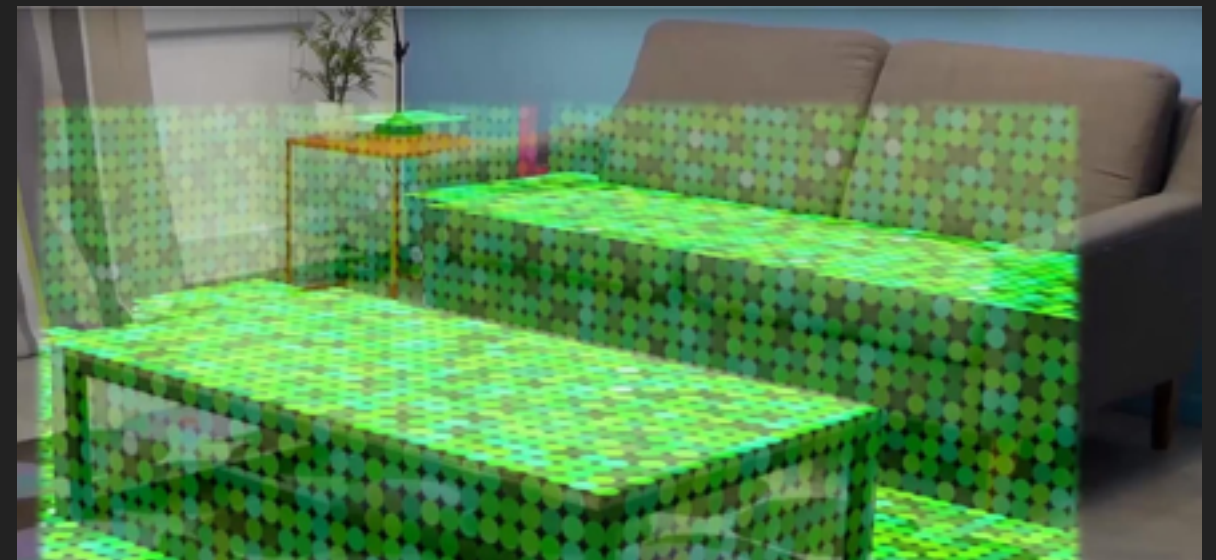# AR DIVISION

EVERCHANGING ROOM

AR TECHNICAL RESEARCH

▸ Investigate possibilities on AR applications, using existing cut-edge emerging technologies

▸ Unity3D as 3D framework, using third party plugins

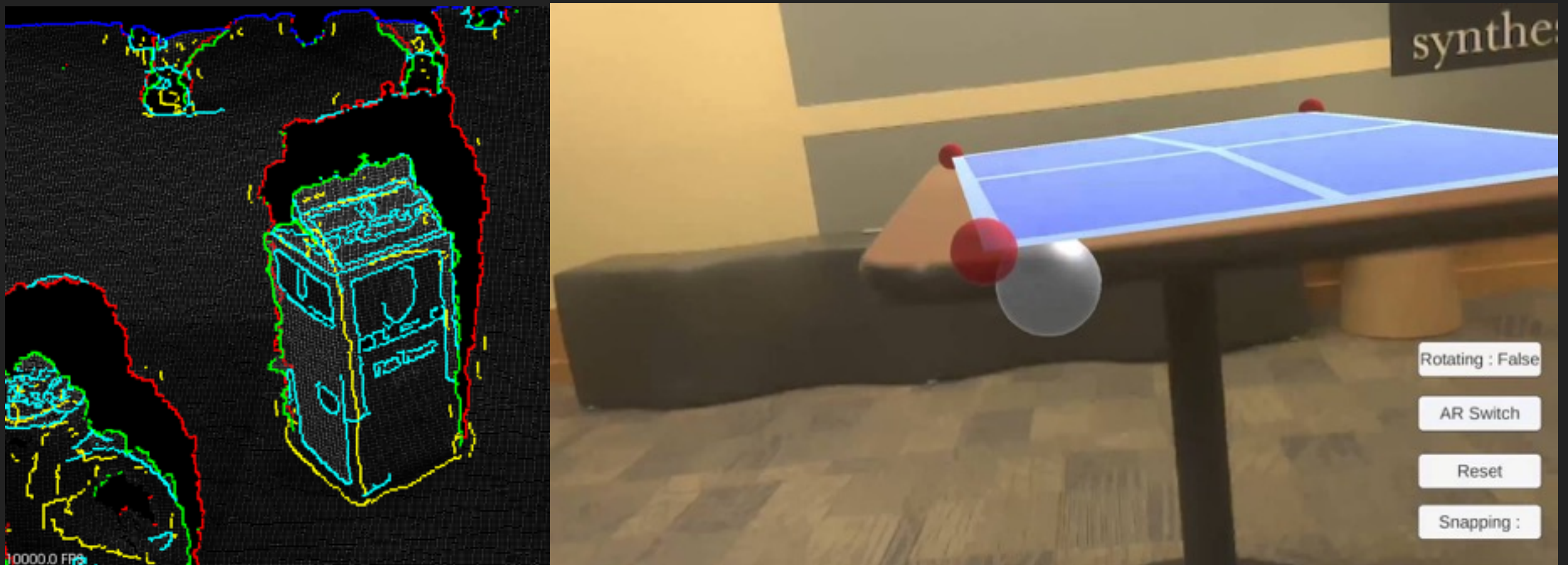▸ Apple ARKit for ios11

▸ Vuforia (Android)

SPATIAL AWARENESS

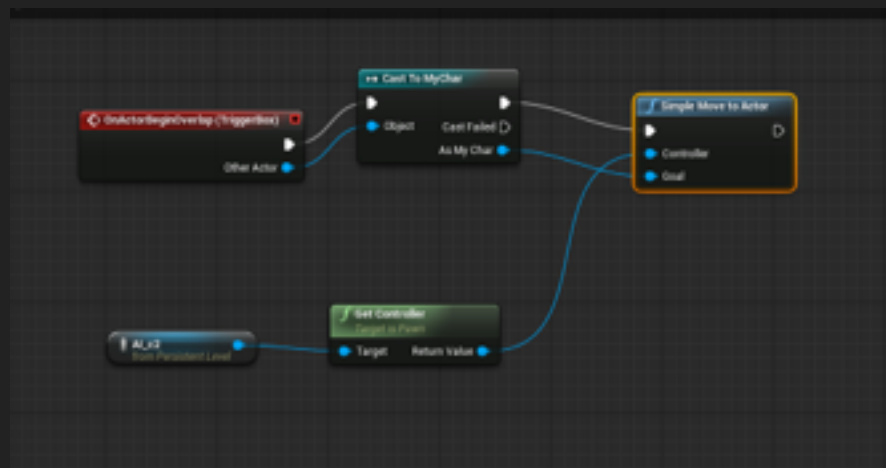▸ Integrating the virtual world in the real world architecture

OBJECT RECOGNITION

▸ Creating smart interaction between the real and virtual worlds.

PERSISTENT AI / MACHINE LEARNING

▸ An important goal in our research project will be to create several AI's that allow entities to evolve and live constantly through time, with or without user interaction.

▸ These entities will be affected by user interaction in the spirit of the tamagochi games, but also will be affected by external factors like weather, time, or proximity of other virtual entities.

▸ These ai's will most probably incorporate machine learning algorithms so entities can learn through time, not only tricks but also how to adapt better to the environment.

AR GARDENS

▸ Grow your own exotic garden in your room.

▸ Turn your walls, tables, and beds into beautiful shades of moss, exuberant tropical jungles, or delicate flower fields.

▸ Buy special seeds to generate alien vegetation with unexpected features and genetics.

AR AQUARIUM

▸ Have your own aquarium in your room.

▸ Fill it with colourful fish and relax watching them evolve.

▸ Wide range of fish and accessories to build a more and more sophisticated environment.

▸ Have a simple aquarium box with gold fish, or turn your room floor into a pool with electric rays, sharks and jelly fish

AR PETS

▸ Enjoy your own pet and observe how he lives and evolves inside your room even when you are not there.

▸ Take care of his necessities and have fun playing with him in the same real environment as you.

▸ Learn how it would be to have exotic pets like snakes, leopards, monkeys or owls as training if you intend to have a real one one day.

▸ Experiment with fantasy pets, mixing genetics and defining strange features, and share them with your friends.

▸ If you really want to go wild, turn your room into your own zoo or natural ecosystem, with dozens of species interacting with each other.

AR GAMES

▸ Escape the room

▸ Table-top star-wars chess like

▸ Racing miniature cars

▸ Miniature world composer

CONCLUSION

▸ We need to be prepared to adapt to the new wave of changes that is coming.

▸ Really a lot of possibilities will open up.

▸ We need to research an develop a software structure that allows us to release different applications quickly in the times to come.

▸ Great opportunities for monetisation.