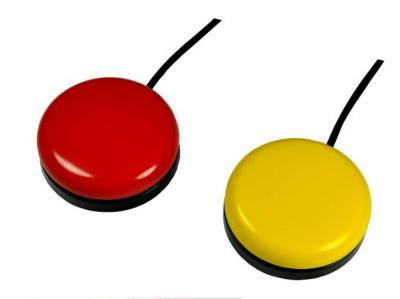


#### **Problem: Pushbutton**

- No analog control
- Hard
- For permanent application
  - Disturbing?
  - Danger for pressure point?







#### Idea: air cushion

- Soft
  - No pressure point?
  - Can be applied permanently?
- Air pressure individually adjustable
- Analog control

- Disadvantage
  - Must be inflated
  - Tightness
  - Space requirement





## Solution: Blood pressure cuff

- Cushion for blood pressure monitor
- Low cost: €15,- to €40,-
- Available everywhere
- Contains hand pump
- Second hose connection for sensor

Incl. velcro fastener for appliqué

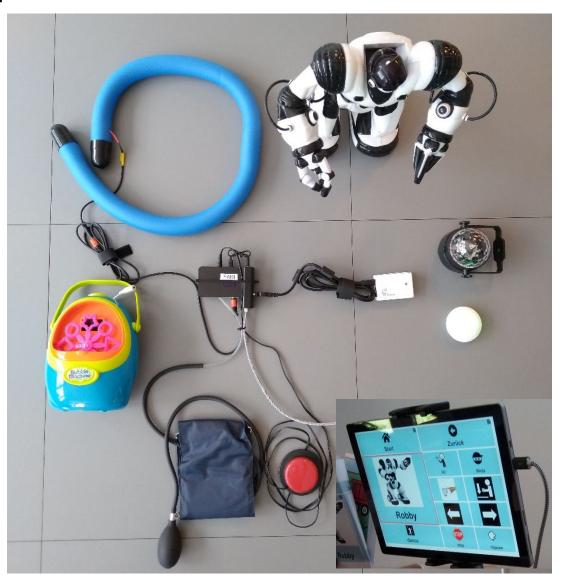




## **UNICAT: Components**

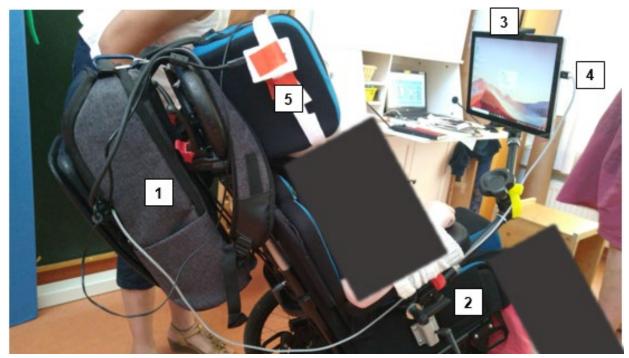
- FABI Pushbutton interface<sup>1</sup>
- MS Surface Pro 7 Tablet
- Lights
- Toy robot
- Bubble machine
- Massage tube
- Infrared transmitter

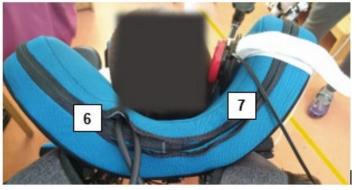




#### **UNICAT: Structure**

- Backpack with FABI + accessories
- Manfrotto mount
- MS Surface Pro 7 Tablet
- 4. USB port
- 5. Infrared transmitter IrTrans





- 6. Cushion integrated in headrest
- 7. Button for menu navigation

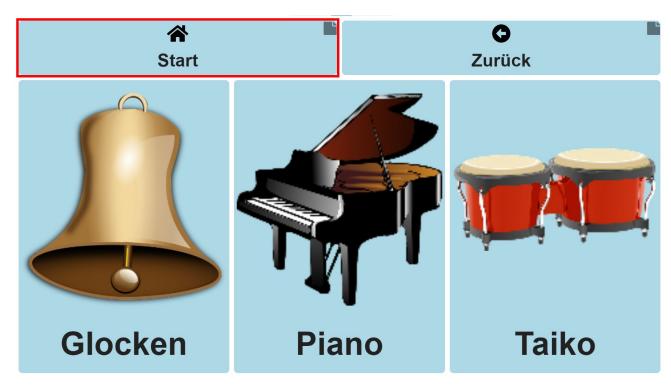


### **UNICAT: Pillow sound**

- Pitch depending on air pressure
- 3 tones selectable







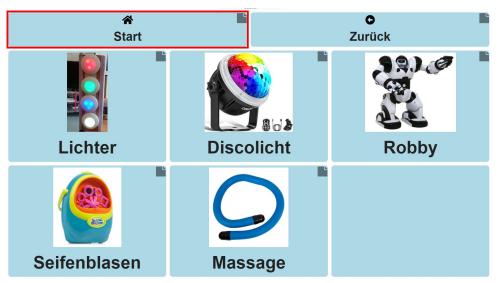
User interface realized with https://grid.asterics.eu/



## **UNICAT: Toy control**

- Infrared remote control
  - Control lights, robot
- Battery interrupter for
  - Bubble machine
  - Massage tube











# Thank you

