

THREAT MODELING
CONNECT | POWERED BY
IRIUSRISK

THREAT MODCON 2024

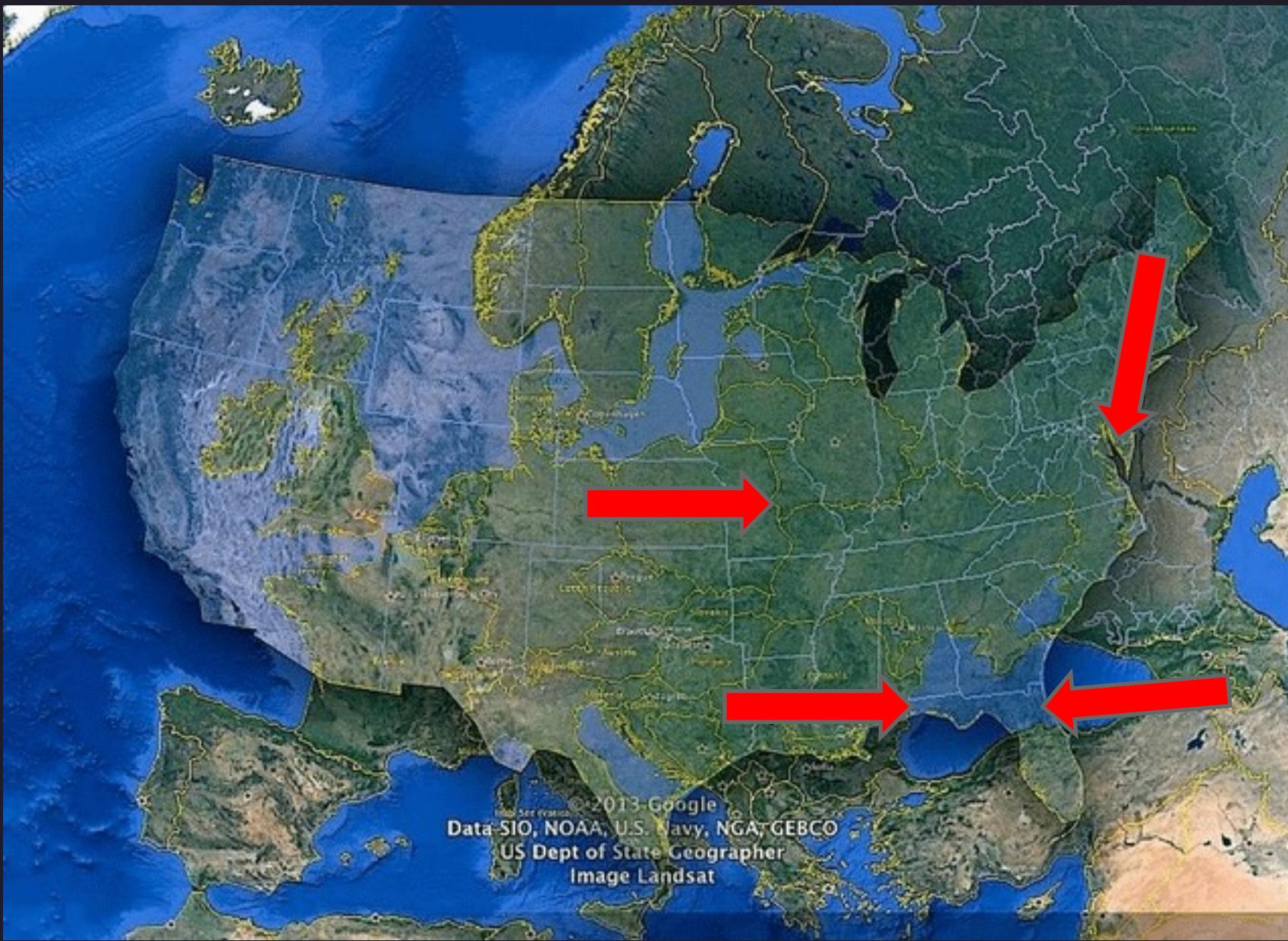
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ADVANCING THREAT MODELING CAPABILITIES TOGETHER

Is anyone here a road tripper?

THREAT²⁰
MODCON²⁴
LISBON



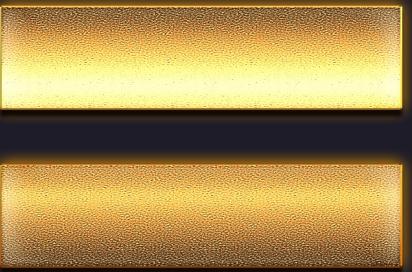
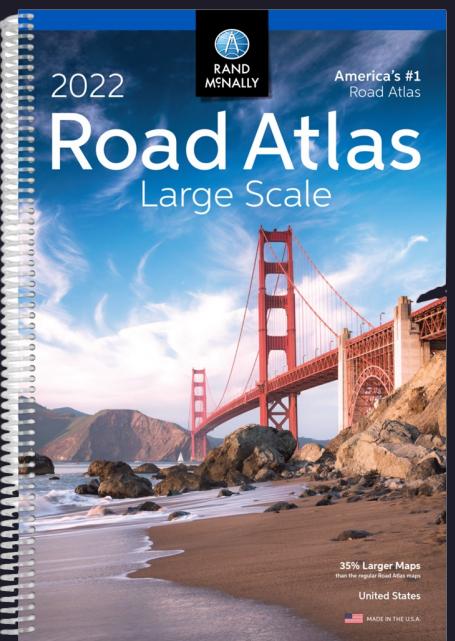


Total around
2,919 miles /
3,525 km

45 hours of
driving

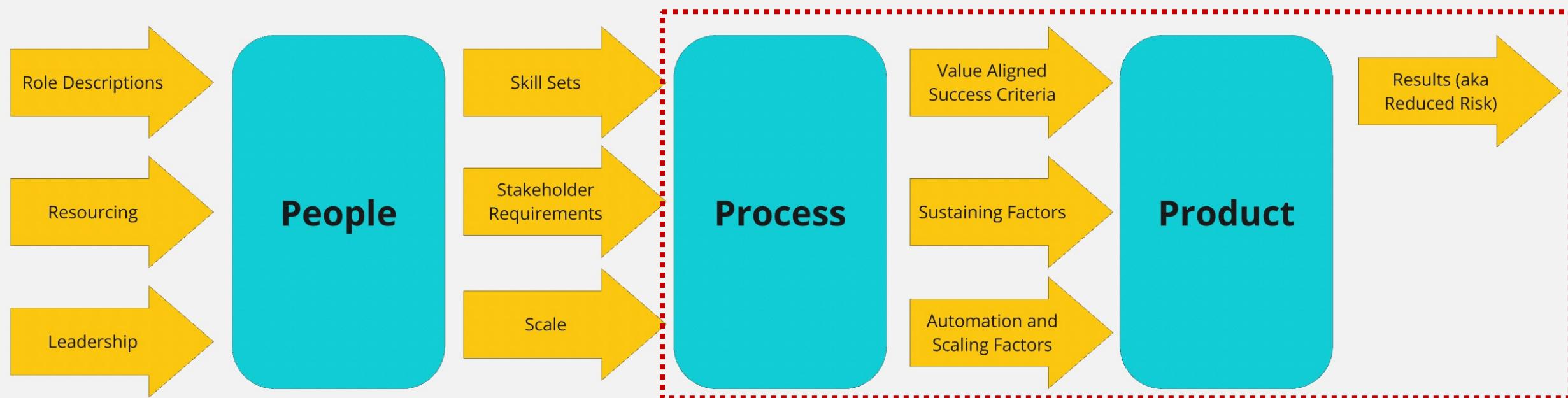
THREAT²⁰ MODCON²⁴

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ARE WE THERE YET?

Defining Doing, Deliverables, and Done

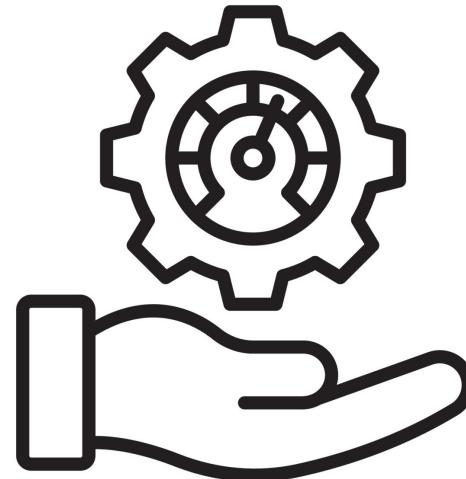




Doing – Efficient Process
Deliverables – Effective Outcomes
Done – Value Maximized

DOING – EFFICIENT THREAT MODELING

An efficient process is defined as a **procedure or series of actions** that achieves its intended outcome with **the least amount of wasted resources**, such as time, money, energy, or materials.



Efficiency

◀◀ Rented Security Budget

Security Stewardship

Demonstrate a strong ROI (pre-defined factors, culture-aligned behaviors, and process)

Demonstrate a need for further investment by transitioning from passive program management to active program management

HIGH ROI Threat Modeling Behaviors

- Tight Scope Definition
- Template-based threat modeling
- 3 Tier Threat Modeling (Env, Arch, Functional)
- Prioritized Threats & Threats
- Value Add Reporting



Achieving Scalable Returns (using the TMM Capabilities)

Education

- Building a team of security champions/evangelists
- Active Practice

Action on Threat Models

- Definition of Done
- Baseline Improvement
- Risk Management

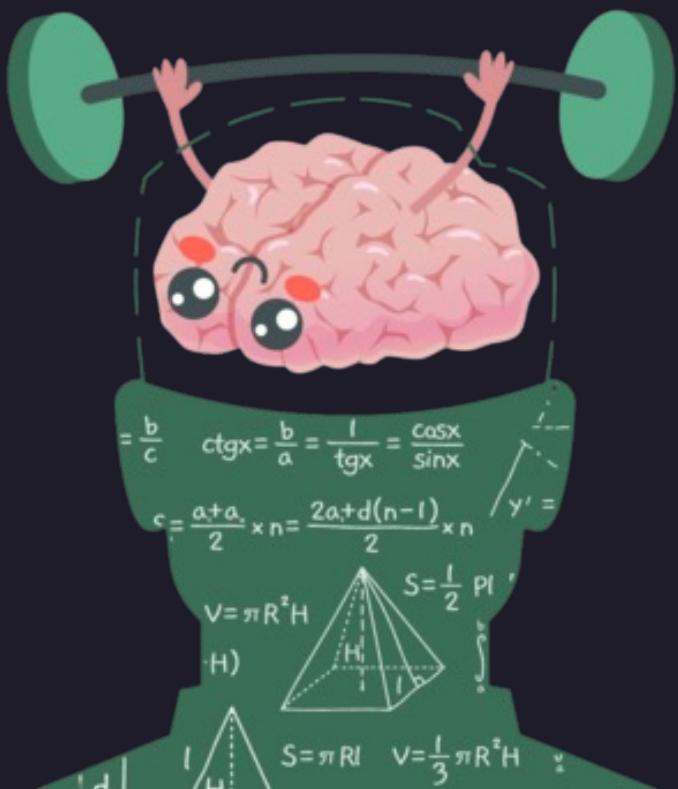
Creating Threat Models

- Format Consistency
- Pattern Cataloging
- Tool Assisted Process

Program Management

- Value-Driven Management

« HOW IMPORTANT
IS EFFICIENCY
WITHOUT
EFFECTIVENESS? »



DELIVERABLES - EFFECTIVE THREAT MODELING

Effective Threat Modeling Defined

*Threat Modeling is a **proactive assessment of risk** which starts with a **well scoped description of change** and results in a **prioritized list of realistic threats** and a **prioritized set of cost-effective mitigations** with a **timeline and plan for risk reduction**.*

What does effective threat modeling look like?

Organization Effectiveness vs Industry Effectiveness

Scaled to the organization

Value Aligned Change Scope

Realistic and Prioritized Threats aligned to org appetite

Prioritized Risk Reduction Plan of Action + Milestones

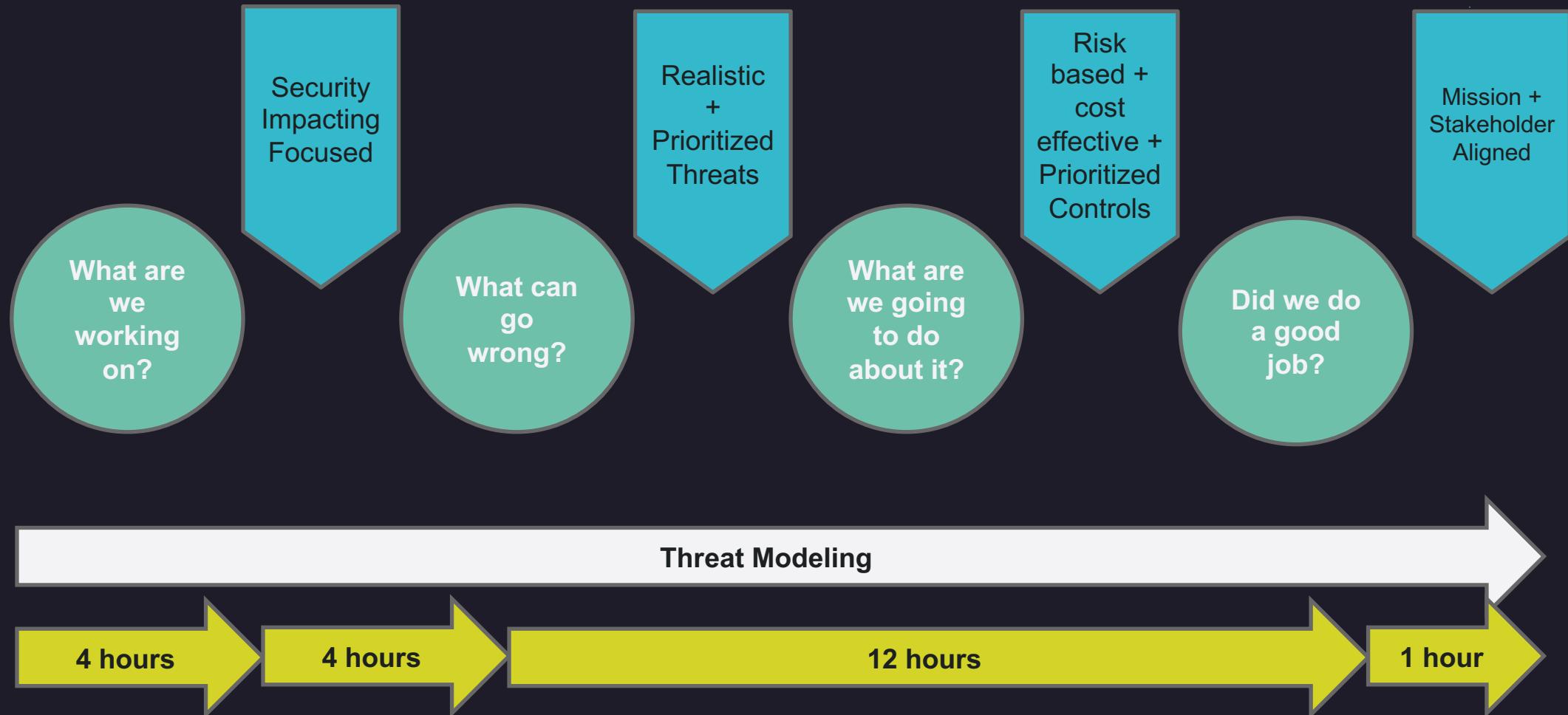
ARE WE THERE YET?!



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Staged Threat Modeling

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What is VALUE

Stakeholder Aligned

- Who are we threat modeling for?
- What are their needs?
- Why are those needs?

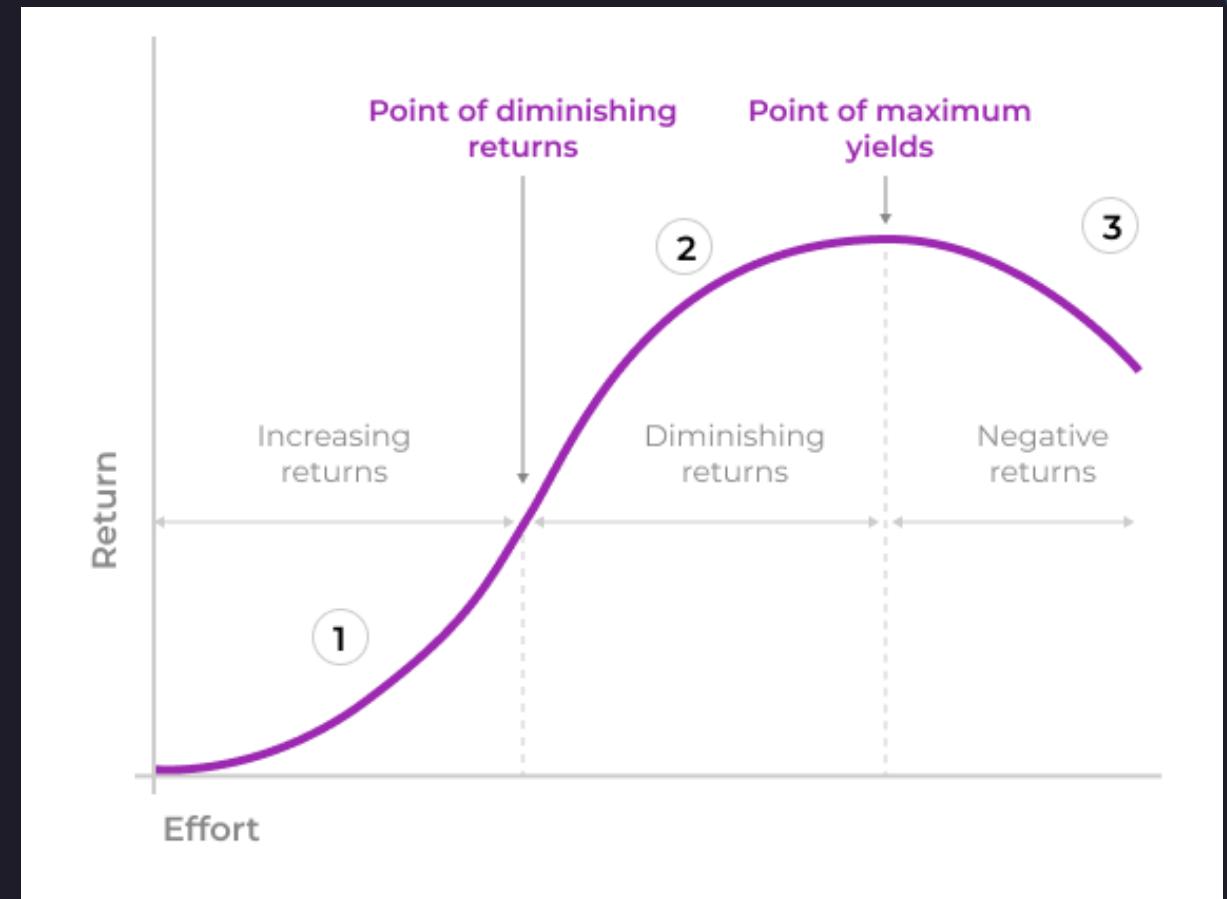
Mission Aligned

- Why are we threat modeling?
- What are the actual requirements?
- Why do those requirements exist?

If we cannot answer WHY with substance, we should actively encourage teams to question process and requirements and drive to value

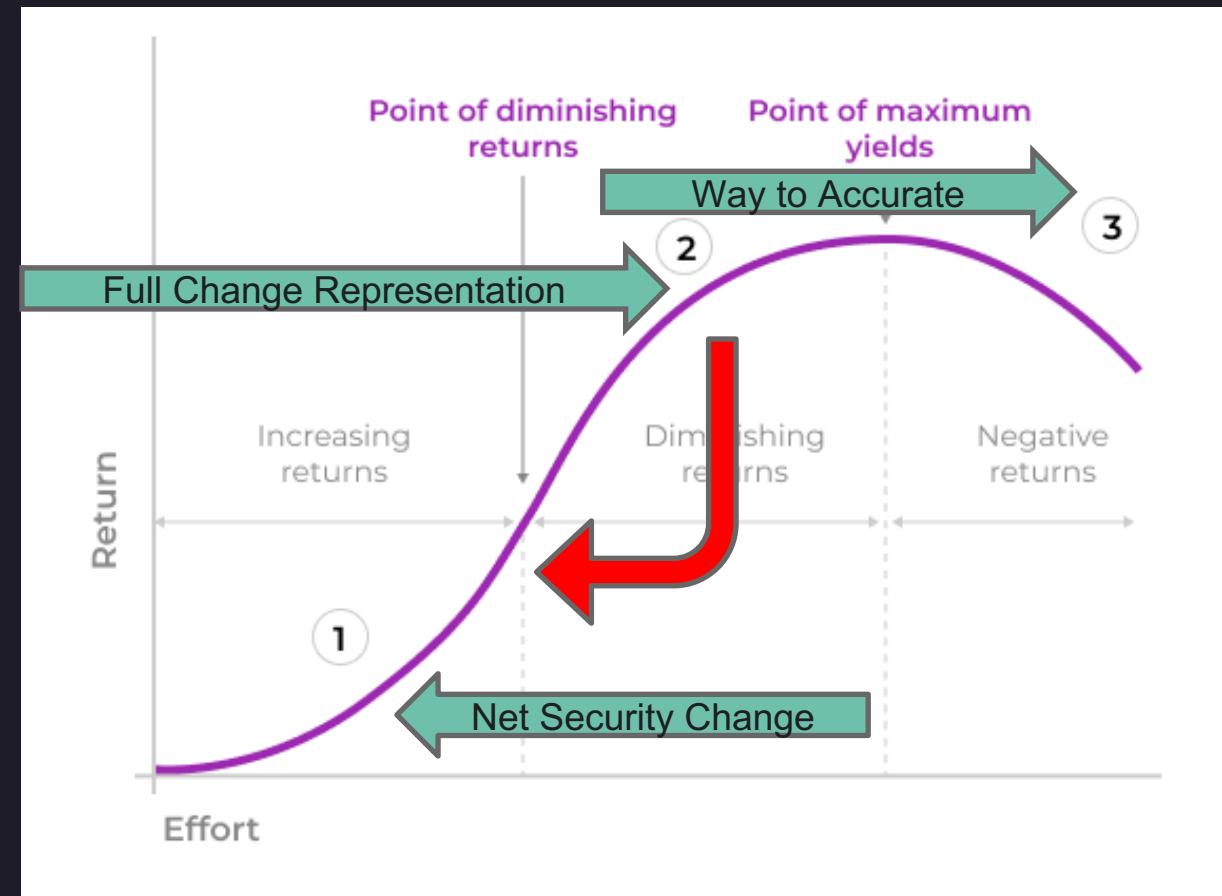
Diminished Marginal Returns

As the effort to create value (net return) increases the net value of the return is diminished over time



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IN CLOSING

DOING – Efficient Threat Modeling

DELIVERABLES – Effective Threat Modeling

DONE – Maximum Value

ARE WE THERE YET?

QUESTIONS?

