



DEVELOPMENT OF THE AREA OF GIRIONYS

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The region we took over for this project is Girionys. When we first got in touch with the area, we could see a lot of green places but lack of facilities and installations that can make the local's life easier. After a sort conversation we had with the residents and some municipal officials of the area we found out what are the most important missing points. The first and the most important problems we discussed were the broken benches, the lack of lights, playgrounds in bad conditions, no resting places (cafes, pubs etc.) and facilities like gym for the adults. After a deeper research we could see the shortage of safe bicycle lanes and beach facilities for the summer season. After all this conversation about the problems and the possible solutions that we discussed with our interlocutors, we were informed that one of the biggest parts of our area is covered by parks and especially trees that have emotional value for the region of Girionys. This was the biggest challenge of our project as we had to exploit every possible area that was not covered by trees in order to adapt our final ideas.



In the first place, we thought that it would be a good idea to create a place where the whole family would enjoy, and parents will be able to watch their children while they are playing. As a result, we combined two different ideas in the same area. The playground and the cafe. The playground is going to have both interior and exterior part, so that kids can play during the winter too. Afterwards, we created a parking lot nearby this area so that the visitors and the locals can park their car in a more organized and planned way. Considering the main square with the two important parks, we decided to put some benches, across the sidewalk, providing facilities such as Wi-Fi and sockets for charging electronic devices by taking solar energy. In order to make the square more beautiful and friendly, we added some flowers, some statues that represent the liberty and some historical figures. Furthermore, near the square we designed one more cafe-bar that is quite far from the playgrounds, so that every resident can have a break time when they want to enjoy their coffees in a quiet and cozy place. Another facility, that was one of the most important requests from the community, is the construction of a gym. It will be a two-floor building with facilities for all people of all ages. When it comes to the beach, we planned an organized area with umbrellas and a beach-cafe-restaurant that the people can go there in the summer and enjoy their time alone or with their families. Finally, the installation of water sport activities may increase the profits of the community and the motivation of young people to be involved with the sports.



TRADITION



HAPPINESS



TECHNOLOGY



SUSTAINABILITY



INNOVATION





- LEDs need less energy
- Street lighting bills go down by 50%-70%
- Low-carbon
- Reductions in GHG emissions/ general well-being. Remote on-off control, dimming, and scheduling functions are quick wins of connected street lighting
 - broadband connectivity
 - traffic light controls
 - traffic management
 - air quality and noise monitoring
 - public safety through HD video
 - pedestrian footfall sensing



Aluminum bench

- Can be recycled many times
- Recovery rate about 95%
- Durable in cold (lasts up to -250 °C)



Solar bench

- Takes energy from sun
- WIFI for pedestrians
- USB for charging electronic devices



Red asphalt

- Smoother surface than concrete
- Can last in many weather conditions
- Is recycled material
- Less slippery
- Consists of bitumen, asphalt cement, aggregates



Ferrock for sidewalks

- Steel dust and silica
- The iron reacts with CO₂/better for the environment



Recycled plastic

- Cheaper 8% than cement
- Better for the environment
- Lasts from -40 to 80 °C



Robina

- Biodegradable special wood
- Recycled materials
 - Steel and aluminium
 - Less deterioration from the sun impact
 - No toxic paints

-  BENCH
-  STREET LIGHT
-  STATUE
-  BEACH FACILITIES
-  BUS STATION
-  PLAYGROUND
-  GYM
-  CAFÉ
-  PARKING
-  BICYCLE LANE

