I Wonder Why? – a Systems Thinking Workshop





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Hello!

I am **Dhaval Panchal**

I am here because I want to share how to think in systems.

You can find me at www.evolveagility.com





Just five more minutes, office space, iceberg ahoy!



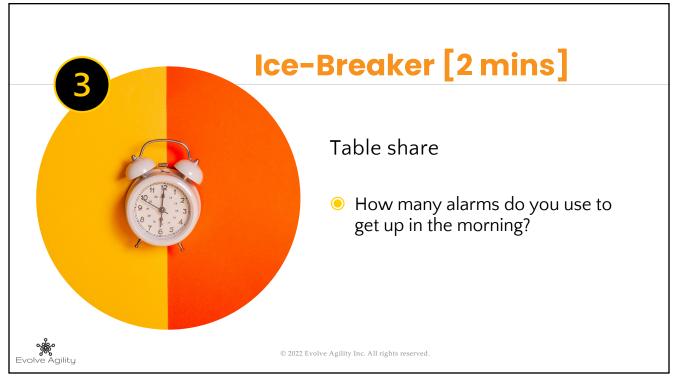
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AB

a Workshop

- Masks please
- Learn together to grow together
- Be respectful of each others needs
- Be mindful of activity time boxes
- Be present, participate, have fun!
- Its ok to let others "win" arguments
- Q&A at the end





In the morning I will myself out of bed and then we get into our frantic daily routine. Tensions rise as we try to get our children ready for school because it is difficult to find their items. Their water bottles or lunch boxes are not where they are supposed to be. Why can't things be put in their proper place? If only all things were kept in their proper place, it would be so much easier to get ready for the day.





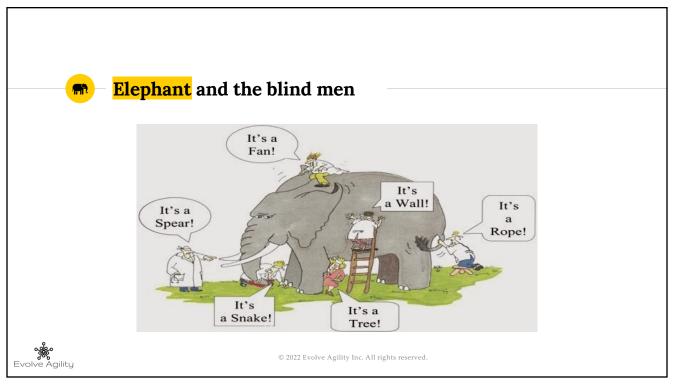
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Jumping to conclusions is NOT Systems Thinking





■ Elephant in the room

- Challenges are perceived and experienced differently by every individual
- Some may be paying an unfair price to cope with the problem
- No one may see the whole problem





Systems Thinking

Events

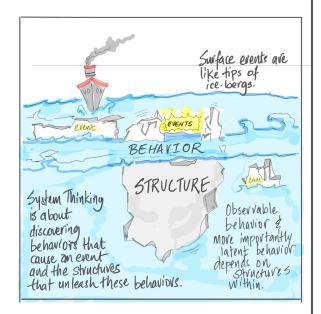
Facts as presented, witnessed, and interpreted.

Behavior/Patterns

Trends, or changes in events over time.

Structure

Invisible interrelationships of systems parts, that can be detected by the evidence it leaves behind.





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[1 min]

I wonder why I'm always rushing to get ready

Also available in your handout

I had snoozed my alarm a couple of times already. Getting up on first alarm would give me more time for morning routine. Starting my day refreshed would make it easier for us to get the kids ready. But even when my spouse impatiently nudges me to wake up, I say "just five more minutes". Hoping that a little extra time in bed will energize me to start the day.

The night before

Post dinner snacks while watching television is my favorite way to unwind at the end of the day. I'm prone to get caught up in a series and watch one too many episodes late into the night. And a refill of my favorite snacks usually follows when I cue in another episode. I know better not to snack or watch television late into midnight because it makes it difficult to fall asleep. Not enough sleep impacts my ability to wake up on first alarm.



Workshop: Section 1 Simplified Cause & Effect Modeling

More or less, picture > 1000 words, not a presentation



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Workshop Structure

- Table group works on only one puzzle
- Three puzzles at different

resolutions

- 1. Individual
- 2. Team
- 3. Organization
- I will use "rushing to get ready" as reference puzzle so as to provide instructions

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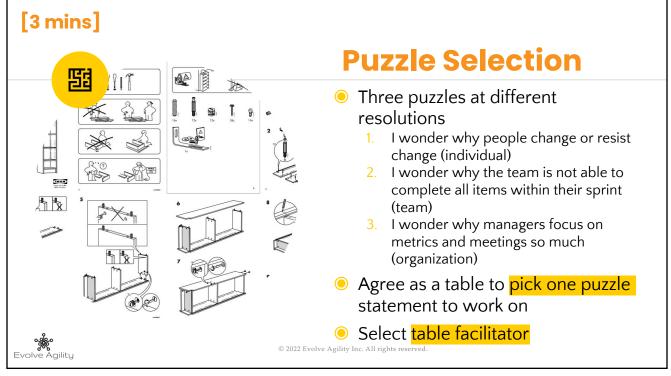
Preparatory Steps before modeling

- Identify a topic or a story
- 2. Engage in dialogue with people (actors) in the story
- 3. Write down your story concisely
- 4. Choose 5–8 factors/elements that are important to changes in the story: they increase or decrease in the story
- 5. Express these elements as nouns or noun phrases
- 6. Secure collaborative agreement on the narrative
- 7. Avoid jumping to conclusions

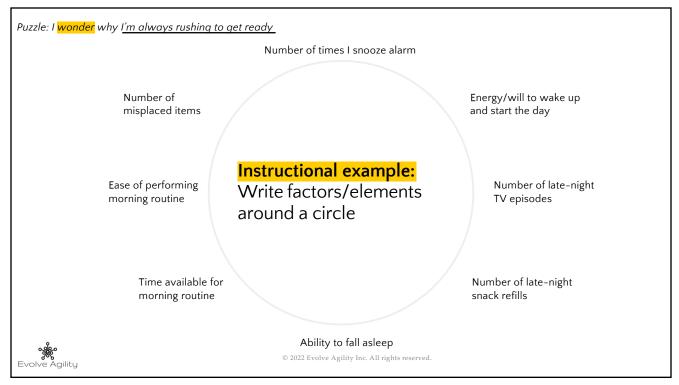
These steps are already completed for your puzzles in this workshop. IRL complete steps above by collaborating with people in your organization

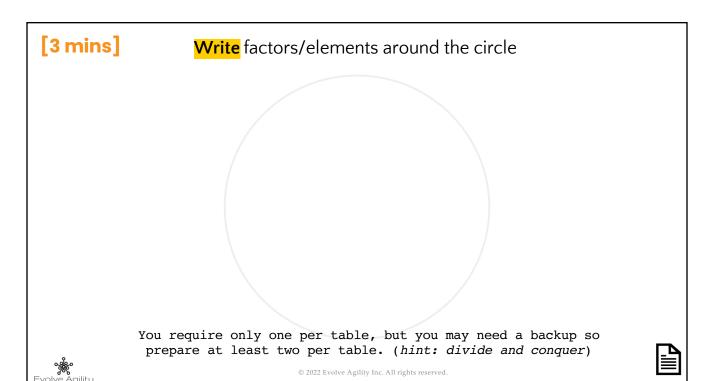


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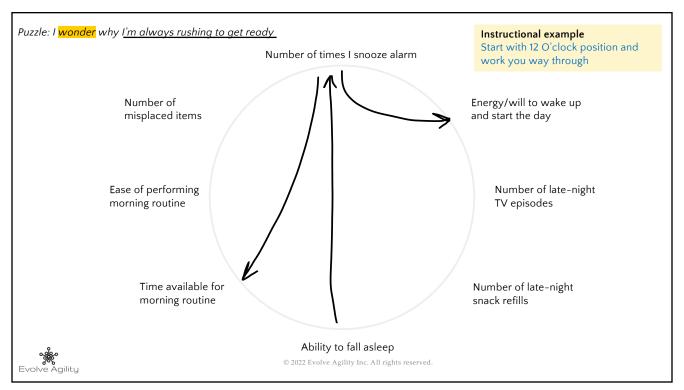
Simplified cause → effect modeling

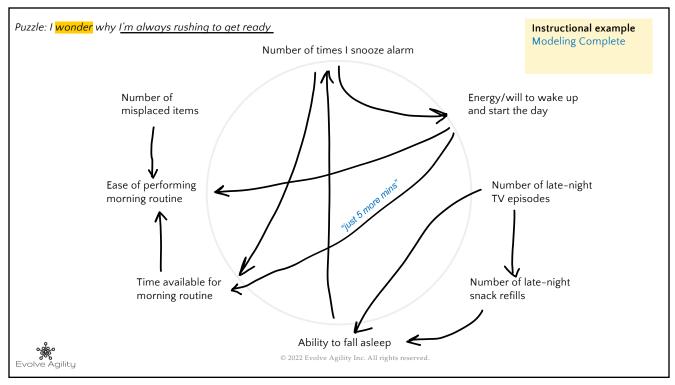
- Reference your puzzle narrative for evidence of causal relationship between factors/elements
- 2. Does increase or decrease in a factor cause an increase or decrease in another factor?
- 3. Draw an arrow from cause \rightarrow effect

Tips

- Pick **only** most dominant direction for arrow
- Start with the factor at 12 O'clock position and work your way through remaining factors in clockwise direction
- Then select the next factor in clockwise direction and work your way through the now remaining factors in clockwise direction







[15 mins]

Let's dive In [Model: Part 1 of 2]

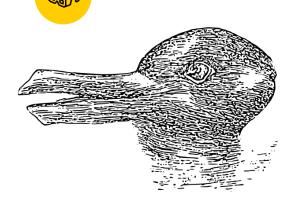
Gentle reminders:

- Try to keep cause -> effect modeling consistent with puzzle narrative
- We model to engage in dialogue
- People may interpret same set of facts differently, and that is OK.
- Seek to understand before you ask to be understood.

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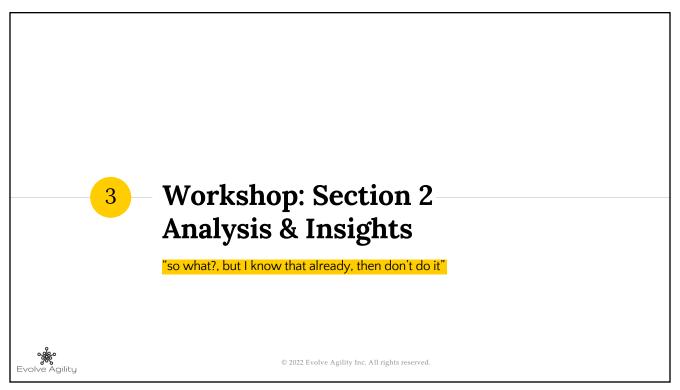
What do you see?

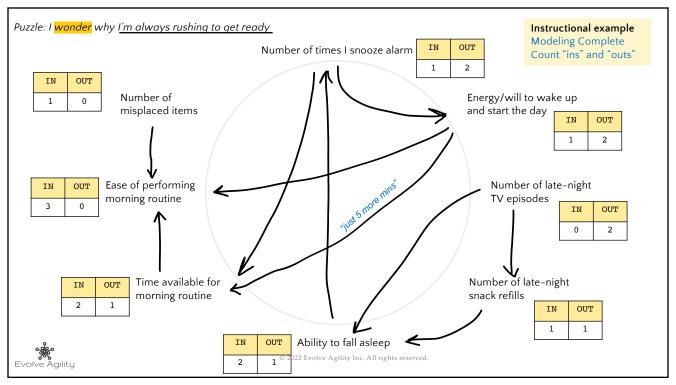


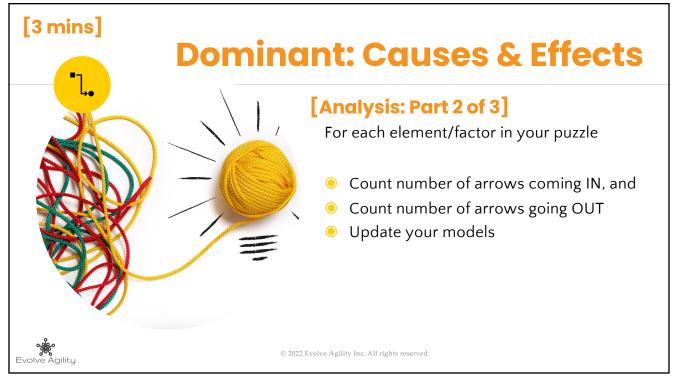
- No two groups will likely have the same results, because they had different conversations, interpretations, and shared understanding.
- Modeled diagram will make most sense to the participants who created it
- Do not present to others as "truth" there will always be blind spots. Engage them in modeling your systems together with you

Whiteboards (Physical, not electronic) are the most effective for modeling

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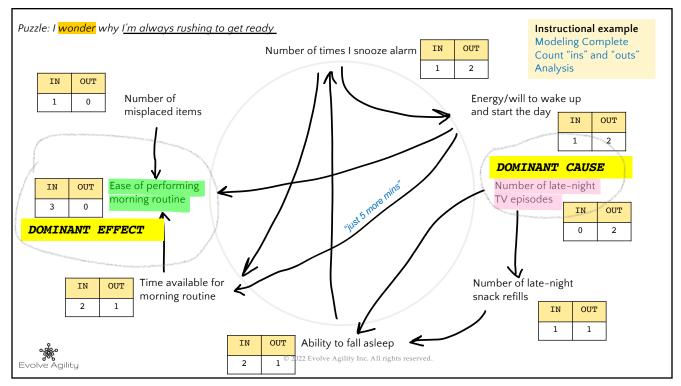


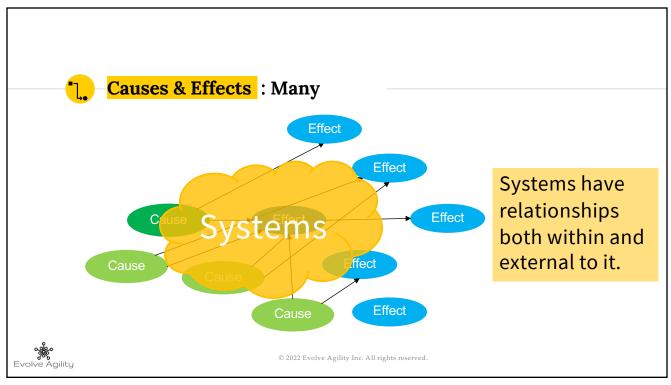


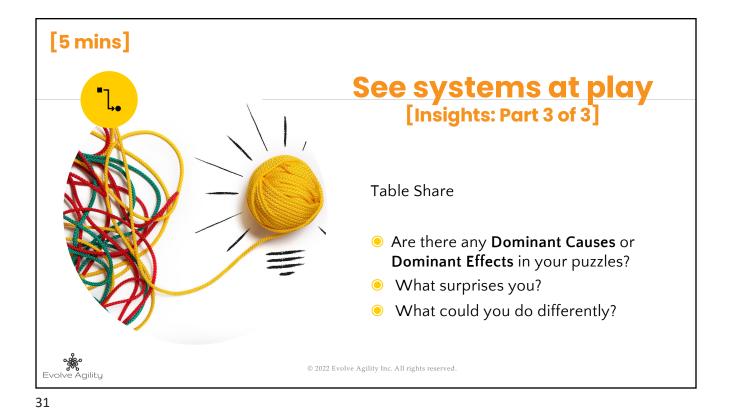
In the morning I will myself out of bed and then we get into our frantic daily routine. Tensions rise as we try to get our children ready for school because it is difficult to find their items. Their water bottles or lunch boxes are not where they are supposed to be. Why can't things be put in their proper place? If only all things were kept in their proper place, it would be so much easier to get ready for the day.





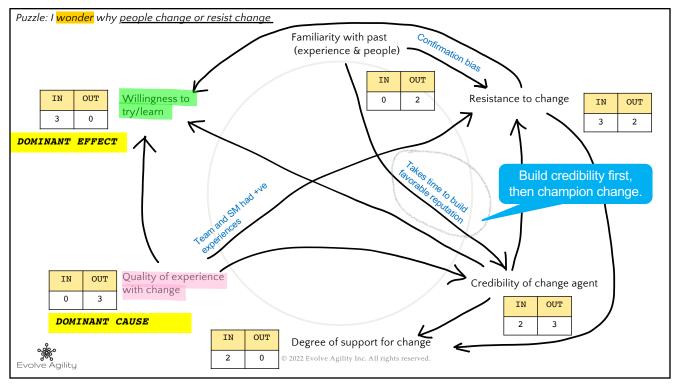




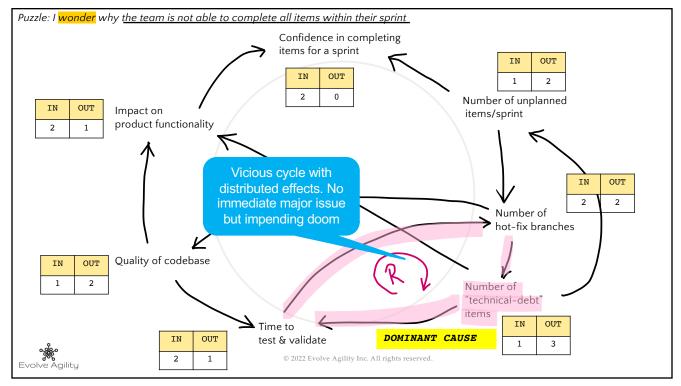


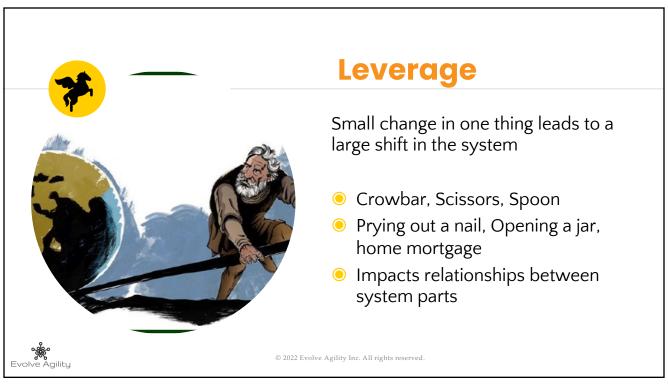
Pour table modeled what your group interpreted
No "right" or "wrong"
Here's how your facilitator solved these puzzles

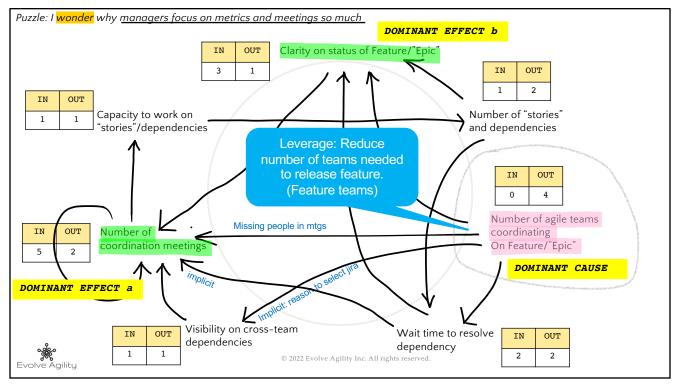
Your results may vary, and that is ok
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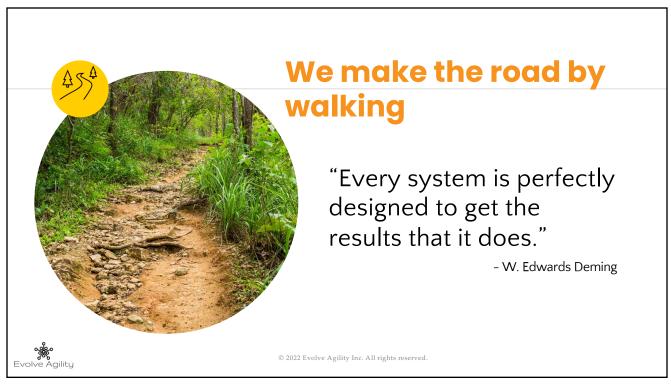


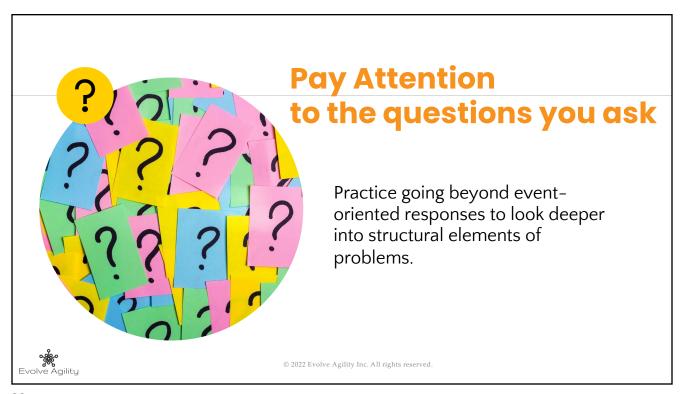


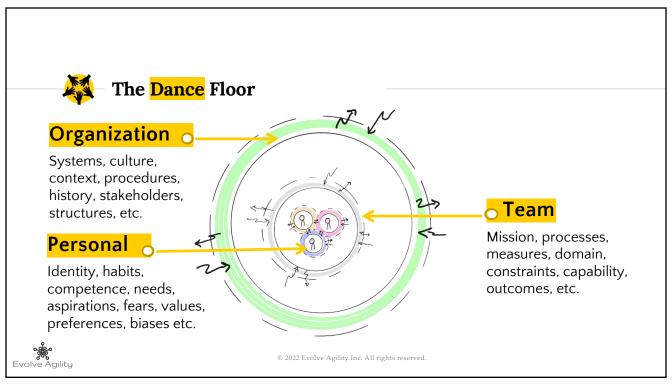












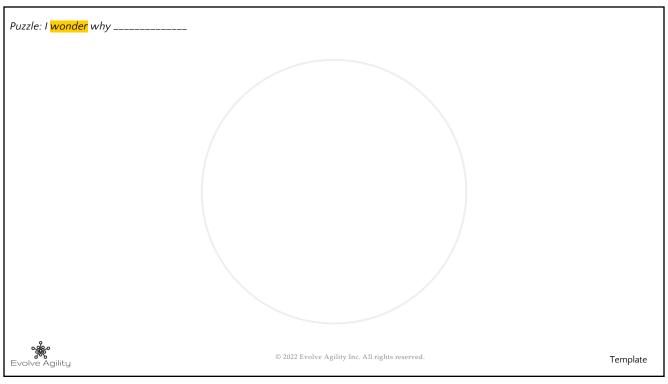


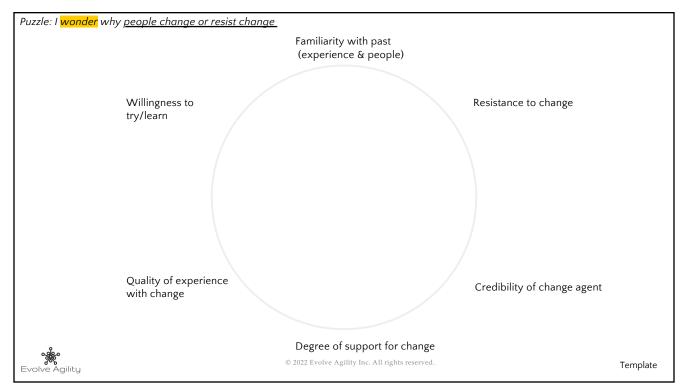


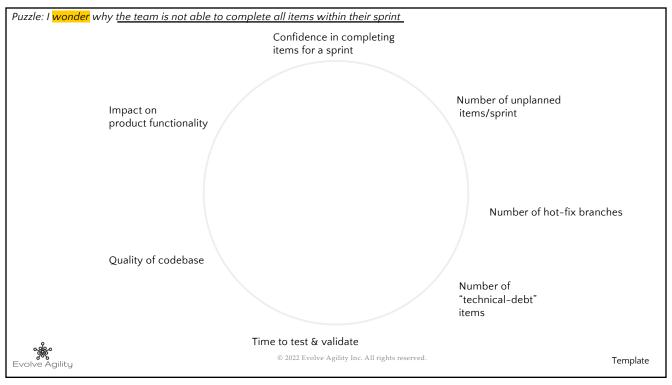
Reference Templates

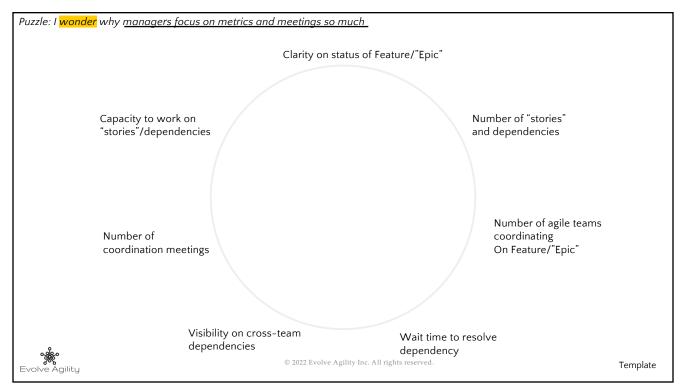


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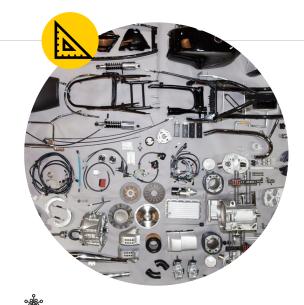








THE END



Collection

Addition or removing of parts does not affect its functioning and relationships

System

Parts of the system must be present and arranged in a specific way to carry out the systems purpose.