**Summary: IoT sensoric/transactional data -> challenges**

* in regards to historical data coming from heterogeneous sources it is quite an effort to identify what information was provided, how it is formatted and also to reconcile data from different sources that often contain similar information, but had inconsistencies in how it was provided, gaps/errors etc.
* it is important to determine frequency of data reading / cadence which is appropriate for a specific problem / analysis
  + an inappropriate cadence can result in increased cost of additional data storage and in an increase of complexity of the analysis (e.g.: more difficult to find patterns/rules)
* one of big challenges is to derive the right patterns and trends from the feeded data streams; (e.g.: find anomalies)
* it is also important to understand the interaction of IOT sensors; how data from different sources can be properly combined to find the right conclusion for given problems
  + this requires complicated analysis methods not only to understand how metric may interact but also over which timeframes and which frequency to gain the right information
* analysis of massive sensoric data requires also methods and tools to identify erroneous data, gaps and inconsistencies