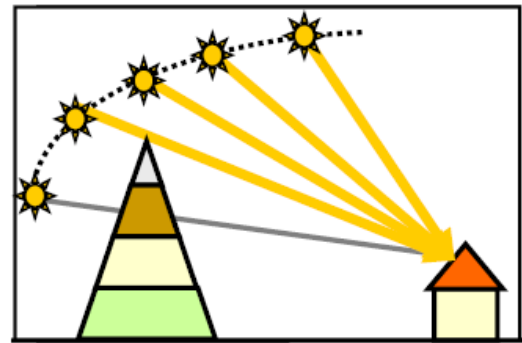


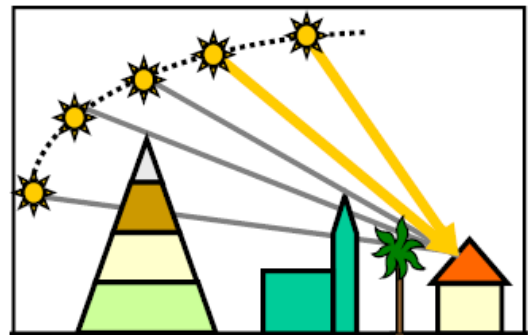
Solarpotential based on high-resolution Surface Models

On the basis of **exposition, declination** and near and far range **shadow** the potential shortwave solar radiation of a roof area can be calculated. The calculation of the far range shadow caused by the relief is based on a **surface model**. For the calculation of the near range shadow caused by vegetation and buildings a **DSM** (laser or photogrammetric) is used.

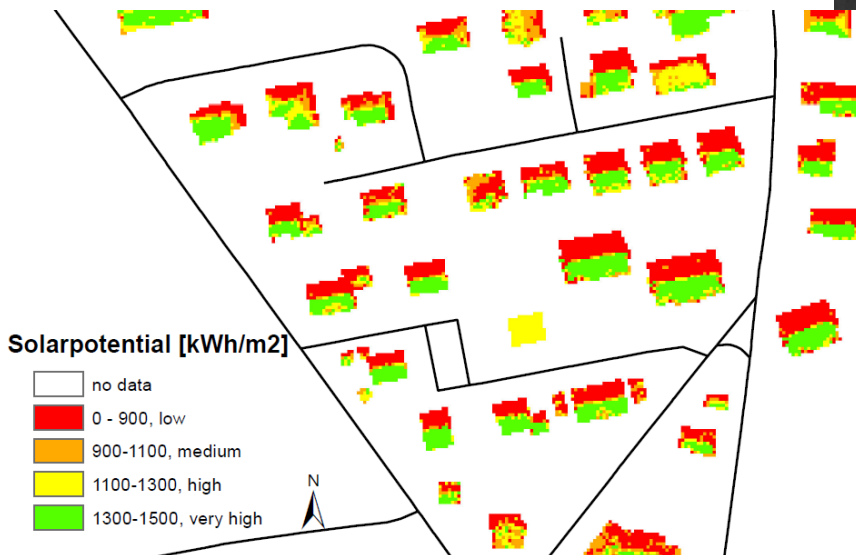


Advantages:

- Estimation of the benefit of solar- and photovoltaic equipment
- Assistance for location decision of solar equipment
- Assistance for determining property value
- Additional value for environmental politics and environmental reasoning
- Political decision support



Solarpotential of Messen



As result **GIS Raster Datasets [kWh/m²]** for

- selected point of daytime
 - selected dates
 - selected periods of the year
 - daily, monthly or yearly sums
- can be produced.

Credits: www.mfb-geo.com/2011, www.laserdata.at



Solutions in Geographic Imaging

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