This breakout group will consider the relationships between Spiral Development and Evolutionary Acquisition. Its aim is first to conceptually dissociate the two, and then to consider the ways in which they reinforce each other, and their joint potential to provide a beneficial approach to creating systems.

Some questions that this breakout group might consider are:

- In what ways does the general notion of acquisition (whether evolutionary or otherwise) overlap with any development process (whether Spiral or otherwise)?
- In what other ways does *Evolutionary* acquisition overlap with a *Spiral* development process?
- Are there success factors that are common to each?
- Are there any success factors for one that contradict success factors for the other?
- What role do Government policies or Directives (e.g., AF 63-123) play for both Spiral Development and Evolutionary Acquisition?
This breakout group will consider integrating software and systems during spiral development. We will pay particular attention to issues raised in the presentations and build on the experiences of participants.

Some questions the group may consider:

- What does effective integration of software and systems during spiral development look like? Can we articulate a "to be" vision?
- What are the critical success factors we can identify for integrating Software and systems when using spiral development?
- What are the key challenges and inhibitors to effective integration (such as cultural issues, skill gaps, financial constraints, collaboration failures, acquisition pressures)?
- What recommendations for action can we make to improve the chances of success for developers integrating software and systems during spiral development?
**WG 3: Changing Role of Requirements**
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This breakout group will consider the benefits of and barriers to changing the use and development of requirements in the context of spiral development.

Suggested question topics include (but are not limited to):

- Is it possible to delay development of requirements to later spirals? If so, how much of the requirements are needed initially?

- If requirements development is to be spread over a number of cycles, how can consistency of inputs be maintained?

- When, if ever, should requirements be considered complete?

- Given that requirements are expected to be amended on each cycle of the spiral, how can they be used for either contracts or the development of tests?
WG 4: Institutional Challenges
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Since the spiral development approach suggests specific policy and process guidelines, it clearly offers challenges to an institution's existing policies, process, and culture. At the same time, this existing environment poses many challenges to the adoption of the spiral approach. This working group will first attempt to identify and classify these challenges and then discuss how the challenges can be met.

Specifically, this group will ask

- What kinds of challenges are posed by and to the spiral development approach by typical organizations?
- What changes in processes and personal relations are likely to be necessary to introduction of spiral development? What will be the principle roadblocks in making these changes?
- What are the critical success factors in meeting the institutional challenges posed by spiral development?
- What recommendations for action can we make to improve the chances of success for institutions adopting spiral development?
- How will adoption of spiral development change the relationships of the institution with other, external institutions.
WG 5: Process Issues
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This breakout group will address issues raised in the presentations about how to characterize the Spiral Development Process. It will address ways in which MBASE can support the transition of CMMI and attainment of process maturity.

Some questions this breakout group might consider are:

- Based on experiences in iterative/incremental development, what is the implementation view of Spiral Development?

- How do Spiral Development Processes fit with and support process maturity models?

- Have the presented experiences validated the Spiral Invariants and Variants?

- How do process maturity models fit with and support the Spiral Development Process?

- How does MBASE relate to and support CMMI transition?