

DIGITAL ENGINEERING CHECKLIST

Top 10 Things to Consider for the First Year

1

What type of program are you planning to start with: software development, software and hardware, or mixed?

2

Have you thought through a basic CONOPS—use cases, partners, project flow? **This will help you know the tools you need up-front to avoid “one more thing “ add-ons later that can take months to set up.**

3

Do you want your digital engineering thread and tools to both run on the same environment? **Consider the flow now to avoid setting up siloes.**

4

Will you be supporting a defense acquisition for development only, maintaining the program throughout its full lifecycle, or modernizing an existing system?

5

Do you expect to collaborate with vendors in that environment? How about vendors outside of Cloud One? One or multiple? **Remember that each vendor will require additional permissions and security configurations, so it's ideal to bundle them all up-front.**

6

What level of digital engineering implementation do you envision for that first year? **For an extensive digital thread, you'll need to digitize all management and systems engineering processes. For a smaller project, you may want to digitize some of your up-front systems only.**

7

Will you be doing hard-core modeling and simulation? If so, consider a hybrid cloud solution. **Doing computations on-prem will allow you to avoid high compute costs.**

8

Do you eventually want to support multiple programs in your environment? **Keep in mind that with the exception of user licenses, you can scale cloud up and down as needed.**

9

Do you have a plan to create style guides and templates to ensure consistency? **Remember that providing extensive documentation is key for effective collaboration.**

10

What level of training will your team need? Are some members already using digital tools, while others are working via paper-based processes? **Think through the cultural changes you'll need to make.**