

four phases - analysis, risk evaluation, execution, and planning - and for every phase, you undergo multiple review processes and risk assessments.

- **Pros:** Spiral is great for mission-critical projects requiring a high level of risk analysis and control.
- **Cons:** The risk analysis element of Spiral requires specific expertise, which may only be available through additional training. Spiral can be a more costly model and is not ideal for smaller projects.

Option #: Apply Scrum Methodology

Does this method quickly adapt to shifting requirements? Named after the rugby play, Scrum focuses on short, sharp delivery of projects - allowing time for rapid feedback and speedy response to changes. There's a huge focus on tight team dynamics and close collaboration; teams come together to work on a "sprint" - a short period. At the end of every sprint, the team must have produced a usable product.

- **Pros:** Scrum is one of those iterative methodologies developed for the software world - as such, it's all about productivity and quickly adapting to changing parameters.
- **Cons:** Scope creep is a huge issue in Scrum projects - they can easily bloat out of control if not reigned in.

DECISION MATRIX

Alternative Course of Action	Efficiency (time)	Economy (cost)	Effectivity
Event Chain Methodology		✓	✓
Spiral Methodology	✓	✓	
Scrum Methodology	✓	✓	✓

V. RECOMMENDATION

I recommend Option# 3 which is to apply Scrum Methodology for Beck Engineering to adapt to a rapid and discontinuous change in demand and technology.

REFERENCE:

Green, Steff. (n.d). Workflow max. *Choose Your Project Management Methodology: Pros and Cons of Agile, Waterfall, Prism, and more*. Retrieved January 15, 2018, from <https://www.workflowmax.com/blog/choose-your-project-management-methodology-pros-and-cons-of-agile-waterfall-prism-and-more>