



**Gerontech and  
Innovation Expo cum  
Summit(GIES)2018**

Innovation and Technology  
for Application in Elderly and  
Rehabilitation Care Services:  
New Insights through  
Collaboration

**The Yuen Yuen Institute  
Social Service Department**

**CHUNG ANNIE**

**Rehab Reform Redefine  
樂齡 靈活 活起來  
i-Walker System**

# Content

**1. The Yuen Yuen Institute**

**2. REHAB**

**3. REFORM**

**4. REDEFINE**

**5. Remark**

# The Yuen Yuen Institute Social Service Department

From 1974

Residential



Community



Social  
Enterprise



# REHABilitation

Assessment

Exercise

Recording

Therapist

Assessment  
tools

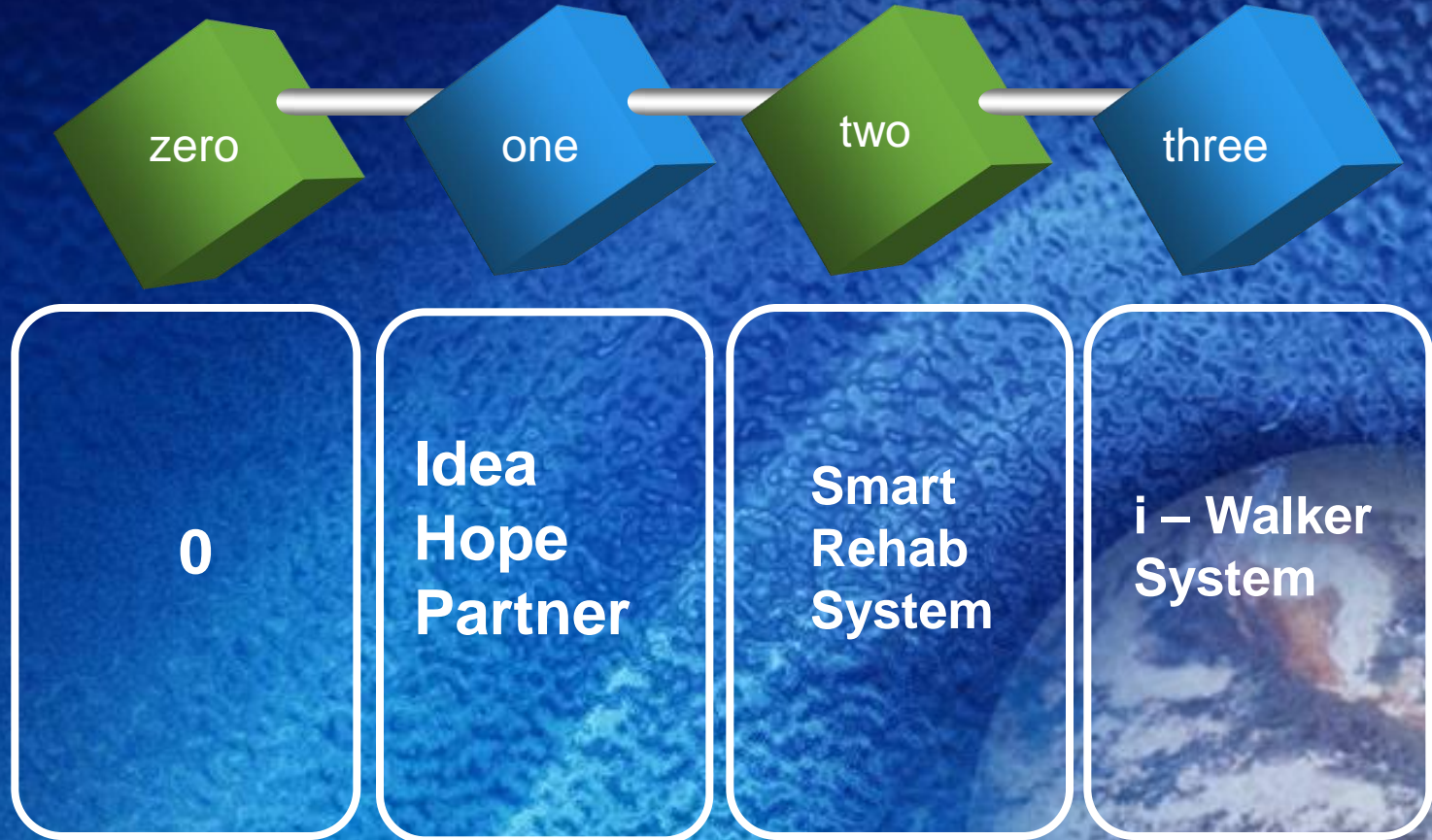


Report

Kardex

Individual  
care plan

# The Story of REFORM



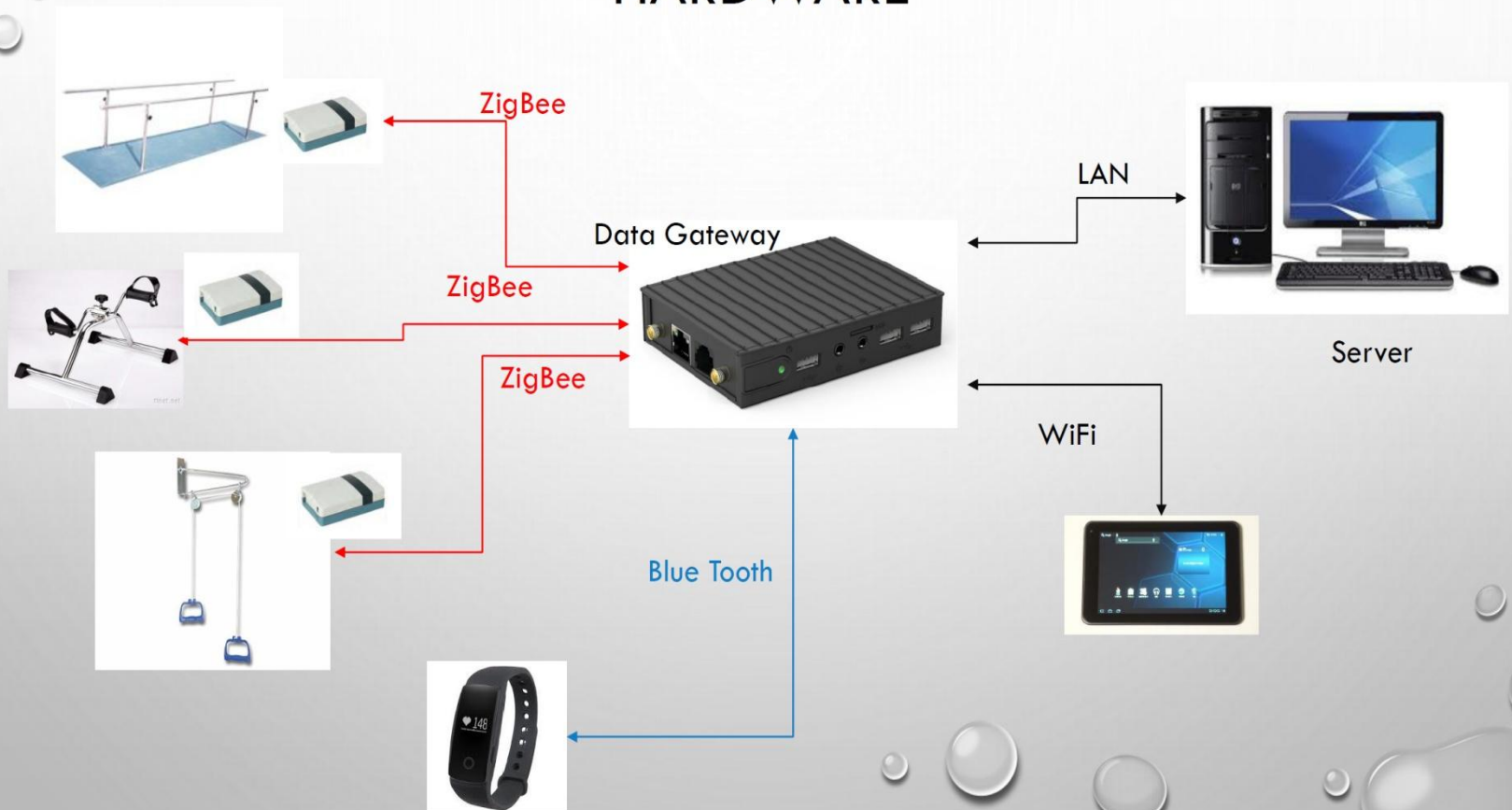
# Smart Rehab System

## Objectives & Scope :

- To enhance the rehabilitation services, including **PT & OT** for the elderly through **IOT** (Internet of things) technique
- To make most processes and treatments becoming **automatic, numerical and systematic**
- To provide sufficient **data and information** for the professionals in **reporting/analysis/ development**

# Smart Rehab System

## HARDWARE



# Smart Rehab System



## Hardware

- Sensors, & control boxes
- Gateways & server

## Internet

- Wi-fi
- Zigbee
- Lan

## Software

- System programs
- Movable apps



# Smart Rehab System

- Intelligent functions :

Numerical

- Data capture
- Sensors & apps

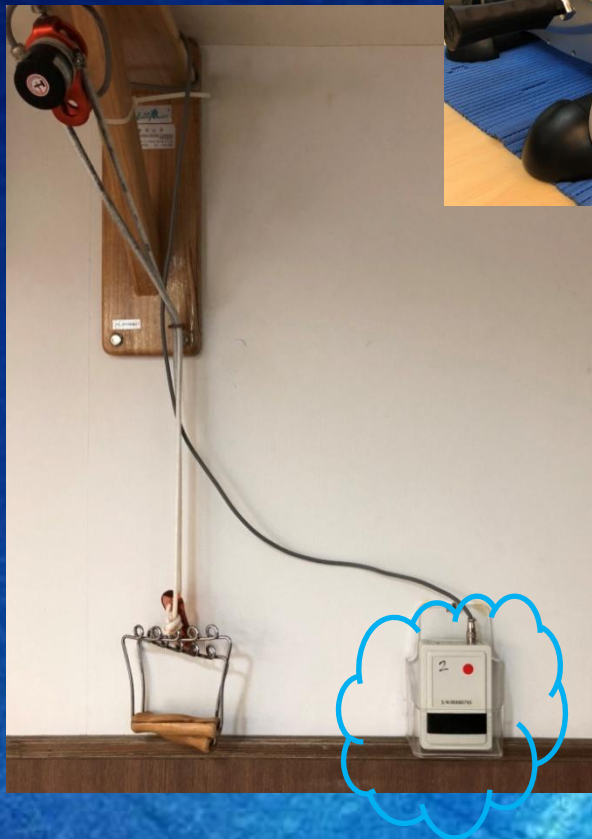
Automatic

- Data delivery through ZB & Wi-fi
- Data stored in gateway & database(server)

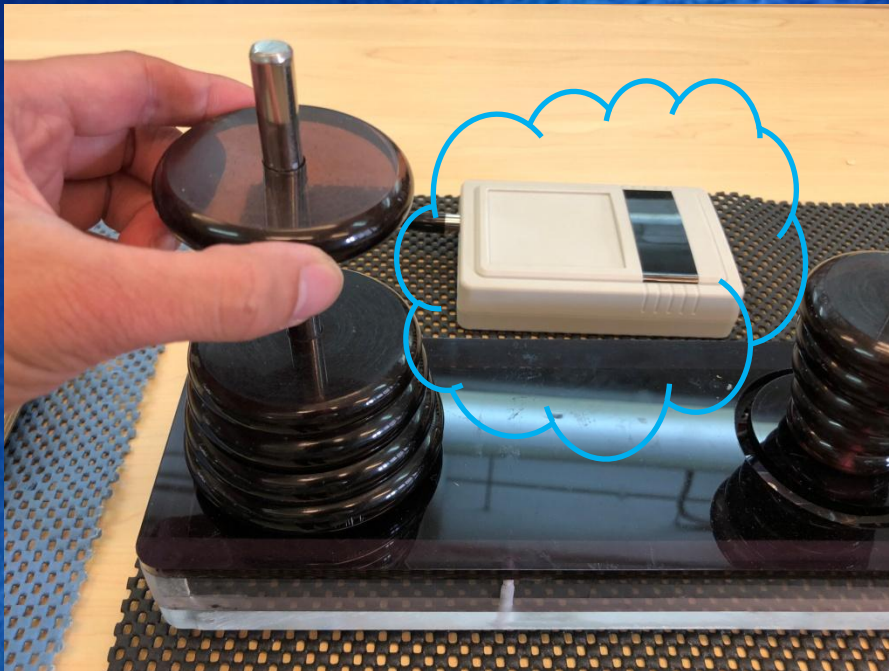
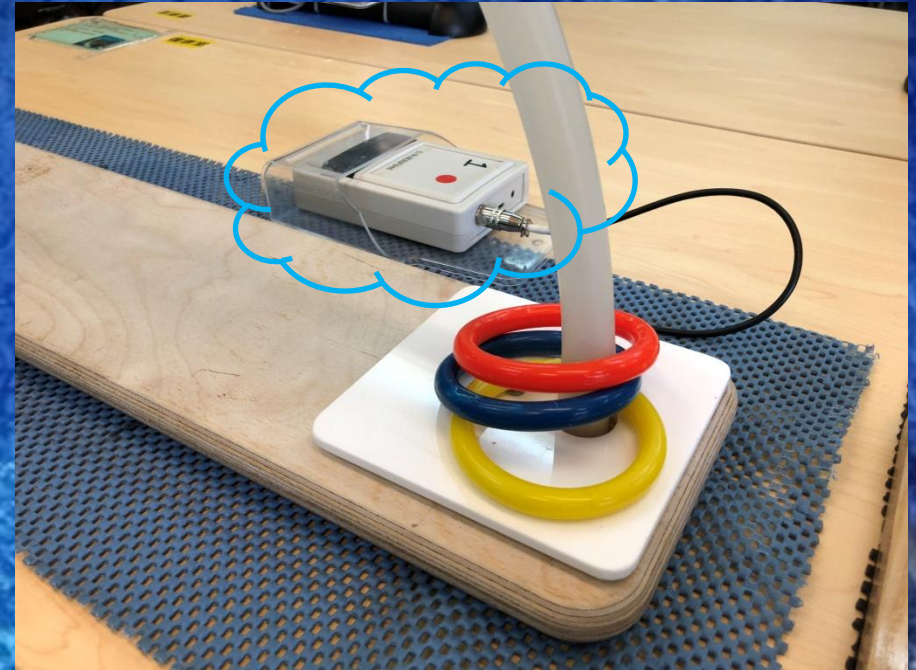
Systematic

- **Information – dashboard & reports**
- **Therapy records**
- **Users up to 50**

# Smart Rehab System

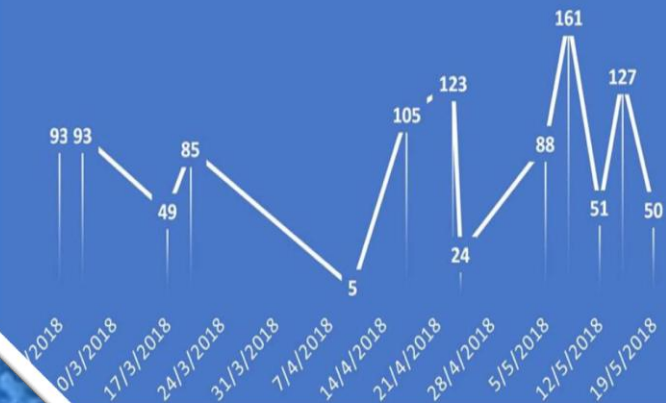


# Smart Rehab System

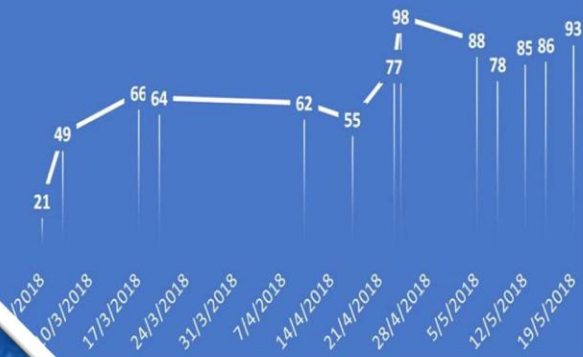


# Smart Rehab System

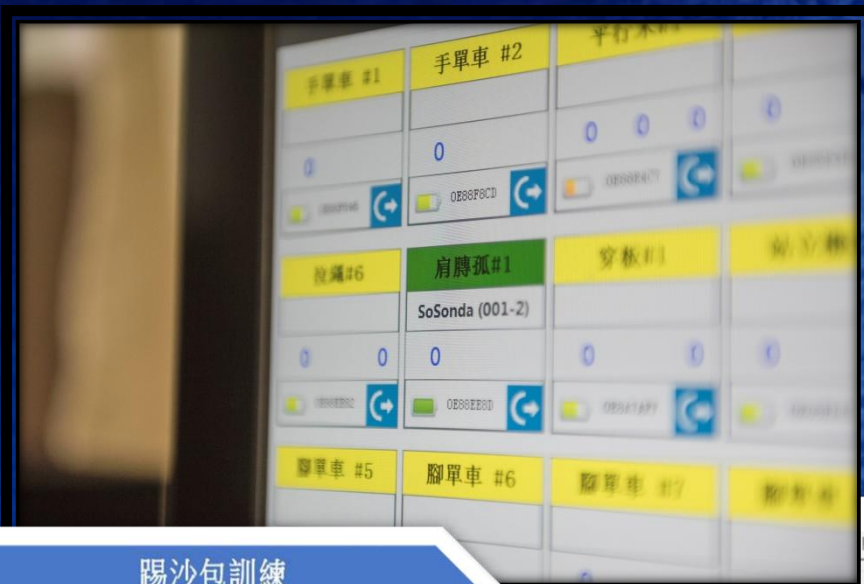
## 腳單車訓練



## 踢沙包訓練



## 平行木步行訓練



開始日期: 2018-08-01  
 截止日期: 2018-08-18

拉繩  所有項目

項目記錄	名字	記錄日期	訓練/治療編碼	訓練/治療	記錄內容
1	謙(101-1)	2017-08-01 14:35	PT01A	拉繩	合共長度12.80米
2	妹(102-2)	2017-08-01 14:44	PT01A	拉繩	合共長度10.80米
3	妹(102-2)	2017-08-01 15:44	PT01B	腳單車	合共66圈
4	花(303-5)	2017-08-02 15:15	PT01A	拉繩	合共長度11.80米
5	翠(305-6)	2017-08-02 15:15	PT01A	拉繩	合共長度13.80米
6	珊(201-3)	2017-08-04 15:35	PT01A	拉繩	合共長度13.70米
7	詩(202-4)	2017-08-04 15:38	PT01A	拉繩	合共長度7.80米,
8	嬌(101-1)	2017-08-08 14:35	PT01B	腳單車	合共76圈
9	翠(305-6)	2017-08-09 15:15	PT01B	腳單車	合共60圈
10	珊(201-3)	2017-08-11 15:35	PT01B	腳單車	合共46圈
11	花(303-5)	2017-08-16 15:15	PT01B	腳單車	合共107圈
12	真詩(202-4)	2017-08-18 15:38	PT01B	腳單車	合共86圈

# Smart Rehab System

FrmOTPageB

主頁 2017-10-10

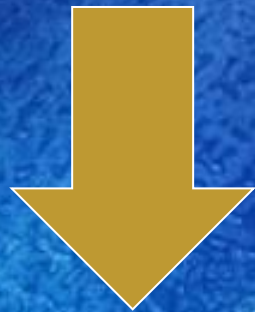
## 記憶訓練

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注專力	評估表現 <input type="radio"/> 差 <input type="radio"/> 一般 <input type="radio"/> 好 <input type="radio"/> 很好
表達能力	評估表現 <input type="radio"/> 差 <input type="radio"/> 一般 <input type="radio"/> 好 <input type="radio"/> 很好
投入/反應	評估表現 <input type="radio"/> 差 <input type="radio"/> 一般 <input type="radio"/> 好 <input type="radio"/> 很好
跟從指示	評估表現 <input type="radio"/> 差 <input type="radio"/> 一般 <input type="radio"/> 好 <input type="radio"/> 很好
總份 *15分	<input type="text"/> <input type="button" value="完成&lt;br/&gt;下一位"/>

# **i-Walker System**

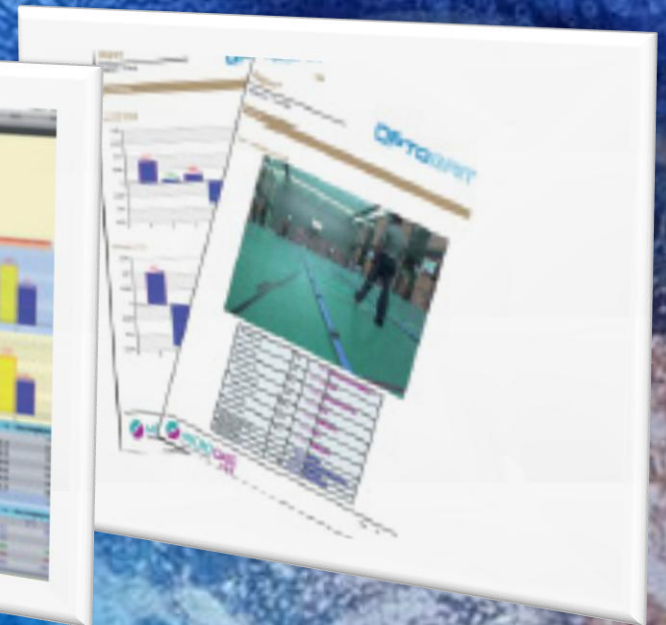
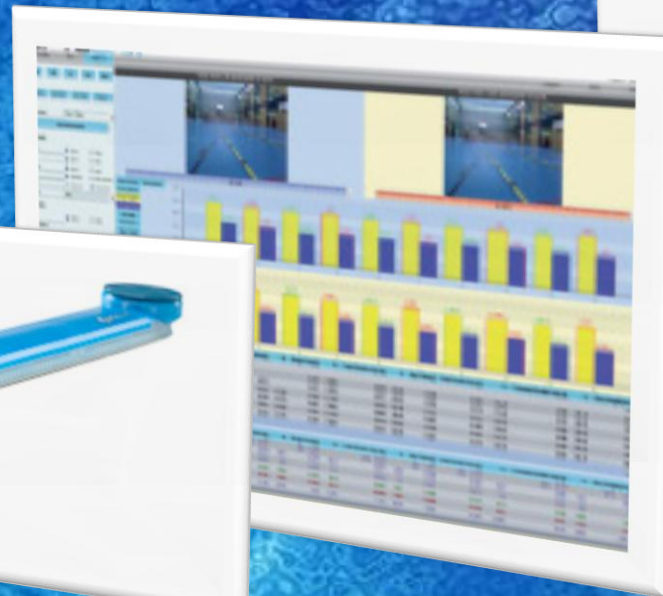
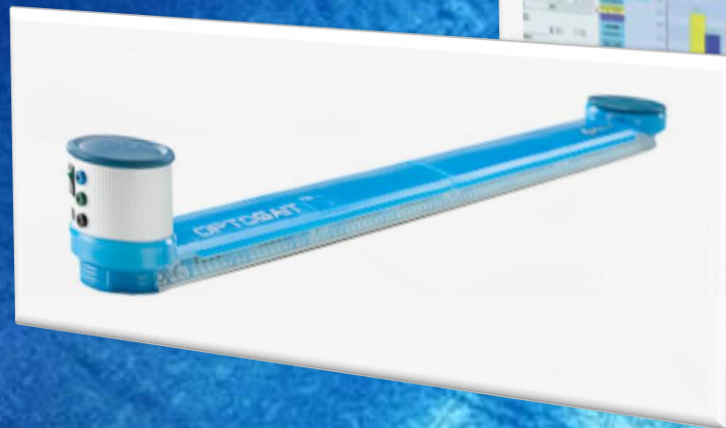
The limitation of Smart Rehab System is lack of

Scientific Assessment and Evidence Base Assessment



**i-Walker  
System**

# i-Walker System

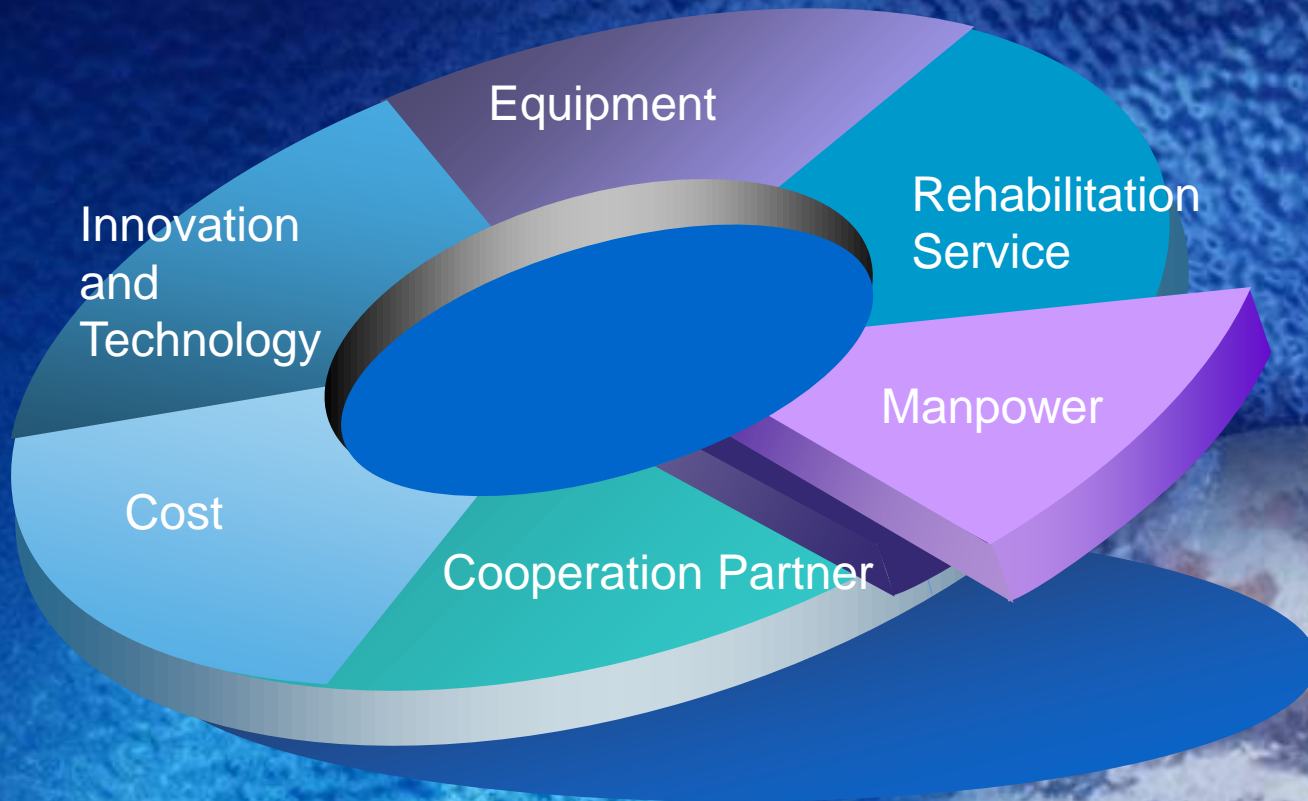


# i-Walker System





# REDEFINE



# Remarks

From 0 to .....

Project  
size

Replace?

Maintenance

# Honorable Compliment

1. The Hong Kong Council of Social Service

2. Mark Bright Ltd.

3. Health Link Holdings Limited