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The Global Market for Wearable Technology

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Abstracts

In-depth market review including Smartwatches, sports and fitness trackers, sleep trackers and wearable monitors, Smart glasses and head-mounted displays (VR, AR, MR, vision loss and eye trackers), military, Industrial and workplace monitoring, flexible and stretchable electronics, e-textiles and smart clothing, artificial skin, skin patches, wearable health alert and monitoring devices, Continuous glucose monitoring (CGM), hydration and sweat sensors, wearable drug delivery, cosmetics patches, smart footwear, smart contact lenses, smart wound care, exoskeletons and hearables.

Wearables are body-borne computational and sensory devices which can sense the person who wears them and/or their environment. Wearables can communicate either directly through embedded wireless connectivity or through another device (e.g. a smartphone). The data collected by the wearable device about the user or its environment is processed in a processing unit located locally or in an external server, and the results are ultimately provided to the wearer. Smart wearables may have control, communication, storage and actuation capabilities. The number and variety of wearable electronic devices has increased significantly in the past few years, as they offer significant enhancements to human comfort, health and well-being.

There is increasing demand for wearable electronics from industries such as:

Medical and healthcare monitoring and diagnostics.

Sportswear and fitness monitoring (bands).

Consumer electronics such as smart watches, smart glasses and headsets.

Military GPS trackers, equipment (helmets) and wearable robots.

Smart apparel and footwear in fashion and sport.

Workplace safety and manufacturing.

Wearable and mobile health monitoring technologies are important due to the rapidly aging global populations and the drastically increasing demand for in-home healthcare. Commercially available and near commercial wearable devices facilitate the transmission of biomedical informatics and personal health recording. Body worn sensors, which can provide real-time continuous measurement of pertinent physiological parameters noninvasively and comfortably for extended periods of time, are of crucial importance for emerging applications of mobile medicine.

Advancements over the last few years in electronics have also led to the development of electronic (E-textiles) or smart textiles. Smart textiles and garments can sense environmental stimuli and react or adapt in a predetermined way. This involves either embedding or integrating sensors/actuators ad electronic components into textiles for use in applications such as medical diagnostics and health monitoring, consumer electronics, safety instruments and automotive textiles.

Report contents include:

In-depth market review of current products and technology development in Smartwatches, sports and fitness trackers, sleep trackers and wearable monitors, Smart glasses and head-mounted displays (VR, AR, MR, vision loss and eye trackers), military, Industrial and workplace monitoring, flexible and stretchable electronics, e-textiles and smart clothing, artificial skin, skin patches, wearable health alert and monitoring devices, Continuous glucose monitoring (CGM), hydration and sweat sensors, wearable drug delivery, cosmetics patches, smart footwear, smart contact lenses, smart wound care, exoskeletons and hearables.

In depth product assessment including products, producers, functionalities and prices.

Global market revenues, historical and forecast to 2031 for wearable electronics, medical wearables, electronic textiles and smart clothing.

Over 250 company profiles. Companies profiled include BeBop Sensors,

dorsaVi Ltd, Enhanlabo Co., Ltd., Equivital Inc., FeelIT, HP1 Technologies Ltd., miomove s.r.o, Neosensory, Abbott Laboratories, Add Care Ltd., AerBetic, Inc., Avanix srl, Biobeat Technologies Ltd., biolinq Inc, CareWear, Cosinuss GmbH, Seventh Sense Biosystems, Sorrel Medical, Spirit of Wonder Co., Ltd., Far Eastern New Century and many more.

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Contents

1 EXECUTIVE SUMMARY

1.1 The evolution of electronics
  1.1.1 The wearables revolution
  1.1.2 Wearable market leaders
  1.1.3 Flexible, stretchable, thin, and large-area form factors
1.2 What are flexible and stretchable electronics?
  1.2.1 From rigid to flexible and stretchable
  1.2.2 Flexible and stretchable electronics in wearables
  1.2.3 Stretchable artificial skin
  1.2.4 Organic and printed electronics
  1.2.5 New conductive materials
  1.2.6 Foldable smartphones and tablets
1.3 Growth in flexible and stretchable electronics market
  1.3.1 Recent growth in Printed, flexible and stretchable products
  1.3.2 Future growth
  1.3.3 Nanotechnology as a market driver
  1.3.4 Growth in remote health monitoring and diagnostics
1.4 Innovations at CES 2021
1.5 Revenues and revenue forecasts, by wearable market to 2031
1.6 Investment funding 2020-2021

2 RESEARCH METHODOLOGY

3 THE WEARABLE CONSUMER ELECTRONICS MARKET

3.1 Market drivers and trends
3.2 Recent developments
3.3 Key players
3.4 SMARTWATCHES
  3.4.1 Recent innovations
  3.4.2 Health monitoring
  3.4.3 Main smart watch producers and products
3.5 SPORTS AND FITNESS TRACKERS
  3.5.1 Wearable devices
  3.5.2 Skin patches
  3.5.3 Wearable sensors

3.5.4 Products
3.6 SLEEP TRACKERS AND WEARABLE MONITORS
3.6.1 Built in function in smart watches and fitness trackers
3.6.2 Rings
3.6.3 Headbands
3.6.4 Patches
3.6.5 Masks
3.6.6 Products
3.7 SMART GLASSES AND HEAD-MOUNTED DISPLAYS (VR, AR, MR, vision loss and eye trackers)
3.7.1 Virtual Reality (VR) devices
3.7.2 AR headset and glasses
3.7.3 Mixed Reality (MR) smart glasses
3.7.4 Products
3.8 MILITARY WEARABLE ELECTRONICS
3.9 INDUSTRIAL AND WORKPLACE MONITORING
3.10 GLOBAL MARKET SIZE
3.10.1 By product type, 2015-2031, billions USD
3.10.2 Global market for hearables, by product type, billions USD
3.10.3 Market share by product type
3.11 MARKET CHALLENGES
3.12 COMPANY PROFILES 86 (60 company profiles)

4 MEDICAL AND HEALTHCARE WEARABLES

4.1 MARKET DRIVERS
4.2 CURRENT STATE OF THE ART
4.2.1 Wearable medical device products
4.2.2 Temperature and respiratory rate monitoring
4.3 WEARABLE HEALTH MONITORING AND REHABILITATION
4.3.1 Companies and products
4.4 ELECTRONIC SKIN PATCHES
4.4.1 Applications
4.4.2 Nanomaterials-based devices
4.4.3 Materials
4.5 WEARABLE HEALTH ALERT AND MONITORING DEVICES
4.5.1 Continuous glucose monitoring (CGM)
4.5.1.1 Minimally-invasive CGM sensors
4.5.1.2 Non-invasive CGM sensors

4.5.1.3 Minimally-invasive and non-invasive glucose monitoring companies and products
4.5.2 Cardiovascular
4.5.2.1 ECG sensors
4.5.2.1.1 Companies and products
4.5.2.2 PPG sensors
4.5.2.2.1 Companies and products
4.5.3 Pregnancy and newborn monitoring
4.5.3.1 Companies and products
4.5.4 Wearable temperature monitoring
4.5.4.1 Companies and products
4.5.5 Hydration sensors
4.5.5.1 Companies and products
4.5.6 Wearable sweat sensors (medical and sports)
4.5.6.1 Companies and products
4.6 WEARABLE DRUG DELIVERY
4.6.1 Companies and products
4.7 COSMETICS PATCHES
4.7.1 Companies and products
4.8 SMART FOOTWEAR
4.8.1 Companies and products
4.9 SMART CONTACT LENSES
4.9.1 Companies and products
4.10 SMART WOUNDCARE
4.10.1 Companies and products
4.11 WEARABLE EXOSKELETONS
4.11.1 Companies and products
4.12 MEDICAL HEARABLES
4.12.1 Companies and products
4.13 GLOBAL MARKET SIZE
4.13.1 By product type, 2015-2031, billions USD
4.13.2 Market share, by product type
4.14 MARKET CHALLENGES
4.15 COMPANY PROFILES 188 (136 company profiles)

5 ELECTRONIC TEXTILES (E-TEXTILES) AND SMART TEXTILES

5.1 MARKET DRIVERS
5.2 MATERIALS AND COMPONENTS

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5.2.1 Conductive and stretchable yarns
5.2.2 Conductive polymers
5.2.2.1 PDMS
5.2.2.2 PEDOT: PSS
5.2.3 Conductive coatings
5.2.4 Conductive inks
5.2.5 Nanomaterials
5.2.5.1 Nanocoatings in smart textiles
5.2.5.2 Graphene
5.2.5.3 Nanofibers
5.2.5.4 Carbon nanotubes
5.2.6 Phase change materials
5.2.6.1 Temperature controlled fabrics
5.3 SMART CLOTHING PRODUCTS
5.4 ELECTRONIC TEXTILE PRODUCTS
5.5 TEMPERATURE MONITORING AND REGULATION
5.5.1 Heated clothing
5.5.2 Heated gloves
5.5.3 Heated insoles
5.5.4 Heated jacket and clothing products
5.5.5 Materials used in flexible heaters and applications
5.5.6 Stretchable E-fabrics
5.6 WEARABLE THERAPEUTIC PRODUCTS
5.6.1 Companies and products
5.7 SPORTS AND FITNESS
5.7.1 Companies and products
5.8 FOOTWEAR
5.8.1 Companies and products
5.9 MILITARY AND DEFENCE ELECTRONIC AND SMART TEXTILES
5.10 FLEXIBLE AND WEARALE DISPLAY ADVERTISING
5.11 TEXTILE-BASED LIGHTING
5.11.1 OLEDs
5.12 SMART DIAPERS
5.12.1 Companies and products
5.13 AUTOMOTIVE
5.14 POWERING E-TEXTILES
5.14.1 Batteries
5.14.2 Supercapacitors
5.14.3 Energy harvesting

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5.14.3.1 Photovoltaic solar textiles
5.14.3.2 Energy harvesting nanogenerators
5.14.3.3 TENGs
5.14.3.4 PENGs
5.14.3.5 Radio frequency (RF) energy harvesting
5.15 GLOBAL MARKET SIZE
5.15.1 By product type, 2015-2031, billions USD
5.15.2 Market share, by product type
5.16 MARKET CHALLENGES
5.17 COMPANY PROFILES 332 (101 company profiles)

6 REFERENCES

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Tables

TABLES

Table 1. Types of wearable devices and applications.
Table 2. Wearable market leaders by market segment.
Table 3. Applications in printed, flexible and stretchable electronics, by advanced materials type and benefits thereof.
Table 4. Advanced materials for Printed, flexible and stretchable sensors and Electronics-Advantages and disadvantages.
Table 5. Sheet resistance (RS) and transparency (T) values for transparent conductive oxides and alternative materials for transparent conductive electrodes (TCE).
Table 6. Foldable smartphones and tablets, on or near market.
Table 7. Wearable electronics at CES 2021.
Table 8. Wearables Investment funding 2020-2021
Table 9. Market drivers and trends in wearable electronics.
Table 10. Main smart watch producers and products.
Table 11. Wearable sensors for sports performance.
Table 12. Wearable sensor products for monitoring sport performance.
Table 13. Wearable sleep tracker products.
Table 14. Smart glasses companies and products.
Table 15.Wearable electronics applications in the military.
Table 16. Global market for wearable electronics, 2015-2031, by product type, billions $.
Table 17.Market challenges in wearable electronics.
Table 18. Market drivers for printed, flexible and stretchable medical and healthcare sensors and wearables.
Table 19. Examples of wearable medical device products.
Table 20. Medical wearable companies applying products to COVID-19 monitoring and analysis.
Table 21. Applications in flexible and stretchable health monitors, by advanced materials type and benefits thereof.
Table 22. Wearable bio-signal monitoring devices.
Table 23. Technologies for minimally-invasive and non-invasive glucose detection-advantages and disadvantages.
Table 24. Commercial devices for non-invasive glucose monitoring not released or withdrawn from market.
Table 25. Minimally-invasive and non-invasive glucose monitoring products.
Table 26. Companies developing wearable swear sensors.
Table 27. Wearable drug delivery companies and products.

Table 28. Companies and products, cosmetics and drug delivery patches.
Table 29.Companies and products in smart footwear.
Table 30.Companies and products in smart contact lenses.
Table 31. Companies and products in smart wound care.
Table 32. Companies developing wearable exoskeletons.
Table 33. Companies and products in hearables.
Table 34. Global medical and healthcare wearables market, 2017-2031, billions $, by product.
Table 35. Market challenges in medical and healthcare sensors and wearables.
Table 36. Market drivers for printed, flexible, stretchable and organic electronic textiles.
Table 37. Types of smart textiles.
Table 38. Examples of smart textile products.
Table 39. Types of smart textiles.
Table 40. Examples of smart textile products.
Table 41. Types of flexible conductive polymers, properties and applications.
Table 42. Typical conductive ink formulation.
Table 43. Comparative properties of conductive inks.
Table 44. Applications in textiles, by advanced materials type and benefits thereof.
Table 45. Nanocoatings applied in the textiles industry-type of coating, nanomaterials utilized, benefits and applications.
Table 46. Applications and benefits of graphene in textiles and apparel.
Table 47. Properties of CNTs and comparable materials.
Table 48. Applications and markets for e-textiles.
Table 49. Commercially available smart clothing products.
Table 50. Electronic textiles products.
Table 51. Heated jacket and clothing products.
Table 52. Examples of materials used in flexible heaters and applications.
Table 53. Companies and products in smart footwear.
Table 54.Wearable electronics applications in the military.
Table 55. Companies developing smart diaper products.
Table 56. Comparison of prototype batteries (flexible, textile, and other) in terms of area-specific performance.
Table 57. Global electronic textiles and smart clothing market 2017-2030, revenues (billions USD).
Table 58. Market challenges in E-textiles.

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Figures

FIGURES

Figure 1. Evolution of electronics.
Figure 2. Wove Band.
Figure 3. Wearable graphene medical sensor.
Figure 4.Stretchable transistor.
Figure 5. Artificial skin prototype for gesture recognition.
Figure 6. Applications timeline for organic and printed electronics.
Figure 7. Xiaomi MIX Flex.
Figure 8. Baby Monitor.
Figure 9. Wearable health monitor incorporating graphene photodetectors.
Figure 10. Revenues and revenue forecasts, by wearable market to 2031
Figure 11. Applications of wearable flexible sensors worn on various body parts.
Figure 12. Wearable bio-fluid monitoring system for monitoring of hydration.
Figure 13. Beddr SleepTuner.
Figure 14. Vuzix Blade.
Figure 15. NReal Light MR smart glasses.
Figure 16. Wearable gas sensor.
Figure 17. Global market for wearables, 2015-2031, by product type, billions US$.
Figure 18. Global market for hearables, 2017-2031, by product type, billions $.
Figure 19. Global market for wearables, 2020-2031, by market share of product type
Figure 20.Connected human body and product examples.
Figure 21. Companies and products in wearable health monitoring and rehabilitation devices and products.
Figure 22. Smart e-skin system comprising health-monitoring sensors, displays, and ultra flexible PLEDs.
Figure 23.Graphene medical patch.
Figure 24. Graphene-based E-skin patch.
Figure 25. Technologies for minimally-invasive and non-invasive glucose detection.
Figure 26. Schematic of non-invasive CGM sensor.
Figure 27. Adhesive wearable CGM sensor.
Figure 28. VitalPatch.
Figure 29. Wearable ECG-textile.
Figure 30. Wearable ECG recorder.
Figure 31. Nexkin™.
Figure 32. Bloomlife.
Figure 33. Enfucell wearable temperature tag.

Figure 34. TempTraQ wearable wireless thermometer.
Figure 35. Nanowire skin hydration patch.
Figure 36. NIX sensors.
Figure 37. Wearable sweat sensor.
Figure 38. Wearable sweat sensor.
Figure 39. Gatorade's GX Sweat Patch.
Figure 40. Sweat sensor incorporated into face mask.
Figure 41. Lab-on-Skin™.
Figure 42. D-mine Pump.
Figure 43.My UV Patch.
Figure 44. Overview layers of L'Oreal skin patch.
Figure 45. Digitsole Smartshoe.
Figure 46. Schematic of smart wound dressing.
Figure 47. REPAIR electronic patch concept. Image courtesy of the University of Pittsburgh School of Medicine.
Figure 48. Honda Walking Assist.
Figure 49. Nuheara IQbuds? Max.
Figure 50. Global medical and healthcare wearables market, 2017-2031, billions $, by product.
Figure 51. Global market for medical and healthcare sensors and wearables, 2015-2031, by market share of product type.
Figure 52. Conductive yarns.
Figure 53. Conductive yarns.
Figure 54. SEM image of cotton fibers with PEDOT:PSS coating.
Figure 55. Applications of graphene in smart textiles and apparel.
Figure 56. PCM cooling vest.
Figure 57. EXO2 Stormwalker 2 Heated Jacket.
Figure 58. Flexible polymer-based heated glove, sock and slipper.
Figure 59. ThermaCell Rechargeable Heated Insoles.
Figure 60. Myant sleeve tracks biochemical indicators in sweat.
Figure 61. Flexible polymer-based therapeutic products.
Figure 62. iStimUweaR .
Figure 63. Digitsole Smartshoe.
Figure 64. Basketball referee Royole fully flexible display.
Figure 65/ ABENA Nova smart diaper.
Figure 66. Textile-based car seat heaters.
Figure 67. Micro-scale energy scavenging techniques.
Figure 68. Schematic illustration of the fabrication concept for textile-based dye-sensitized solar cells (DSSCs) made by sewing textile electrodes onto cloth or paper.

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Figure 69 . 3D print piezoelectric material.
Figure 70. Global electronic textiles and smart clothing 2017-2030, revenues (billions USD).Source: Future Markets.
Figure 71. Global market for electronics and smart textiles, 2017-2031, by market share of product type.
Figure 72. Graphene dress. The dress changes colour in sync with the wearer's breathing.
Figure 73. Descante Solar Thermo insulated jacket.
Figure 74. G+ Graphene Aero Jersey.
Figure 75. HiFlex strain/pressure sensor.
Figure 76. Electroskin integration schematic.
Figure 77. Smardii smart diaper.
Figure 78. Teslasuit.

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