



Claymore-Lowlands

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Integration of Mathematica and Smartsheet

Mathematica is the well-known flagship product of Wolfram Research. We developed a complete set of functions in Mathematica that perform almost all operations with and on Smartsheet sheets.

In a nutshell: we serve all CRUD operations on sheets, columns, rows, cells, attachments and shares.

The most crucial aspect is that we easily import data from one or many sheets and apply the full power of the extensive *Mathematica* functionality. The realm of the *Mathematica* functionality covers fundamental data analysis, advanced modelling, up to machine learning, forecasting, statistics, classifications, visualisation and much more.

We currently use the *Mathematica* link to Smartsheet for

- Easy data acquisition, curation, preprocessing and finally, transfer to a document-based database, MongoDB f.i.
- Data presentation for rapid inspection and correction
- Feed for ML applications
- Statistics, classifications, time-series analysis
- Micro-services

The availability of customised forms in Smartsheet is a great advantage to setting up data acquisition on-site.

The reports generated in Smartsheet are often used as a data aggregation system before further analysis in *Mathematica* and transfer to MongoDB.