

RAPID7

SECURITY BY DESIGN

Modeling Systems to Reduce Risk

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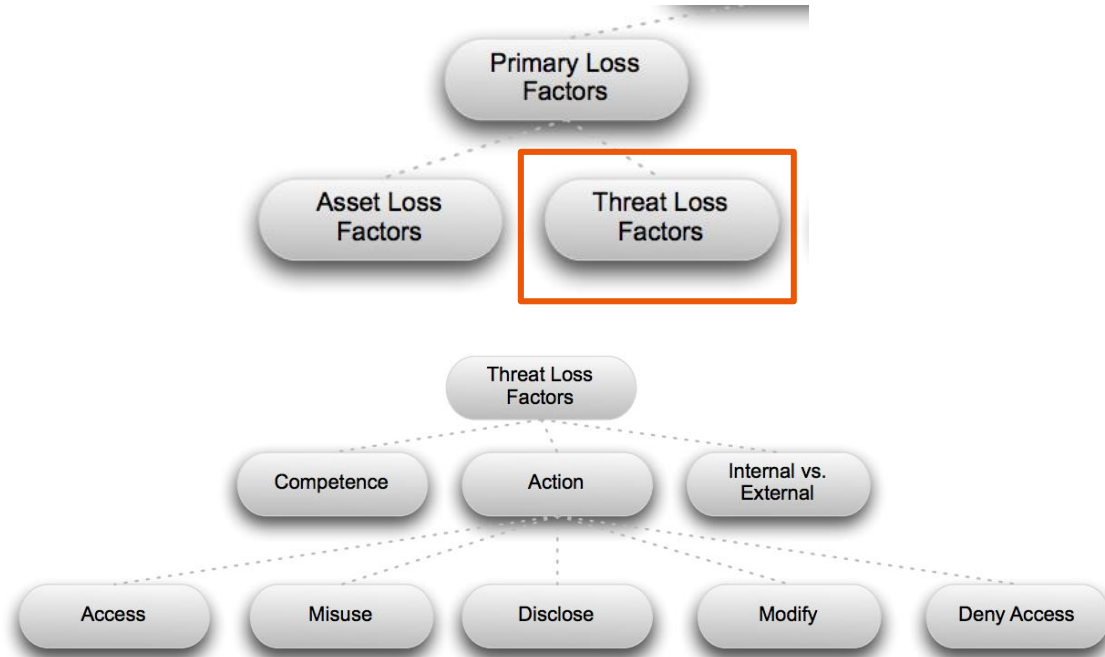
“ALL MODELS ARE
WRONG BUT SOME
MODELS ARE USEFUL”

-- George Box

Threat vs. Risk (a F.A.I.R. approach)



Threat vs. Risk (a F.A.I.R. approach)



Looking At Risk

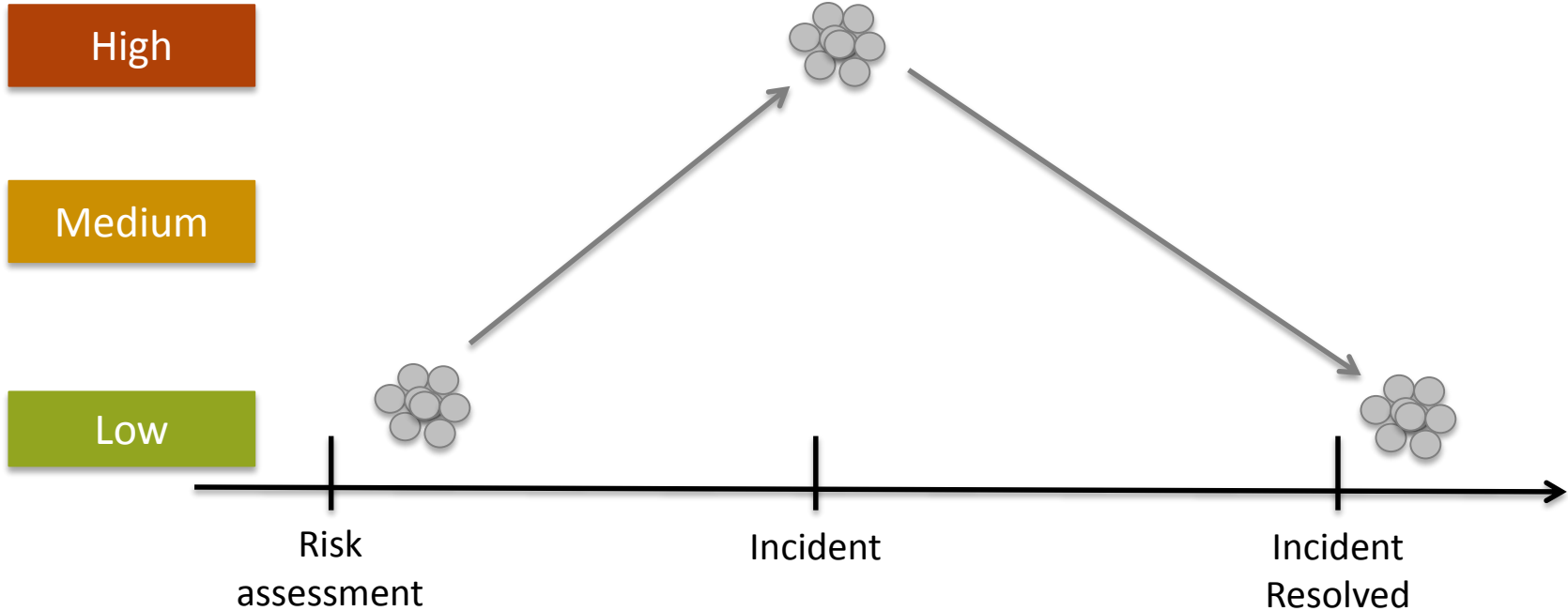
“ the possibility that something bad or unpleasant (such as an injury or a loss) will happen ”

Low

Medium

High

Looking At Risk



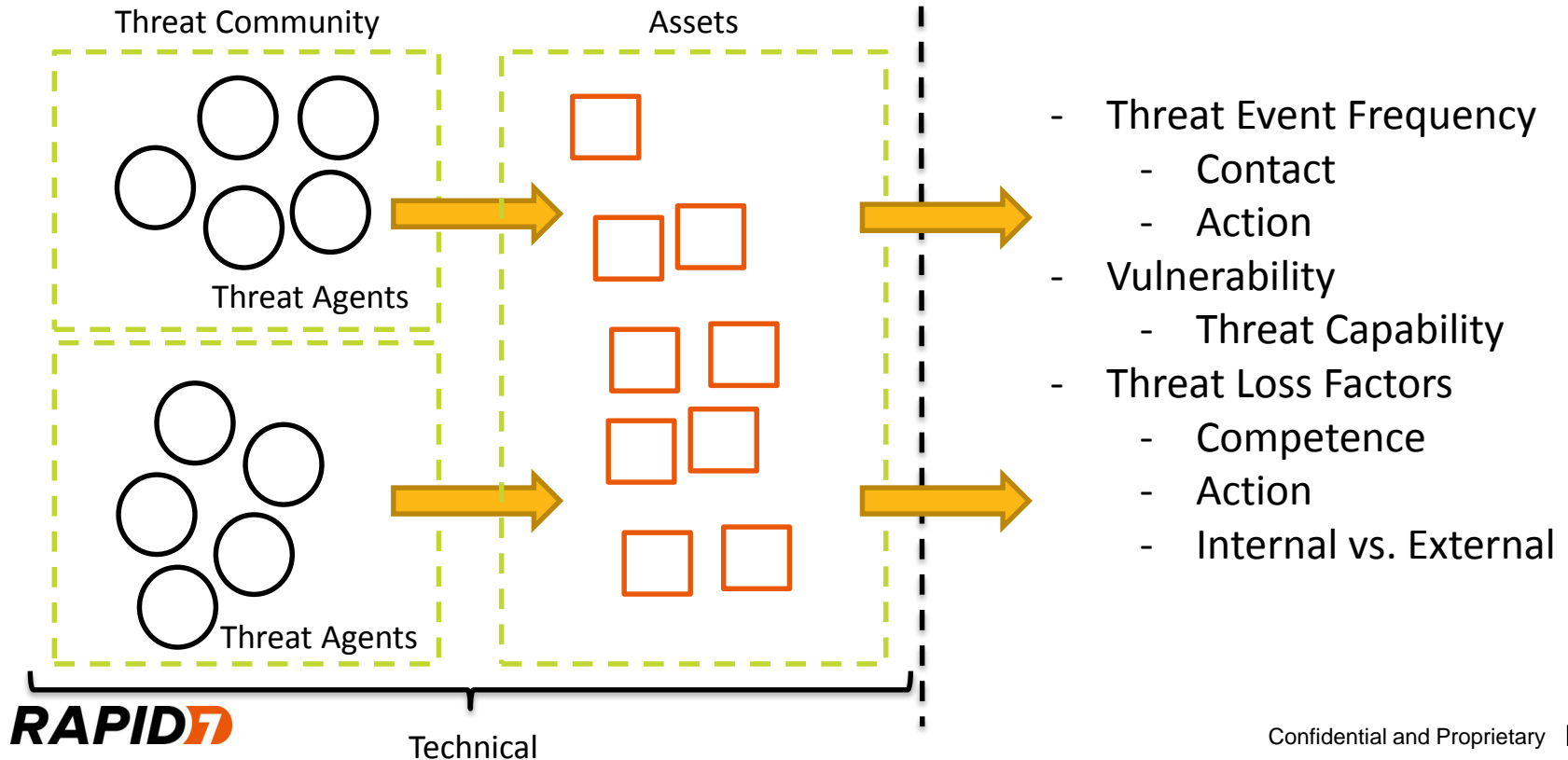
JET FUEL X PEANUT BUTTER = SHINY

-- Alex Hutton

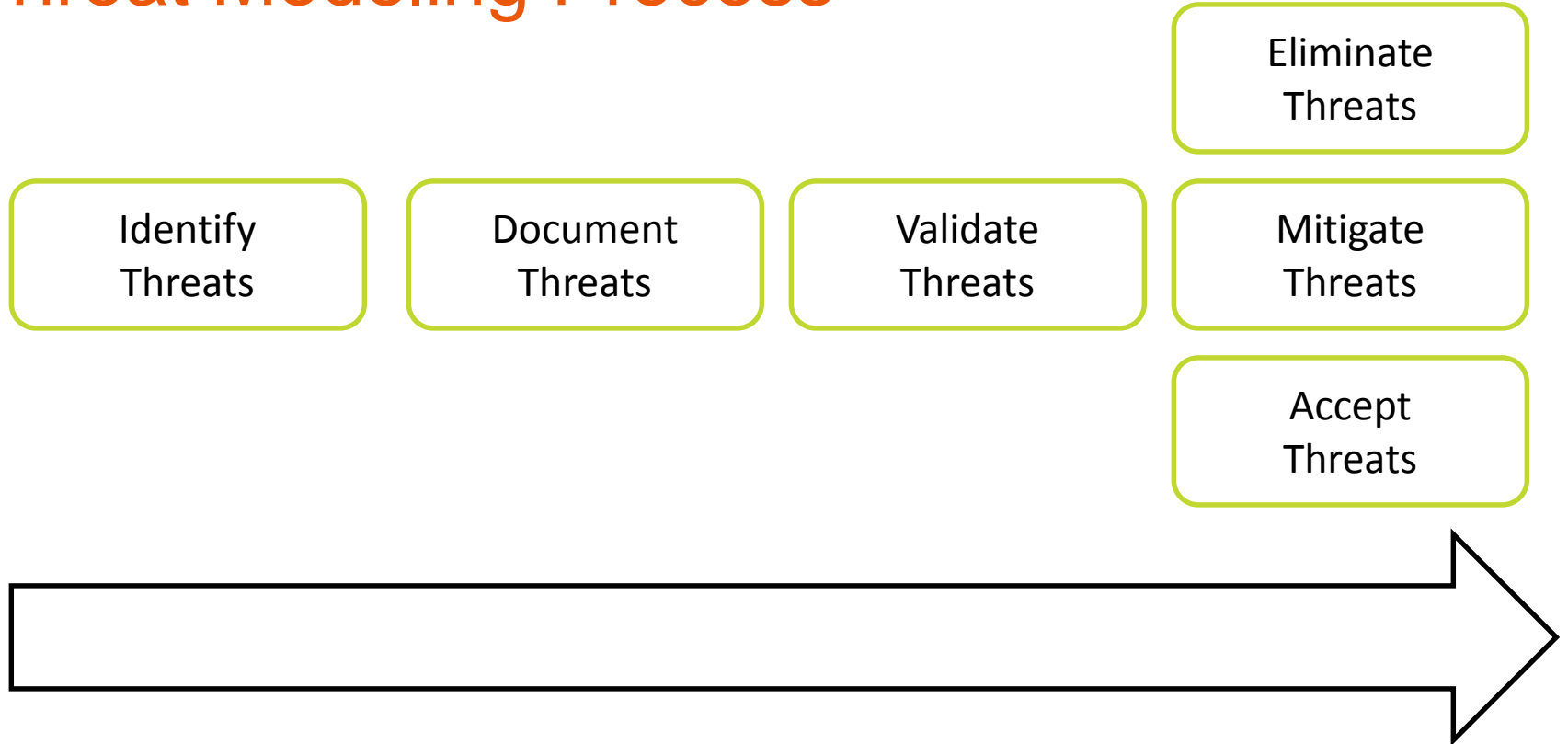
“THE STATE OF RISK IN ANY SYSTEM IS
ALWAYS DYNAMIC...”

-- Alex Hutton

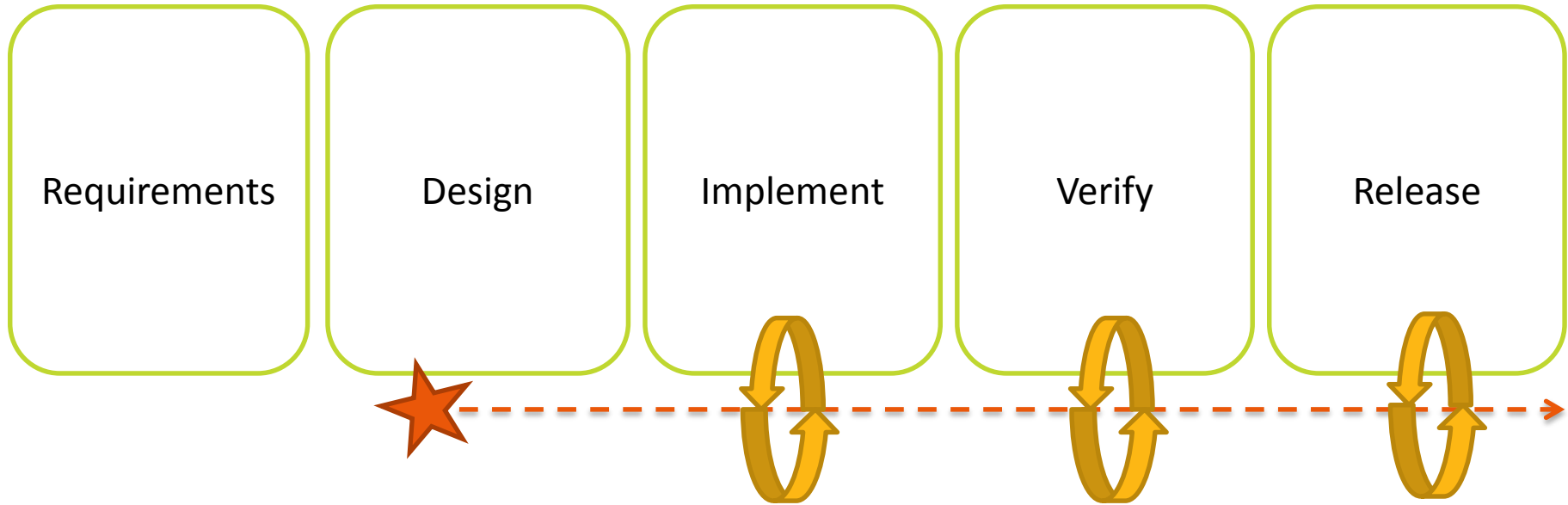
Threat Modeling to Complement Risk Mgmt



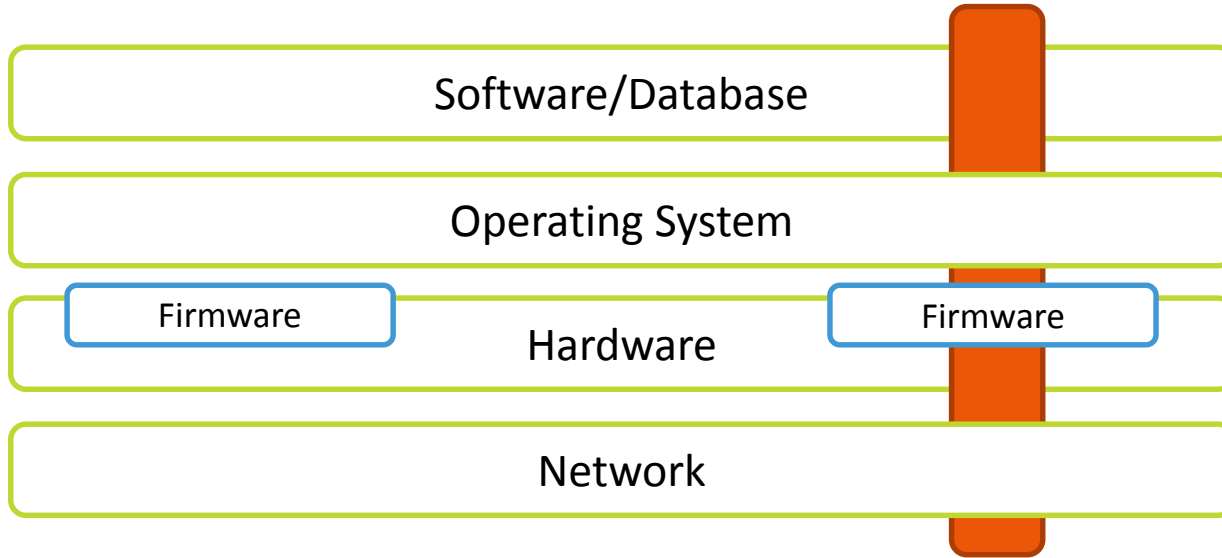
Threat Modeling Process



Threat Modeling in the SDLC



Technology Integration



Threat Modeling for ...

Third Party
Systems
(e.g. cloud,
APIs, hosted
solutions)

Legacy
Systems

Penetration
Testing

Conclusion

- Threat Modeling complements Risk Management
- Provides more granular insight into corporate risk
- Is not only focused on software development
 - Integration with:
 - Vulnerability Management
 - Penetration Testing
- Should be a key part of your development/engineering processes
- Has the potential to increase security efficiency
- Increases system defensibility

QUESTIONS?

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