



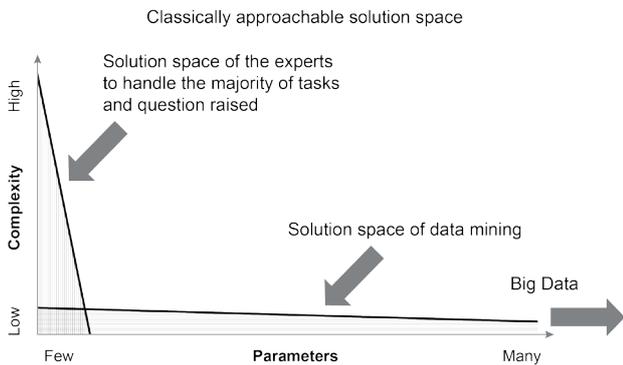
TALKING TECHNOLOGY IN DEPTH.

Q-USD: QLAYM UNSUPERVISED SOLUTION DISCOVERY™

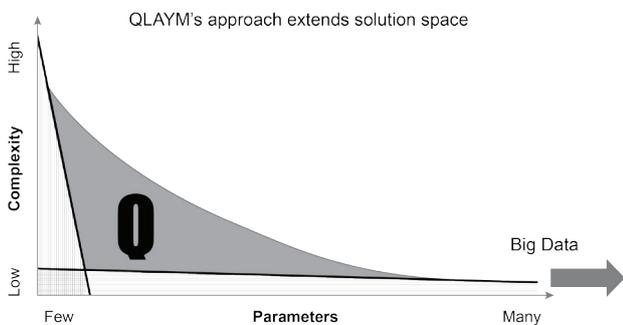
In all disciplines and businesses, an ever increasing volume of complex data gets generated. Its efficient exploitation provides a rewarding opportunity.

QLAYM's technology **Q-USD™** identifies Predictive Systematics: those systematics in complex data which are predictive for desired product property profiles, to explain and avoid production failures, or to optimize process economics (QLAYM GmbH). In healthcare, QLAYM provides novel knowledge associated with a personal prediction of therapeutic efficacy or the probability of severe side effects (QLAYM Healthcare AG).

EXTENDING THE CLASSICAL SOLUTION SPACE



Q-USD™ identifies solutions in the blind spot where neither experts (few parameters/high complexity) nor data mining technologies (many parameters/low complexity) succeed.



To avoid biases, **Q-USD™** initially works on complex data sets without using any expert knowledge. QLAYM's Predictive Systematics compensates for outliers or incomplete, missing, or noisy data already in early phases of the analysis. Results may be numerical models, formulae, hand tailored software, or experimental guiding. The client's experts define relevant solution spaces. An iterative process with additional data provided by the client will validate QLAYM's solutions and will enhance further insight.

Real world data sets are often incomplete, imprecise, or small, making them unamenable for an exact solution. However, there are numerous situations in daily professional life where "no decision" is not an option. In these cases QLAYM can still provide **smart guidance**. In many cases valuable insight is generated when a certain level of predictability can be provided ("Pareto principle"). It also points the way to better solutions. This especially applies in cases where a client wants to break fresh ground, i.e. when conventional methods fail.

UNBIASED AND IN CLOSE CONTACT TO THE CLIENT

QLAYM focuses on three business areas although **Q-USD™** is a powerful technology inherently agnostic regarding the origin or type of the data to be analyzed.

Business areas QLAYM serves:

- Healthcare
- Energy & Commodities
- Production & Manufacturing

Each business area is served by dedicated teams to ensure efficient communication and expertise in market specific regulations and processes.