SweGRIDS

Optimal Power System Asset Data Management

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QEDAM Group / EME / EECS

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Asset Data Quality: The Road to More Effective Decision Making

Background:

- Effective decision making is evidence driven

- Lack of data at the distribution system level

- Unclear picture of data quality

- A shift to digitalization

Objectives:

- Building a data quality model

- Identification of needed data quality level

- Taking informed decisions on investment in data quality

- Ranking assets based on data quality importance
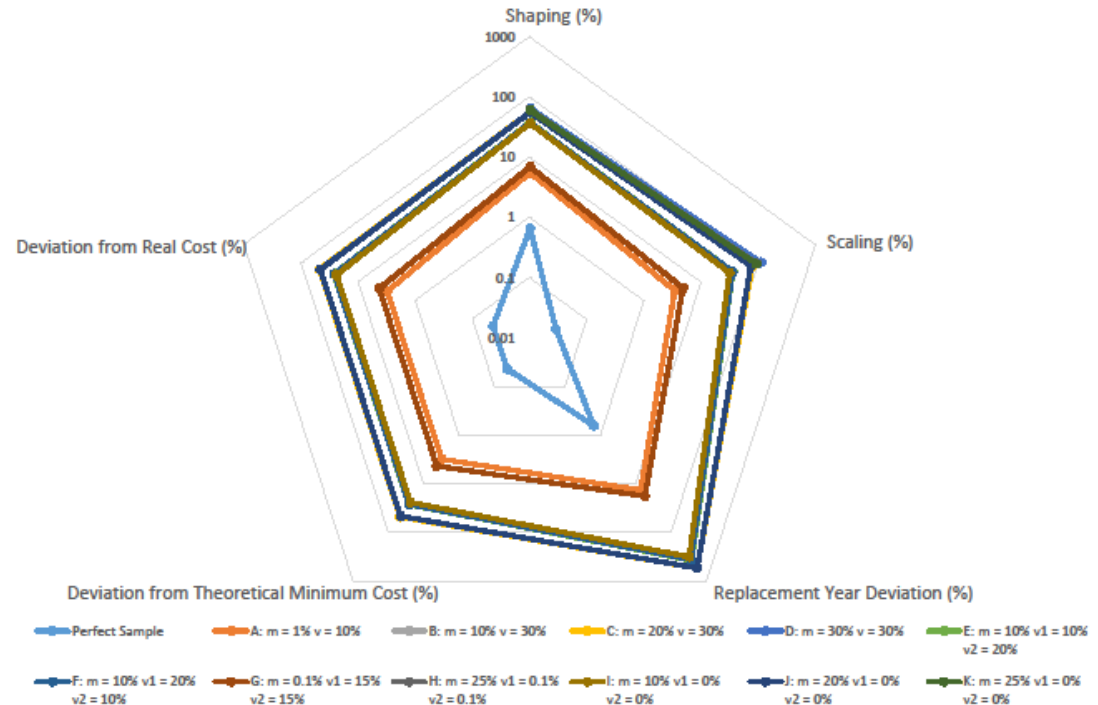
Method: Breaking Down a Complex Problem
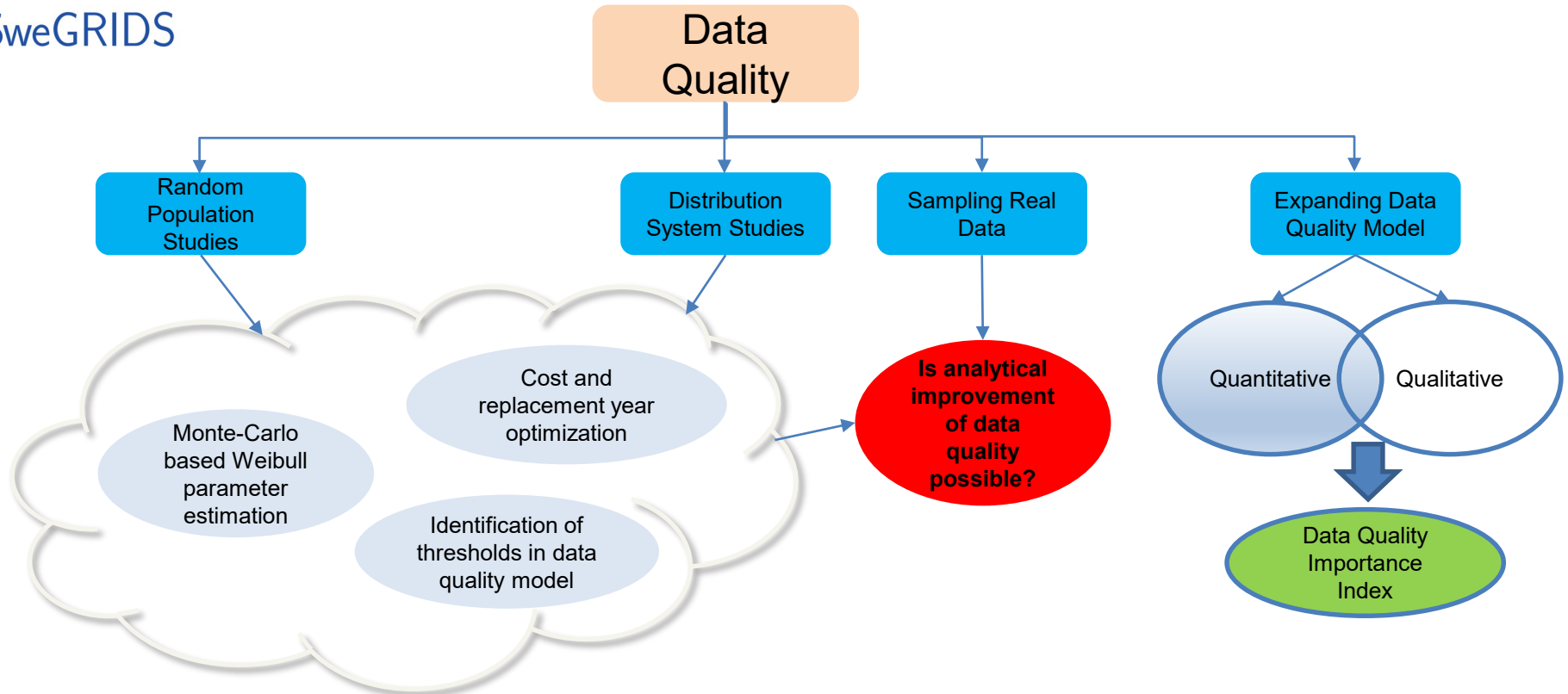
Some Findings: Role of Data Quality

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- Maintenance cost and replacement year are significantly more sensitive to missing data than to misestimates in data

- Once certain missing data thresholds are crossed, data quality investments are needed before performing asset planning

- Data quality importance varies for different types of components

Thank you for your attention!

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