VR AND ROBOTICS TO TREAT PARAPLEGIA

Alexandre Leveque-Issacar - Valentin Voisin- Keltoum Boukra - Austyn Tempesta

WHY ?

- **5.4 million** people suffering from paraplegia

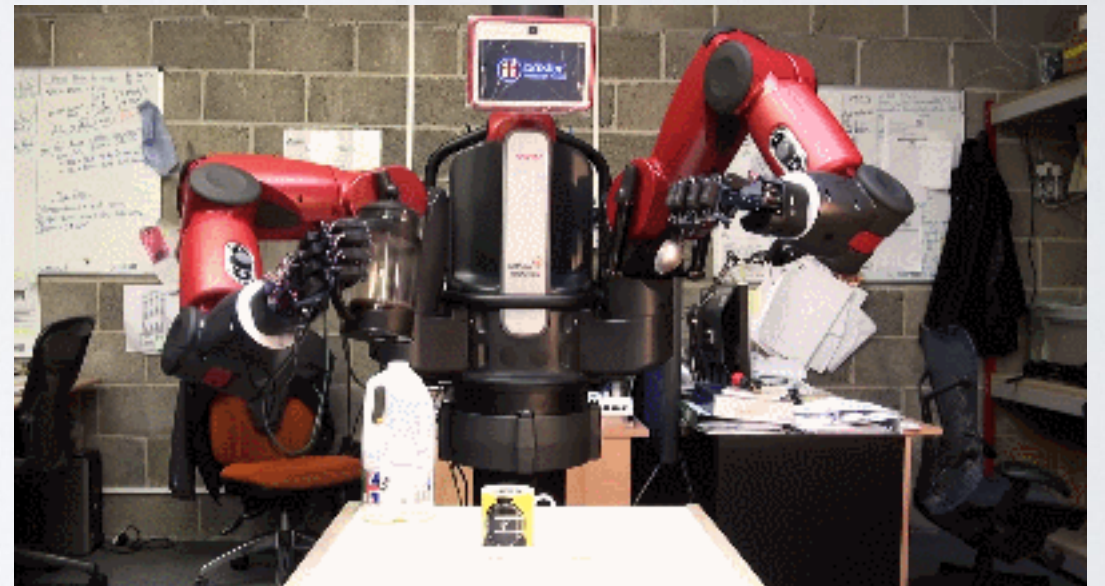- Gives people with paraplegia more **freedom** and **independence:**

Cooking and eating - Getting dressed - Staying safe

(among other things…)

HOW ?

Hardware:

- Computer running on Windows
- Computer running on Linux
- Oculus Rift (VR helmet)
- Xbox One Controller

HOW ?

Software:

- Unity
- Oculus
- Ros Kinetic
- Gazebo
- Google Cloud Platform
- Docker
- GitHub

BUT, WHAT DOES IT DO?

- Integrates a human into a robotic interface in allowing interactions with the world using VR

- People are able to grip objects using remote control

- Data can be stored

Now... DEMO!

THANK YOU!

https://github.com/keltoumboukra/VRTreatedParaplegia