



SENSOR DATA INTEGRATIONS

Quick Start Guide to Sensor Data Integration: **Data Collection**

Sensor generated data must inform a clinical or behavioral measure that matters and offers value to the decision maker and patient.

- Learn how to select high value sensor generated measures that matter using DiMe's [‘measures that matter’ framework](#)

The connected sensor technology must collect data of sufficient quality to support optimized decisions on behalf of patients

- Learn how to evaluate the performance of a sensor generated technology using the verification, analytical validation, and clinical validation steps of DiMe's [V3 framework](#)

To optimize the completeness of data capture and support health equity the choice of connected sensor technology must be fit for purpose for all of the patient users who can benefit from these data in a given context of use

- Walk through all the considerations that go into optimizing the selection of a connected sensor technology in [The Playbook: Digital Clinical Measures](#)
- Deploy DiMe's [EVIDENCE checklist](#)

The operational deployment of the connected sensor technology for data capture must be effective and equitable to collect data suitable for use in healthcare decision making

- Access operational best practices for collecting sensor generated data in [The Playbook: Digital Clinical Measures](#)
- Access the [DATAcc by DiMe toolkit](#) developed specifically to support inclusive deployment of digital clinical measures in healthcare and research

Data Collection



Beginning with data acquisition – the process of measuring physical world conditions and phenomena such as electricity, sound, temperature and pressure – data collection is the ongoing process of accumulating sensor data and metadata at each step of the data lifecycle. Data collection is critical to ensuring that the necessary contextual information about the data and its management over time is available to use the sensor data for clinical decision making.

Collect necessary metadata to contextualize the sensor generated data for use and reuse in powering high quality decisions in healthcare and research

→ Apply [FAIR data principles](#)

Apply applicable standards

→ Review current standards pertinent to data collection [here](#)

See quick-start guides on other ART criteria



[Data Transmission](#)



[Data Processing](#)



[Data Privacy](#)



[Data Security](#)



[Data Quality](#)