

### Research and Development of an Electronic, Interactive and Connected Toy. CDTI, Centre for Industrial Technological Development

# Type of Project Ongoing research project

#### Summary

Research is being carried out to develop a connected, electronic and interactive toy that can become an interactive playmate for children with and without disabilities. All elements of access, use, interaction devices, etc., will be based on the premises of accessibility.

#### Low-tech, high-tech products, services and contexts for play

Research is being carried out to develop a connected, electronic and interactive toy that can become an interactive playmate for children with and without disabilities. All elements of access, use, interaction devices, etc., will be based on the premises of accessibility. Taking account the universal design to create a "toy for all"

#### The context of use

Home, but also, it will be able to use in schools and rehabilitation centers.

Symbolic

d8802 parallel play

## Type of play in this play system Cognitive

Symbolic				
Rule play (including videogames)				
Social				
Solitary				
Parallel				
Objectives related to play according to ICF-CY				
Play for the sake of play: Major life areas - d880 enagement in play				
d8800 solitary play				

Community social and civic life - d920 recreation and leisure time d9200 play

#### Play-like activities: Therapeutic and educational objectives

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d3 Communication		
d7 Interpersonal interactions and relationships		

#### Number of participants

>20

3-6 years
6-12 years
Development Age
3-6 years
6-12 years
LUDI Categories of disabilities
Mental/intellectual impairments::
mild
Hearing impairments:
Partially hearing impaired
Visual impairments:
Partially sighted
Communication disorders (speech and language disorders):
Autism Spectrum Disorders:
Explanation on the use of low-tech, high-tech devices, services or contexts
Explanation
Visual instruction with pictures or drawings
Guided discovery: therapist/researcher coaches the participant so s/he discovers how to use the assistive technology
Involvement
Adult: therapist/educator/researcher
Peer with disabilities
Peer without disabilities
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Role
Non-participatory observer  After the instruction, providing supervision during play
Arter the instruction, providing supervision during play
Evaluation of objectives and outcome measures
Description of outcome measure(s)
Observation by professional/researcher providing the play experience
Video analysis
References to the intervention or research project
Noemi Rando
nrando@aiju.info
Contact Person
Noemi Rando
nrando@aiju.info
пинао фициппо

www.aiju.info

### Keywords

Interactive toy, contective toy, Universal design, Accesibility, children with and without disabilities