

# Smart Wear Bio-information and IoT

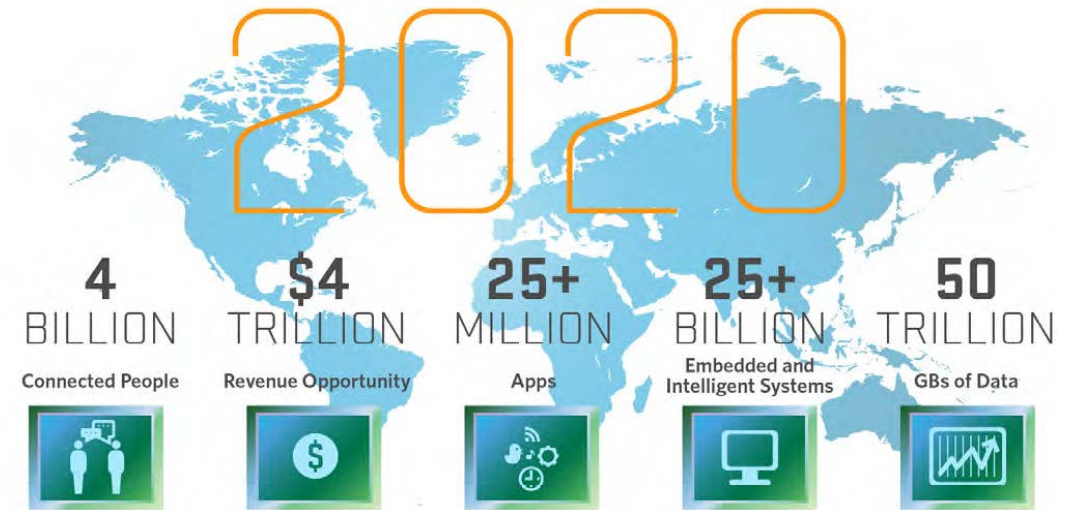
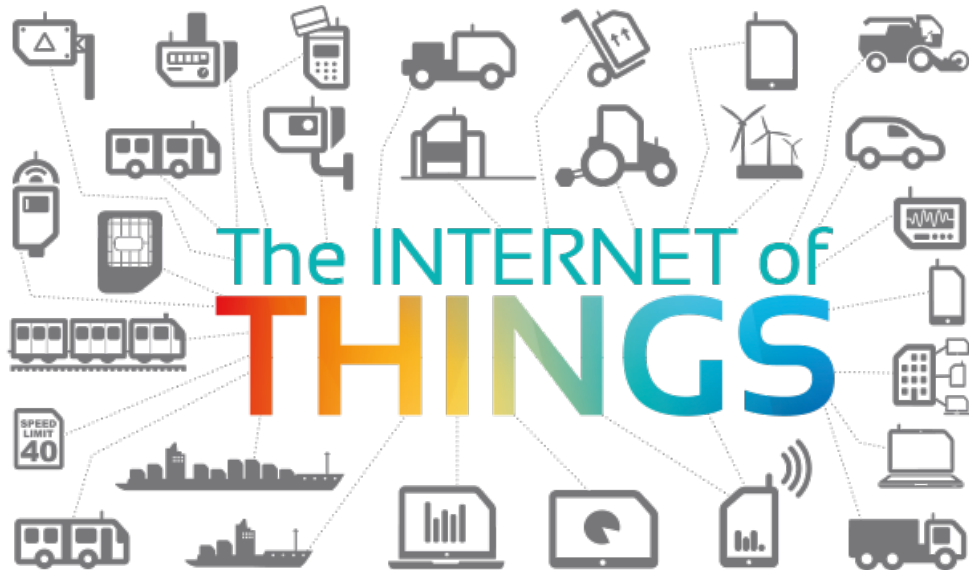
Jingbo Sun

AMSU(Shenzhen) New Technology Inc

3rd Jun. 2018 in Oulu

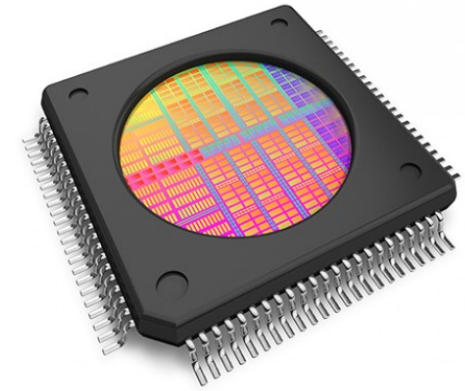
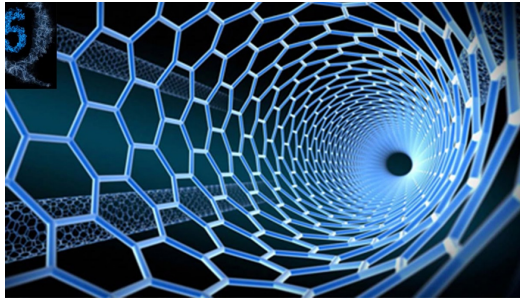


# Now we are living in the IoT world



Source: Mario Morales, IDC

**As the tech developing, it is possible to get the real time and daily life bio-information of human beings**





# There are more and more smart wear to get bio-information from our daily life



**Smart Ring**





# Make the human beings become a part of IoT world

1

**IoT and big data**

2

**Bio-information  
from smart wear**



# For the medical hospital&rehabilitation

Get real time bio-information  
and send to the Dr.



Can prevent the risk or  
save time by AI





## For the army on training and detection



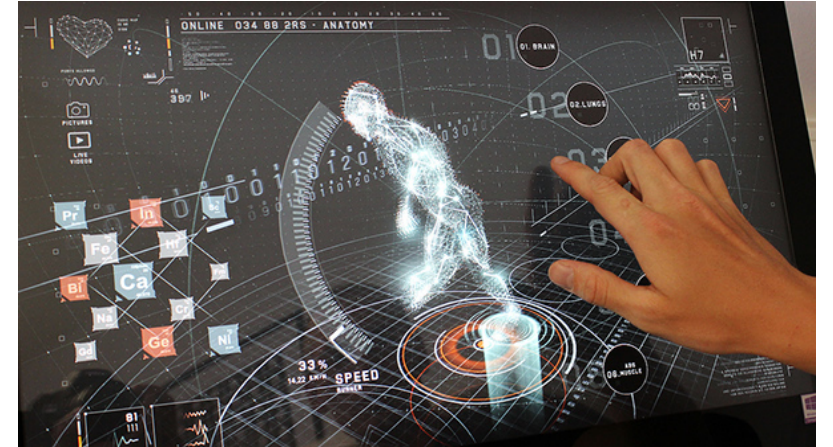
1 To know the efficiency of training

2 To know the life status from distance

3 To get the guidance to deal with injury



# For the sports training



- 1 To know the efficiency of training
- 2 To know the players best or worst situations and time period

# For the pharmaceutical R&D



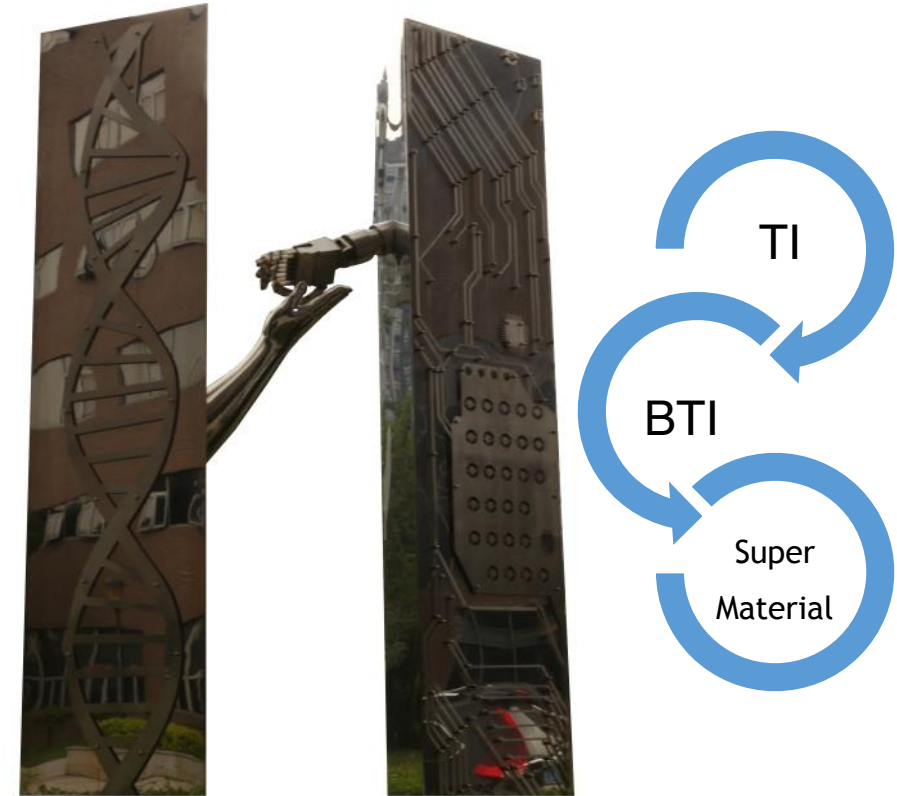
The relationship among age, male/female, characters and regions



Amsu(Shenzhen) New Technology Co., Ltd. focuses on cross-border integration of IT, bioinformation and super material, researches and develops smart wear. Through the wear, we can get the real-time, dynamic body sign information, and then we will give users some valuable reports and guidances by dealing with the information. Besides we can cooperate with a third party(such as medical rehabilitation institution) to exploit the potential value.

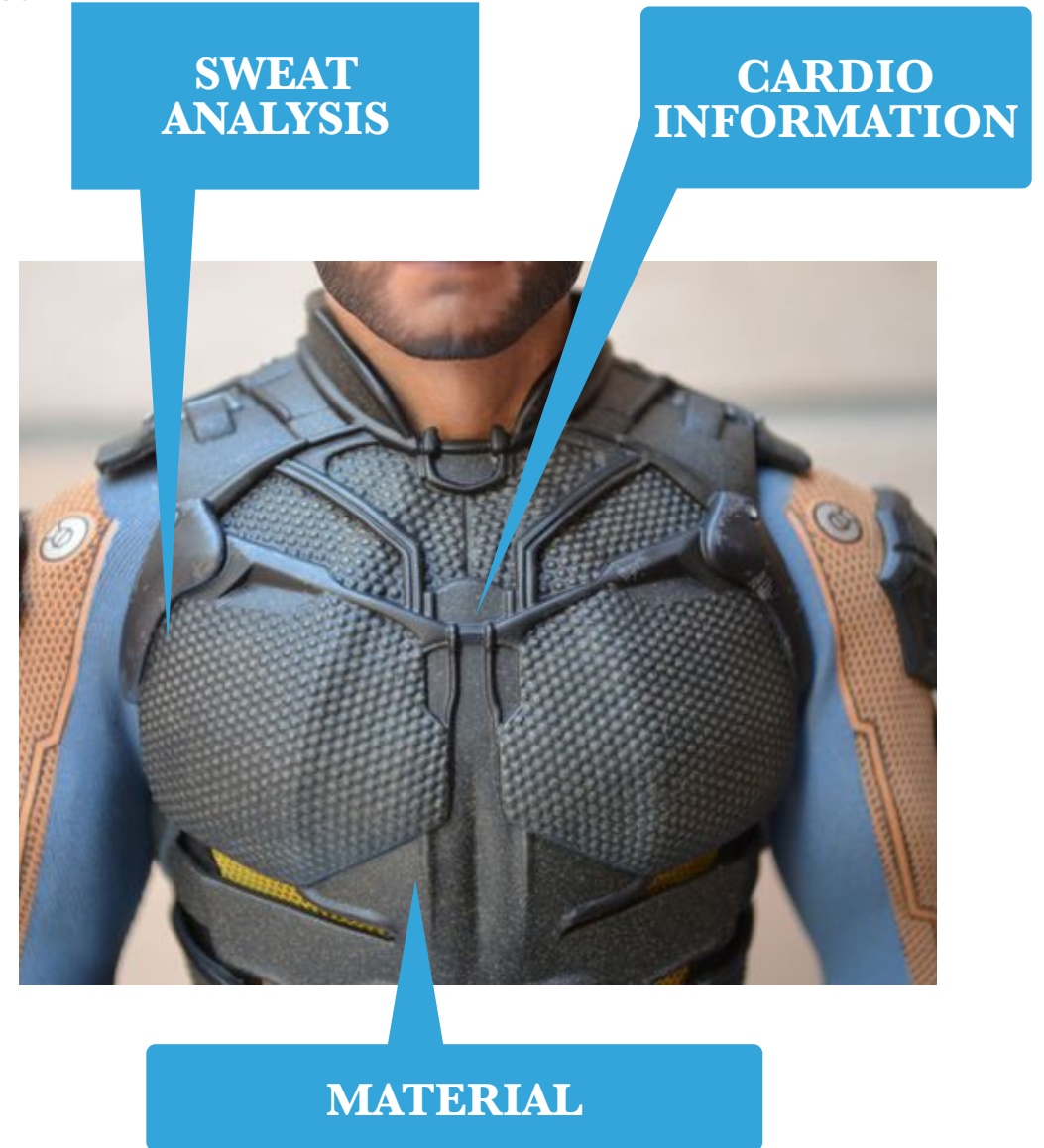
The entire super wear is made up of three parts and planned for 5 years(2015-2020) to finish. The first stage has been completed and the product is already on sale.

The completion of the super wear will change many areas, such as preventive medicine and the army equipment.



# Constitution of the super wear

- ▶ Cardio Information
- ▶ –Real-time Multi-lead ECG:Various cardiac arrhythmia and cardiac general assessment; correlation analysis with other diseases; analysis of mental state (HRV, etc.); survival state analysis, etc.
- ▶ Sweat Analysis
- ▶ - Analysis of organic, inorganic substances and dehydration in sweat
- ▶ Material
- ▶ - The use of high-tech materials to enable the clothing to be able to bacteriostasis, antiseptic, and prevent infection after injury; fast recovery of fatigue; self cleaning (no need to be cleaned in a certain time); energy supply (fiber friction power for equipment, and heating and other functions)







## ➤ Milestone

- ✓ Dec. 2015: Established
- ✓ Nov. 2016: Ver.1 sample was showed on China High-technology Fair
- ✓ Jan. 2017: SIAT entered the stock
- ✓ May. 2017: Mass production for test
- ✓ Jan. 2018: Verso series on sale
- ✓ May. 2018: 5-Lead ECG transmitter sample

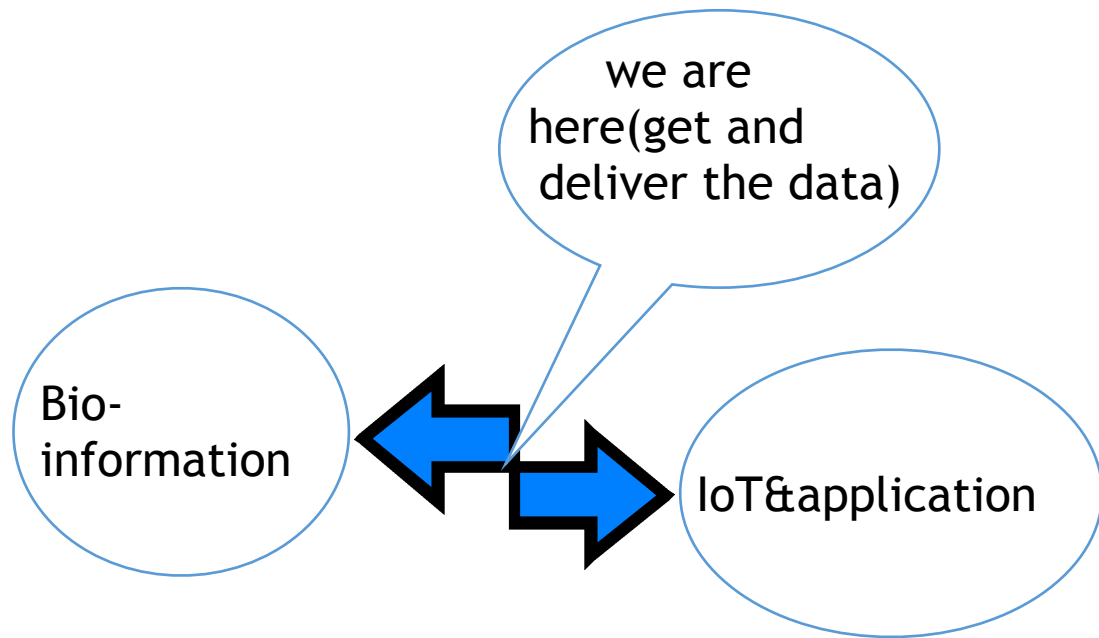
## ➤ Patents

- ✓ We have gotten many inventive utility model patents on algorithm, materials, production process, hardware etc.

## ➤ Location

- ✓ RD Centre--SIAT F Building
- ✓ HQ--Datang Times Building
- ✓ USA--LA
- ✓ Japan--Tokyo

# What does our wear can do for the market?

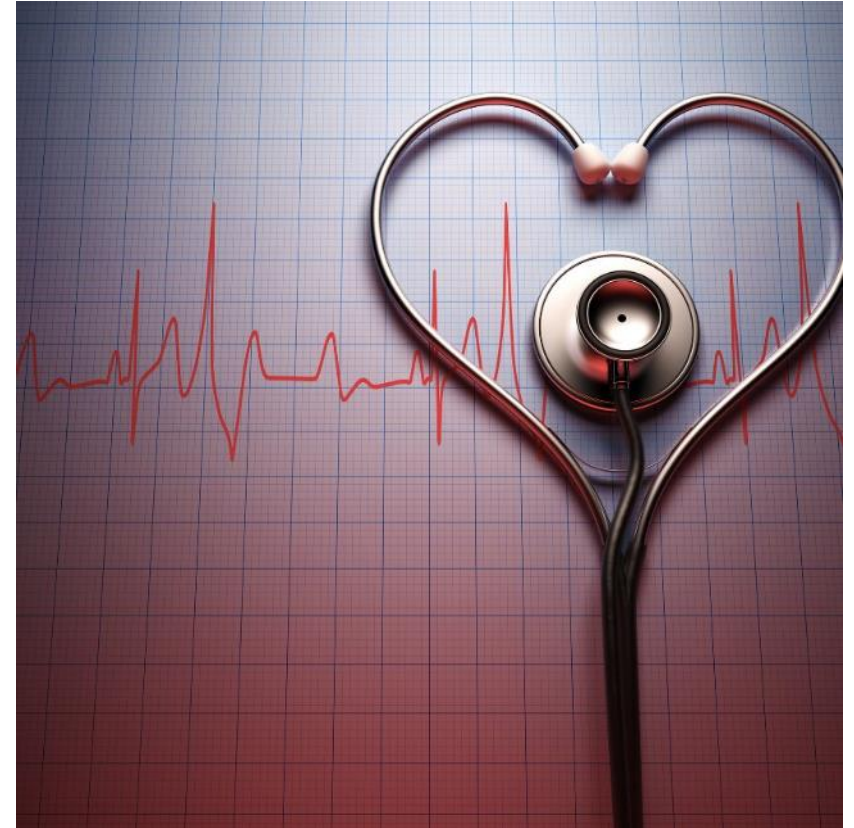


- ▶ As the big data application and machine learning technology are being developed, it becomes possible for us to make deep research in some fields(such as four fields mentioned above), but the point and base are how we can get more and accurate data.

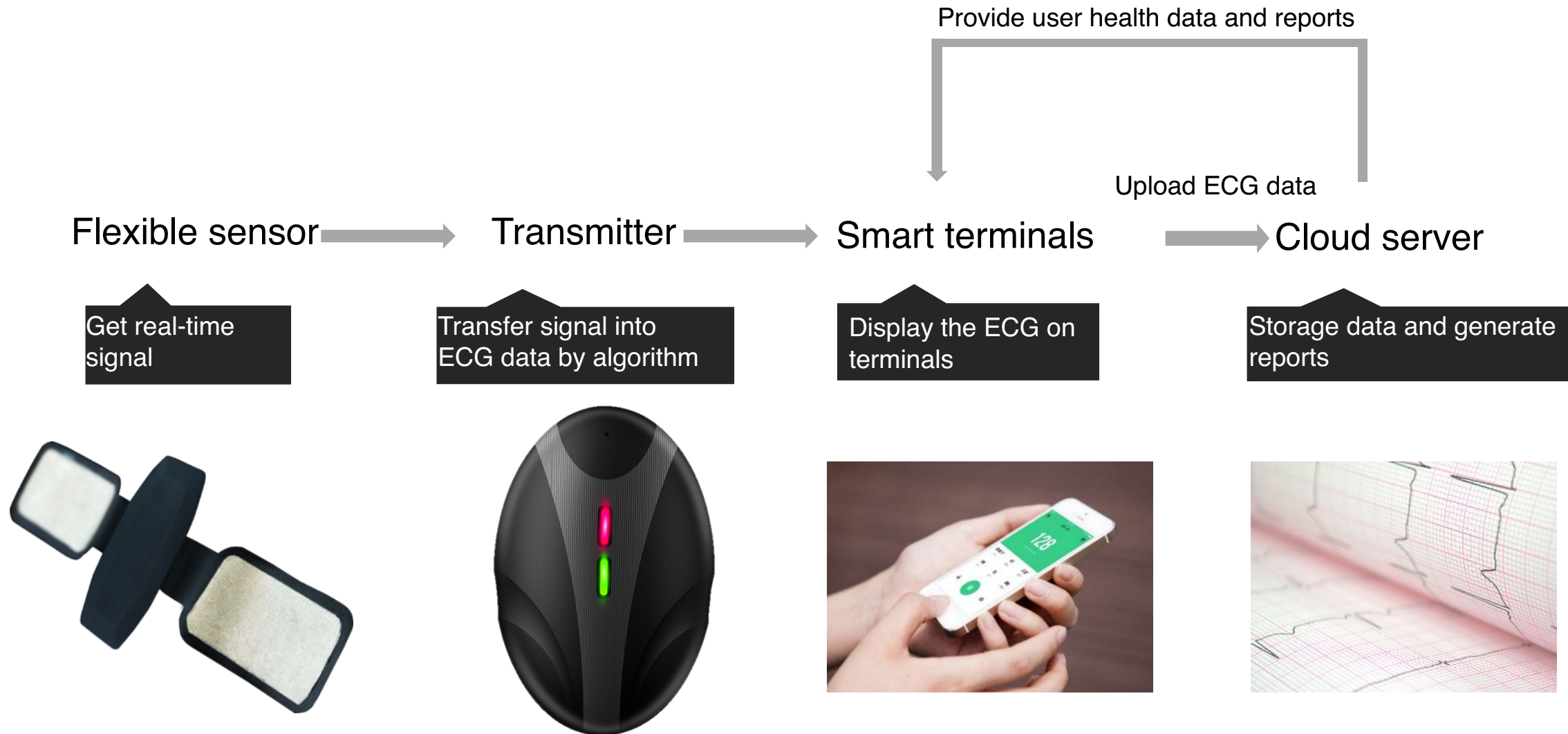
# AMSU wear(Verso Series) is on sale now



- ◆ You can wear it everyday in good feeling.
- ◆ Accurate ECG
- ◆ You can get real-time cardio information.
- ◆ It can work well even if you do sports



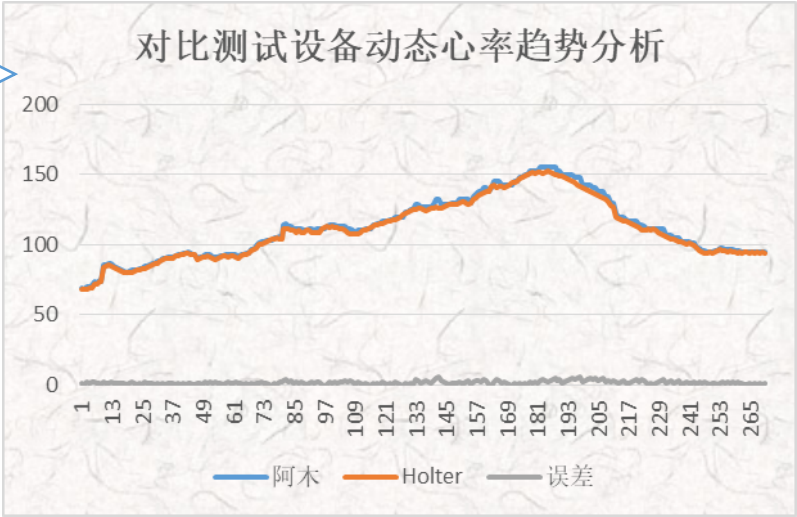
# Product composition and working principle





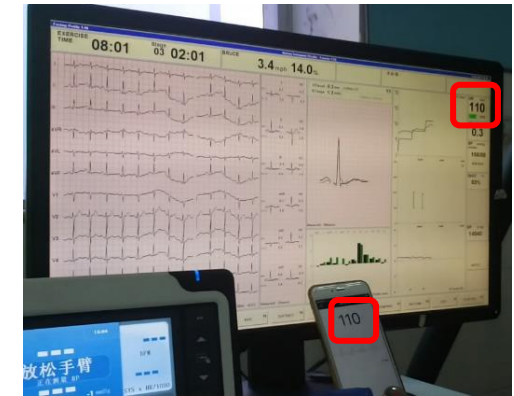
# Comparison test with professional equipment

Conclusion: the similarity between AMSU wear and professional holter is 99.3%!



The blue vest is our wear

Holter with electrodes



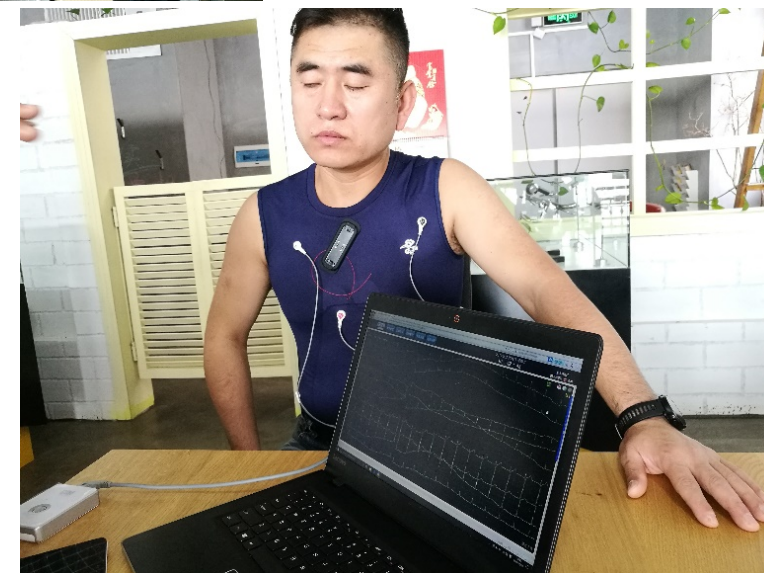
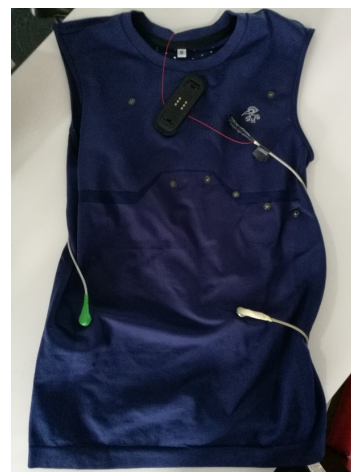
The treadmill and display are for Holter

The smart phone is for AMSU ECG APP



The tester is a healthy, 40 years old male. Status: running

# The multi-lead ECG wear(under development)





# Media coverage and honor



# Future Technology is coming to us!



**Add:**

Room 602, Datang Times Building, 142  
Mei Long Avenue, Longhua street,  
Longhua New District, Shenzhen. PRC.

**Contact:**

 0086-755--23774637

 [www.amsu-new.com](http://www.amsu-new.com)



## The cooperations we hope

- Technology cooperation: supply or cooperate R&D(including material, algorithms, sensors)
- Big data analysis(professional applications)