# TC100 AGS Preparatory discussion for possible SS6 (Robotics)

## June 5<sup>th</sup>, 2013 Toshihiro Inokuchi Assistant Secretary of TC100

## Approach for robotics area in TC100

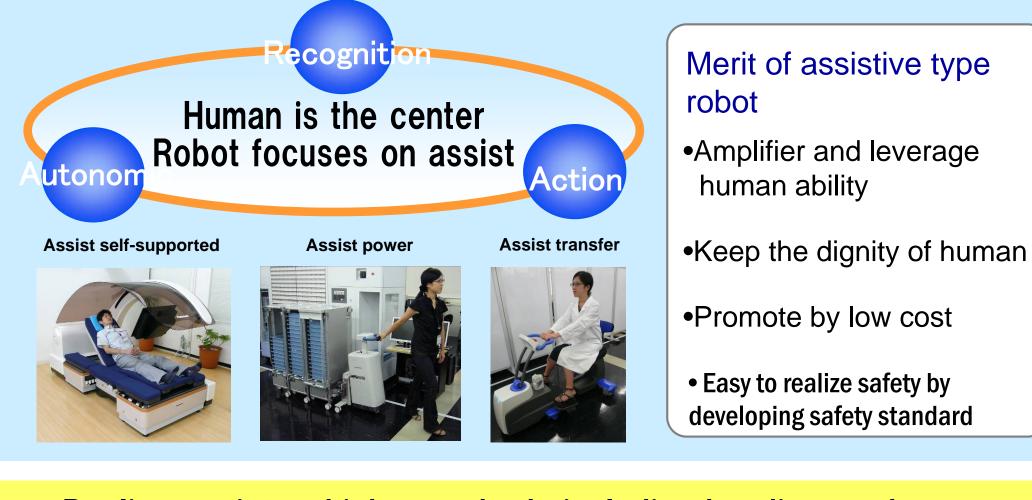
Try to extract the standardization item by reviewing existing robot, by introducing some examples that Panasonic works on healthcare area.

Goal of today's discussion

**Decide next step in TC100** 

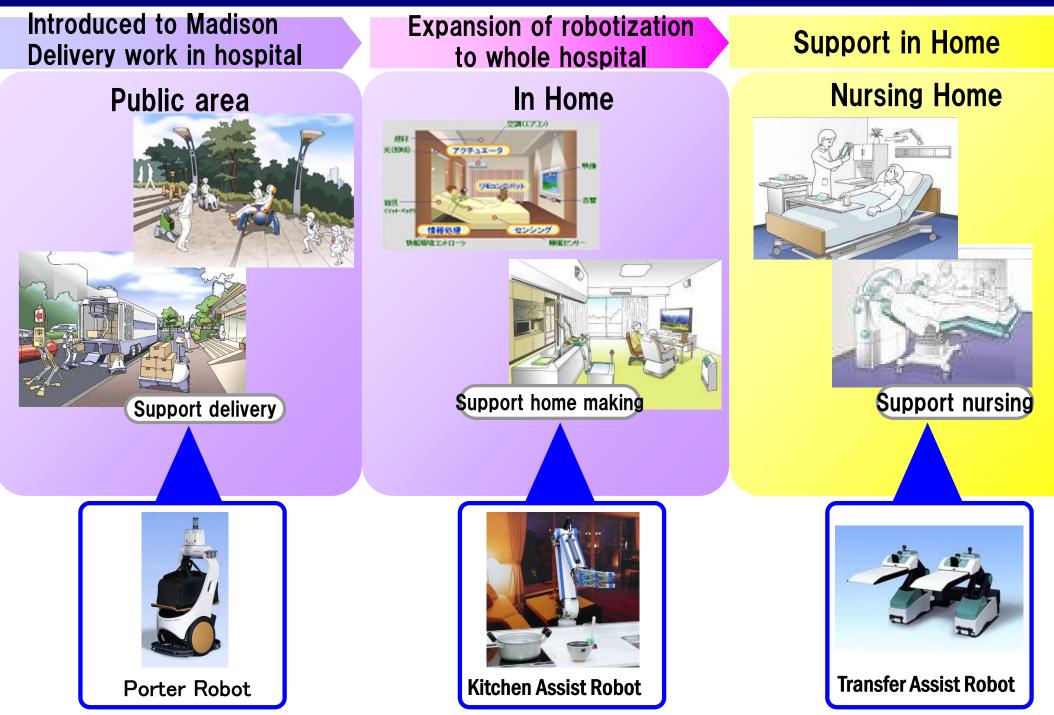
- Examples:
  - Establish new Study Session on this area by assigning a leader.
  - Will hold a brainstorming session at the timing of Plenary.
  - Suspend to investigate on this area.
  - others…

### **Concept of Panasonic Robot**



## Realize society which everybody including handicapped person can work actively and energetically

## **Expansion of Life Comfort Robot**



## Porter Robot



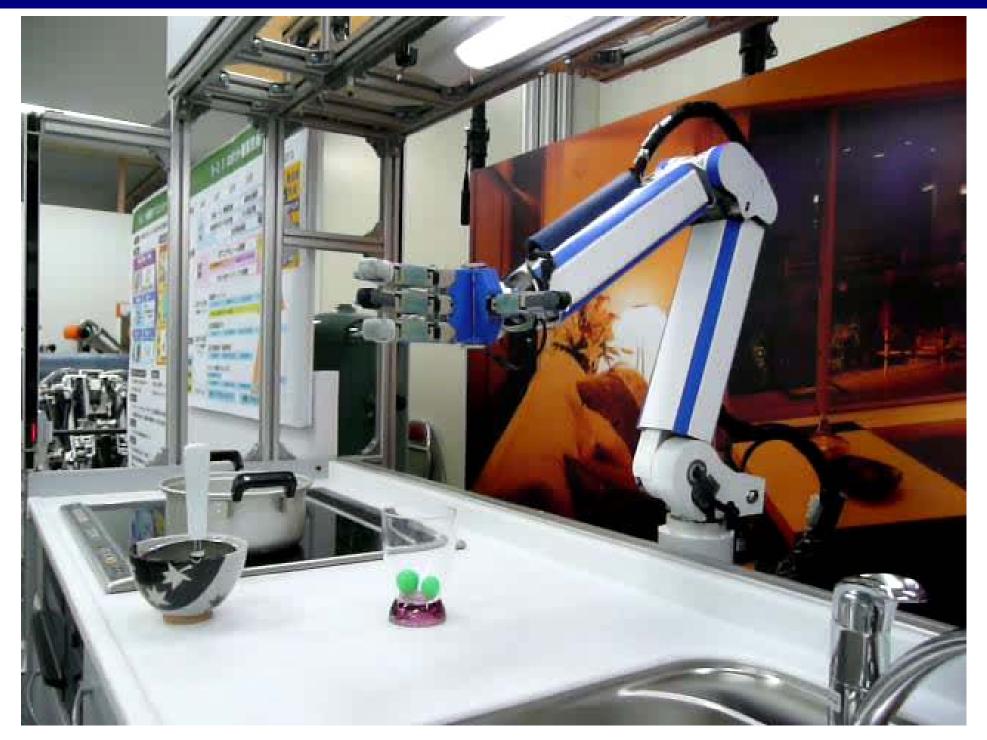
## Example of Panasonic's Porter Robot



#### <Specification>

•		
Size	height: 1	290 mm (Except Camera)
	width: 5	40 mm
	length: 680 mm	
Weight	56 kg	
Maximum Speed	6 km/h (1.6m/sec)	
Battery	24V 6000 mAh NiH (2 units)	
	human chase: Supersonic sensor	
Sensor	human c	hase: Supersonic sensor
Sensor	human c	hase: Supersonic sensor Camera
Sensor		
Sensor		Camera
Sensor	moving:	Camera photoelectric sensor
Sensor	moving:	Camera photoelectric sensor Supersonic sensor

## Example of Kitchen Assist Robot

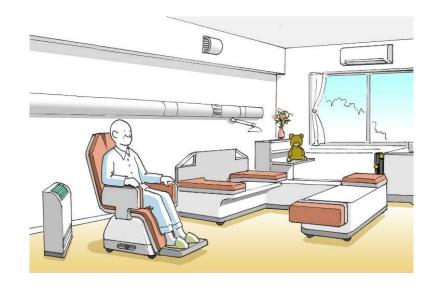


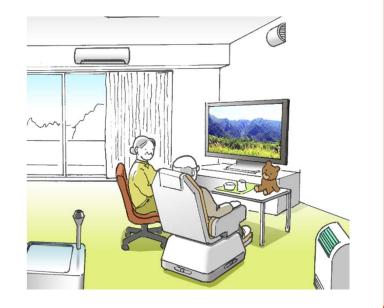
# Concept

To assist elderly person or handicapped person for active and self-supported life at peace. The robot which assists diminished physical ability can contribute for realizing above.

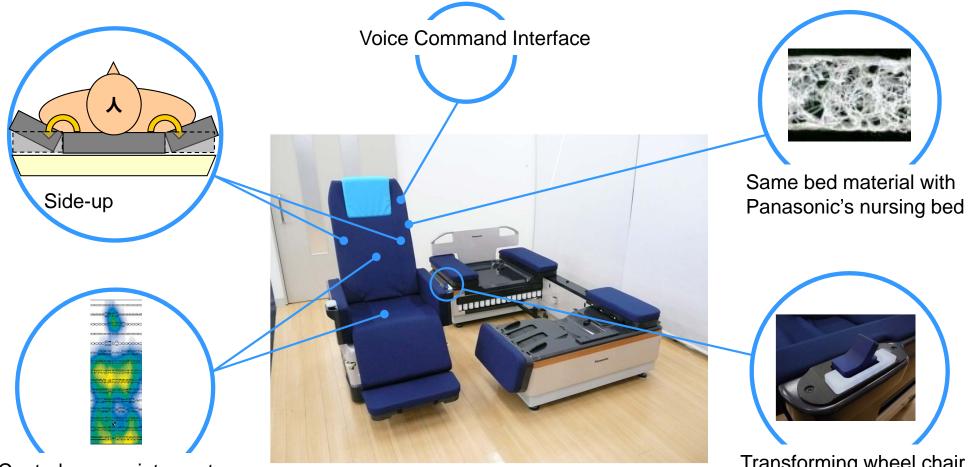
#### **Feature of Robotic**

Relief from bedridden situation by transforming from bed to wheel chair
Nursing and assist robot for decreasing caregiver burden





# **Technical Feature : Robotic Bed**

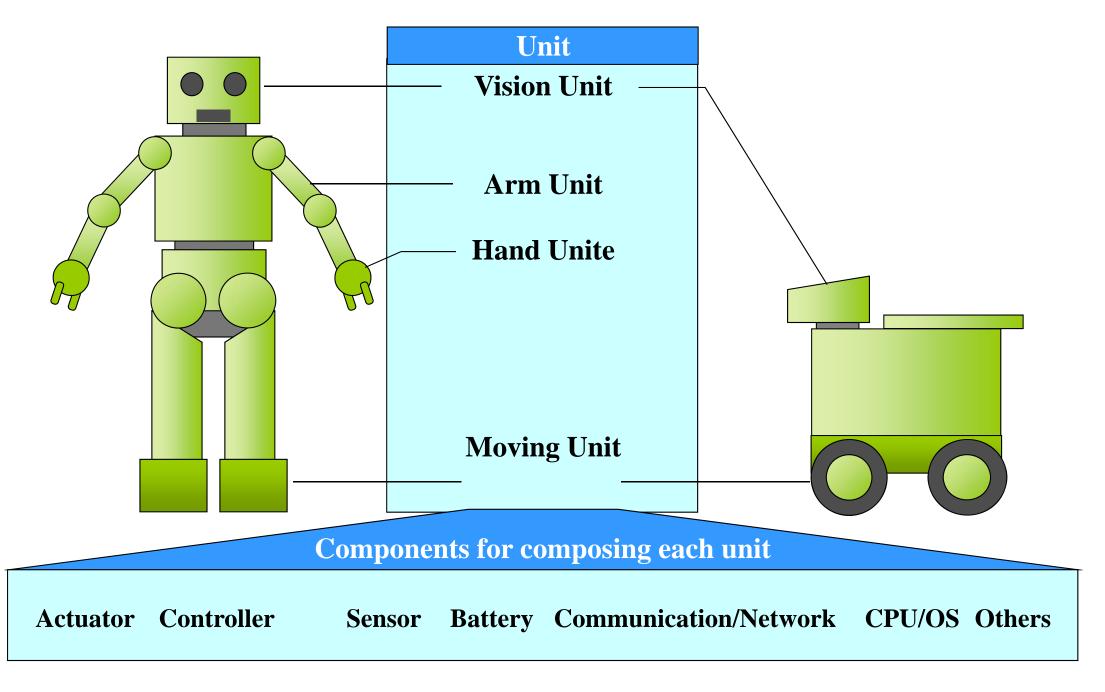


Control appropriate posture by human pressure sensor

Transforming wheel chair

Robot assists the control of bed and wheel chair safely Check the surrounding by embedded sensor, and guide for avoiding the crash safely

## **Component of Robot**



## **Brainstorming**

## What item TC100 should standardize?

Examples are;

- Voice Recognition
- Image Recognition
- Communication
- Network
- Data Format
- Position information of robot
- Measurement to recognize the position

What others?;