Threat Risk Analysis Flow

The diagram contains the following nodes and relationships:

- Asset Owners — **sets** → Thresholds
- Asset Owners — **wish to reduce** → Risk
- Asset Owners — **authorise** → Actors
- Asset Owners — **own** → Assets
- Thresholds — **to define** → Key Risk indicators (KRI)
- Key Risk indicators (KRI) — **sets** → Appetite
- Key Risk indicators (KRI) — **informs** → Key Performance Indicators (KPI)
- Key Performance Indicators (KPI) — **Are measured and compared against** → Thresholds
- Key Performance Indicators (KPI) — **allow generation of** → Metrics
- Metrics — **measure** → Risk
- Appetite — **for** → Risk
- Countermeasures — **may be reduced by** → Vulnerabilities
- Countermeasures — **may contain** → Vulnerabilities
- Countermeasures — **reduce** → Risk
- Threats — **that exploit** → Vulnerabilities
- Threats — **to** → Assets
- Threats — **lead to** → Risk
- Threats — **Increase** → Risk
- Vulnerabilities — **contains** → Assets
- Vulnerabilities — **to** → Risk
- Processes — **may contain** → Vulnerabilities
- Processes — **operate on** → Assets
- Actors — **work with** → Assets
- Actors — **execute** → Processes
- Actors — **operate in** → Environment
- Actors — **located in** → Environment
- Aggregate (Motivation, Access Opportunity, Capability) — **realise** → Threats
- Inhibitors (not a control) — **reduce** → Motivation
- Amplifiers — **increase** → Motivation
- Catalysts — **accelerate/trigger** → Motivation
- Motivation — **driven by** → Event Agents (Threat)
- Access Opportunity — **with** → Event Agents (Threat)
- Capability — **with** → Event Agents (Threat)
- Specific Event → Event Agents (Threat)

Glossary

Threat - Something that is likely to cause damage or danger

Risk - The probability or threat of quantifiable damage, injury, liability, loss, or any other negative occurrence that is caused by external or internal vulnerabilities, and that may be avoided through preemptive action.

Asset - Something that has value to the organisation.

Asset Owner - The person or people who are ultimately responsible for the system and/or data.

Actors - People process or thing.

Vulnerability - an inability to withstand the affects of a hostile environment.

Environment - the constraints people, systems and components within which a business system operates.

Countermeasure - A measure or action taken to counter or offset another one.

Specific Event - The attack

Event Agent - An entity that may execute the threat.

Inhibitors - Factors that deter an agent from executing the event

Amplifiers - Factors that may encourage the agent to execute the event.

Catalysts - Events or changes in circumstances that make the agent decide to act.

Motivation - What motivates the agent

Access Opportunity - Opportunity for access available to the threat agent (event agent)

Capability - Level of resources expected to be under the control of the event agent.

Thresholds - Levels of risk tolerance

Appetite - Level of risk that is acceptable to the Asset owner

Opportunity Analysis Flow

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Threat - Something that is likely to cause damage or danger
Opportunity - The probability or promise of quantifiable benefit, often exposed by external or internal vulnerabilities, and that may be exploited through preemptive action.
Asset - Something that has value to the organisation.
Asset Owner - The person or people who are ultimately responsible for the system and/or data.
Actors - People process or thing.
Vulnerability - an inability to withstand the affects of a hostile environment.
Environment - the constraints people, systems and components within which a business system operates.
Countermeasure - A measure or action taken to counter or offset another one.
Specific Event - The attack
Event Agent - An entity that may execute the threat.
Inhibitors - Factors that deter an agent from executing the event
Amplifiers - Factors that may encourage the agent to execute the event.
Catalysts - Events or changes in circumstances that make the agent decide to act.
Motivation - What motivates the agent
Access Opportunity - Opportunity for access available to the threat agent (event agent)
Capability - Level of resources expected to be under the control of the event agent.
Thresholds - Levels of risk tolerance
Appetite - Level of risk that is acceptable to the Asset owner