In this project, your team will develop a TS benchmarks repository where researchers can obtain TS data, contribute new data, and compare their results with state-of-the-art algorithms for TS forecasting.

This project will provide a platform where researchers can share their data and compare their results with other models provided by researchers  
in the field.

The TS repository that your team will produce must include those features and provide the functionality for easy manipulation of those data sets.

* **Sets of Time Series** (Data from different sources?)
* **Uni/Multivariate Time Series** (Time Series with different and equal levels of variables and components)
* **Time Series Data**(A place and user function where said user can physical download our data, hopefully in a standardized and simple file type. Include metadata)

**Metadata**

* + Time Series name
  + Description
  + Domain(s)
  + Units
  + Keywords
  + Scalar/vector(univariate/multivariate)
  + Vector Size
  + Length
  + Sampling Period

**Data**

* Date
* Time
* Magnitude
* Non-magnitude features

**Forecasting Task**

* Forecasting period
* Number of Forecasts
* **Training, Validation, And Test Sets**
* User will never see the test set
* Subset of our data will be reserved for the user to test on and perform with
* **Time Series Storage**
  + Store the data in perhaps csv file or local DB
  + Data that is readable for the training programs in order to send to forecasting
  + Store the forecasting models
* **Model Testing**
  + Compares forecasting data with ground truth data.
  + Represents data in increasing error
  + Will compute differences in errors and associate the solution
* **Technical Requirements And Problem Statement**
  + Should have 2-3 users: Contributor (provides initial data), DS/MLE(Uses the data for forecasting), DBAdmin (maintains the data base)

**Backend language(Python, Ruby)?**

**Web front end (HTML, CSS, JS)**

**DevOps (Github/ix-dev)**