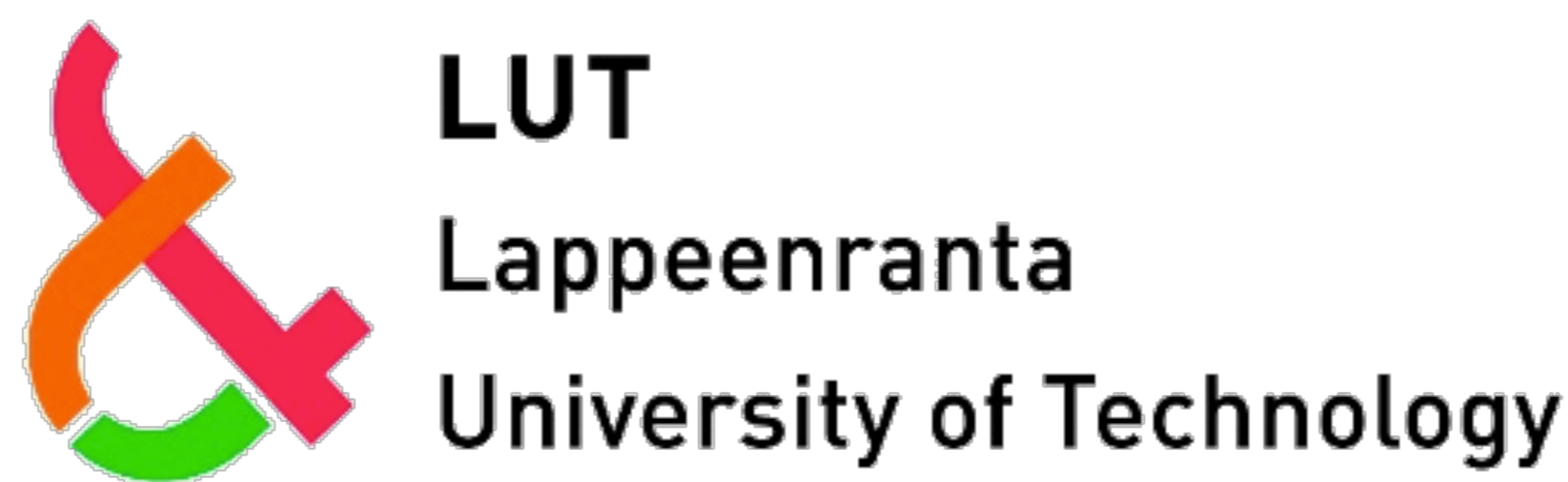
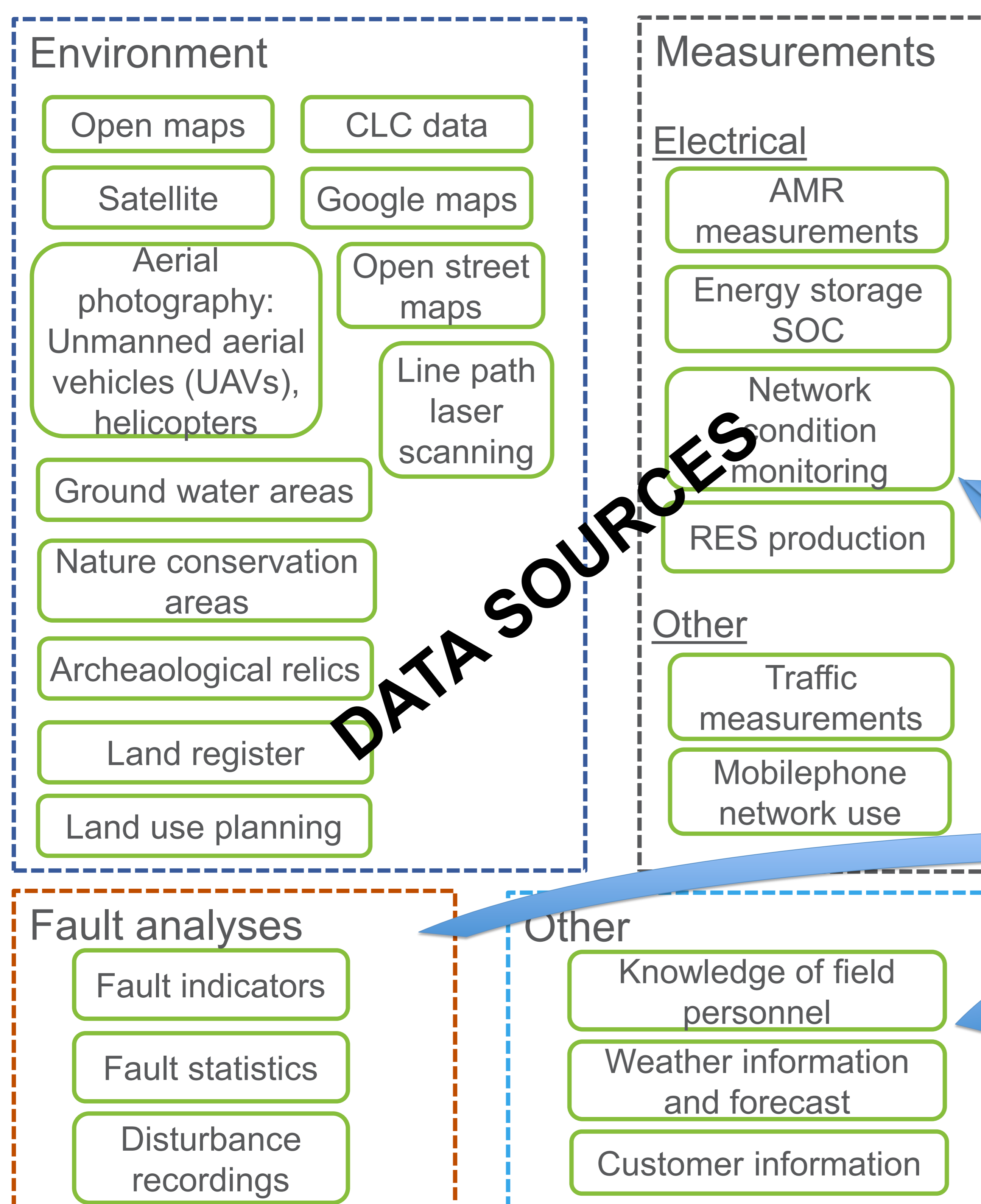


# Opportunities of data harvesting in energy system development



## Available data sources

Data management creates novel opportunities to enhance energy system development. A lot of data from the surrounding environment is available for the different needs either for free of charge or with decent costs.



The data can be used to create information for several stakeholders including energy sector operators such as electricity distribution system operators and service providers in both planning and operative activities. Their interest is to use the data, for instance, in energy system planning, asset management, network construction and maintenance etc. A typical use of the data is improving the energy system planning with better background information such as up to date information of the (surrounding) energy infrastructure.

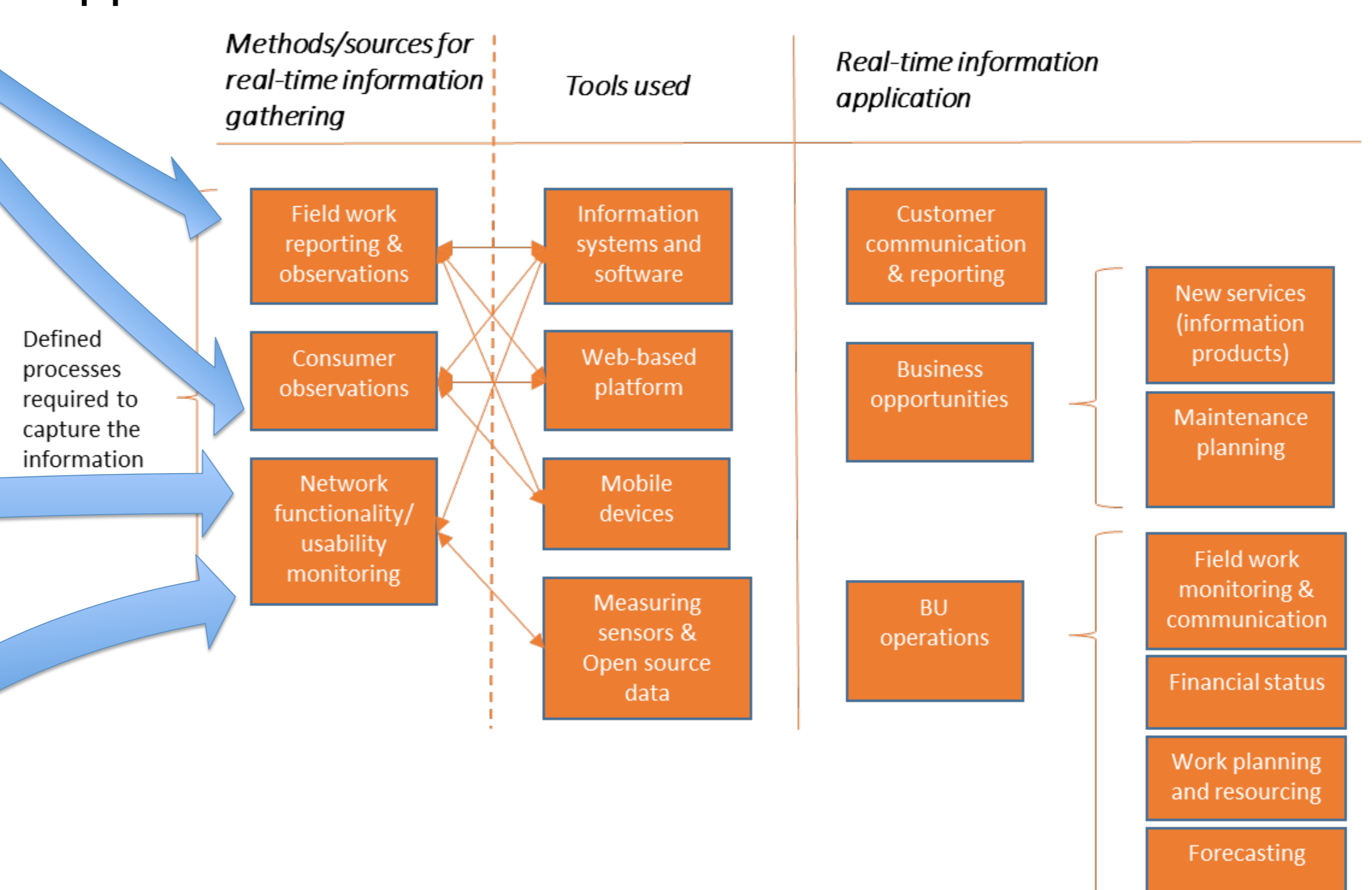
## Opportunities for service provider

From service provider perspective useful data can be all open source weather data, maps, statistics, field observations as well as measurement from the considered energy system sector.

The benefits of open data can be achieved for instance in network planning, (proactive) maintenance planning, customer reporting and offering of information intensive services.



The data is processed further into information and utilized in several processes creating new business opportunities.



Information systems together with mobile devices are also important tools and enablers for data gathering. From the field organization perspective real-time data can be used to monitor field work and job status, monitor the costs of network related operations, create forecasts and manage resources more efficiently. This also brings possibilities for a service provider to create value e.g. for a network owner when planning for the upcoming actions. As a summary: Business opportunities for a service provider look promising related to data gathering and analyzing. Also, a stronger role of the data and processed information is a valid opportunity in network planning.

