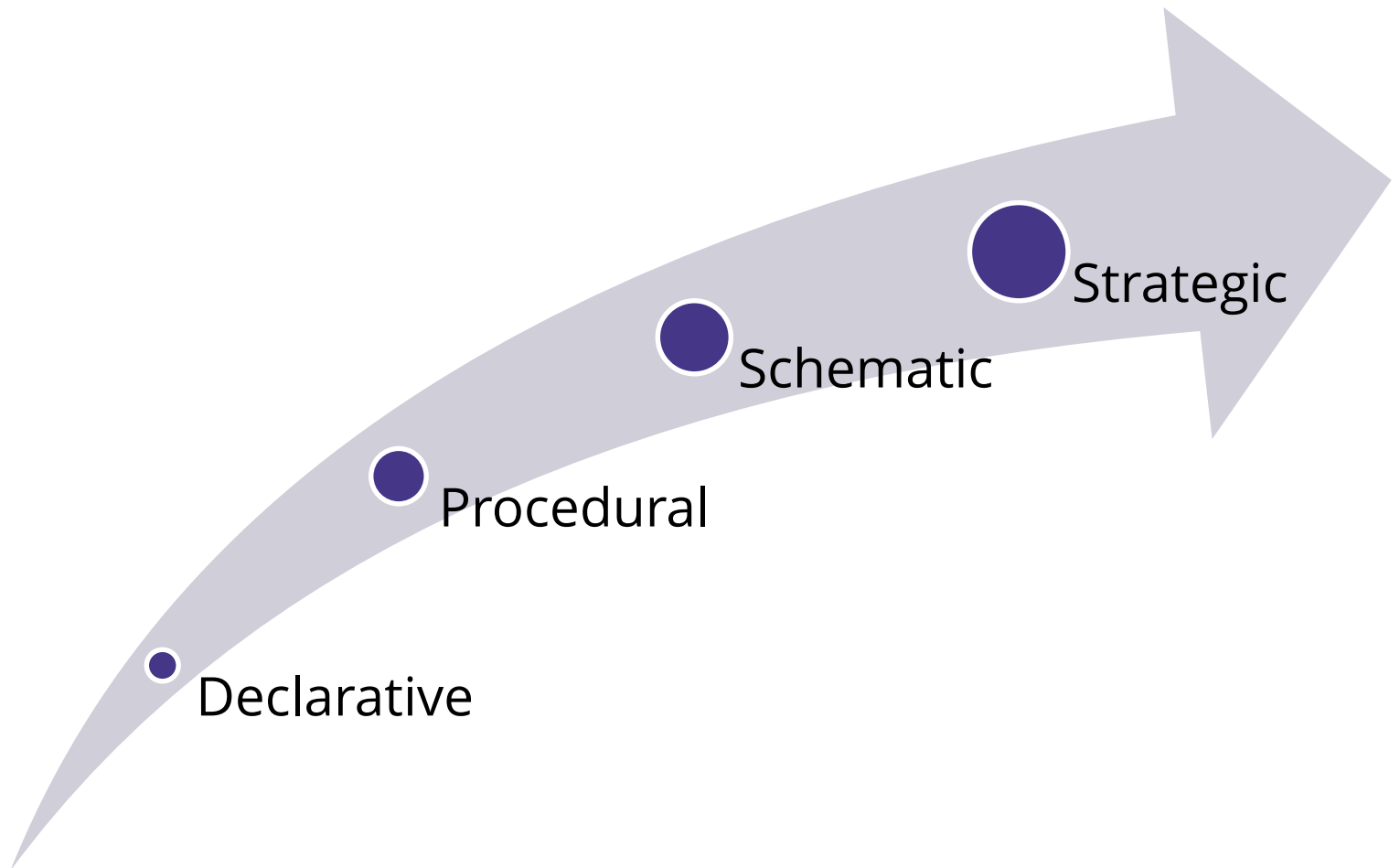




# Knowledge Development: Ways of Knowing, Reasoning, and Sense-Making

---



# Knowledge Development

## Declarative

- “Knowing That”—Having factual and concept-based knowledge about something.

## Procedural

- “Knowing How” to do something step-by-step or condition-then-action.

## Schematic

- “Knowing Why”—Having a mental model that builds on and connects declarative and procedural knowledge to the why—can then reason about, predict and explain.

## Strategic

- “Knowing When and Where” to apply knowledge and how to check if the application or innovation is working reasonably.