

## Green Kids' Museum

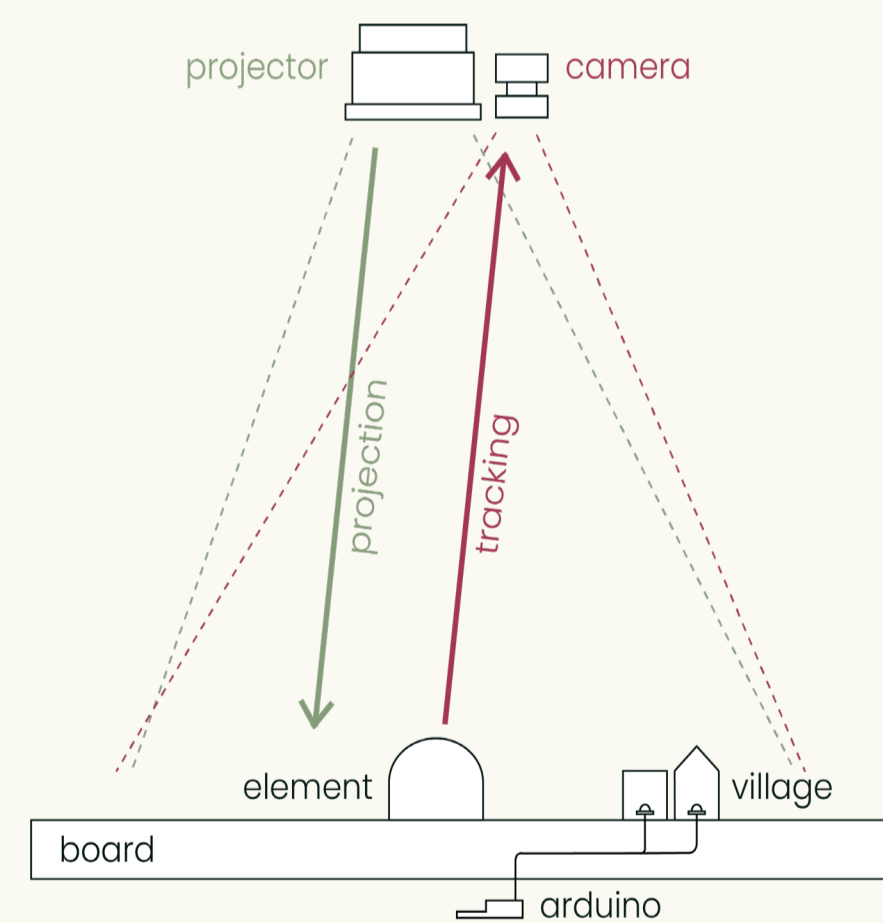
The Green Kids' Museum Kenya will be the first interactive children museum in East Africa. The museum will become a place for children of age 6 to 14 to learn, inspire and explore, with sustainability at its core. To support this goal an interactive installation to playfully foster awareness around renewable energy was designed. For the target group of children aged 9 to 11 living in the Nairobi metropolitan area.

## Geotricity

With Geotricity aims to provide a play-based learning experience, as this is an effective and engaging way to educate children. Geotricity challenges the children to provide energy to the houses on the table. To accomplish this, the children can place elements that represent renewable energy power plants. Placing an element causes the projection to change accordingly. If a power plant is placed in a correct position, the lights in the corresponding houses are turned on. Through exploration, experimentation and reflection the child will learn about the implementation of the different renewable energy plants.

## Technology

To provide this experience, the elements are tracked. As soon as a child places an element on the table, it is linked to the projection of the corresponding power plant. As soon as a power plant is implemented correctly, a message is sent to the Arduino. The Arduino attached to the bottom of the table will in turn illuminate the nearest houses.



# G E O T R I C I T Y

Playfully foster awareness around renewable energy



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July 28 2022  
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