

The OODA Loop for CISOs

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Background

KEYCALIBER

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UPLEVEL

Uplevel Security

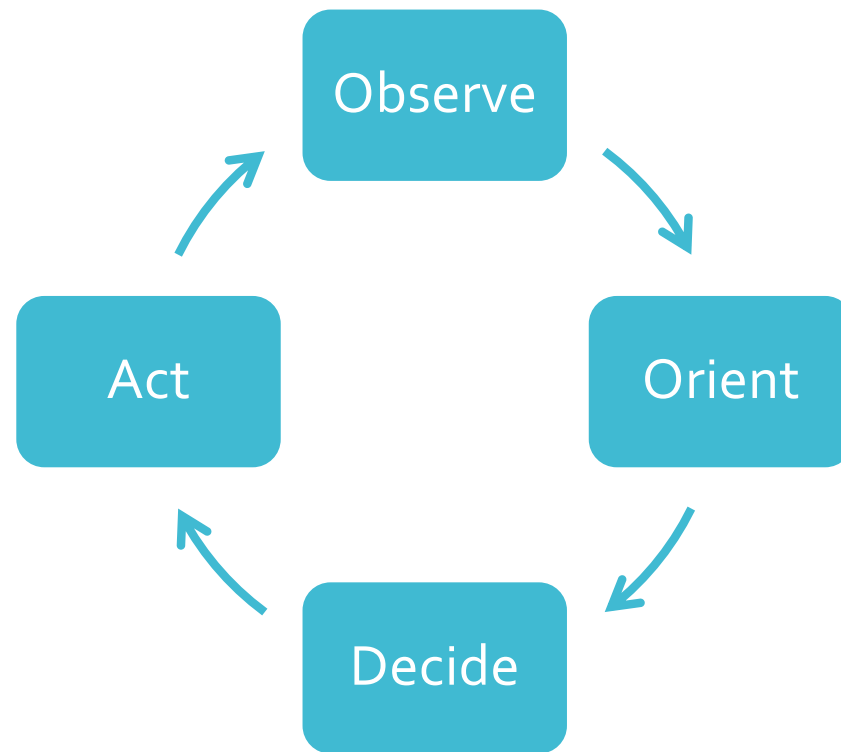


Executive Office of the President (Obama Administration)



Department of Homeland Security (US-CERT)

What is the OODA Loop?



Benefits of the OODA Loop

Increases agility

Optimizes decision-making process

Ensures continuous knowledge transfer

Enables constant improvement

Tactical Versus Strategic OODA Loop

Tactical:

- ✓ Address immediate threats
- ✓ Optimize speed
- ✓ "Block & tackle"
- ✓ Narrow scope

Strategic:

- ✓ Achieve long-term goals
- ✓ Optimize resource allocation
- ✓ Prioritize projects
- ✓ "Big picture"

Common Challenges to Strategic OODA Loop Implementation

Observe/Orient cannot keep up with Decide/Act

Decide/Act impact cannot be adequately measured

Act requires collaboration with other teams

Manual processes create bottlenecks

Thoroughly Observe

Observe

Orient

Decide

Act

Frequency

- Match cadence of decisions-making process

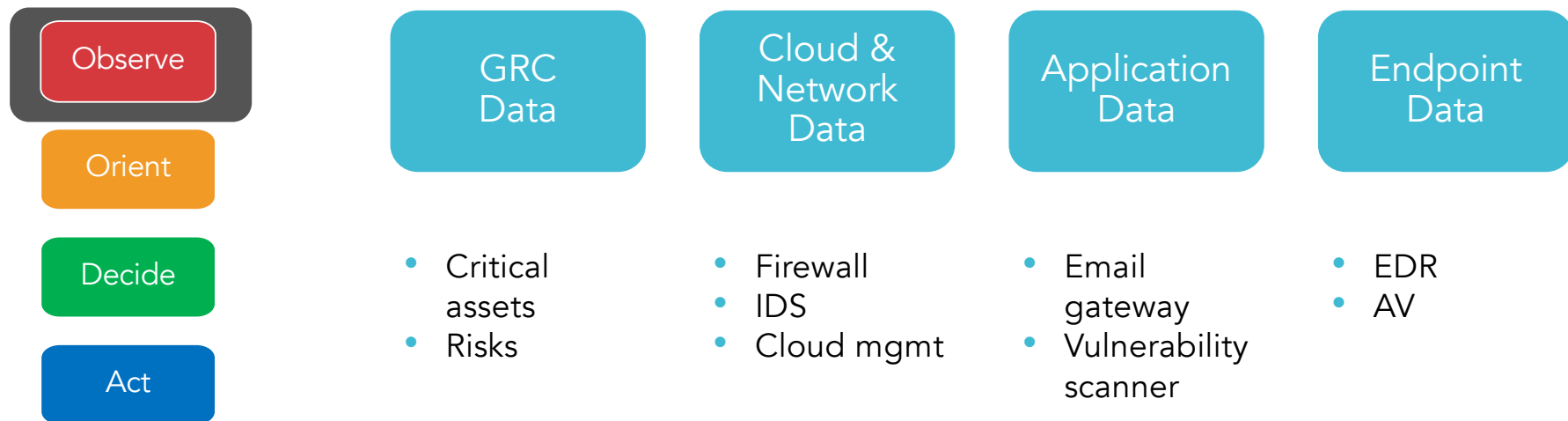
Your Organization

- Leverage existing security stack

Your Adversaries

- Utilize internal and external info

Know Your Organization – Data Sources



Know Your Adversaries – Data Sources

Observe

Orient

Decide

Act

Threat Intelligence

- Tactics, techniques, and procedures (TTPs)
- Internal
- External

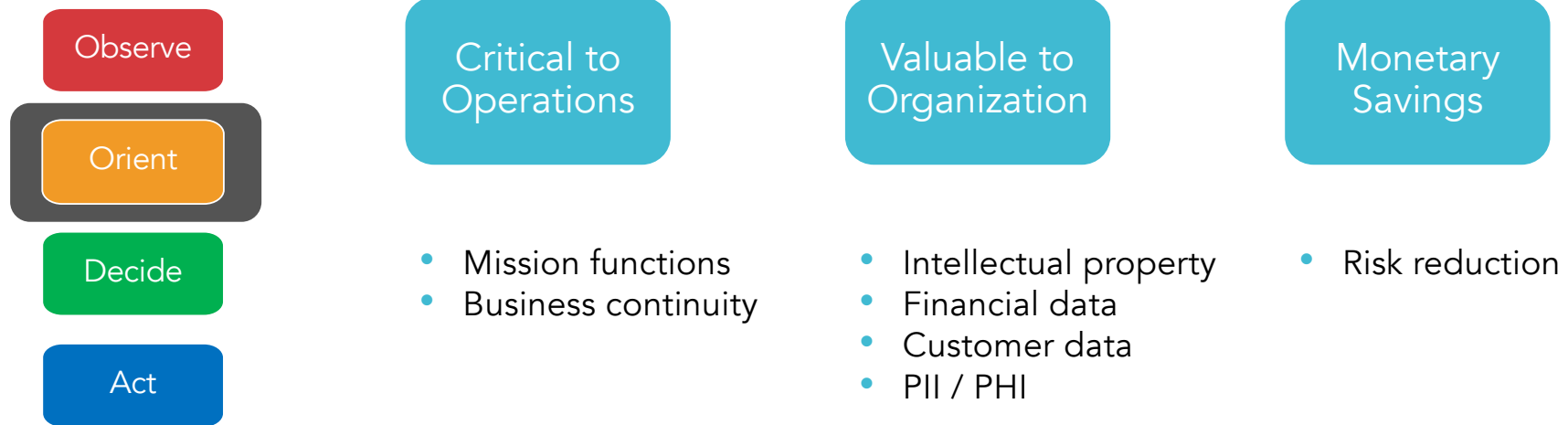
Alert/Incident Data

- Attribution
- Attack type
- Targeted assets

Open Source Data

- Current events
- Industry news

Orient By Strategic Impact



Slice and Dice Observed Data

Observe

Orient

Decide

Act

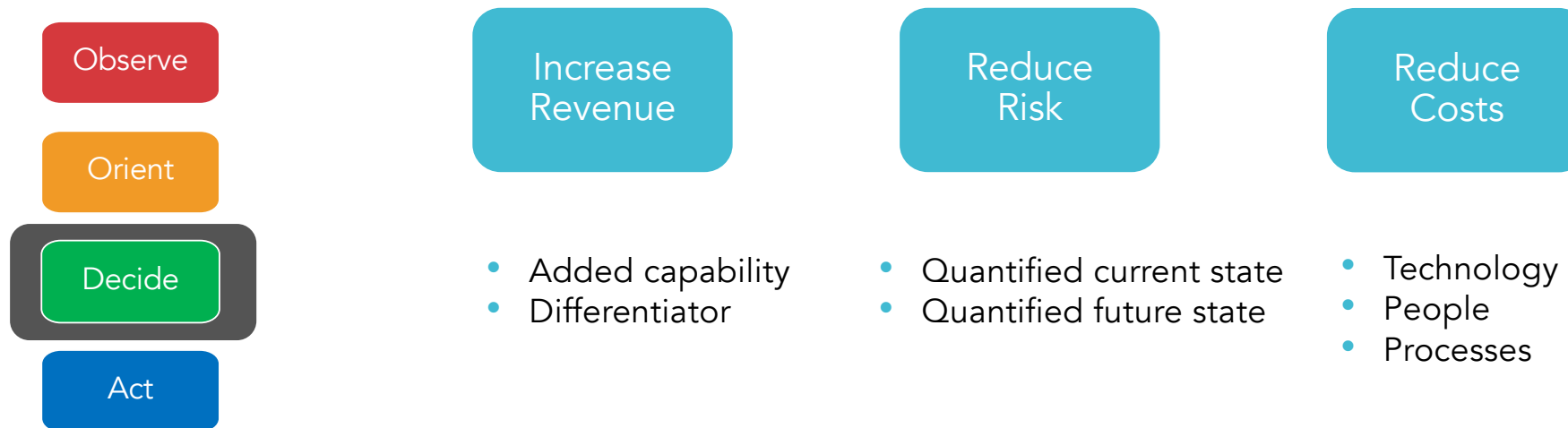
Aggregates

- Asset types
- Business units
- Locations

Trends

- Monthly
- Quarterly
- Yearly

Decide Based on the Numbers



Decide Based on Comparisons

Observe

Orient

Decide

Act

Frameworks

- NIST CSF
- CMMC
- CIS 20

Industry Peers

- Open source data
- Sector information sharing centers

Decide Based on Priorities of Others



Define Actions with OODA Loop Data

Observe

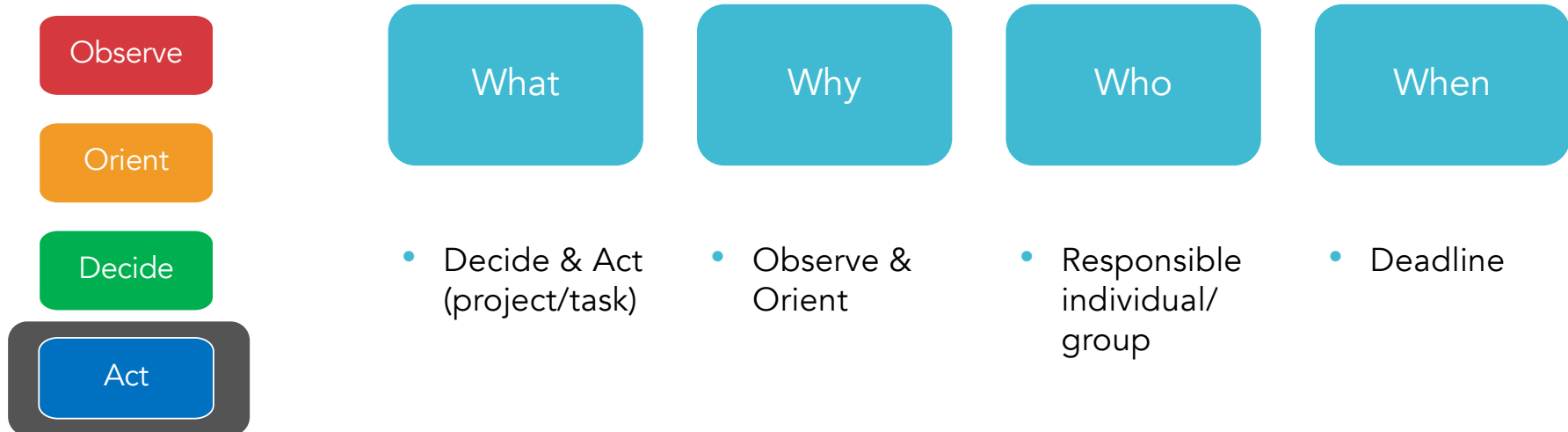
Orient

Decide

Act

We have X [Observe],
which means Y [Orient],
so we will accomplish Z [Decide]
by doing A [Act].

Track Actions



Implementation Tips

Develop each step of the process

Measure with key performance indicators (KPIs) and metrics

Document procedures with other business units

Automate, automate, automate

Thank You!

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