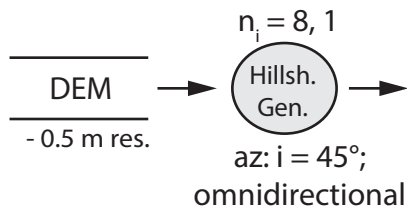
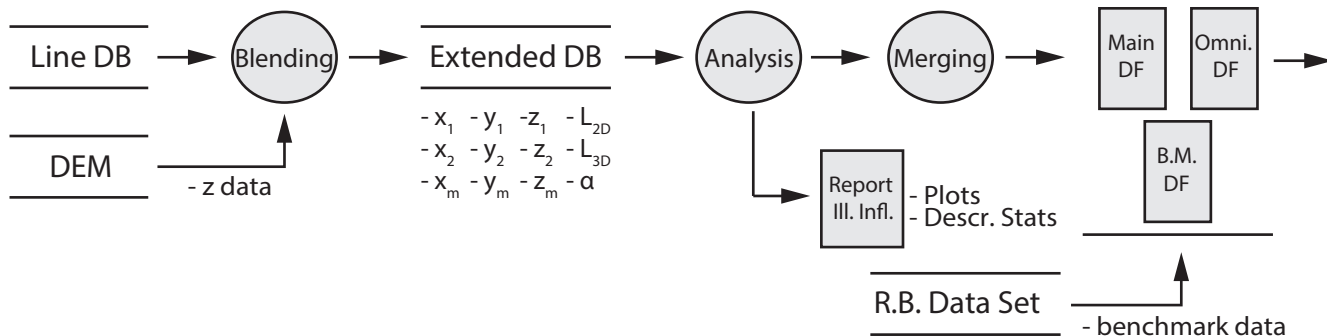


## Data acquisition and Preprocessing

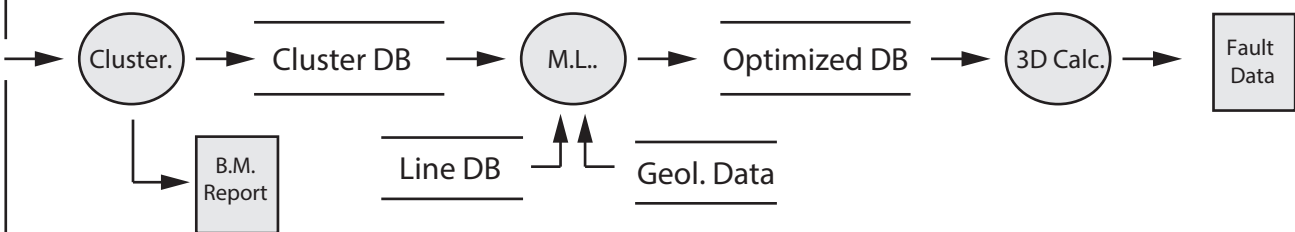


- ID
- Start ( $x_1, y_1$ )
- End ( $x_2, y_2$ )
- hillsh. az. & incl.
- dimensions & cell size
- coord., coord. system
- code param.

## Stage 1 (M1 + M2)



## Stage 2 (M3)



Hillshade Generation: <https://desktop.arcgis.com/en/arcmap/10.3/tools/spatial-analyst-toolbox/hillshade.htm> (ArcGIS 10.8)

Line Generation: Lineament calculation (Custom code, currently used like a blackbox)

Blending: Inclusion of elevation information, calculation of further key values

Analysis: Similarity analysis of data sets, stastical evaluation

Merging: Combining Data in a single Dataframe from the individual sets

Clustering: Link segments surface lines

Machine Learning: Optimize segment merging and surface line identification, benchmark against field data