

Introduction

Scenario

- The Hartley Lifecare centre seeks alternative way to help the disabilities to stand up.

Complication

- People with mobility impairments need to stand for both mental and physical reasons (blood circulation, daily activities involvement, the experience of standing up).
- Unsatisfying & uncomfortable current standing methods. [2]

Resolution

- An easily manoeuvre standing wheelchair with ultimate comfort and safety provided.

Design recommendation

- Wider safety belt to release intensity of pressure
- Two ways of attaching belt: parallel and cross, which provides more comforts to female users

- To ensure more than 95% of the Australian people fit in.
- The height ranges from 160cm to 180cm.[1]

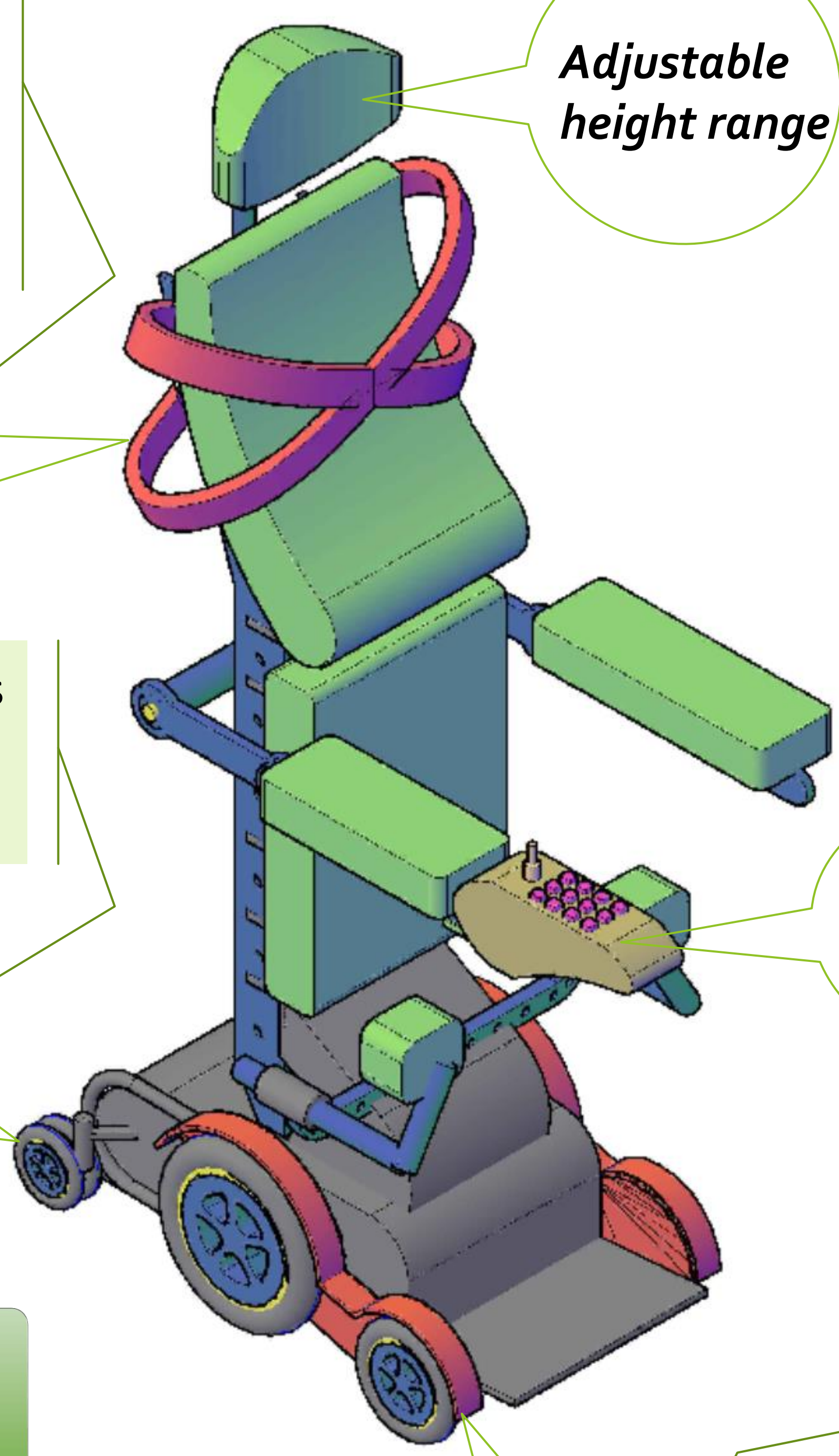
Adjustable safety belt

- Extra auxiliary wheels make the elevating process more stable.

- This control panel can be easily attached or detached to both left and right hand side

Auxiliary wheels

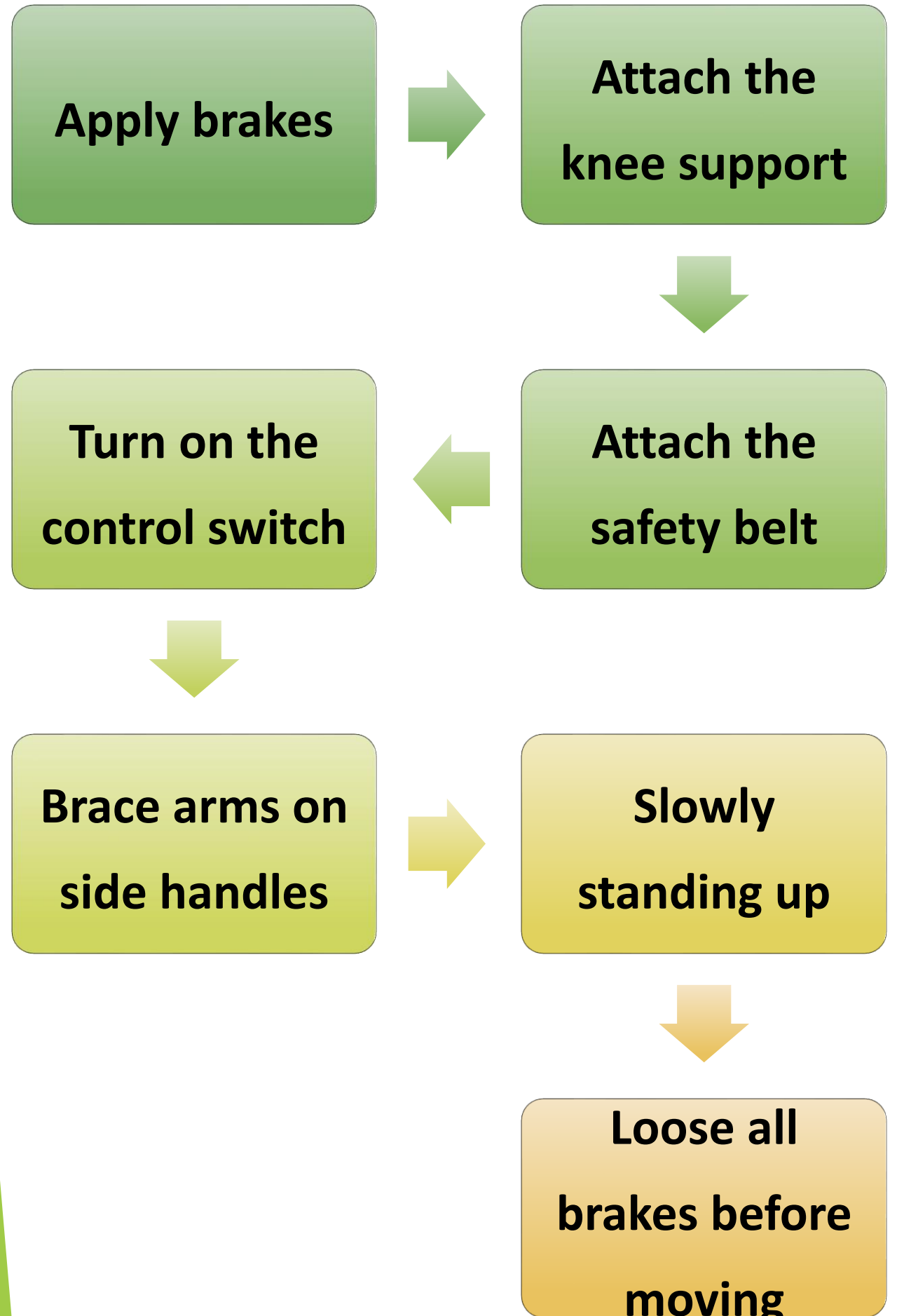
Detachable Control Panel



Omni-directional front wheels

- The Omni-directional front wheels can be easily controlled by users, given them fully freedom of 360 degree of directions

Standing procedure



Characteristics

125kg	6-8 h	Absorber	8-15°
65cm	45cm	Waterproof	180cm

Reference

[1] Australian Bureau of Statistics. (2013). 4338.0 - Profiles of Health, Australia, 2011-13. Canberra: Australian Bureau of Statistics.
 [2] Hartley Lifecare. (2012). Vision, Mission & Values. Canberra: Hartley Lifecare.

