

### THREE unique challenges in the adoption of an agile methodology

The process of adopting Agile in an organization is challenging in many ways. It is especially challenging in larger organizations because of complex infrastructures, numerous legacy systems and mature organizational cultures. Considering the categories on the basis of scope and scale, the critical challenges to software managers of large organizations in bringing agile approaches to bear in their projects can be development process conflicts, business process conflicts, and people Conflicts.

## **1 Development process conflicts**

- It includes Managing variability in subsystems and teams has proven difficult, because developing software for the same product, can might not integrate easily.
- Legacy systems generally arent easy to refactor or disassemble to accommodate agile replacements that need to build capability in increments.
- Agile requirements tend to be primarily functional and informal. So it might not work well in the systems engineering verification and validation approach.

## **2 Business process conflicts**

- In agile approaches , the long term estimates and level of uncertainty is higher. Estimation, resource loading, and slack calculations can vary significantly.
- Inadequate techniques for Traditional contracts, milestones, and progress measurement causes challenge in agile process.
- Agile development team members requires significantly more skills and experience to adequately perform and copeup with the standard development position descriptions.

## **3 People conflicts**

- This are critical in improving management of engineering and development personnel.
- It includes Casting employees and giving them the interchangeable part cause difficulty in multitasking.
- Agile teams must be collocated to establish ways to adjust activities for risks and issues, analyzing downstream impacts and using the results to replan for the next set of outcomes.

## References

- [1] <https://sunset.usc.edu/TECHRPTS/2005/usccse2005-516/usccse2005-516.pdf>