

**Report length: 178 pages**

## **Table of Contents**

Forward

Goode Intelligence

Author

Report Scope

Goode Intelligence Methodology

Regional Definitions

Executive Summary

Market Analysis

Automotive Biometric Supply Chain / Ecosystem

Automotive OEMs

Byton

Mercedes-Benz

Lynk

Subaru

Nissan

Semiconductor Manufacturers

Biometric Vendor

ECG

EEG

Face

Fingerprint

Gait

Iris

Voice

Authentication Vendor / Service Provider

Automotive Component Suppliers

Continental

Magna

Bosch

Gentex

Samsung

Payment Service Provider

Taxis/ Ride-Sharing / Rental Car Provider

Ride-Share

Rental Car Provider – Car Sharing

Automotive Insurance Provider

Smart Mobile Device (SMD) OEM

Smart Wearable Device OEM

Regulation, Industry Bodies and Technology Standards

Regulation

EU GDPR

UK Government Security Guidelines for Connected Cars

USA National Highway Traffic Safety Administration (NHTSA)  
“Cybersecurity Best Practices for Modern Vehicles”

Industry Bodies

National Automobiles Dealers Association – Personal Data in your Car

Future of Automotive Security Technology Research (FASTR)

Technology Standards

The FIDO Alliance

Global Platform

Car Connectivity Consortium (CCC)

CCC Digital Key

Applications and Market Adoption

Personalisation

Smart Mobile and Wearable Devices

In-Vehicle Biometric Integration

Vehicle entry – Access Control

Smartphone

Smart Wearable Device

Key Fob

Car Integration

External camera – Face & Gait

External Fingerprint Sensor

Vehicle-start

In-car payments

Insurance

Health, Wellness and well-being – HWW

Vehicle to Home Automation

Hardware Biometric Sensor Technology

Summary

Fingerprint Sensor

Trends for Fingerprint Sensors

Advantages and Disadvantages of Fingerprint Biometrics

Iris

Advantages and Disadvantages of Iris Biometrics

## Heart Biometrics - ECG

Advantages and Disadvantages of Heart Biometrics

## Face

Advantages and Disadvantages of Face Biometrics

## Voice

Advantages and Disadvantages of Voice Recognition

## Brain (EEG)

Advantages and Disadvantages of Brain (EEG) Biometrics

## Vendor Profiles

### Biometrics Vendors and Service Providers

#### Iris

Eyelock

Fingerprint Cards - ActiveIris

Princeton Identity

#### Face

FaceTec

IDEMIA

iProov

Thales Gemalto

#### Fingerprint

Fingerprint Cards

Goodix

IDEX

Precise Biometrics

Qualcomm

Silead

Sonavation

Synaptics

Heart (ECG)

Nymi

B-Secur

Voice

Nuance Communications

Sensory Inc.

## Forecasts

Methodology and Assumptions

Addressable Market Forecasts

Connected Car Forecasts

Connected Car Biometric Forecasts

Introduction

In-Car Biometric Forecasts

Introduction

Fingerprint Biometrics Integrated into a Connected Car

By Unit (System)

Revenue Forecasts – Fingerprint for Connected Cars

Iris Biometrics Integrated into a Connected Car

By Unit (System)

Revenue Forecasts – Iris for Connected Cars

Face Biometrics Integrated into a Connected Car

By Unit (System)

Revenue Forecasts – Face for Connected Cars

Voice Biometrics Integrated into a Connected Car

By Unit (System)

Revenue Forecasts – Voice for Connected Cars

Heart (ECG) Biometrics Integrated into a Connected Car

By Unit (System)

Revenue Forecasts – Heart (ECG) Biometrics for  
Connected Cars

Total (combined) Biometrics Integrated into a Connected Car

By Unit (System)

Revenue Forecasts – Total Biometric Systems  
(Combined) for Connected Cars

Smart Mobile Device Biometrics for the Connected Car Forecasts

Introduction

Smart Mobile Device Biometrics for the Connected Car  
Forecasts

Revenue Forecasts – Total Smart Mobile Device Biometric Apps  
Used for Automobiles

Smart Wearable Device Biometrics for the Connected Car Forecasts

Introduction

Smart Wearable Device Biometrics for the Connected Car  
Forecasts

Revenue Forecasts – Total Smart Wearable Device Biometric  
Apps Used for Automobiles

Appendices

Appendix A – Organisations Referenced In Report