SUSTAINABLE DEVELOPMENT GOALS
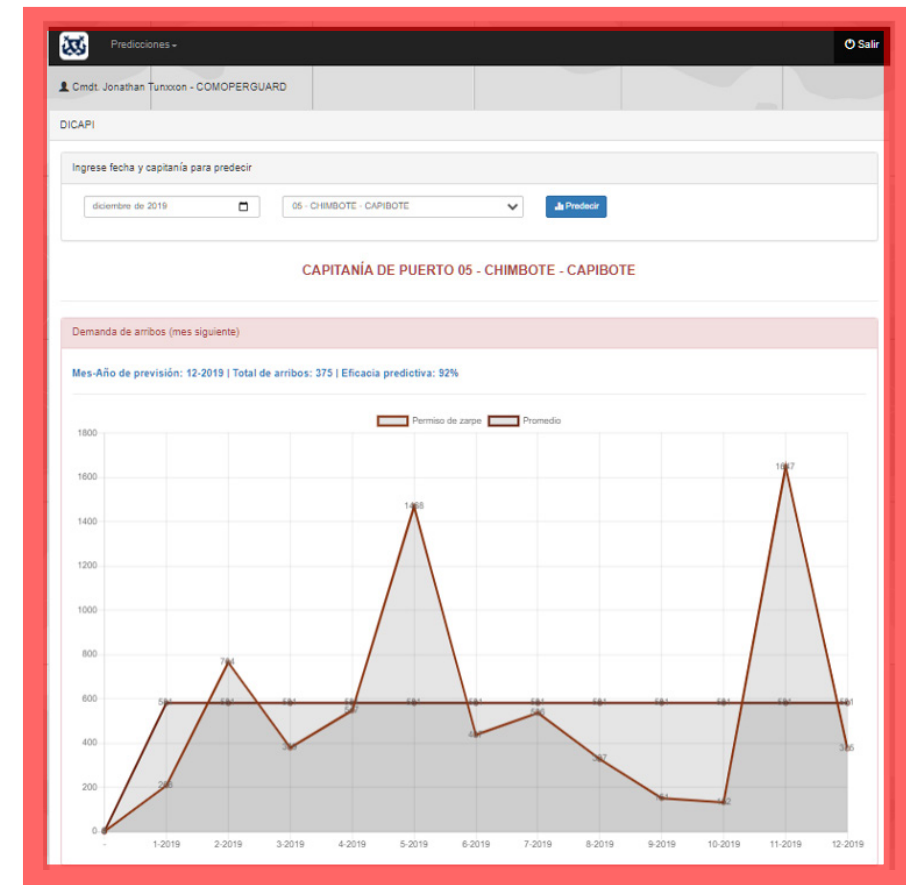
9 INDUSTRY, INNOVATION, AND INFRASTRUCTURE

Departure and Arrival Forecast System using Machine Learning Algorithms for the Peruvian Maritime Authority

In 2021, UPC's Systems Engineering Program for Working Adults (EPE) developed a Departure and Arrival Forecast System using machine learning algorithms, which consisted of a web application to predict the permits of fishing vessels in 19 seaport harbormasters through the use of machine learning algorithms, in order to help management in decision making.

This activity was for the benefit of the Harbormaster and Coastguard Authority (DICAPI), which is responsible for regulating and ensuring the safety of human life, the protection of the environment and its natural resources, as well as repressing all illegal acts, exercising control and surveillance of all activities carried out in the aquatic environment, in compliance with the law and international agreements, thus contributing to national development.

Surveillance System for the Use of Biosafety Equipment with Image Recognition for Work Spaces

In 2021, UPC's Software Engineering Program developed a surveillance system for the use of biosafety equipment with image recognition for work spaces. The project consists of the development of a system that, through image recognition, automates control over the use of biosafety equipment. The system will allow for the control and generation of alarms in case of non-compliance with the regulations.