

Advantages of Spiral Development Model

- Spiral Model mostly concentrates on risk analysis.
- Most useful for large and risk projects.
- Spiral Model used if requirement changing frequently.
- Focused model for all phases.
- Customer evaluation phase made this model useful.

Disadvantages of Spiral Development Model

- For risk, analysis phase required an expert person to make an analysis.
- Not useful for small projects.
- Project duration and cost could be infinite because of the spiral feature.
- Documentation could be lengthy.

The pros

- Highly flexible model
- Fast and cost-effective development
- Well-suited for large scale projects and mission-critical developments
- Works well for complex projects
- Monitoring is easy and effective
- Strong emphasis on client approval
- Focus on documentation control
- Potential for additional post-project functionality
- Software is produced early in the project lifecycle
- Risk analysis helps to eliminate and avoid risk
- Changed requirements are accommodated during the project lifespan
- The end product can be highly customised

The cons

- Can be expensive to implement – especially if spirals continue infinitely
- The risk analysis aspect of the project may require specialist expertise
- Not an ideal fit for smaller or low-risk projects
- Success may depend greatly on the risk analysis
- Documentation can be heavy, due to the number of intermediate stages
- End of project may be difficult to define beforehand
- Spiral is widely regarded as a complex process
- Rules and protocols must be adhered to strictly throughout the development

Final verdict

Spiral Model concentrates on Risk Analysis – Involves High amount of Risk analysis with every iteration hence avoidance of risk is enhanced.

Additional functionality can be added later: - Iterative nature of the spiral allows addition of

Customer Evaluation made this model pretty useful. Customer can see the software developed in builds or stages. The model highly customer and client approval into account

The model allows accommodation of changes even at a later stage. For Instance, Changes might be introduced as a result of client unsatisfaction.

Spiral works well with complex and large scale projects.

Weaknesses:

The model can be expensive to implement if spiral continues infinitely. The end of the project may be difficult to determine beforehand.

The model is not a good fit for small and low risk projects that could be accomplished in a smaller duration