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Use cases of cloud computing and requirements towards data distribution within a private meteorological service provider

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Private meteorological service providers play a vital role in maximizing the value of weather data. They are often acting at the interface between National Meteorological Services and the public by providing information to media and consumers. In markets like marine and energy, private meteorological services have developed a leading role in the supply of value added services. Innovative and flexible small and medium enterprises support the aim to make meteorological information usable for a large variety of use cases.

Cloud computing offers an attractive business model for new start-ups in the meteorological world as well as established service providers with variable resource demands. Use cases of cloud computing will be shown which range from running numerical and statistical models, data storage and transformation as well as product delivery to business and consumer clients.

The value of data can be maximised by the combination of different data sets, whether purely meteorological or combined with non-meteorological data. Together with new high-volume data sets becoming available that drives the requirement to reconsider the traditional data distribution paradigm between National Meteorological Services and their users.