

4.2 Cognitive Requirements Model

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In addition to the definition of a requirement and the specification of the requirements at each of the Governance Aspects, there is a need to further refine the requirements according to the level of specificity of the requirement. There are five different layers to specificity which are based upon the layers of the Cognitive Model. (See [xapend.i_cog_model](#)).

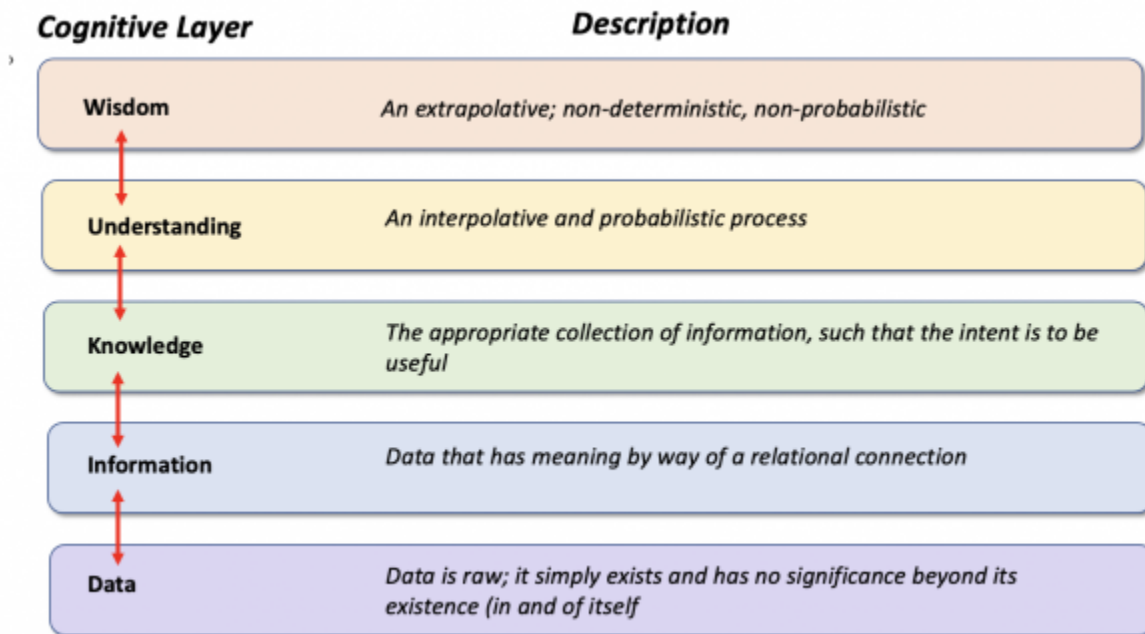


Figure 1: Cognitive Model

- **Wisdom** - An extrapolative and nondeterministic, non-probabilistic concept which is built upon **Understanding** concepts.
- **Understanding** - An interpolative and probabilistic concept that reflects **Wisdom** concepts
- **Knowledge** - A concept relating appropriate collection of **Information** concepts together, such that it's intent is useful
- **Information** - A concept aggregating data concepts together, in other words, **Data** that has been given meaning by way of relational connection
- **Data** - Data that is a raw concept; it simply exists and has no significance beyond its existence (in and of itself). It is the basis upon which **Information** concepts are built

The flow between the cognitive layers is bidirectional and can have many-to-many relationships. For example, any particular **Wisdom** concept can be associated with any number of **Understanding** concepts. The inverse is also true; **Understanding** concepts can also be used to help support any number of **Wisdom** Concepts.

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