

DESIGN (DIS)ABILITY

Fashion design & clothing ergonomics in disability

DONNING & DOFFING

- Range of motion
- Fine motor skills

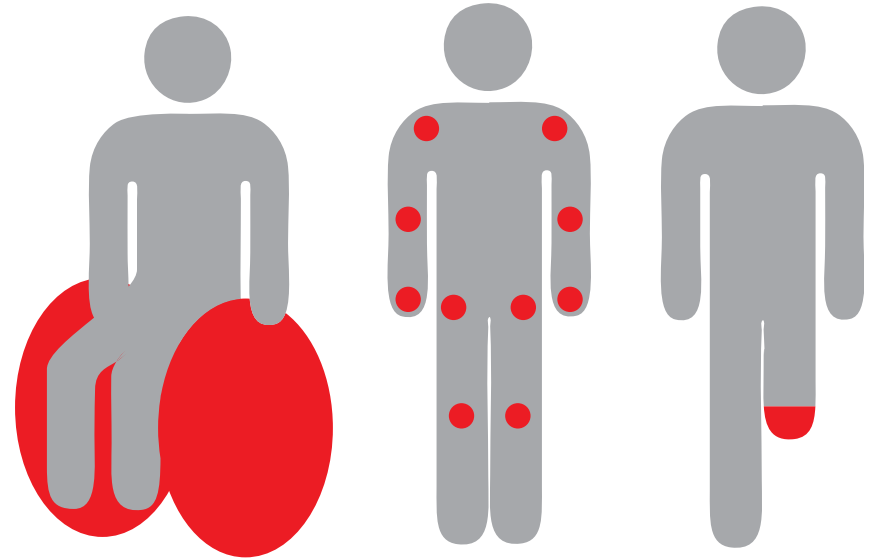
FIT

- Posture
- Body proportions

FUNCTION

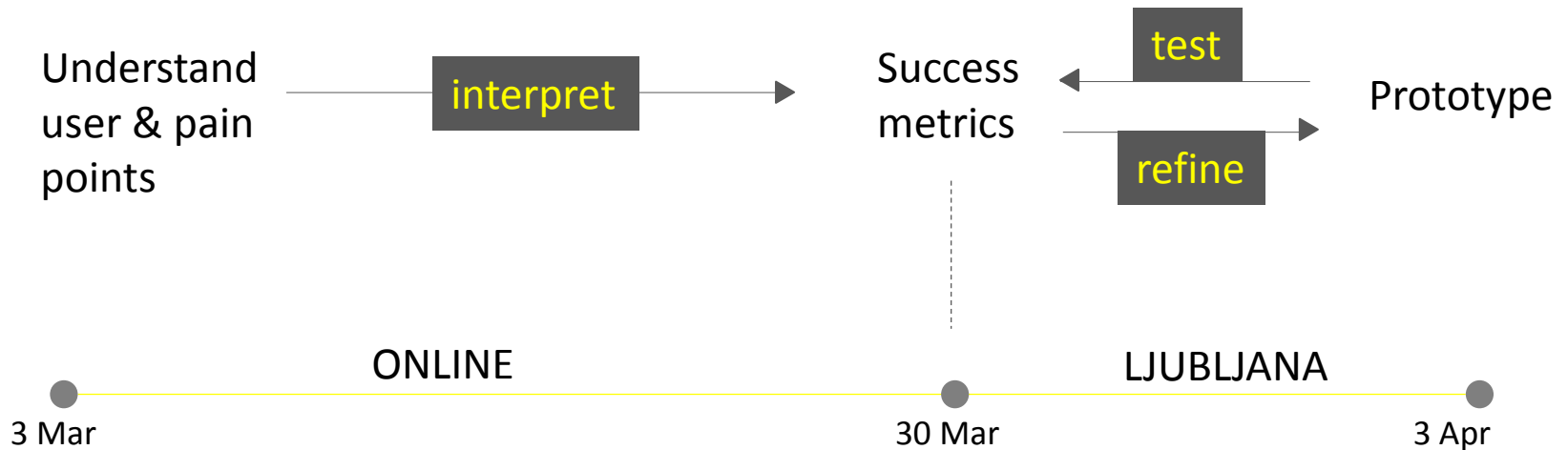
- Warmth
- Comfort
- Protection
- Storage

AESTHETICS



DESIGN (DIS)ABILITY

Workshop – Design stages



DESIGN (DIS)ABILITY

Workshop – Design values

USER-CENTERED DESIGN

1. Understand user needs through occupational therapy *HAAT model* of assistive technology design.
 - Used model to brainstormed questions for user
2. Involve user in prototype testing
 - Daily user testing

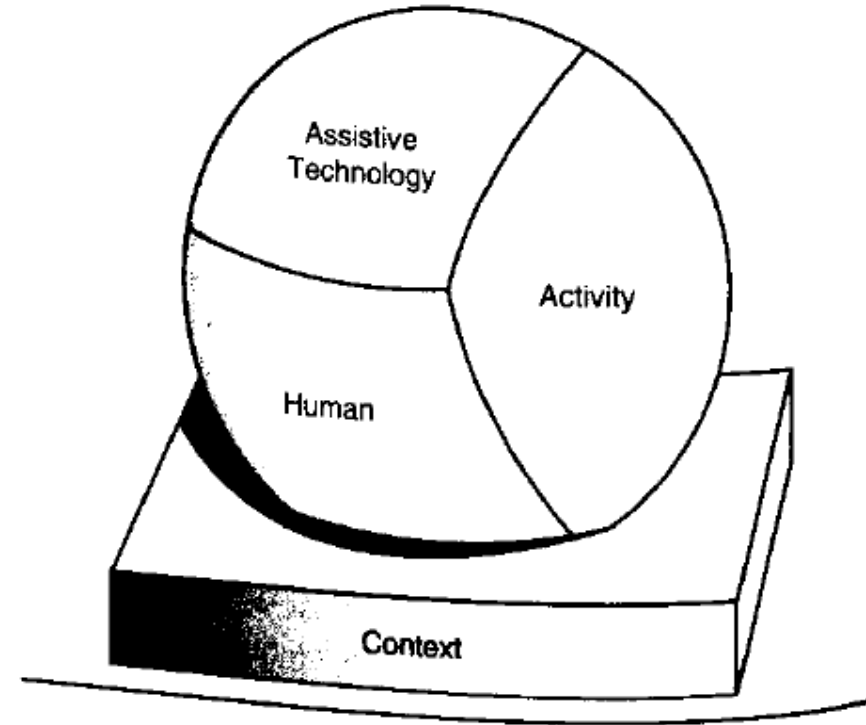


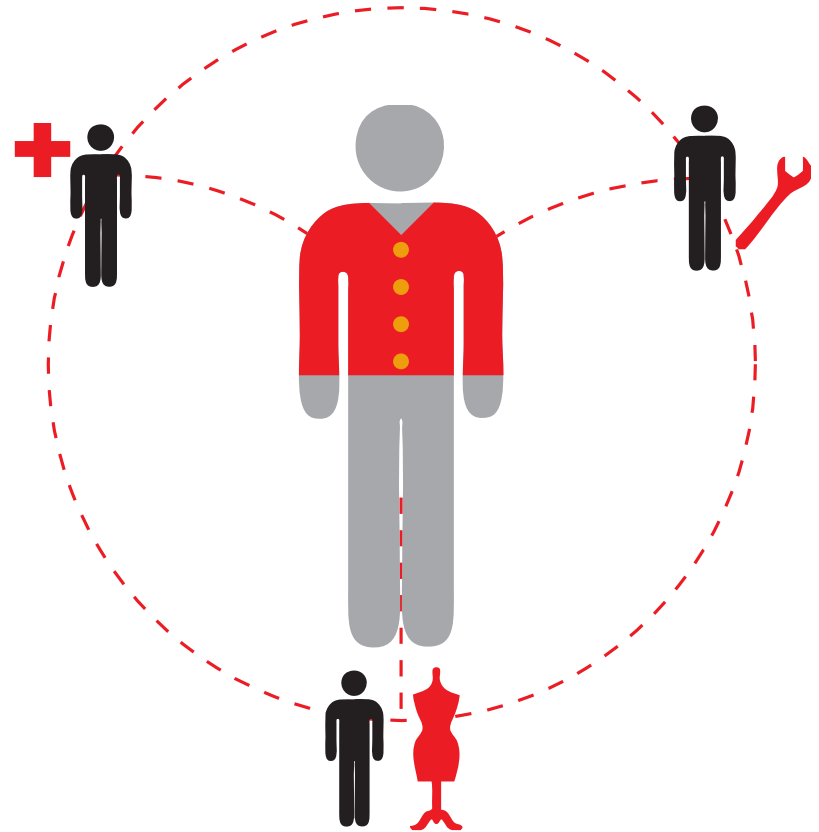
Figure 2-1 HAAT model.

DESIGN (DIS)ABILITY

Workshop – Design values

MULTIDISCIPLINARY COLLABORATION

Combine functional, aesthetic, technical, clinical expertise



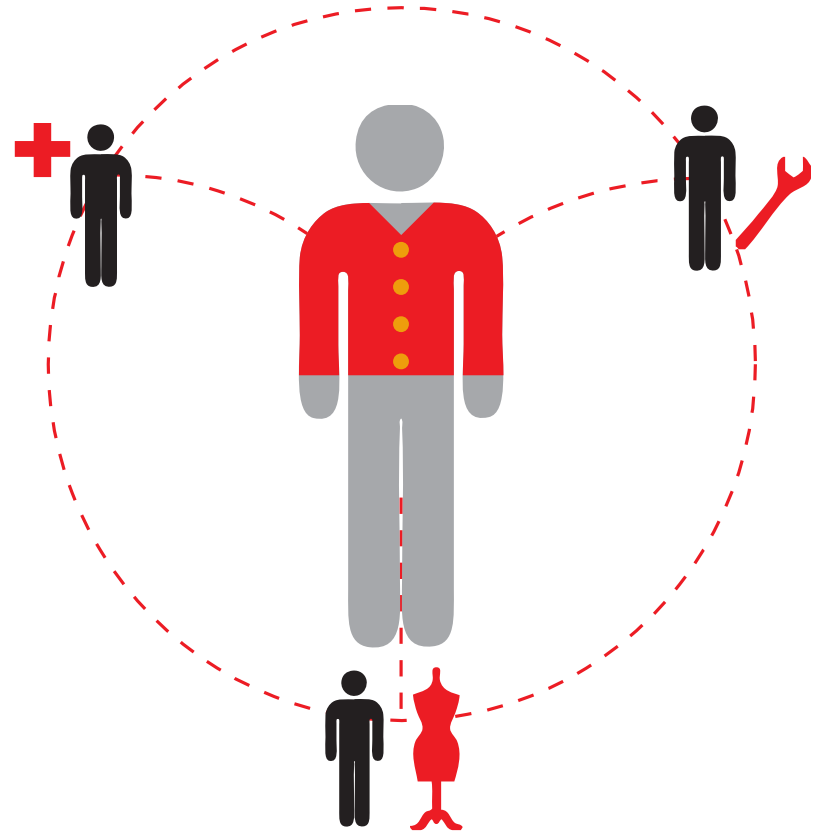
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Workshop – Design values

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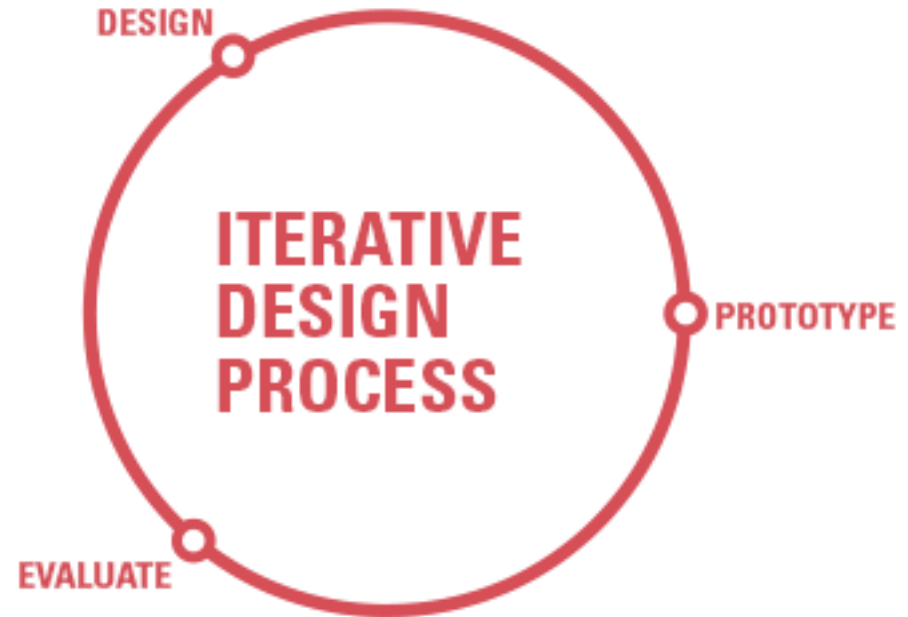
- Special thanks to Sanja Grcic, Tomo Per and Ljubljana's craftsmen & seamstresses!



DESIGN (DIS)ABILITY

Workshop – Design values

ITERATIVE DESIGN &
RAPID PROTOTYPING

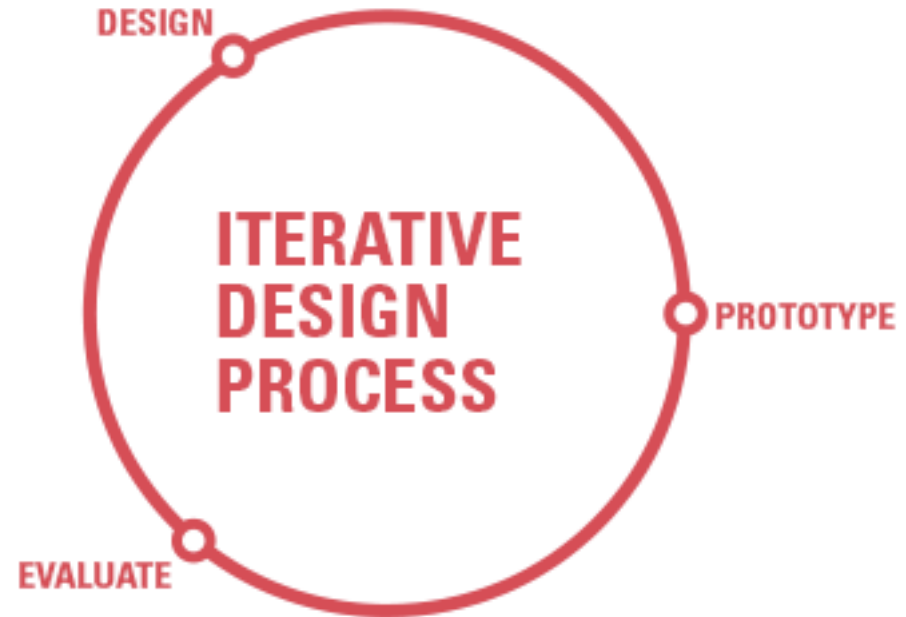


DESIGN (DIS)ABILITY

Workshop – Design values

ITERATIVE DESIGN &
RAPID PROTOTYPING

1. Identify a design solution

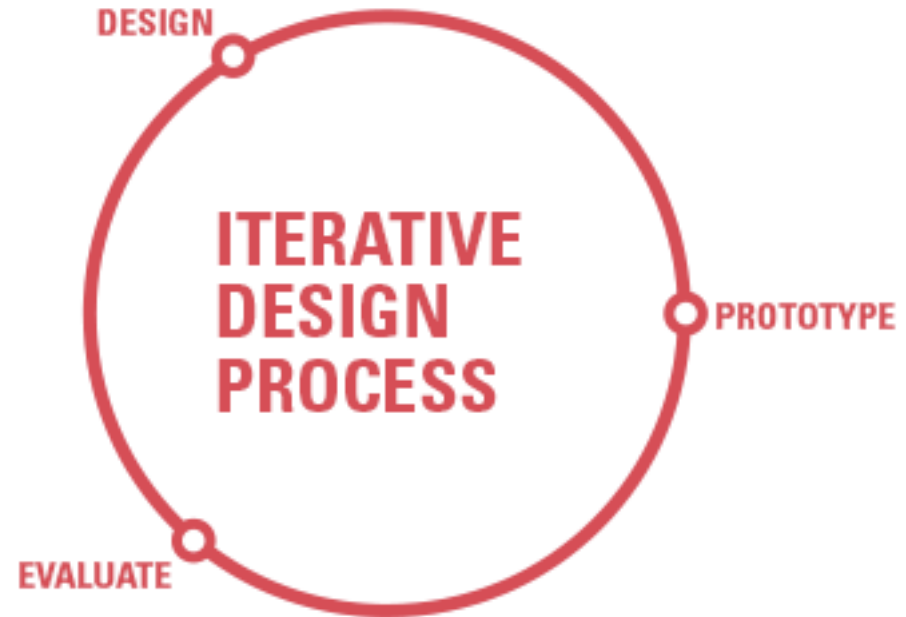


DESIGN (DIS)ABILITY

Workshop – Design values

ITERATIVE DESIGN &
RAPID PROTOTYPING

1. Identify a design solution
2. Prototype 'rapidly'

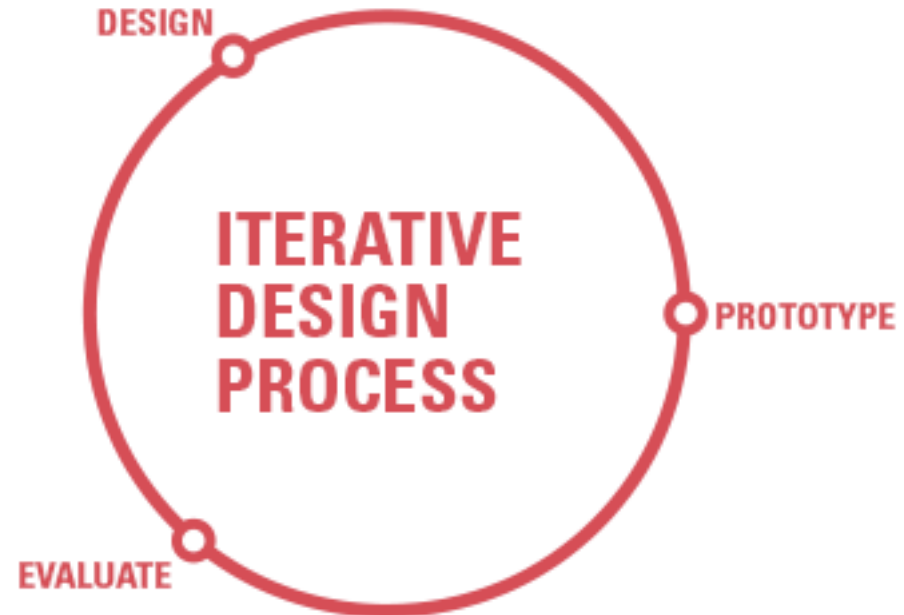


DESIGN (DIS)ABILITY

Workshop – Design values

ITERATIVE DESIGN & RAPID PROTOTYPING

1. Identify a design solution
2. Prototype 'rapidly'
 - In clothing, this is particularly difficult due to the existence & interdependence of multiple variables



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Workshop – Design values

ITERATIVE DESIGN & RAPID PROTOTYPING

1. Identify a design solution
2. Prototype 'rapidly'
 - In clothing, this is particularly difficult due to the existence & interdependence of multiple variables
3. Evaluate prototype against pre-defined success metrics

