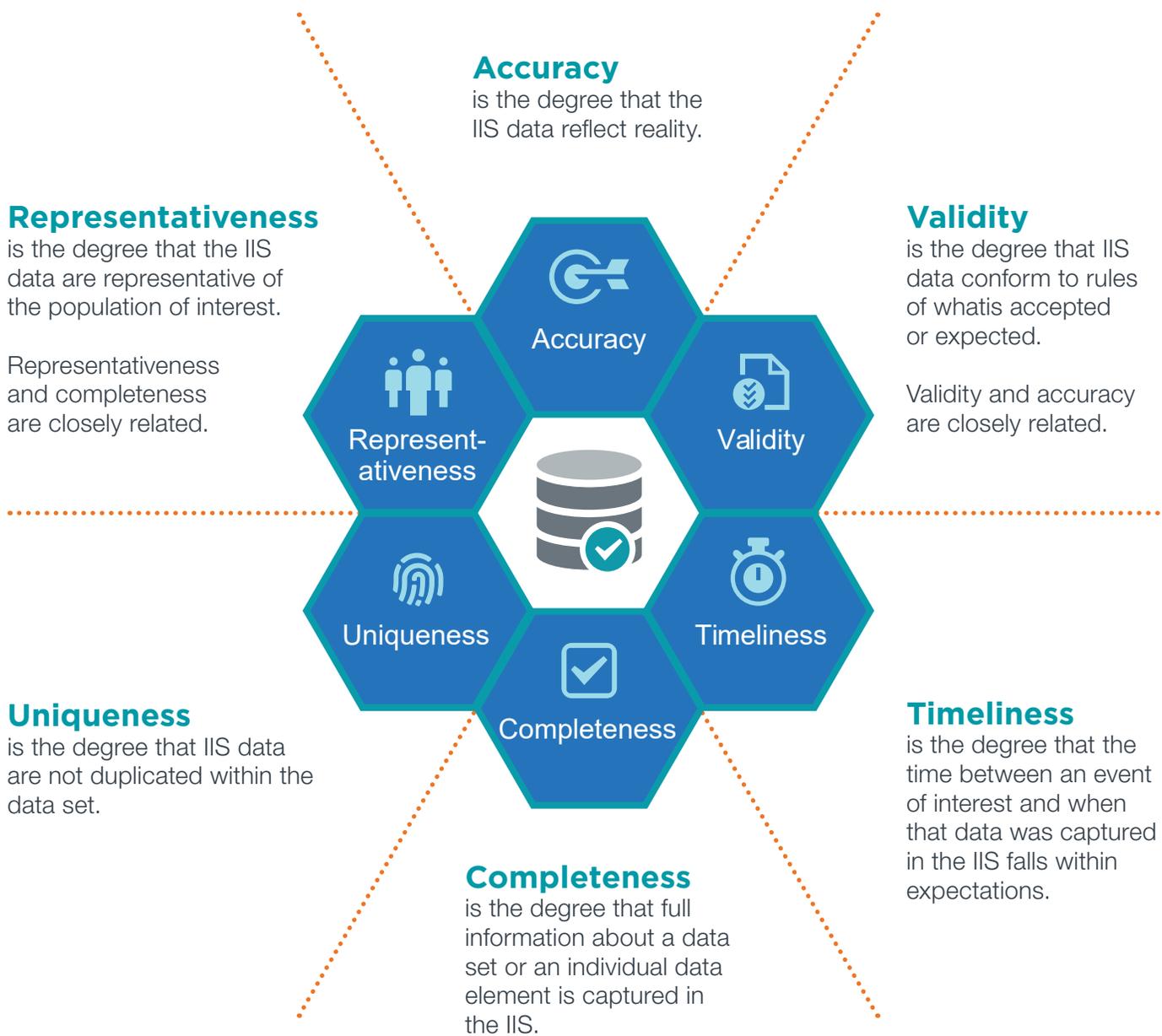


Dimensions of Data Quality

Data quality is a term used to describe the data's suitability for a specific use. Good data quality promotes use of the data by stakeholders; for example, by a clinician determining what vaccinations to give or by an immunization program tracking inventory of federally-supplied vaccines. Data of poor quality are unlikely to be used or trusted. The quality of IIS data can be described and assessed using six key dimensions:



Want to learn more?

This quick reference guide was adapted from "Data Quality for IIS." Find it and other useful training and resources for IIS at www.phii.org/iishub.

Key Questions by Dimension



Accuracy

Do the IIS data reflect reality?

- Do submissions reflect patient demographics and immunizations administered/recorded in the clinical encounter?
- Does the IIS data set reflect the population of the jurisdiction?
- Does the IIS data set reflect the immunizations of the population in the jurisdiction?



Validity

Do the IIS data follow rules of what is expected or acceptable?

- Are there data in the IIS that represent implausible scenarios (e.g., vaccination date after date of birth)?
- Are there data in the IIS that represent unexpected scenarios (e.g., vaccination other than Hepatitis B at birth)?



Timeliness

Are data available in the IIS in a timely manner?

- How quickly after a vaccine administration is that immunization record accessible in the IIS?
- How quickly after a birth in the jurisdiction is a new record established in the IIS?



Completeness

Do the IIS contain all relevant information?

- Does the IIS data set contain all residents in the jurisdiction?
- Does the IIS data set contain all immunizations administered/recorded to residents inside and outside the jurisdiction?
- Do submissions contain all patients and immunizations?
- What percent completed are fields containing demographic or immunization-related data?



Uniqueness

Is data only recorded once in the data set?

- Are patient records appropriately deduplicated?
- Are immunization records appropriately deduplicated?



Representativeness

Are the IIS data representative of the population of interest?

- Are the IIS patient data reflective of the population in the jurisdiction?
- Are the IIS immunization data reflective of the immunizations administered in Completeness the jurisdiction?
- Are the IIS immunization data reflective of the immunizations administered to residents in the jurisdiction?



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