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CYBERSECURITY EVALUATION METHODOLOGY FOR EMBEDDED INDUSTRIAL COMPONENTS

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SCOPE

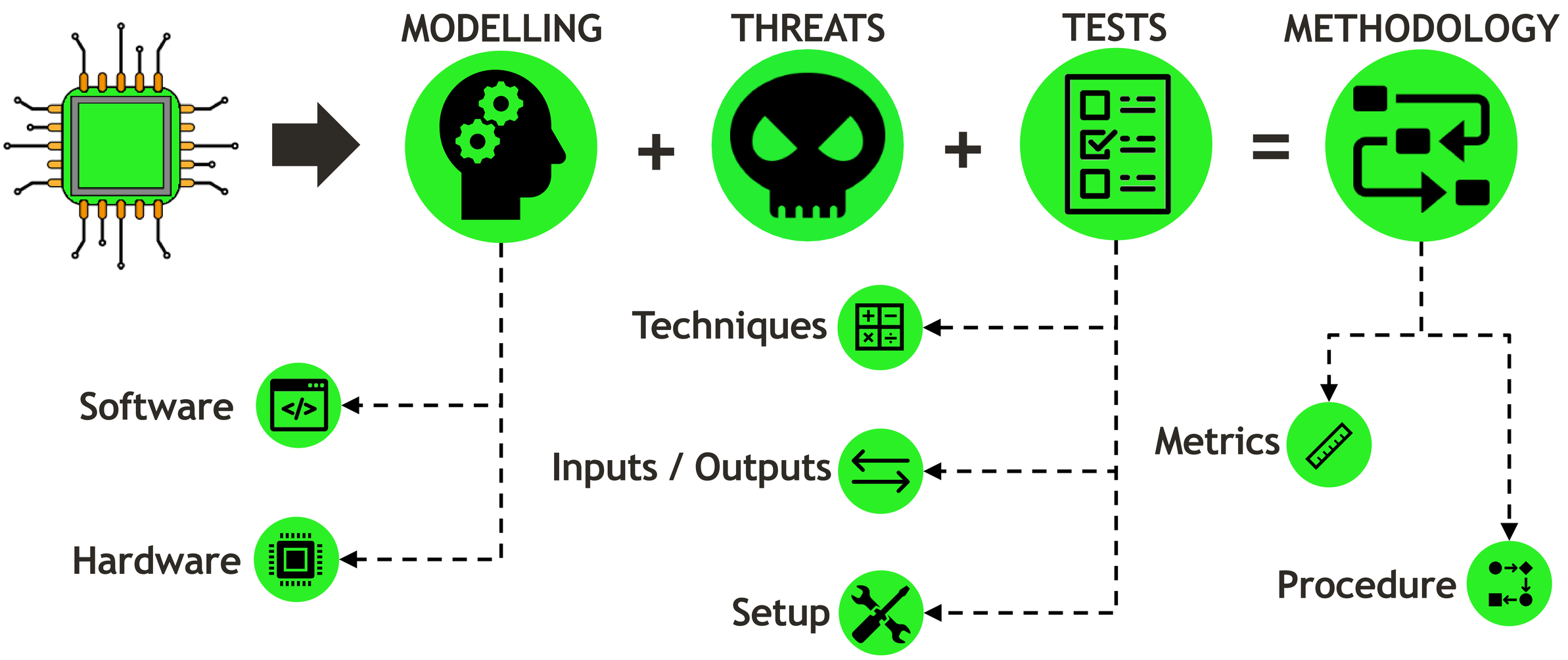
The cybersecurity evaluation aims to check whether cybersecurity is done right. There is an increasing number of security threats over embedded systems and countermeasures are applied to protect them against known threats, but...

- Do countermeasures work properly?
- Is their coverage enough to undermine threats?
- Are they implemented correctly?

BENEFITS

- Guidance throughout the testing.
- Structured procedure.
- Metrics.
- Embedded-oriented.
- Comparable tests and results.

OBJECTIVES



METRICS

Available methodologies do not usually propose metrics to know the level of security reached with all the controls and countermeasures. And when metrics are proposed, they are qualitative metrics or the way to obtain a final value is not clearly explained.

FEATURES

In order to be useful, the developed metrics must...

- Be a quantitative value.
- Have repeatability and reproducibility.
- Reflect the level of protection.
- Not be about risk.
- Be comparable.