Sensor data are **integrated** into the clinical decision making process. **Standards** and **best practices** are defined at the ecosystem level. Healthcare system consumers (healthcare professionals, patients, payors, etc.) have **access** to summary data. Sensor data is implemented and utilized to inform analytics and insights.

Sensor data are **broadly used** by **internal decision makers**. Standards, best practices and partnerships are defined.

Sensor data are used by **select teams** that see value. They **define their own** practices, procedures, and partnerships.

Sensor data tools are being deployed and some data are obtained with **limited value**. Substantial sensor data flows are discarded without informing decision making.

**Unable to access** sensor data to answer clinical questions.
# Capability maturity model for sensor data integrations

<table>
<thead>
<tr>
<th>Level 0</th>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
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</thead>
<tbody>
<tr>
<td>None</td>
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<tr>
<td><strong>Initial</strong></td>
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<tr>
<td><strong>Ad Hoc</strong></td>
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<td><strong>Defined</strong></td>
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<tr>
<td><strong>Mature</strong></td>
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**None**
- **No access** to sensor generated data

**Initial**
- Low confidence in data
- Data often **inaccessible or discarded** due to poor quality
- **Unclear path** to choose the appropriate sensor technologies/manufacturers

**Ad Hoc**
- Data is usable for **individual clinical decisions** (ex: go/no-go and hypothesis generation for research; decision augmentation in care)
- Extensive effort and **aggregating middleware** is required to normalize data streams from different protocols and/or data formats
- Few degrees of freedom in sensor technology selection; **unclear decision making criteria** for sensor choice.
- Evidence for trustworthiness or reliability of the data in context is lacking.

**Defined**
- Data is accessible, relevant, and trustworthy for all **internal decision makers**
- Data may be suitable for **third party decision makers** (ex: regulators / payers) in limited contexts
- Procedures are in place to formalize exploratory methods and more consistent usage of data

**Mature**
- Sensor data is relevant, accessible, and trustworthy to **all stakeholders** and can be integrated with data from other sources to advance outcomes for better quality of life across the care continuum.
- **Documentation** is available that defines clearly each field or data element.
- Data **retains value** and remains **accessible, relevant, and trustworthy** over time

Source: www.dimesociety.org/tours-of-duty/sensor-data-integrations/org-readiness