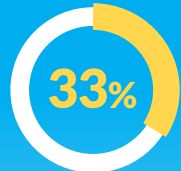




# AI for autism.

Empowering communication



**1/3** of people  
with **autism**  
are **nonverbal**.



Autism in the United States is estimated at 1 in 59 births. (CDC, 2018)

More than 3.5 million Americans live with an autism spectrum disorder.  
(Buescher et al., 2014)

Today, there is no smart tool that enables them to communicate easily  
with their families, friends, teachers and care providers.

**Helpicto™ allows people with a language disorder to communicate!**



## Once Upon a Time...

"Please get dressed and brush your teeth" may seem like a straightforward request from a parent to a child, but if the child has language difficulties or is nonverbal, this simple communication can become a complex problem. For a person with Autism, not being able to understand a question or suggestion can lead to anxiety or frustration and can result in behavioural disorders.

**Equadex**, an IT company based in Toulouse, France, has several employees who have experience with autism spectrum disorder in their own lives.

This opened up discussions with **Impacts**, an association that helps adults and children with ASD.

Together, **Impacts** and **Equadex** created **Helpicto™** to facilitate communication between children on the autism spectrum and their parents, teachers and social workers.

## Helpicto™ has met with great success among young users!

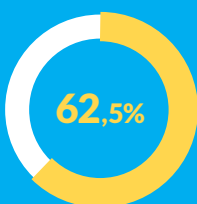
The **Helpicto™** application has been tested on children with ASD between 3 and 18 years who express themselves very little, have very little contact with their peers, and have a limited understanding according to the Evalo BB assessment (Evaluation of the development of the Oral Language; Coquet, Roustit, Ferrand, 2010).

In addition, these children have the following characteristics:

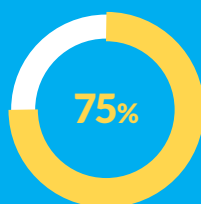
- Behavioral disorders resulting from disability to understand verbal communication.
- A limited understanding of verbal instructions (1 or 2 words maximum) which must be supported by a visual material.

### Results of the study:

**Understanding**  
improvement observed



**Attention**  
improvement observed



**Quality of life**  
improvement observed



**Independence**  
improvement observed



The study showed that after using the **Helpicto™** application, children made **significant progress** in the areas of **comprehension, attention and autonomy**.

Indeed, in terms of autonomy, **participants can now perform personal tasks** (such as getting dressed for example) **independently**.

A positive trend toward a **decrease in behavioural disorders** is also observed.

In addition, the **quality of life of families** has also **improved significantly**.





**Helpicto**® is a personal communication assistant for people with language impairments.

It alleviates communication difficulty with an easy-to-use mobile app that provides a visual representation of language.

On a daily basis, it provides more **interaction & autonomy**, and it makes **inclusion** easier.

You can use **Helpicto**™ anywhere, anytime, with anybody!

*Let's chat now  
with Helpicto™!*

## How does it work?

### — INCORPORATING POWERFUL AI

**Helpicto**™ uses several Cognitive Services REST APIs as part of its standard operation.

When someone speaks a command into the app, the Bing Speech API converts it into a sentence in real time, then the Language Understanding analyses the command to determine its intent. Helpicto™ uses this information to retrieve the appropriate images from its database. For example, the question, “**Do you want to eat an apple?**” produces pictures of the child, the action of eating, and an apple, along with on-screen buttons for “**yes**” and “**no**”.

*“One great advantage of Cognitive Services is that they are learning all the time, so Helpicto just keeps getting better and better”*  
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For more than 10 years Equadex has been developing its products in strategic partnership with Microsoft, and **Helpicto**'s technology is a result of this expert combination.

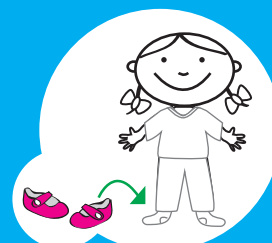
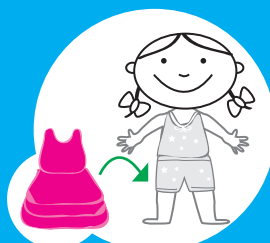
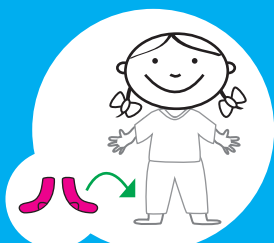
### — INCORPORATING A COMPLETE LIBRARY OF PICTOGRAMS

Thanks to a partnership established with the Canadian pictogram system **IDEOpicto**, users can create a personal profile in the **Helpicto**™ app and get access to a complete library of pictograms already available and divided into several catalogues.

**IDEO picto**  
portatif • magnétique • pratique

## What features have already been developed?

- Use 1 account across multiple devices: smartphone, tablet and desktop.
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- 3000+ pictograms included.
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# Helpicto<sup>©</sup>

Helpicto helps people with a language disorder  
to communicate better.



Follow us!



[WWW.HELPICTO.COM/EN](http://WWW.HELPICTO.COM/EN)

**EQUADEX**  
DIGITAL FRIENDLY

[contact@helpicto.com](mailto:contact@helpicto.com)

8 chemin de la terrasse  
BP 45122  
31500 Toulouse  
FRANCE







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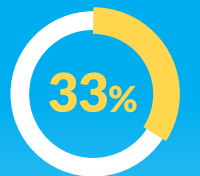
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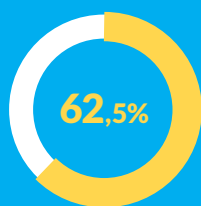
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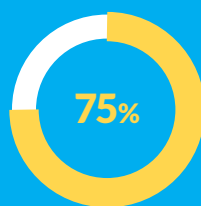
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