

TECHNICAL SOLUTION

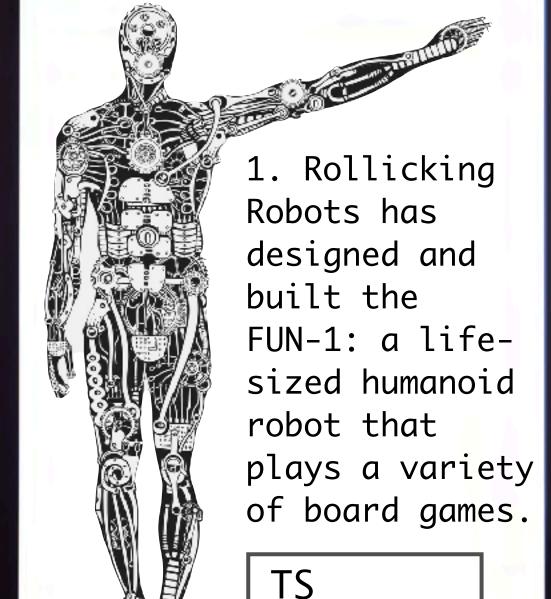




Leading Lange Lang

EXERCISE SCENARIO: FANTASY ROLLICKING ROBOTS

Rollicking Robots opened in Tech City wo years ago. Its mission: To create entertaining robots that bring joy to the inhabitants of Fantastica.



Cap (Cap

2. Every FUN-1 is shipped with a User Manual providing helpful diagrams and written instructions in languages that include Futhark (Viking), Old English, and Tibetan.

Tibetan.

3. An early design review uncovered that the amount of memory targeted for the FUN-1 would likely result in an unacceptably high response time during game play. So, the memory size was quadrupled to increase predicted speed.

TS

4. A technical data package — including performance requirements, engineering drawings, and version control information — was provided to the FUN-1 implementation

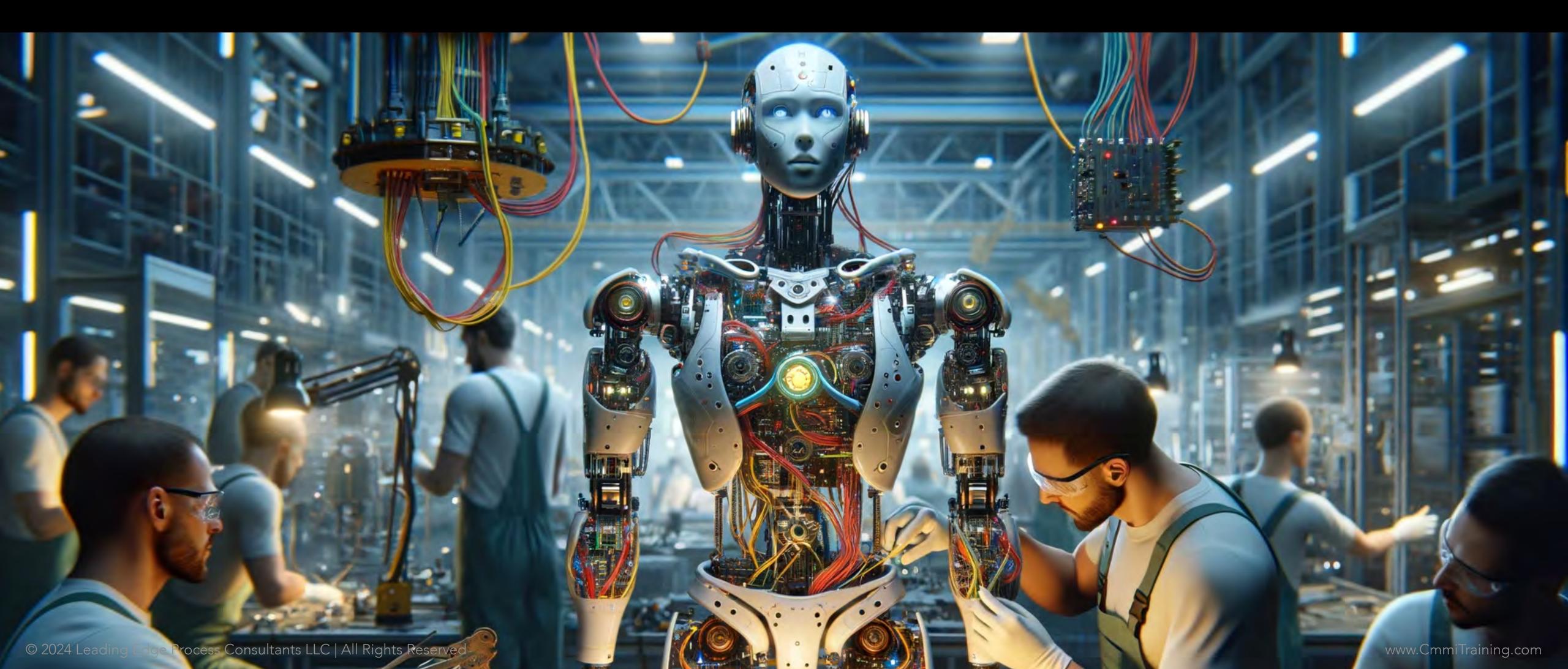
TS

team.



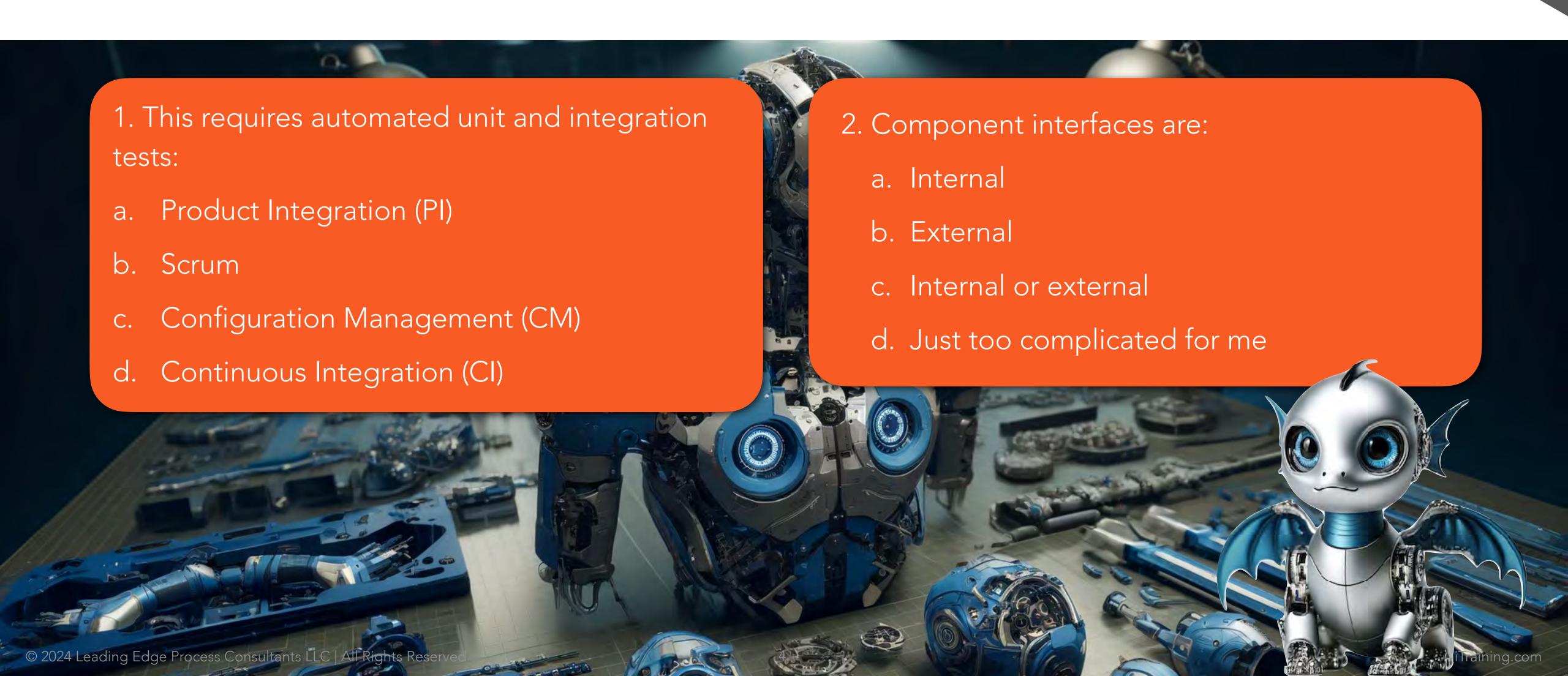
SAMPLE

PRODUCT INTEGRATION



Leading = Edge

EXERCISE: SAMPLE EXAM QUESTIONS



SCRUM IN A NUTSHELL

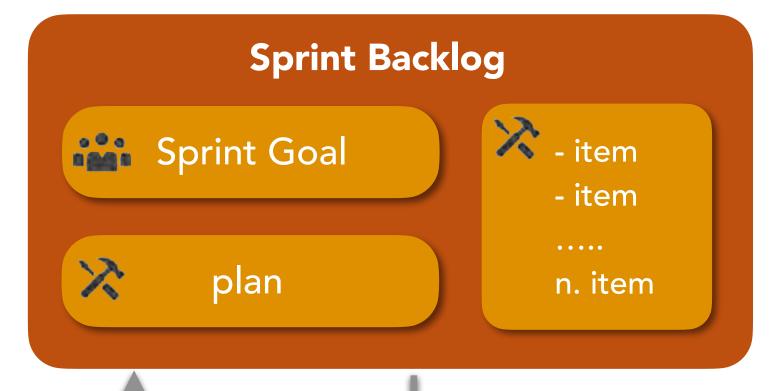
In a nutshell, **Scrum** requires a **Scrum Master** to foster an environment where:

1. A Product Owner orders the work for a complex problem into a Product Backlog.

Product Backlog

Product Goal

1. item
2. item
.....
n. item



Scrum Team

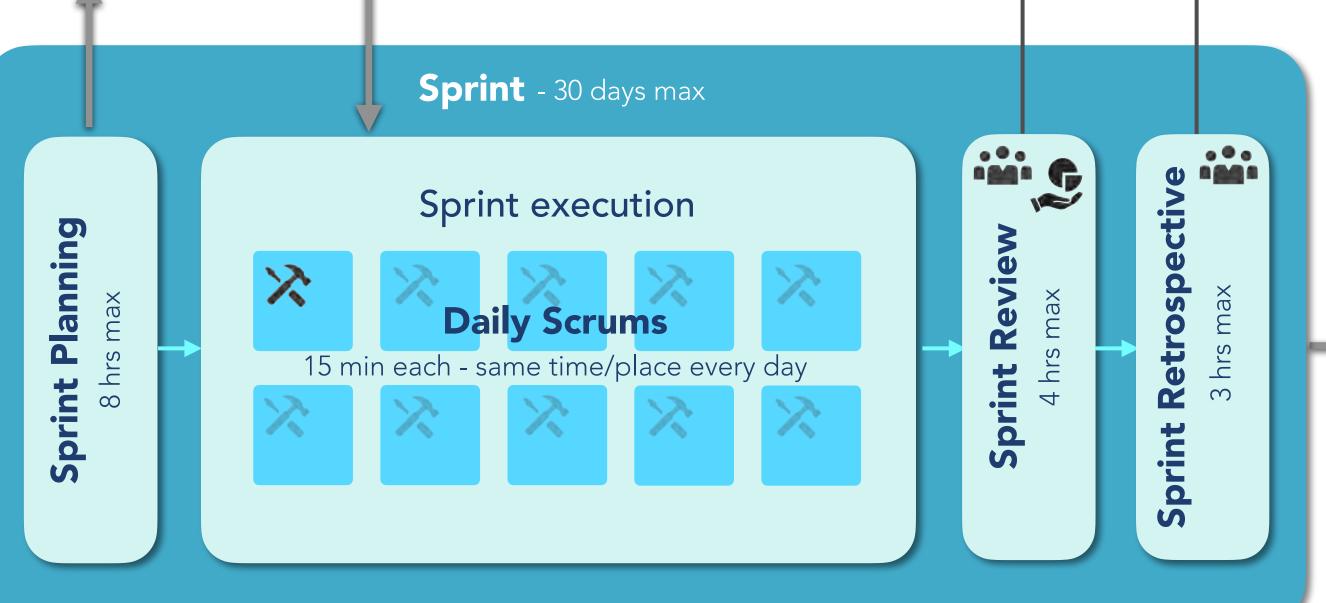
Product Owner - 1

Developers - typically <= 10

Scrum Master - 1

stakeholders

3. The Scrum Team and its stakeholders inspect the results and adjust for the next Sprint.



Increment(s)

4. Repeat.

2. The Scrum Team turns a selection of the work into an Increment of value during a Sprint.

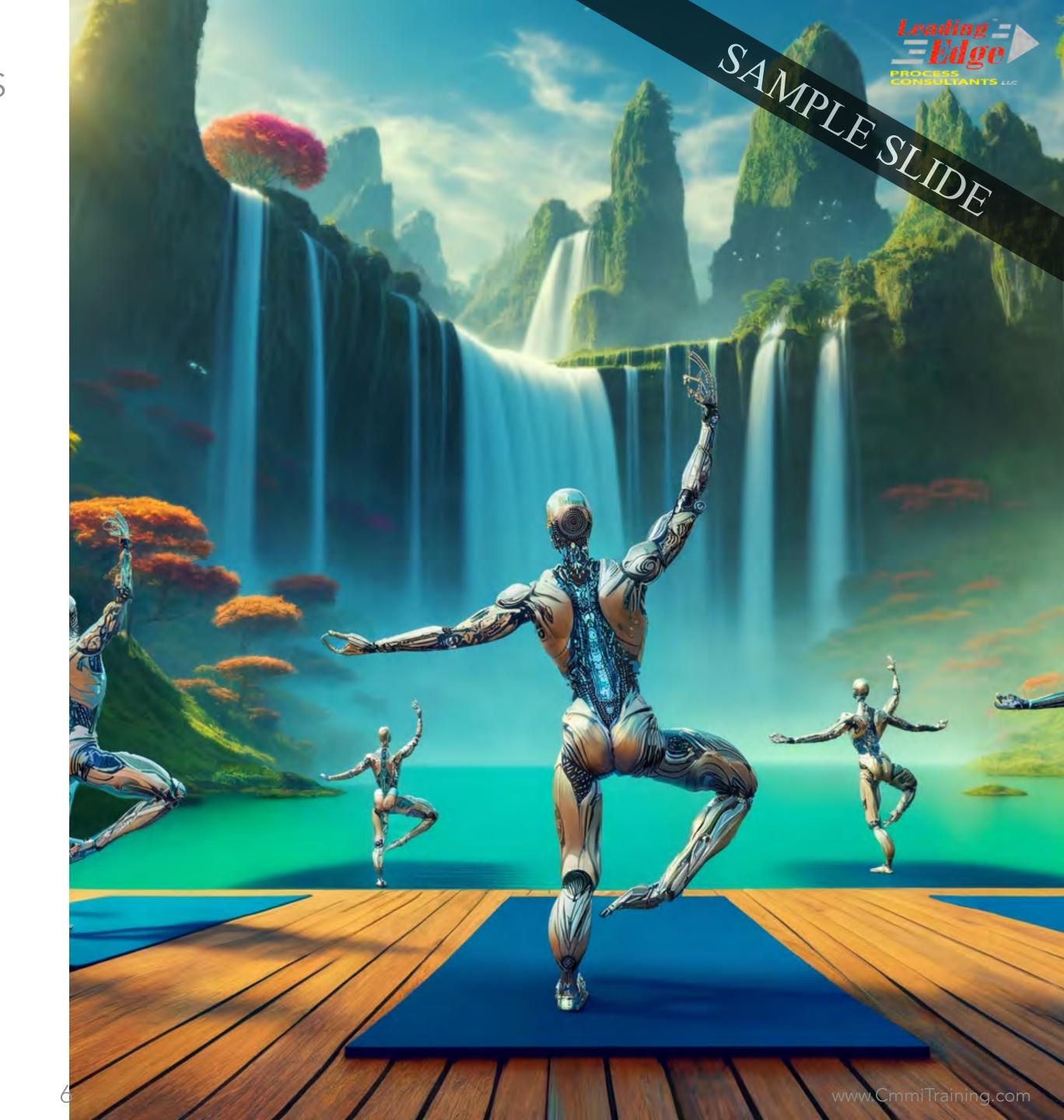
The four phases here are quoted verbatim from the Scrum Definition in *The 2020 Scrum Guide* by Ken Schwaber and Jeff Sutherland.

Leading 🖃

ENGINEERING & DEVELOPING PRODUCTS

EXERCISE: AGILE VS. WATERFALL

- 1. I'll divide you into teams.
- 2. As teams, discuss the following:
 - What are key similarities and differences between agile and waterfall lifecycle models?
 - Under what circumstances might you prefer agile methods? How about waterfall?
- 3. Document your results on the following slide.





www.Cmmilra

EXERCISE: SAMPLE EXAM QUESTIONS

1. In an agile development environment, 2. A lifecycle model in which phases progress requirements: from requirements to preliminary design to detailed design and so forth is likely: a. Are written on-the-fly, by each developer a. Agile b. Must be written as "shall" statements to be fully compliant b. Waterfall c. May be expressed as a backlog of user c. Scrum stories or epics d. Kanban d. Vanish when the cleaning people erase the whiteboard All Rights Reserved