CMMI® V3

BUILDING ORGANIZATIONAL CAPABILITY

with Dragons

Wild Bill Smith

DAY 1

SAMPLE SLIDE

Version 3.0.1

5/23/2024

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ENGINEERING & DEVELOPING PRODUCTS

TECHNICAL SOLUTION

SAMPLE SLIDE

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EXERCISE SCENARIO: FANTASY

STEAMPUNK LLAMA PIZZA

SAMPLE SLIDE

A new pizza place is opening in Tech City — Steampunk Llama Pizza!

Fill each box with the practice number that best fits the situation.
(There may be more than one good choice.)

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EXERCISE SCENARIO: FANTASY

STEAMPUNK LLAMA PIZZA

SAMPLE SLIDE

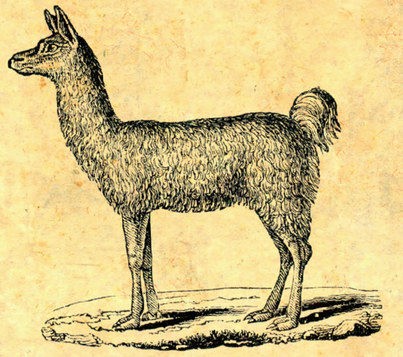
A new pizza place is opening in Tech City — Steampunk Llama Pizza!

1. New hires are trained, the oven is tested, and a pizza-making llama chef makes sure that ingredients are on hand to make the first several dozen pizzas. A taste test is conducted and the pizza passes with flying colors!

SDM 2.6

2. A hungry customer calls Steampunk Llama Pizza and orders a large mutton pizza.

SDM 2.2



PIZZA FIT FOR MAN AND BEAST

SLP

3. Twenty minutes later, a delivery llama hands the pizza to a hard-working Rollicking Robots development team member.

SDM 2.3

4. After six months in business, demand for SLP pizza is off-the-charts! But their employees are stressed and turnover is high. They also have problems honoring their 30-minute guarantee. Management studies the situation.

SDM 2.4

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SAMPLE SLIDE

We'll hear more about the vikings when we resume class tomorrow. In the meantime, **please have a relaxing evening.**

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ENSURING QUALITY

PROCESS QUALITY ASSURANCE

SAMPLE SLIDE

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ENSURING QUALITY

EXERCISE: ELEVATOR SPEECHES

1. I'll divide you into mini-teams of 3 (or so).

2. Each team will choose RDM, VV, PR, or PQA, and construct an "elevator speech" of the format: "Remember when <we did something bad>, wouldn't it be great if <we did something better>?"

3. If possible, make the speech about something that **one of you has experienced** on the job. Or, if you're feeling creative, center it on some **Viking drama.**

4. After we return, I'll ask some teams to share their speeches.

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EST

PLANNING & MANAGING WORK

ESTIMATING

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EXERCISE SCENARIO - FANTASY

THE BELLICOSI

SAMPLE SLIDE

The Bellicosi are an alien species planning to invade and conquer a tiny blue planet revolving around an inconsequential star.

1. Before their first visit to the blue planet, the Bellicosi developed a “rough order of magnitude” (ROM) estimate of the cost to invade and conquer it, based on the limited data they could gather from six light years away.

EST

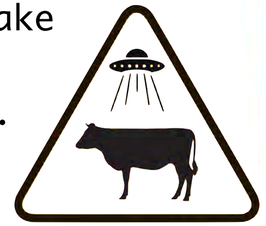
2. The Bellicosi’s Commander Callous developed a Work Breakdown Structure (WBS) of tasks and activities needed to execute an invasion (e.g., “Build or acquire appropriately outfitted spaceships.”)

EST

3. Commander Callous has estimated that Phase 1 of the invasion will require a military force of 1 command ship, 6 carriers, 24 “peace-bringers,” and 120 fighters. Also 1500 personnel, covering 24 job specialties, will be needed.

EST

4. The Bellicosi have conquered six other planets recently, each time recording effort and cost, along with characteristics of the species conquered. They’ve used this data to estimate the work needed to take over the blue planet.



EST

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LEVEL 2 PRACTICES

EXAMPLE RASCI CHART

SAMPLE SLIDE

Responsible, **A**ccountable, **S**upportive, **C**onsulted, **I**nformed

For a more complete explanation, see https://www.interfacing.com/what-is-rasci-raci

Tasks	Stakeholders					
	The Mighty Foo of Whoomp	Commander Callous	Dylan Nicely	Ridley Rolliker	Geena Genial
Plan and conduct the invasion	A	R	S		I
Procure needed ships and supplies	I	A		R	
Establish government on conquered planet	A		R		C
Establish mining operations	A		R	S	C

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MANAGING BUSINESS RESILIENCE

RISK & OPPORTUNITY MANAGEMENT

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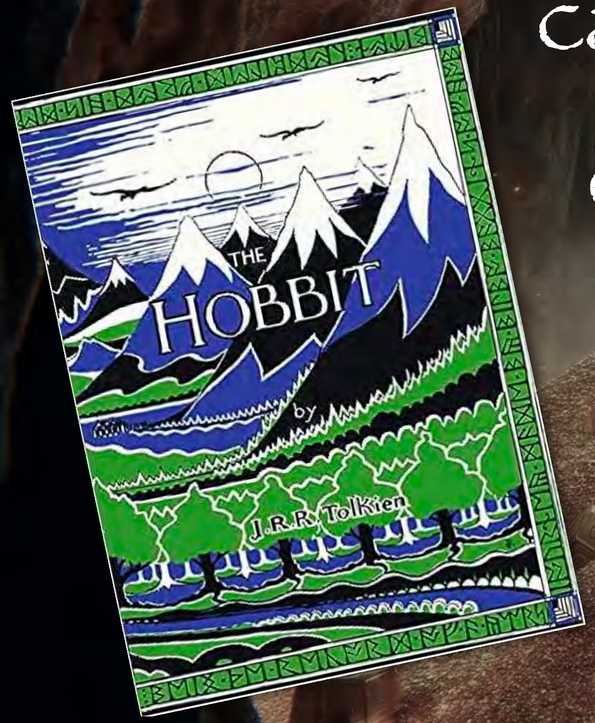
LEVEL 2 PRACTICES
QUOTE

SAMPLE SLIDE

"It does not do to leave a live dragon out of your calculations, if you live near him."

Gandalf, in J.R.R. Tolkien's "The Hobbit"



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EXERCISE SCENARIO - FANTASY

THE ENCHANTED FOREST

SAMPLE SLIDE

The Enchanted Forest is full of fairies and other magical creatures. Be careful as you journey through it, though. *You may never want to leave.*

1. You tire while walking through the Enchanted Forest, and identify possible courses of action: (1) drink from a beautiful spring beside a sign saying "Drink Me," (2) nap atop a huge and unusually comfortable-looking mushroom, (3) follow that wolf, or (4) snack on the caffeine gummies in your pocket.

DAR

2. You decide to eat the caffeine gummies, using "likelihood of staying alive" as your primary criteria and the "expert judgement" you've accumulated while on your journey as your method.

DAR

3. A Fairy Queen rules the tribe of fairies living in the Enchanted Forest. By virtue of her position, her decisions are final… although she does enjoy a spirited debate.

DAR

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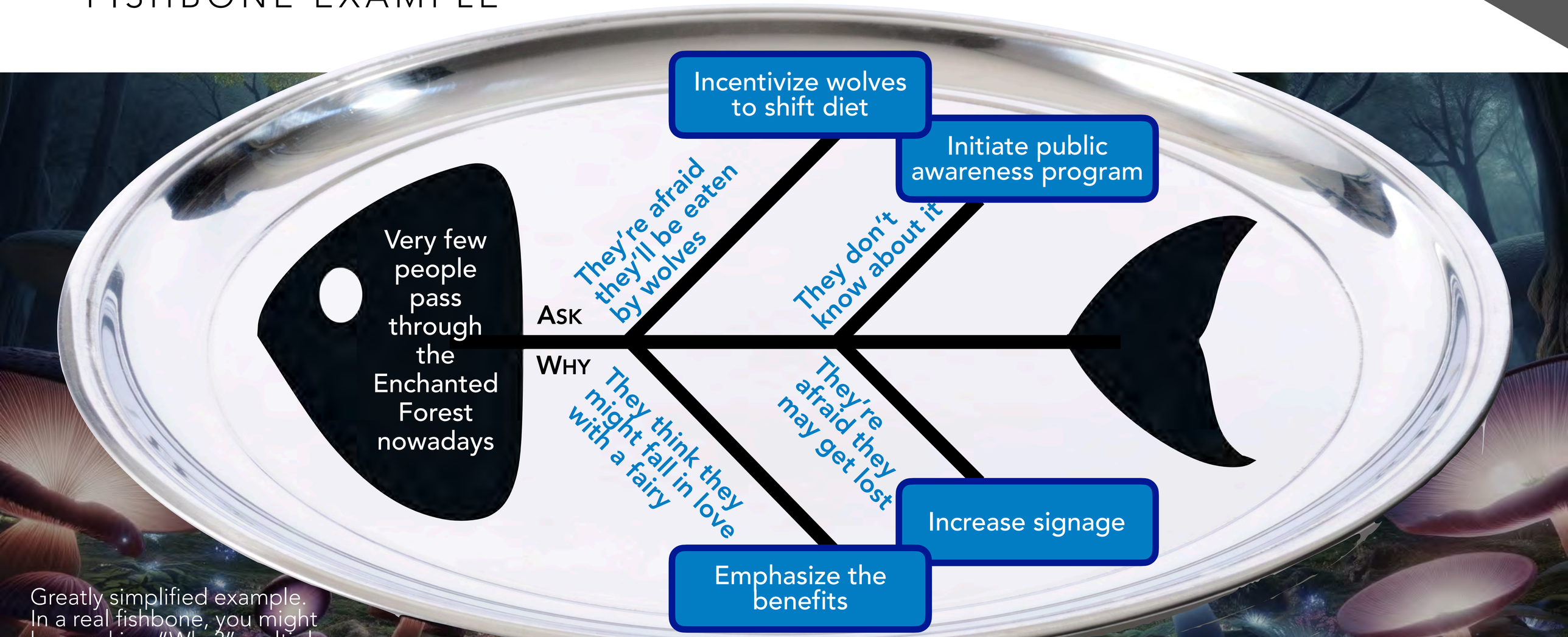
LEVEL 3 PRACTICES
FISHBONE EXAMPLE

SAMPLE SLIDE



Greatly simplified example. In a real fishbone, you might keep asking "Why?" multiple times for each branch.

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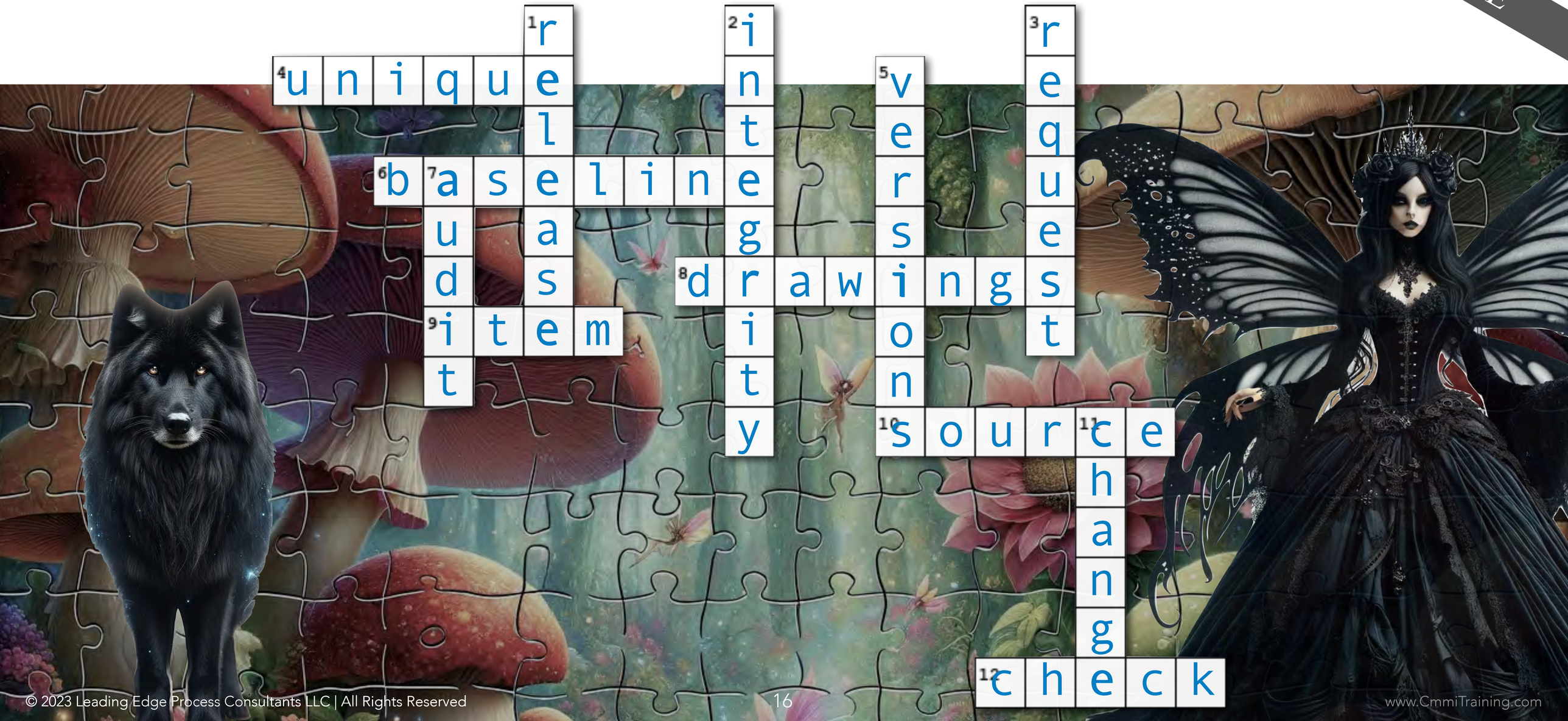
EXERCISE: CROSSWORD (SOLUTION)

SAMPLE SLIDE



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EXERCISE: SAMPLE EXAM QUESTIONS

SAMPLE SLIDE

1. The comprehensive availability of data attributes based on requirements:

   a. Conformity
   b. Availability
   c. Coverage
   d. Completeness

See DQ 2.1, Additional Explanatory Information

2. Typically involves removing or correcting inaccurate, corrupted, duplicate, improperly formatted, or incomplete data:

   a. Data cleansing
   b. Data quality assessment
   c. Data audit
   d. Redlining

See Glossary

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EXERCISE SCENARIO: FANTASY

TEAM UNICORN

SAMPLE SLIDE

Team Unicorn functions as a force of good throughout the Tenacious Kingdom. They've been appointed security agents for the walled village of Strongholdia and its surrounding area.

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EXERCISE SCENARIO: FANTASY

TEAM UNICORN

SAMPLE SLIDE

Team Unicorn functions as a force of good throughout the Tenacious Kingdom. They've been appointed security agents for the walled village of Strongholdia and its surrounding area.

1. Team Unicorn, after speaking with King Goodheart, has identified key security threats to Strongholdia including: land attacks from Threatwood, sea attacks from Pirate Bay, unauthorized visitors, and social unrest.

MST 1.1

2. Team Unicorn has also identified key vulnerabilities, including the coastline, outlying settlements (beyond the castle walls), the food and drink supply, and the King's penchant for socialization.

MST 1.1

3. Security criteria include degree of threat to the well-being of the King and Queen, well-being of other persons in the Kingdom, the crown jewels, the castle itself, and houses in the kingdom.

MST 2.2

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PCM

IMPROVING PERFORMANCE

PROCESS MANAGEMENT

SAMPLE SLIDE

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LEVEL 1 PRACTICES

EXAMPLE PROCESS GROUP HIERARCHY

SAMPLE SLIDE

Capt. Compassionate

Management Steering Group

Sets strategies, provides funding

Buccaneer Process Group (BPG)

Manages & facilitates improvement

Management PAT

EST, PLAN, MC, RSK

Improvement PAT

PAD, PCM, MPM

Other PATs

As needed

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PAD

IMPROVING PERFORMANCE

PROCESS ASSET DEVELOPMENT

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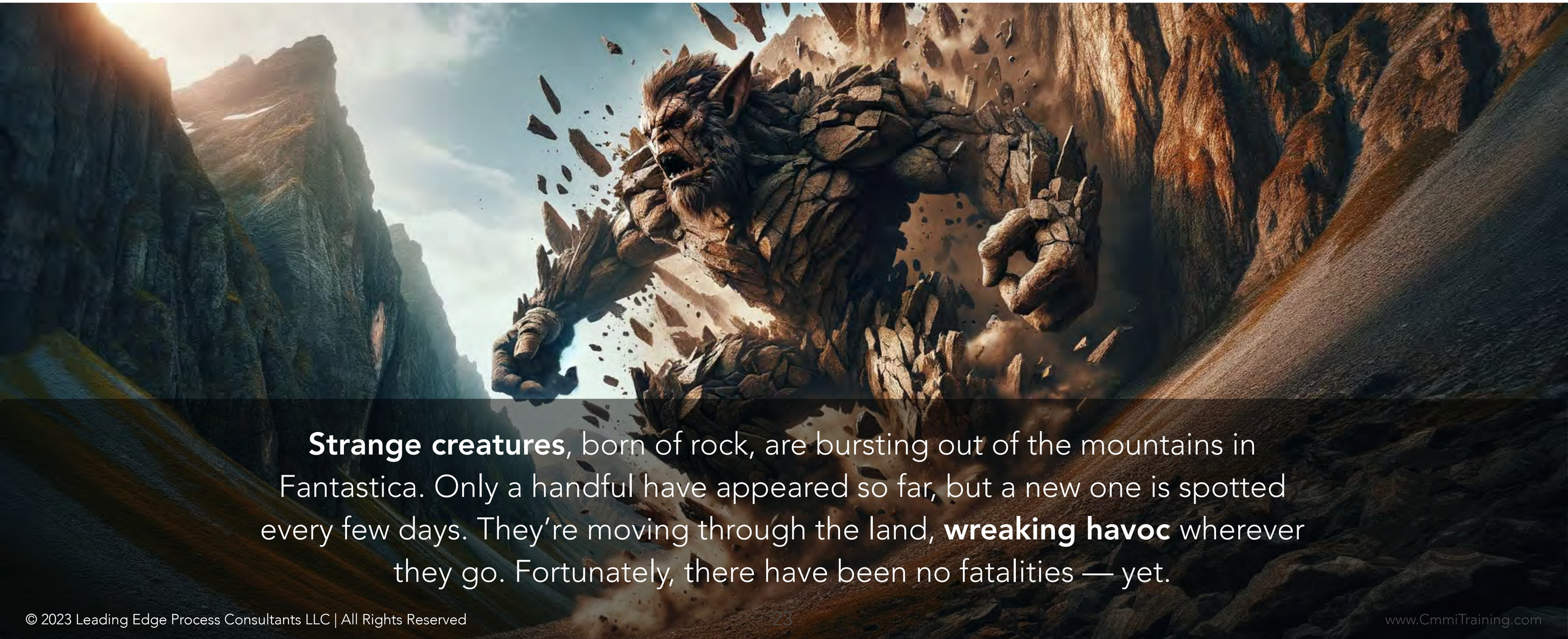
SAMPLE SLIDE

GOBLIN ALERT

SCENARIO



Strange creatures, born of rock, are bursting out of the mountains in Fantastica. Only a handful have appeared so far, but a new one is spotted every few days. They're moving through the land, **wreaking havoc** wherever they go. Fortunately, there have been no fatalities — yet.

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NEXT STEPS

THE **CMMI PRACTITIONER** CERTIFICATION EXAM

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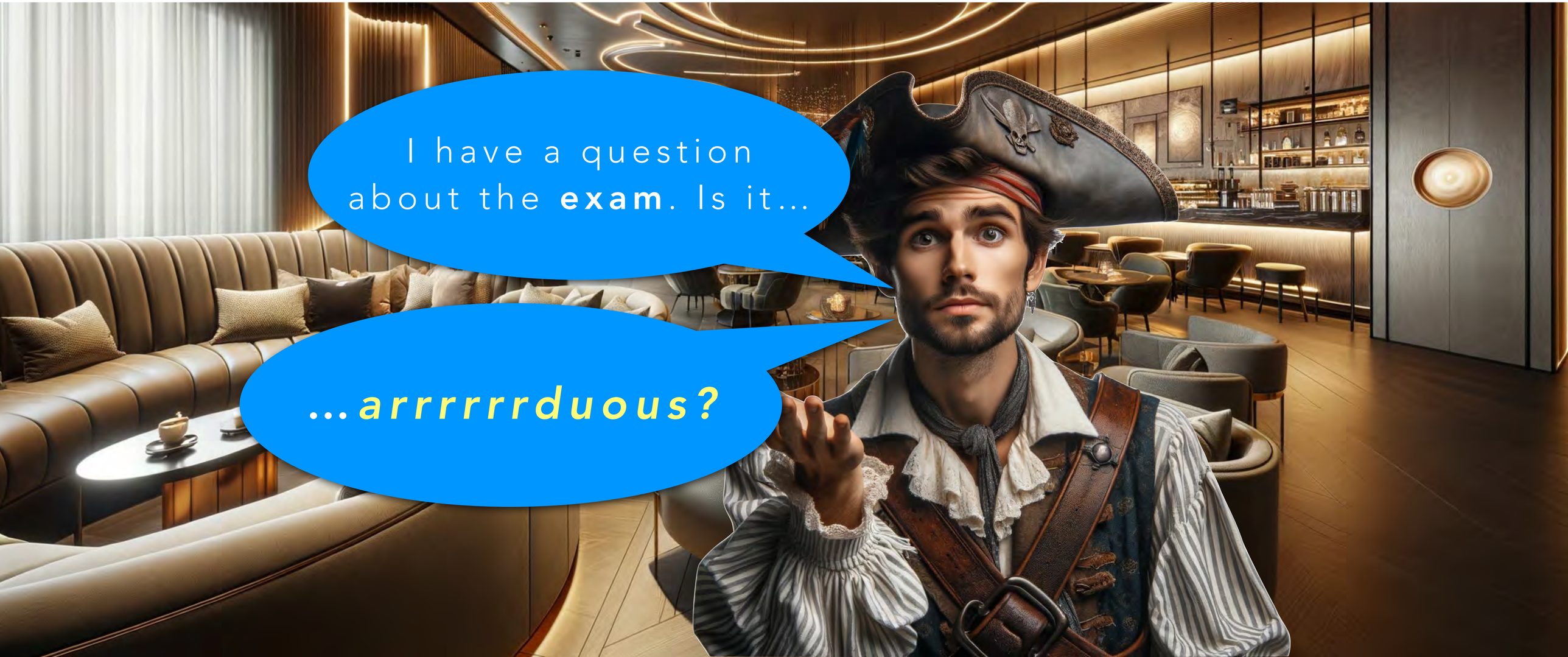

NEXT STEPS

GRADUATION

SAMPLE SLIDE

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