

Geog 461 Learning Objective Outline

LOO 06 Decision Situation Assessment

06.1 What is decision situation assessment?

[Nyerges and Jankowski GISURE Chapter 2](#). Section 2.4

We perform decision situation assessments to better understand the circumstances surrounding the use of information and information technology use, particularly when decision situations are reasonably complex.

06.2 How do we use decision situation assessment to improve our understanding of GIS-based workflow?

[Nyerges and Jankowski GISURE Chapter 2](#). Section 2.4

We can undertake assessment at four levels of detail; each level should be customized to your “need to know” more about the decision problem. Let’s consider the wastewater recycling facility plan you are developing for Green County (King County?).

A **general level assessment** considers the three major concerns (**See Figure 2.8**).

- What are the concerns about convening a decision situation?
- What are the concerns about the process involved in a decision situation?
- What are the concerns about the outcomes of a decision situation?

A **phase level assessment** considers the three general categories of constructs – phase-input constructs, phase-process constructs, and phase-outcome constructs - for each of the phases in a workflow process, e.g. any one of the phases of the three workflow processes depicted in **Table 2.6**.

A **phase-construct level assessment** considers all eight constructs for each phase. However, as that would involve substantial work, an analyst might only select this strategy for one or more selected phase(s). **See Table 2.7 and Figure 2.8**

A **phase-construct-aspect level assessment** considers detailing all the aspects for each of the phases. Clearly, this is a horrendous effort, so an analyst might only perform this assessment for certain of the constructs in one or two of the phases. **See Tables 2.8 and 2.9 and Figure 2.9**

Which assessment approach are you to choose for any given decision support problem?

The best approach is to start simple, and then add more detail if the decision situation warrants that detail in order to make the decision tasks, hence GIS project tasks, more understandable. Remember, your decision work is based on a “need to know”. If tasks are unclear, then move to the appropriate level of detail to make them clearer in you mind.

Talk with others about the tasks, particularly the stakeholders, as they might know something about what you need to know to be successful.