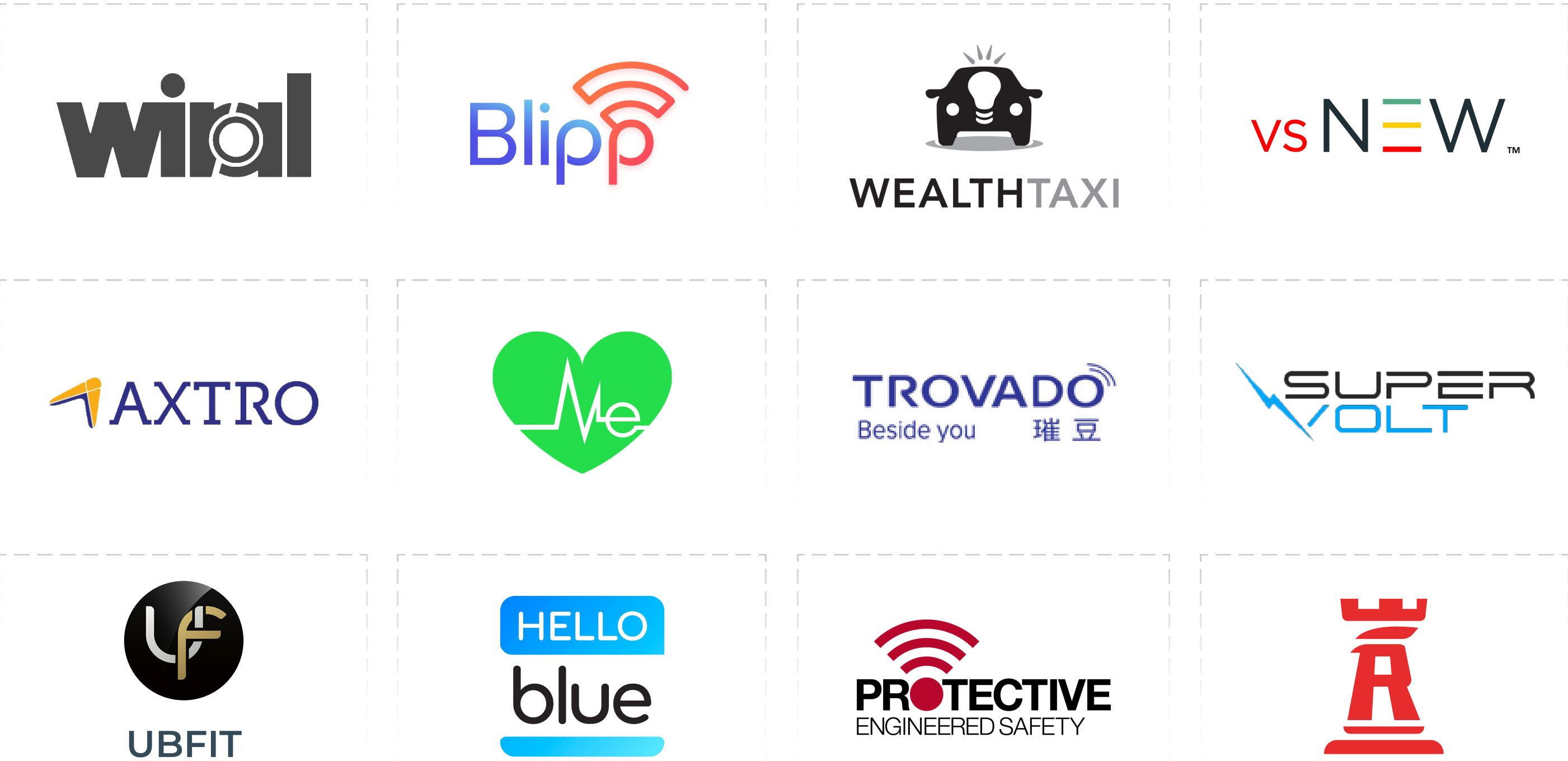


# Recognitions



# Valuable Clients

Clients associated with “Bluepixel Technologies”



Excellent work! Himen & Bluepixel worked with us on a very, very complex app, and did a great job from design to implementation. Their prices were more reasonable than competitors, and their work and support have been excellent. I highly recommend them.



Jenny Wilson  
USA





bluepixel  
technologies



## Scaling Growth of Industries by Connecting Dots with IoT



live:bluepixelservices



Bluepixel Technologies LLP



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