# Nearly New Nautical 🛎

# Views of Listings Final Report (Summary)

#### Context

Look at data of the last 7 days and extract insights about the caracteristics of the most viewed boat listings. The knowledge will be directed in preparing a weekly newsletter for boat owners.

#### Method

Use of common tools for data analysis, to create visualizations, aggregate and calculate results and for doing statistical analysis.

The used tool was the programming language R.

#### Data

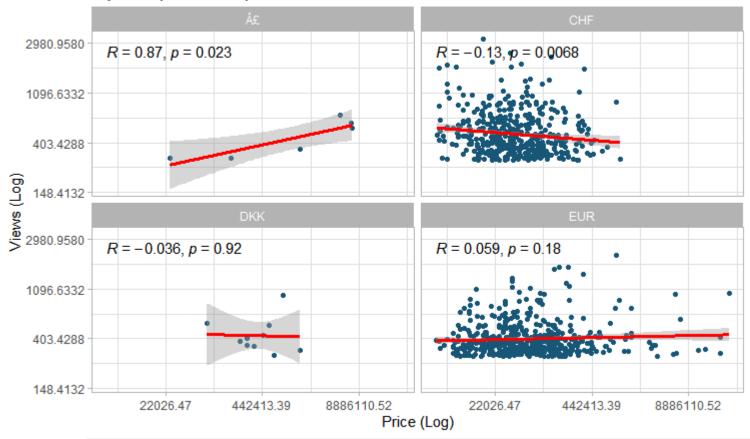
The data refers to posts made by users announcing their used boats for sales. It also contains the count of views in the last 7 days. N = 990 (10% of the original data)

• Infomation contained in the data: Number of views, price, boat type, manufacturer, type, year built, length, width, material, location

### Price don't influence the number of Views

#### Number of Views compared to Boat Prices

Adjusted by the currency utilized



R is the Pearson correlation coefficient - it measures the linear relationship between two variables - and ranges between -1 and 1, in which these extrems mean strongly(negative and positive) association, values close to zero represent no association. The p assert the statistical significance of the measure, where values smaller than 0.05 indicate the existence of 'true' linear relationship.

# For the CHF region, the most expensive boats get less views, with a very minimal impact

 Has a negative correlation coefficient, not so expressive (-0.13) but that indicates a negative impact of the price; we can guarantee a statistical support (p < 0.05)</li>

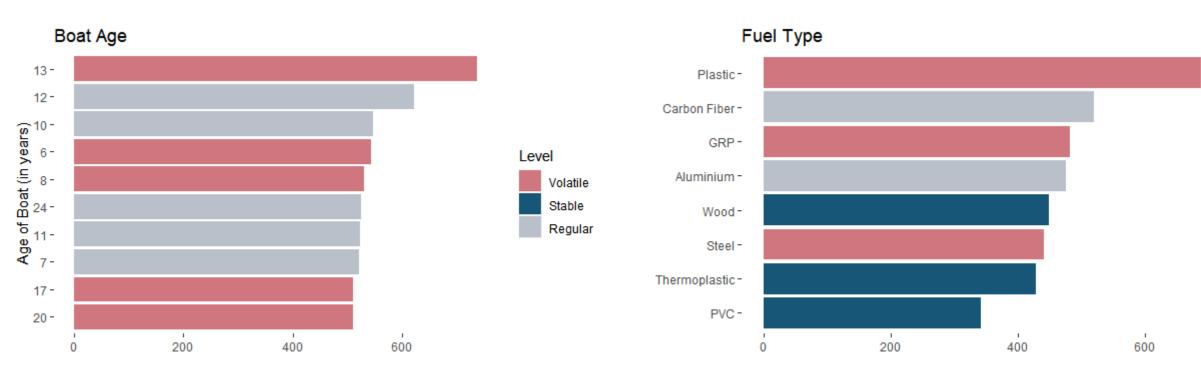
#### The others currencies dont have a pattern

• The others has inexpressive values - ranging from -0.1 to 0.1 - with different trends (negative and positive); theres no statistical support (except for the first, that has a very small sample)

# Year built and Fuel type (substituir fuel type por material)

At the top we can see that boat with approximated age of ~10 years have more views. But the pattern is unclear, having a lot of unstable listings by the different ages.

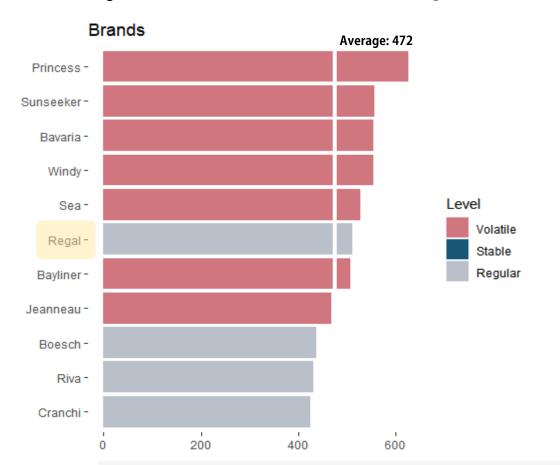




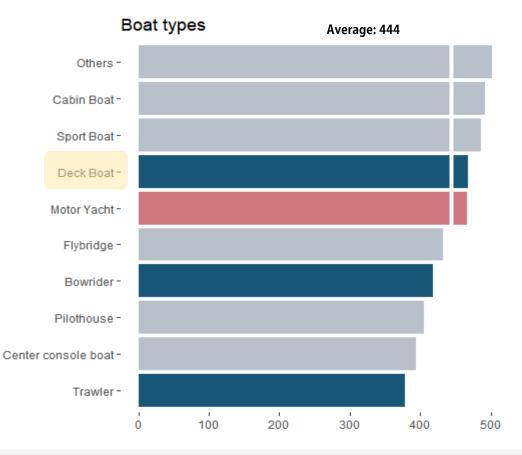
The label 'Level' is determined based on the variation of views of the posts. The variation measure utilized is coeficiente of variation = Standard Deviation / Mean. To classify some record in a label, it was calculated the quintiles (divide the data into 5 pieces of 20%) and the values in the 1st and 5th quintiles are labeled as "Stable" and "Volatile" respectively; the others receive the "Regular" label.

# **Brand and Boat type**

Princess is at the top. The average views of the top 5 are very similar and all of them are unstable, with a high variation of views. **Regal** is consistent and is above the average.



Four of the boat types have visualizations above the average. Deck boat is one of them and has had stable results.



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## Regions

#### **Focus on West and South Europe**

• There two types of countires with good results: the ones with a high volume and the ones with a small volume. Theres a growing engagement in South Europe.

(avg.) and informations of well-performing regions



#### Switzerland (519)

Total: 257 thousand Posts: 495 (1 of 11)



#### Croatia (486)

Total: 12 thousand Posts: 25 (5 of 11)



#### Germany (422)

Total: 74 thousand Posts: 177 (2 of 11)



#### **Spain (443)**

Total: 10 thousand Posts: 24 (6 of 11)



#### Italy (399)

Total: 32 thousand Posts: 81 (3 of 11)



#### **France (443)**

Total: 9 thousand Posts: 22 (7 of 11) **Average views by Region** 



<sup>\*</sup> Considering only regions with expressive number of posts (At least 75)

## **Conclusions**

#### **FEATURES**



Some caracteristics of the boats does not matter - price, fuel type, width and lenght.

Boats having close to 10 years have most views.

Plastic boats are the most sucessfull.

#### **BRAND & BOAT TYPE**



The manufacturers have a very unstable results. Even with some brands with more expressive engagement, the only one stable is **Regat**.

Cabin, Sport and specially Deck boat have more views than other types.

#### **REGION**



Countries with high volume like Germany, Italy and Switzerland have a good number of views.

Countries with little volume but good results like **Croatia**, **Spain** and **France** should increase the number of posts.