

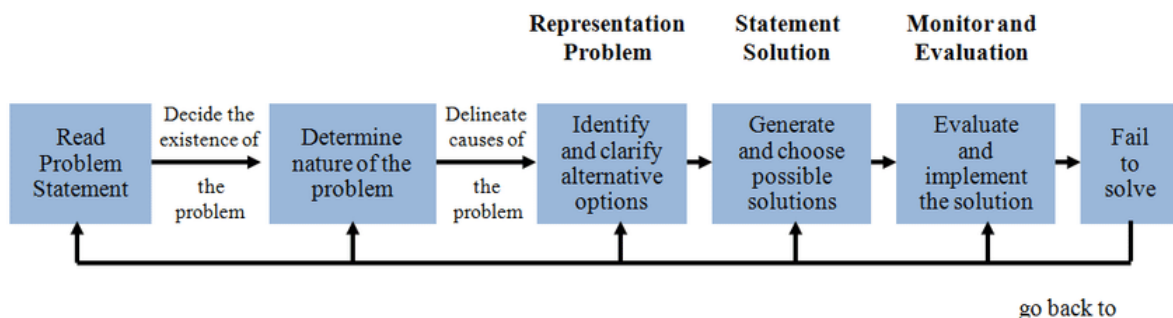
Why SE and SE Ethics

1 ISPs

ISPs are:

- Elusive, unbounded, no 'end' conditions, not understandable
- Require orientation (context)
- Many stakeholders
- Many 'solutions'

Not going to be asked about the difference between ISPs and wicked problems in exams by this lecturer at least



1.1 Solutions

- Generate your initial boundaries - these are mutable
- From the initial limits, decompose the problem into smaller problems
- Identify potential solution criteria for the sub-problems
- Feedback, consider and reframe

In SE a good problem solver need the following:

- **Method:** refers to a formal procedure; a formal "recipe" for accomplishing a goal that is typically independent of the tools used
- **Tool:** An instrument or automated system for accomplishing something in a better way
- **Procedure:** A combination of tools and techniques to produce a product
- **Paradigm:** A philosophy or approach for building a product

2 Stakeholders

- **Customer:** The company, organization, or person who pays for the software system
- **Developer:** The company, organization or person who is building the software system
- **User:** The person or people who will actually use the system

3 Where does the blame lie?

Four factors identified for a higher chance of success:

- User involvement
- Executive management support
- Clear requirement statements
- Proper planning

Three main factors identified in challenged or failed projects

- Incomplete requirements/changing requirements
- Lack of user involvement/input
- Lack of resources

4 SE Code of Ethics

Code of ethics is not a formal checklist or exhaustive

- To help us develop an understanding of what is appropriate
- Ethical rules and codes can only be used effectively by persons with good judgement
- Good judgement is acquired experience, good habits and conscious attention to ethical issues
- Exemplary software engineers have been described as having the following characteristics:
 - Strong sense of individual responsibility; acute awareness of the world around them; brutal honesty; resilience under pressure; heightened sense of fairness; attention to detail