

# Telepresence Robots in Education

With Specific Reference to Aobot's Teleport

Making the learning environment accessible for everyone

Applications Within the Corporate Environment:

- Children with an Illness
- Children with a Disability
- Children in Remote Locations
- Museums and Educational Attractions
- Etc.

## **Children with an Illness**

When a child is absent from school for a prolonged period, it can deeply affect their academic performance and emotional wellbeing. For many, the affects can be felt far into adulthood. Studies have shown that overall salary earned is strongly correlated to educational attainment. For example, in the US, individuals who did not graduate from high school earned \$181 less weekly than their peers who did. For sick children, prolonged absences may mean it is difficult to achieve adequate level of school leaving them disadvantaged for the remainder of their life.

In Australia, 60,000 children are absent from school every year due to sickness or injury. Similarly, within the US, 4% of children under 12 missed more than 11 days of school from sickness or injury in the past 12 months. As a result, these children are a risk of falling behind or experiencing feelings of isolation.

Teleport enables sick children to have the support of their peers, be able to interact in lessons, and meet their educational objectives. Now children with prolonged absences can be brought into the classroom while recovering at home.

## **Children with a Disability**

Children with disabilities frequently do not achieve the same levels of educational attainment as other children due to lack of resources or support within their geographical area. In Australia, 7% of children possess some form of disability. Of those, 11% have disabilities which restrict their schooling. Consequently, just 41% of people with a disability have completed high school compared to 64% of those without a disability. Furthermore, children with disabilities also experience feelings of isolation and exclusion as schools struggle to give them additional support. As a result, 80% school principals stated that they did not feel that they had adequate resources to support their students with disabilities.

Teleport makes it easy for the families of these children to access much needed resources in other parts of the world, significantly improving their quality of life and educational attainment. This enables children who may be home bound to experience the classroom environment and interact with other children.

## Children in Remote Locations

In vast areas of Australia, it can be difficult for children and their families to have access to the education that they need. In remote areas, 50% of children stop studying before the age of 17 compared with 2.5% in urban areas. Similarly, the percentage of remote students who achieve their educational milestones is lower at every stage compared to students in cities. 50% of students in remote locations completed high school compared with the Australian national average of 74%. Furthermore, the lack of access to adequate resources leads to lowered educational goals and demotivation. Children in remote areas were found to be more likely to miss school, drop out of education early, and not attend university.

Teleport enables children in remote areas to receive the same level of education as their peers in a metropolitan setting and interact with other children in a classroom setting. The robot removes the barriers facing children in remote areas such as staff shortages and a lack of resources by placing them in an environment where they will be able to thrive.

## Museums and Educational Attractions

Museums and other educational attractions are fundamental in encouraging children to learn, shaping their future ambitions, and generating their interest in a wide array of topics. In a 12 month period, the average Australian child visited a museum or gallery 3 times. Teleport makes it easy for children to visit museums around the world while in the comfort of their classroom. Saving money and travel, Teleport enables schools to offer a rewarding curriculum while avoiding financial and logistical issues.

## Sources

Australian Bureau of Statistics (n.d.). *Cultural Venues and Events*. Children's Participation in Cultural and Leisure Activities. [online] Available at: <http://www.abs.gov.au/ausstats/abs@.nsf/Latestproducts/4901.0Main%20Features4Apr%202012?opendocument&tabname=Summary&prodno=4901.0&issue=Apr%202012&num=&view=> [Accessed 25 Jan. 2019].

Virginia Commonwealth University. (2015). *Why Education Matters to Health: Exploring the Causes*. [online] Available at: <https://societyhealth.vcu.edu/work/the-projects/why-education-matters-to-health-exploring-the-causes.html> [Accessed 23 Jan. 2019].

House with No Steps. (n.d.). *Disability statistics*. [online] Available at: <https://www.hwns.com.au/about-us/about-disability/disability-statistics/> [Accessed 24 Jan. 2019].

MissingSchool. (2019). *Telepresence - MissingSchool*. [online] Available at: <http://missingschool.org.au/telepresence> [Accessed 30 Jan. 2019].

Mitchell Institute (2015). *Young People in Rural and Remote Communities Frequently Missing Out*. [online] Available at: <http://www.mitchellinstitute.org.au/fact-sheets/young-people-in-rural-and-remote-communities-frequently-missing-out/> [Accessed 24 Jan. 2019].