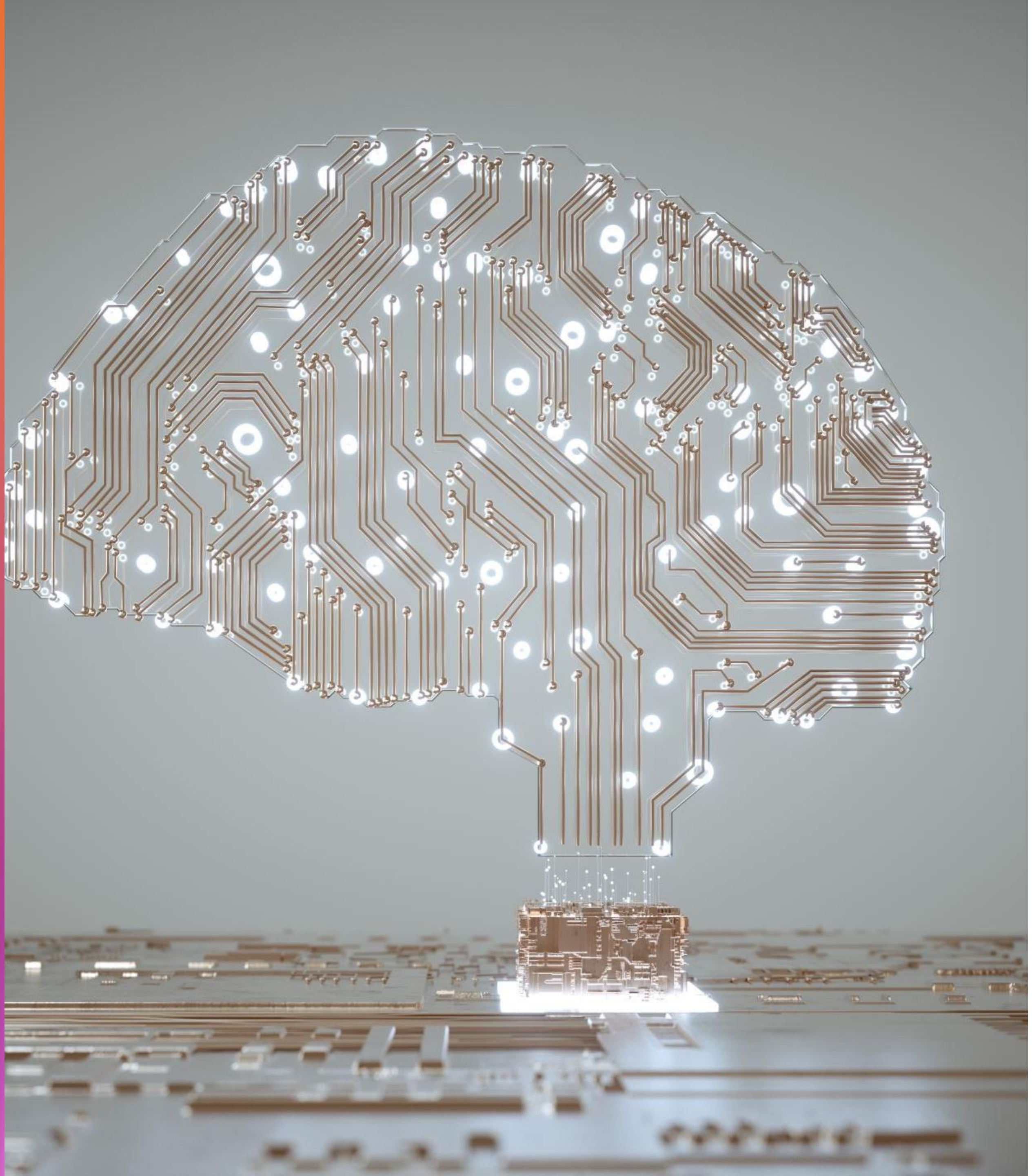
What the heck are Hermeneutics?

…and how you can use this to level up your CTI game

Intro – Training session

- What exactly did you get yourself into for the next 40 mins.
- We are going to learn about Cyber threat intelligence
- How to use skills you may already have to create finished intelligence
- Where and how to practice your skills
- Why liberal arts are the missing element of CTI and Cyber
- And of course.. What the heck is Hermeneutics



Reflection – Why Cyber Threat Intelligence

For me.. it's the Aha moments which is the heart of information sharing.

Hermeneutics

From Wikipedia

Hermeneutics: is the theory and methodology of interpretation especially the interpretation of biblical texts, wisdom literature, and philosophical texts. As necessary, hermeneutics may include the art of understanding and communication.

Modern hermeneutics includes both verbal and non-verbal communication as well as semiotics, presuppositions, and pre-understandings. Hermeneutics has been broadly applied in the humanities, especially in law, history and theology.

Hermeneutics – As a framework for creating finished intelligence

Hermeneutics fundamentals

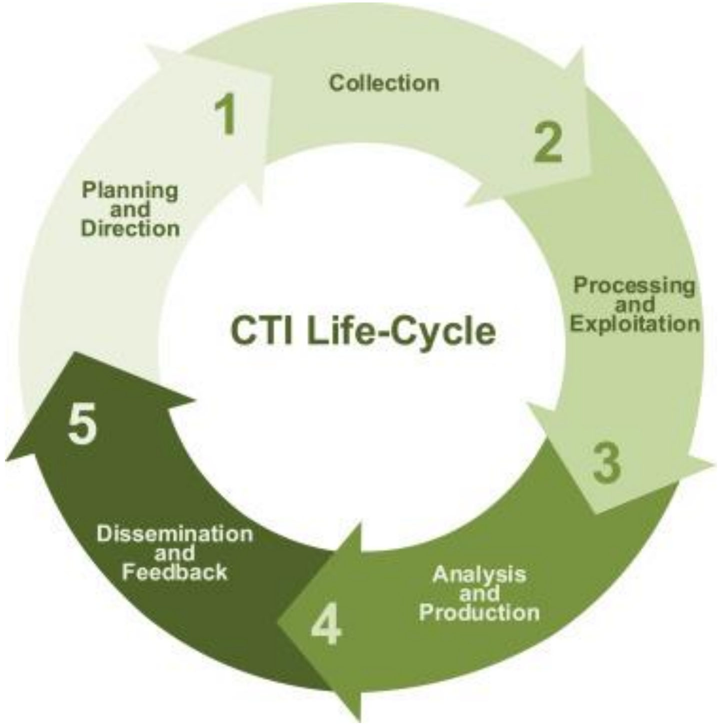
Hermeneutics circle

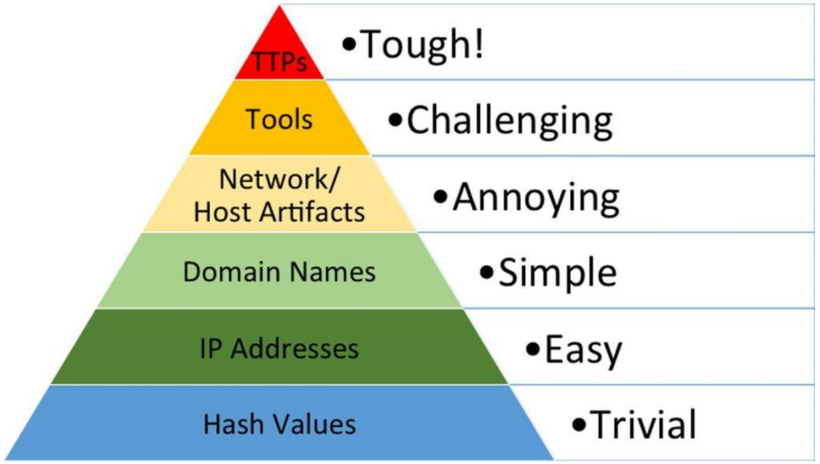
Presuppositions

Signs and symbols – (Emoji’s and Memes)

What CTI training looks like today

Lifecycle + Pyramid = Profit





Congrats you're all now threat analysts!!

NOW WHAT?

HOW DO YOU CREATE FINISHED INTELLIGENCE?

WHERE DO YOU START?

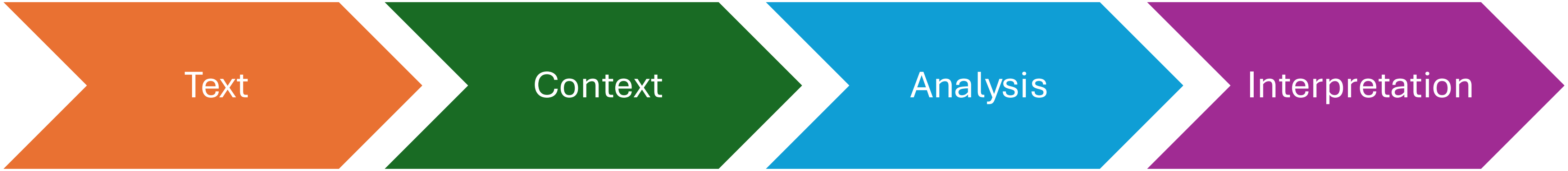
The feedback loop

…. Often broken

Still a circle?

Source: A Roadmap for SMEs to Adopt an AI Based Cyber Threat Intelligence.

Visualizing the analysis process



The problem with AI

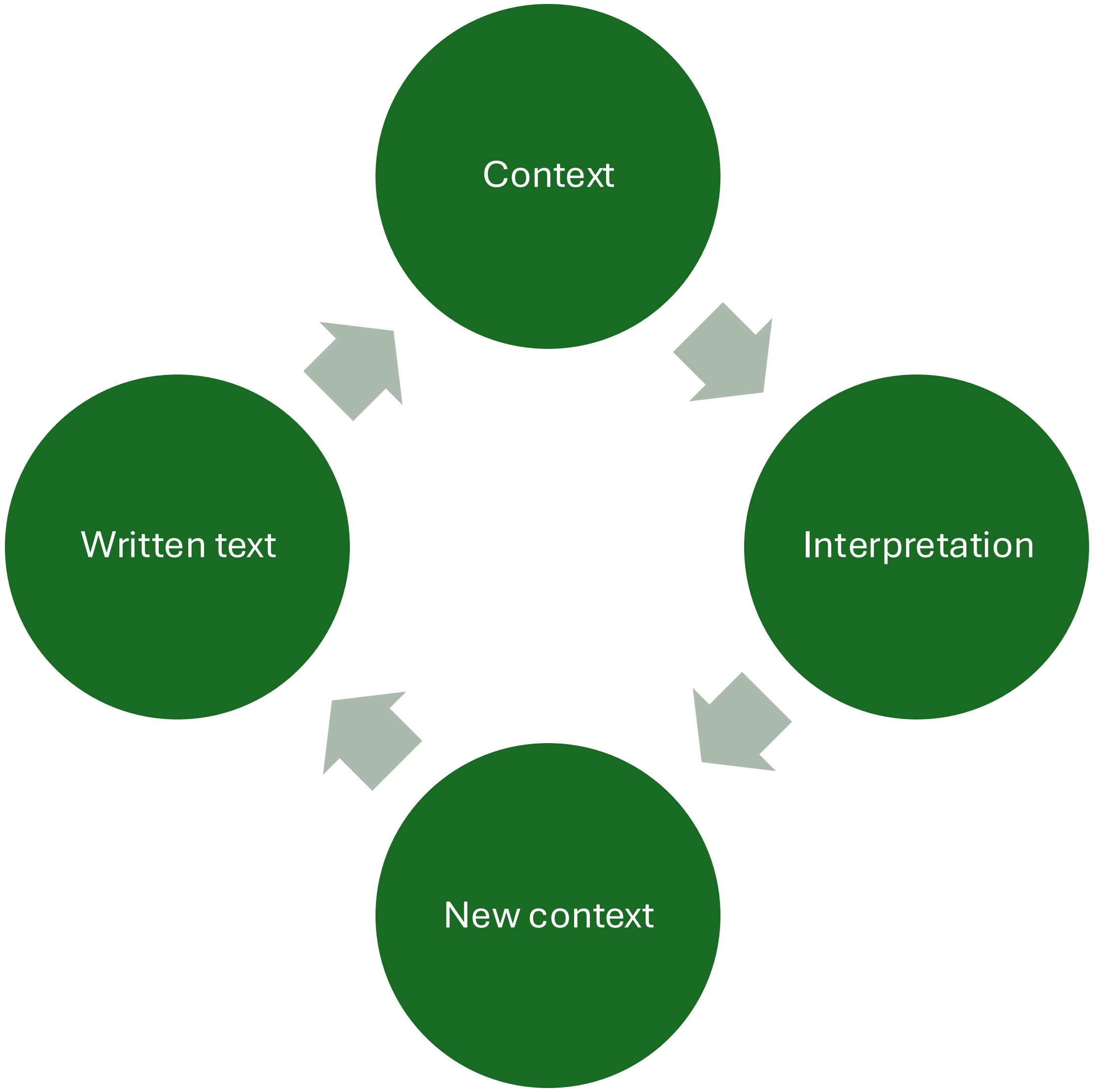
If AI developers don’t understand the how and why of what makes good intelligence. How can we expect them to train the models to produce the end product we are looking for?

Not a linear process

Text must be revisited when:

- Challenging bias
- When provided with new information
- Considering differing points of view
- If the process were linear – How would we be able to change our mind when presented with new information.

The hermeneutic circle



Have a Human In the loop

AI’s answer of how things SHOULD work!

If done well – AI in CTI

- Amazon Fresh – Just walk out stores.

Hermeneutics as a framework

And how to use it to create finished intelligence.

Why the why?

Understanding priorities.

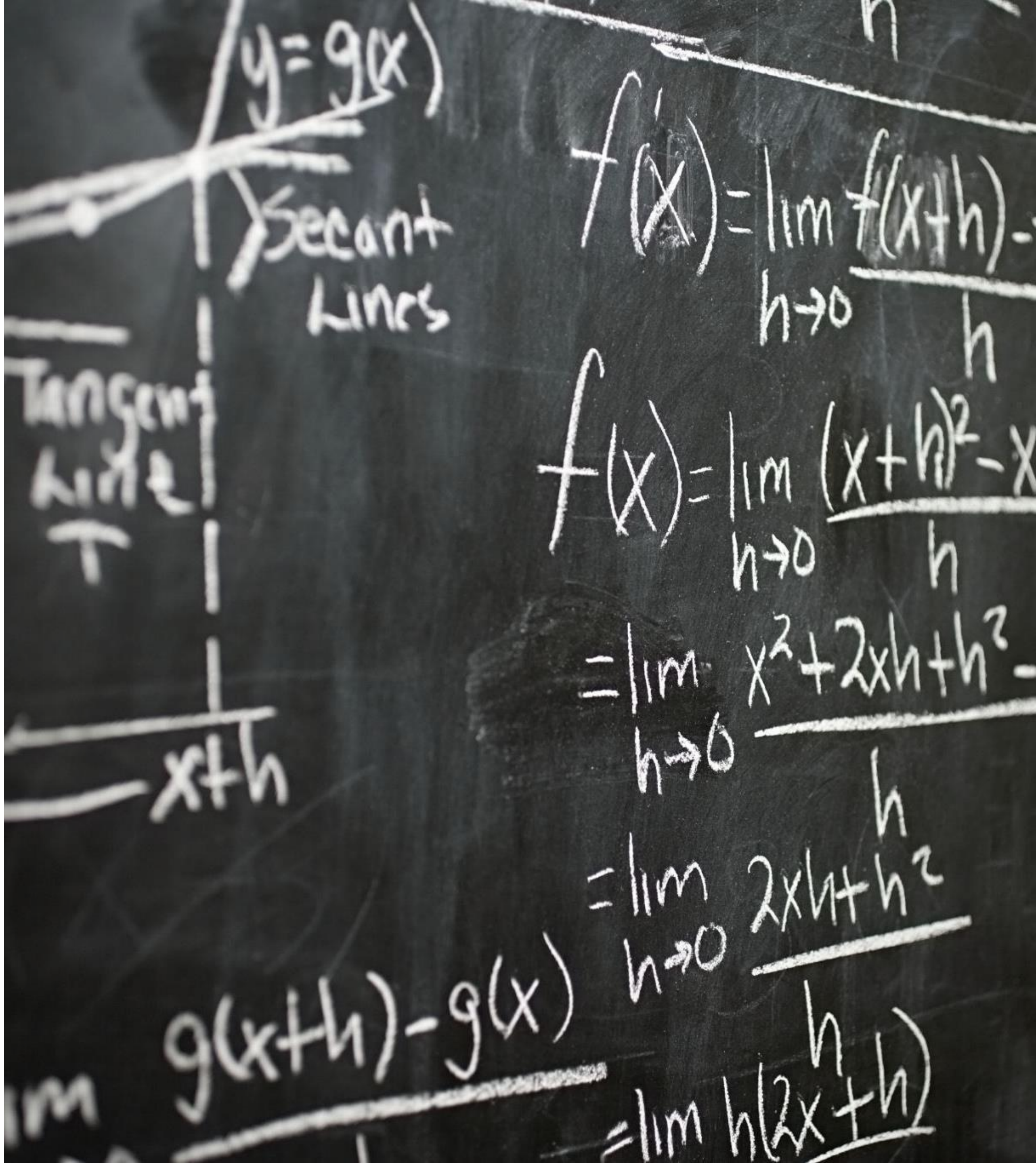
Answering the question – Why is this important. And how will this information help you.

Where to start?

- Understand the objectives of the entity you are providing the intelligence to.
- Find the fallacies – it may be important to call them out
- Limit your information to only what is needed. Respect time and resources of the people, organizations, you are sharing the information with.

Presuppositions

Be aware of the fallacies of built-in presuppositions



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If you refuse to cooperate with us, it will lead to the following consequences for your company:
1. All data downloaded from your network will be published for free or even sold
2. Your system will be re-attacked continuously, now that we know all your weak spotsr

3. We will also attack your partners and suppliers using info obtained from your network
4. It can lead to legal actions against you for data breaches

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IF THEN

The Delivery Matters!

GIVING A BRIEFING

WRITING A REPORT

WRITING A BULLETIN

INFORMATION SHARING CALLS (OFTEN CALLED "STORY TIME")

Briefings

- Keep them short and concise
- Not the time to share your credentials or all your research.
- Respect TIME!
- 3-part briefings work well

3 Part Briefings + Call to action

- Each part limited to only the information necessary
- Builds upon the last section
- Delivered as a part of the whole
- Include a final call to action

Briefing

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You will also receive a detailed list of vulnerabilities used to gain access to your network.
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Empathy

Experience what it is to be human.

Where to practice your skills

- Social media
- Movies
- Music
- Poetry
- Art
- Philosophy
- Psychology

Thank you!

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