

OUR SOLUTION

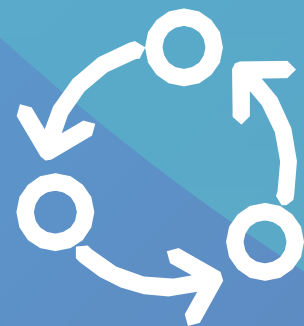
multi identification no image
mini Radar



CONTACT FREE



PRIVACY FREE



MULTI-FUNCTIONAL

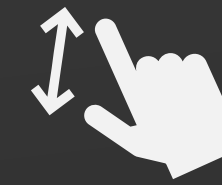


SMALL

KEY FEATURES



Presence Detection



Gesture Control



Fall Detection

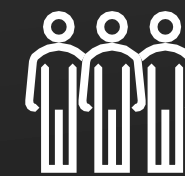


Facial Recognition

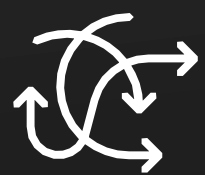


Vital Sign Detection

Heart Beats & Breathing



People Counting



Movement

Detection & Tracking



Imaging Radar

SMART HOME/BUILDING AUTOMATION

Home automation
Gesture control
Emergency rescue

**Precise object & people identification, gesture,
movement, vital sign recognition**

AUTOMATION

Reliable sensing of unexpressed intentions such as nap or sleep for efficient control of light or HVAC system

GESTURE CONTROL

Gesture based sensing for expressed intentions for safer and more efficient home automation

SAFETY & RESCUE

Identify and protect against abnormal activities, fall, fire, earthquake, break-in in any rooms including bathroom

DIGITAL HEALTHCARE

Remote medical diagnosis
Elderly monitor
baby monitor
Sleep quality monitor

**Precise & sophisticated algorithms for
breathing, heartbeat & movement**

TELEHEALTH

Remote detection of patient' vital signs & movements for remote diagnosis

ELDERLY MONITOR

Non-contact monitoring system for elderly without invading their privacy for better quality of life, better control of people in need such as dementia

BABY MONITOR

Safer and reliable child monitor for presence, movement, position and vital signs at home, hospital or inside a car

SLEEP MONITOR

Sleep stage classification and quality assessment

INSIDE CAR

Child protection system
Driver monitor system
Gesture based Infotainment

**Automotive quality high resolution radar for
driver and passenger safety & comfort**

APPLICATION

CHILD PROTECTION

Reliable presence detection system for effective rear occupant alert (ROA) for automakers to earn 5-star safety standard set by Euro NCAP from 2022.

DRIVER MONITOR

Position, vital sign information for effective driver monitoring system (DMS) for safer driving

GESTURE BASED INFOTAINMENT

Safer and more convenient driving experience whilst keeping the driver's eyes on the road

VISION

Business model

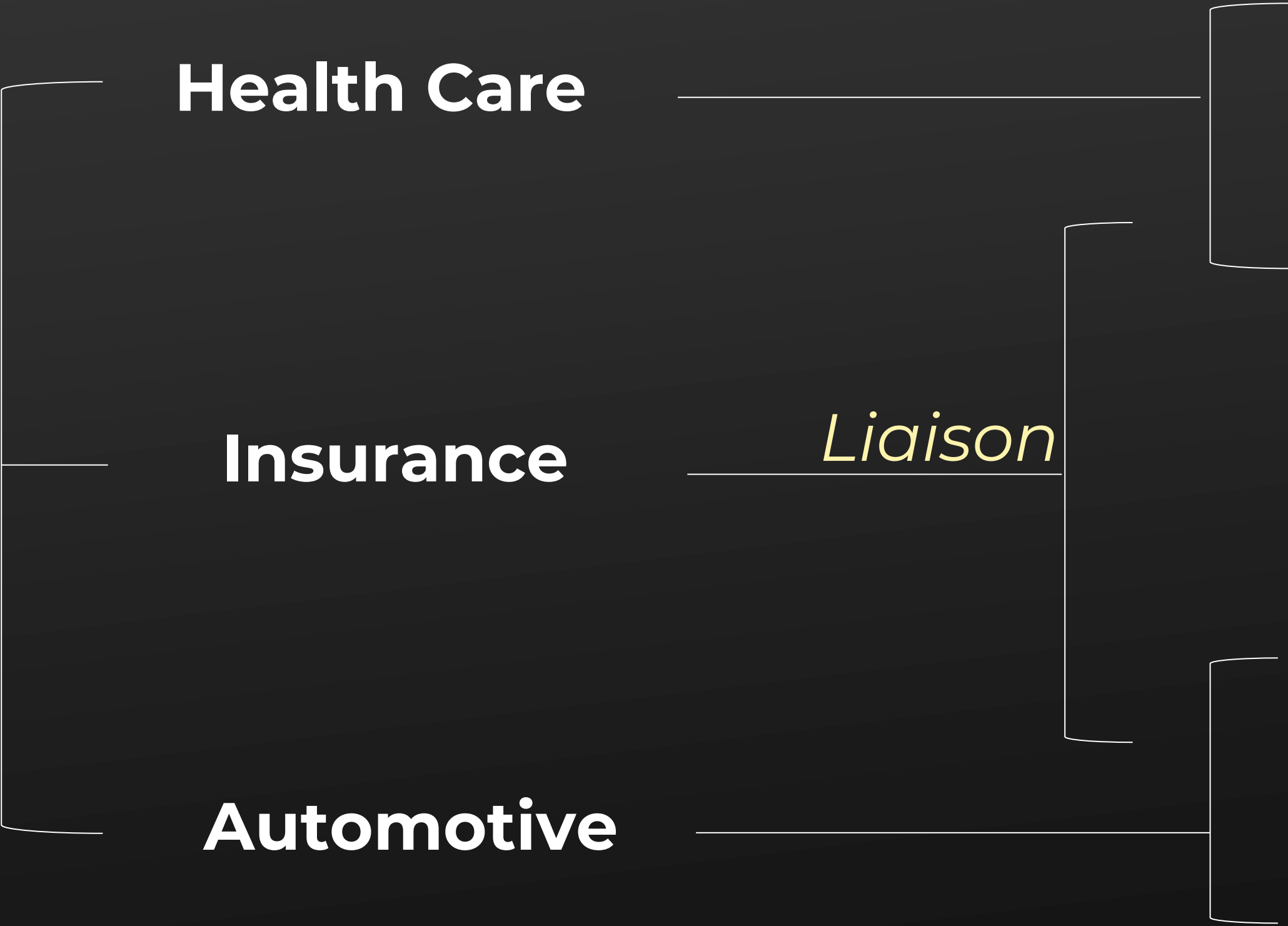
B2C



Homes

(Smart home & digital healthcare)

B2B



Health Care

Insurance

Automotive

Liaison

Hospital & Care home
New-born Baby Care Center

Car Manufacturers
Tier 1, 2

Reliable in-Cabin sensing

Specification

Hardware	Size	60 x 60 x 20mm (inc. housing)
	Weight	Below 100g
Sensor	Center Frequency	60GHz
	Bandwidth	5GHz
	Range	0.1~5m (Industry), 0.1~2.5m (Automotive)
	Field of View	Azimuth: 120deg / Elevation: 120deg
	Range resolution	0.03m
	Range accuracy	±0.03m
	Angle accuracy	±1deg@0deg, ±5deg@±60deg
Communication	External interface	Wifi
Power	DC	5~12V

Future for radar



Imaging radar



Vital sign



Gesture



Face recognition

Team



POSTECH

Morgan Stanley





Kenning

Design Future Safety