

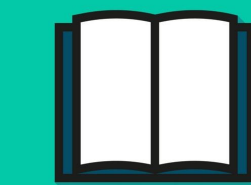


THE QUALITY OF WATER

Milan, February 2019

ABOUT ME

Work experience



Study



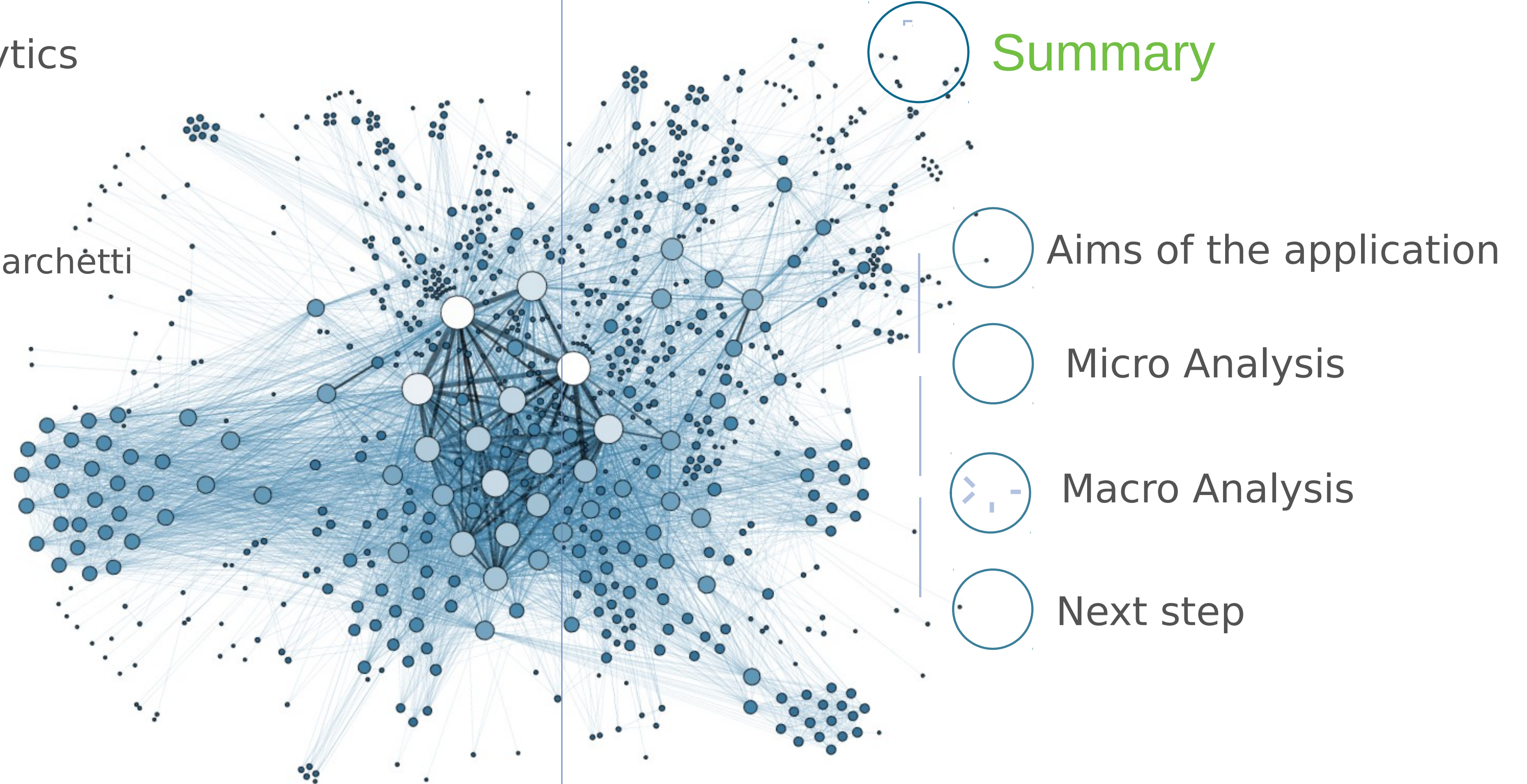
Passion



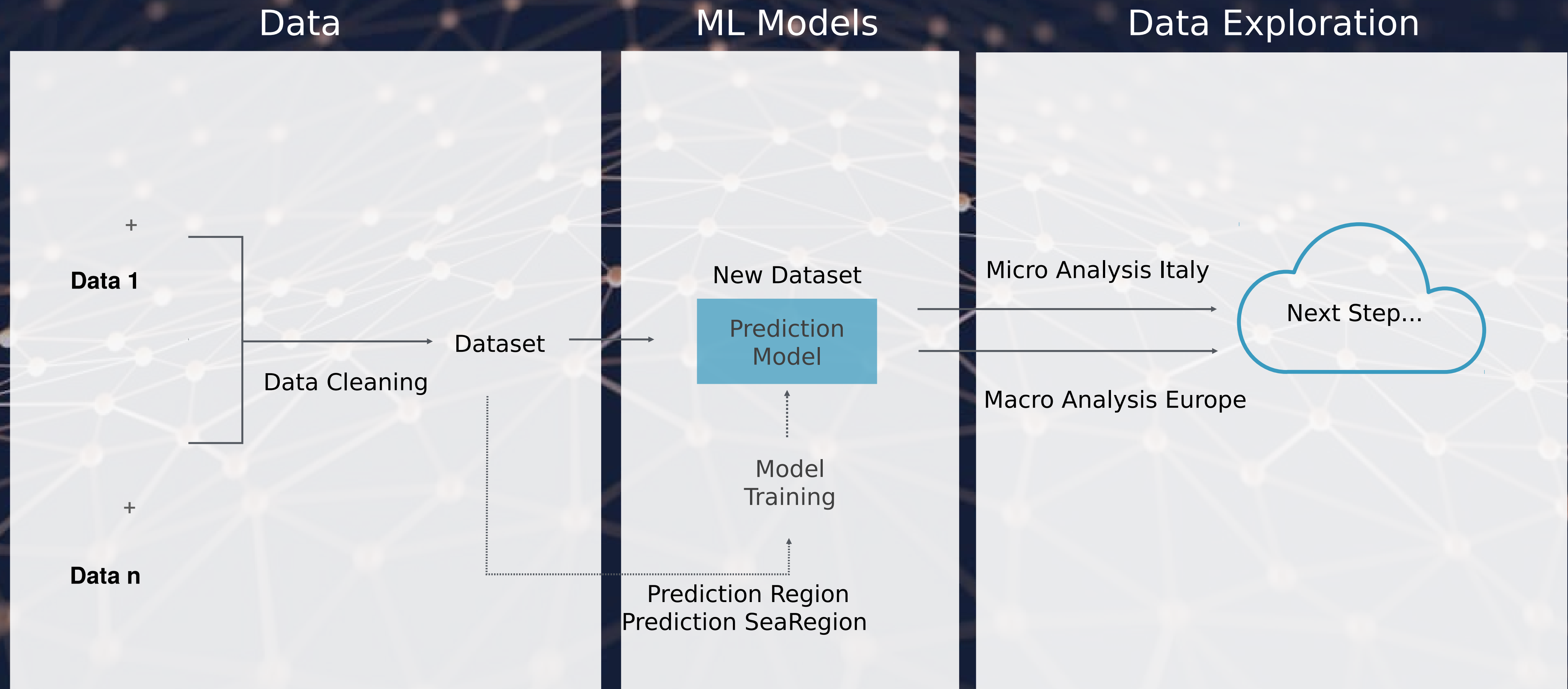
PROJECT

Data & Analytics

Team: David Marchetti



Goal: Develop a Data Exploration





Micro Analysis – In Italy



METRIC

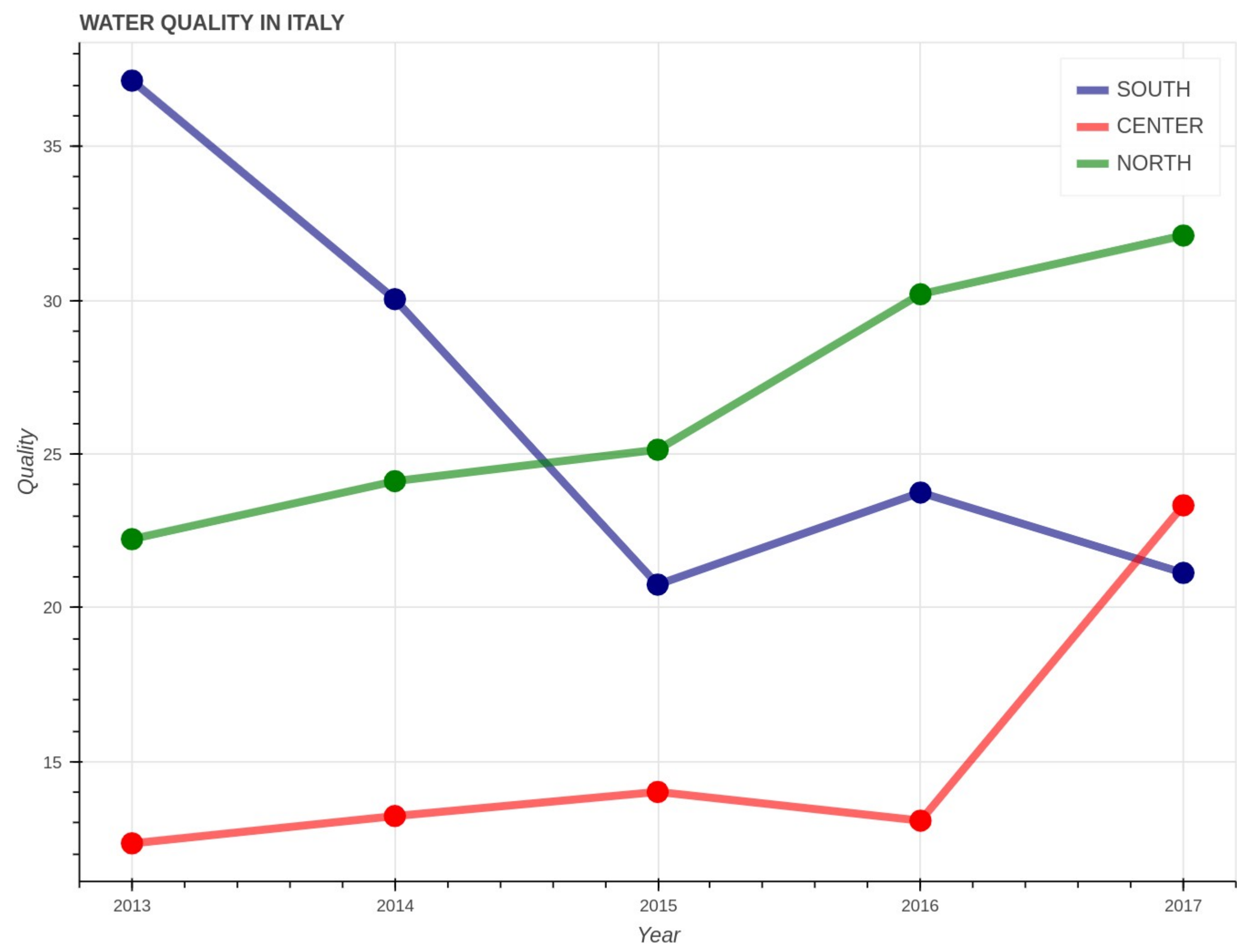
I created a simple numeric **Metric** for evaluating the quality of the water. It is a simple weighted average where the weights are the ratio between 1 and the frequency of water quality.



We have too many **excellent** and few **poor** and **sufficient**.

So this metric is corrected on this problem.

IN ITALY...



An aerial photograph of a rugged coastline. The image shows steep, rocky cliffs with patches of green vegetation. The water is a vibrant turquoise color near the shore, transitioning to a deep blue further out. A small, sandy beach is visible at the base of the cliffs. The text "Macro Analysis in Europe" is overlaid in white, bold, sans-serif font, underlined, across the middle of the image.

Macro Analysis in Europe

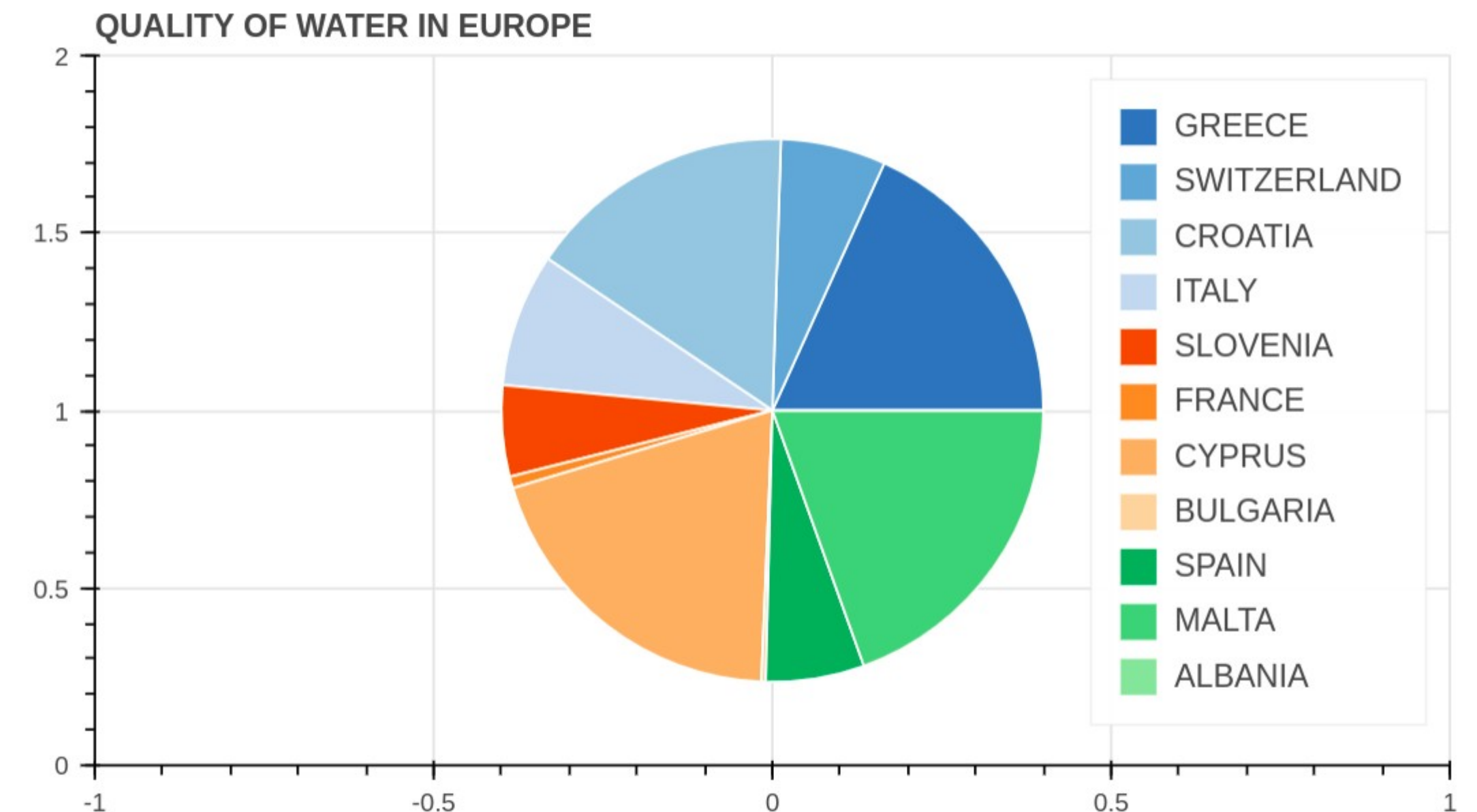
IN EUROPE...

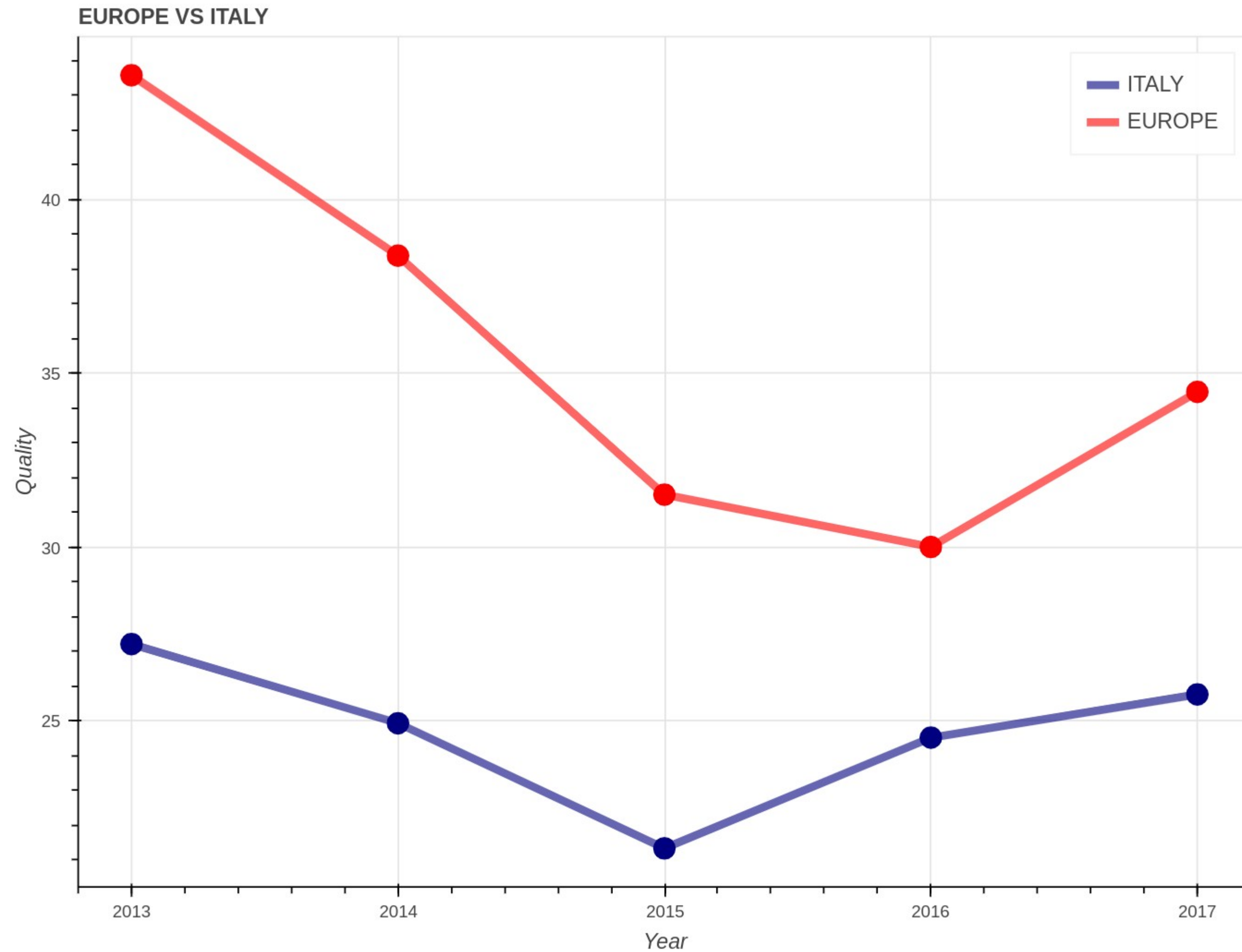
	y2013	y2014	y2015	y2016	y2017	mean_quality
ALBANIA	NaN	NaN	2.90156e-10	0.000158811	0.00128314	0.000481
BULGARIA	NaN	0.866027	0.422446	1.3063	0.697885	0.823165
FRANCE	1.78285	1.81113	2.06754	2.21603	2.92824	2.161159
SLOVENIA	46.1965	8.1308	8.32763	1.65191	20.0888	16.879116
SPAIN	16.8857	17.2393	17.9552	19.4993	19.8345	18.282826
SWITZERLAND	57.4407	6.47788	9.90544	11.9772	11.8631	19.532866
ITALY	27.2067	24.9293	21.3329	24.474	25.764	24.741360
CROATIA	39.1819	42.4981	53.3818	55.8868	59.2033	50.030366
GREECE	44.767	59.9012	61.0567	59.0865	58.9113	56.744536
MALTA	60.7649	61.5552	59.9848	60.7649	60.7649	60.766924
CYPRUS	61.5552	61.5552	61.5552	61.5552	60.9349	61.431129

There are some cases where Switzerland and Slovenia to decrease year after year.

We can see than in Europe there are three different class:

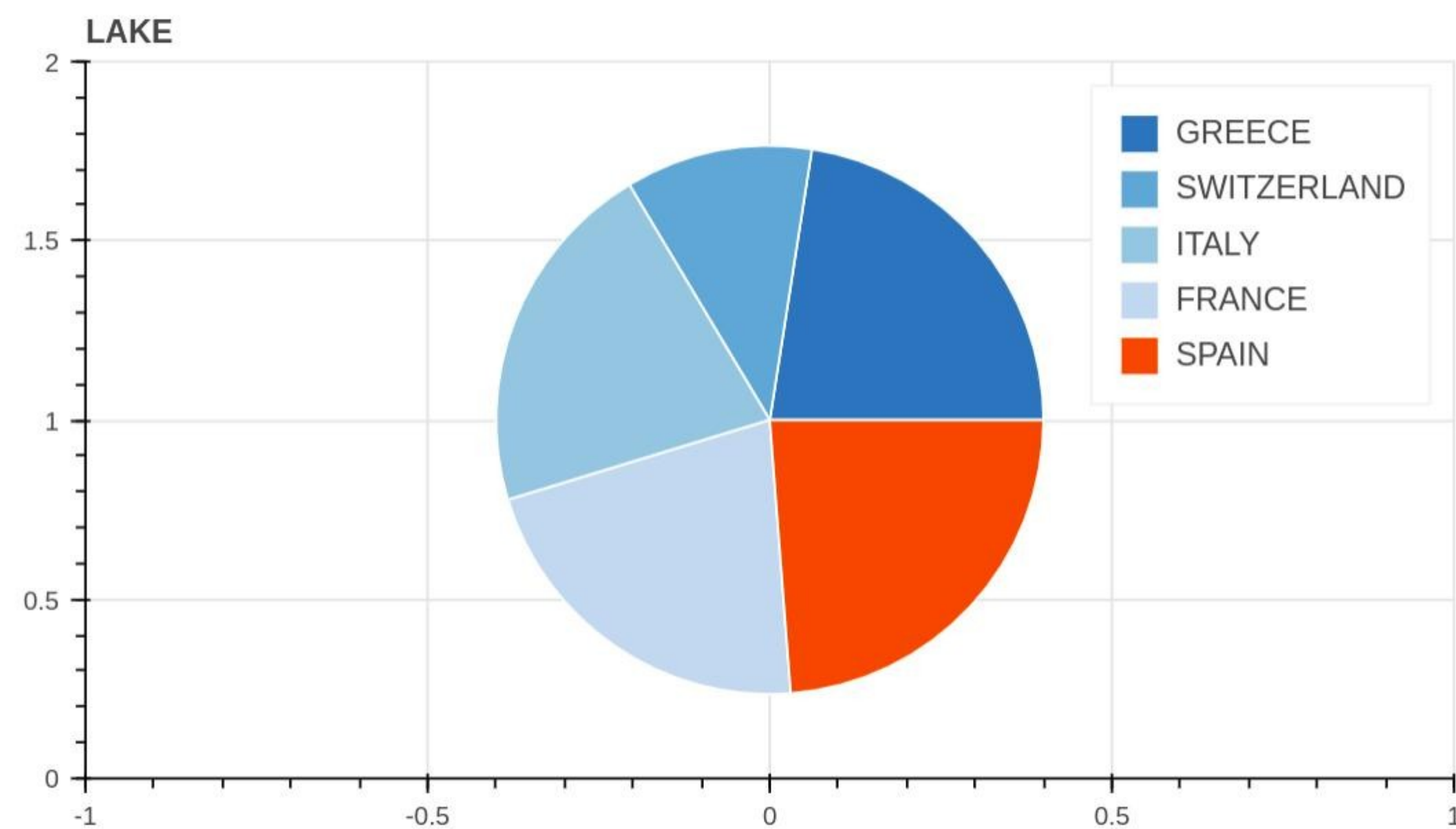
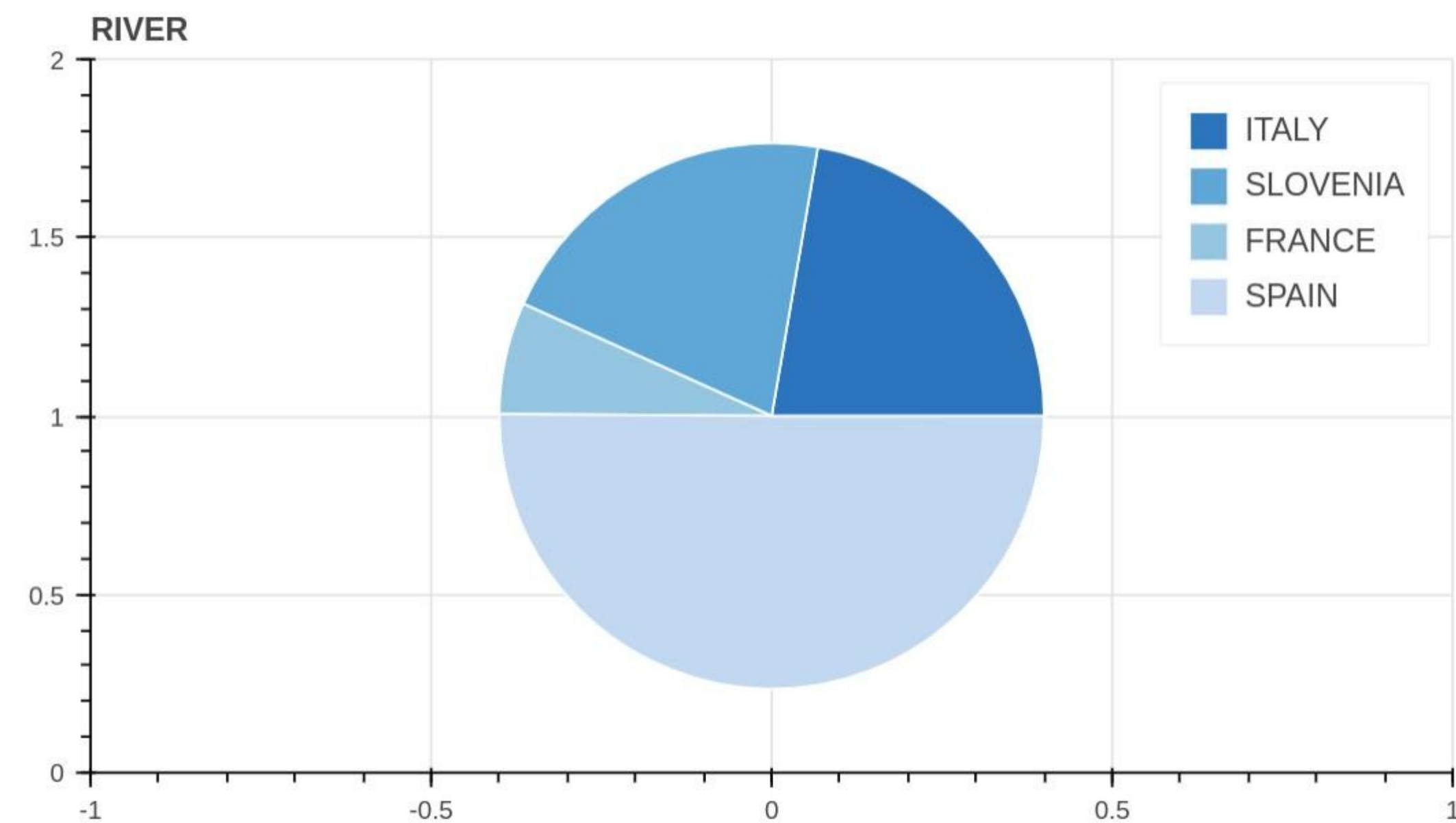
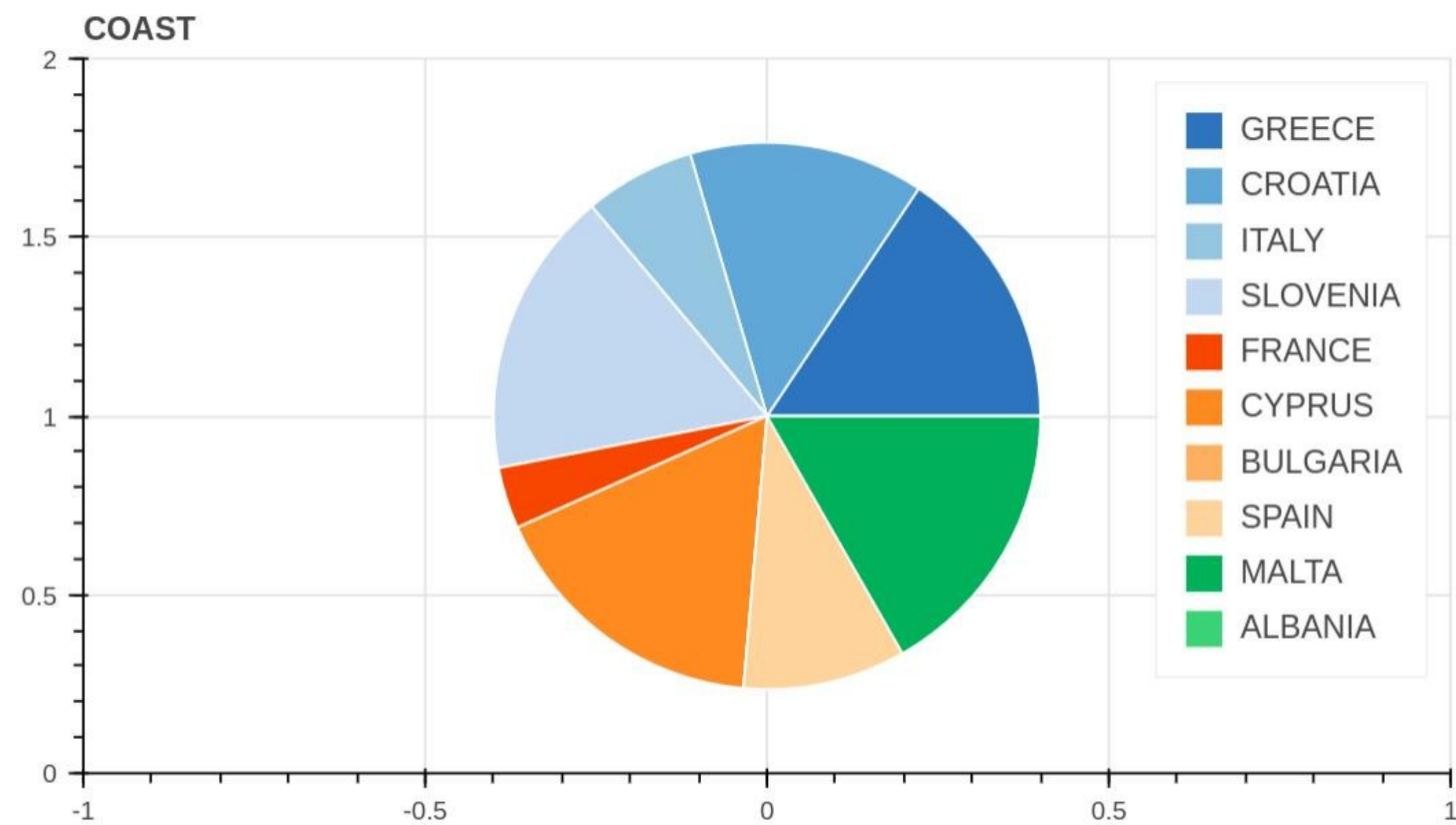
- ALBANIA, BULGARIA and FRANCE
- SLOVENIA, SPAIN, SWIZERLAND and ITALY
- CROATIA, GREECE, MALTA and CYPRUS





IN EUROPE...

- INCREASE IN QUALITY YEAR AFTER YEAR
- WE ARE CONSIDERING ANY **SOURCE OF WATER:**
 - RIVER
 - LAKE
 - COAST
- SO...



A wide-angle photograph of a tranquil lake. The water is exceptionally still, acting as a perfect mirror for the surrounding environment. In the background, a range of mountains rises, their slopes densely packed with evergreen trees. The sky above is a pale, clear blue. The reflection in the water is so sharp that it creates a symmetrical image, with the mountains and sky appearing to be duplicated below the water's surface. The overall mood is peaceful and majestic.

NEXT STEP

THANK YOU!