Rigid Robot Improve healthcare TP Precise

· Improve healthcare Efficiency & adaptability Efficiency & adaptability Versaility, ease of use, & tailored theraphy Limited learning abilities Limited learning abilities Operational complexity

Operational complexity Over-reliance, & uncertain

Soft Robot

HRIN

HRIP

Rigid Robot

Soft Robot

Emotional connection, comfort, & companionship

- Encourage social interaction
- **Educational support**
- Emotional connection, comfort, & companionship
- Encourage social interaction
- Tactility & human comfort due to life-like features

TL

- Safety risks, & less emotional support
- future prospects

- Dependency & unhealthy relationships
- Decline in human interaction
- Decline in social skills
- Lack of physical warmth
- Dependency & unhealthy relationships
- · Decline in human interaction
- Decline in social skills
- Strong emotional bonds

SA

- Reliability & precision
- Accuracy & consistency
- Quick response time
- Precision, ability to learn & adapt
- Reliability & precision
- Accuracy & consistency
- Quick response time
- Reduces risks of injury to humans and animals

AP

- Emotional support & companionship
- Facilitate natural interactions
- Limited tactile interaction
- Emotional support & companionship
- Facilitate natural interactions
- Foster tactile intimacy & comfort in HRI

R

- Risk of accidents, injuries, & technical failures
- Risk of malfunction or data security breaches
- Faulty algorithms

- Risk of accidents, injuries, & technical failures
- Risk of malfunction or data security breaches
- Environmentally vulnerable

AN

- Lacking empathy & emotional intelligence
- · Lacks human complexity & interaction
- Harming humans in HRI
- Lacking empathy & emotional intelligence
 - Lacks human complexity & interaction
- Misinterpret emotions & false empathy