# Vinter Test – Part A – Non-Technical

1. *What raw input data is required to value the crypto assets?*

Stackeable digital assets generate passive income according to a specific monetary policy and depending on several factors, including the PoS implementation (e.g., delegated), the ecosystem (number of validators, reward system, slashing risk). Those metrics are not easily available/computable, and we will first focus on a simpler valuation method, and use

We will create a table containing, for every day and digital asset, its last price in $USD, its 24h volume for that day, and its market capitalization at the end of the day.

1. *Discuss the logic of your data validation procedures and how you validate input data.*

We first check for the existence of the data in the response. The data is formated and then joined to an initial table containing the dates we expect to get from the API. Irrelevant data will be discarded, missing data will show up in the final table as Null values.

We check the type of the data by trying to cast it to what we expect. Errors will be raised at failure to do so.

A final check is performed, using Pandera, when the table is used to generate a dashboard. This dashboard can be used as a final way to assess the quality of the data.

1. *How would you assess the accuracy of your data?*

The accuracy of the data can be assessed by comparing the data extracted from several APIs. Ideally, we could connect to several data sources, including exchanges, and assess the coherence of the overall extracted data. Flags could be generated automatically for mismatching information and potentially resolved automatically by discarding outliers and beleving the majority.

In the meantime, we assess the accuracy of the extracted data by evaluating the results of the dashboard against data from other sources and by looking at the percentage of null values in our dataset.