The Key Elements and Drivers of the Defense Acquisition System

Camryn Burley, Philip S. Anton, John Boardman, Dinesh Verma

Background

Systemigrams

- Visual description of complex systems
- Condense an entire document into a single page
- Develop shared mental model and elicit insight

Systemigram Rules

- Tell a story in scenes
- Diagonal of diagram = main purpose (mainstay)
- Rules for nodes:
  - Noun phrases
  - Not repeated
  - Must have an input and output (except first and last)
- Rules for arcs:
  - Verb phrases
  - Must not cross

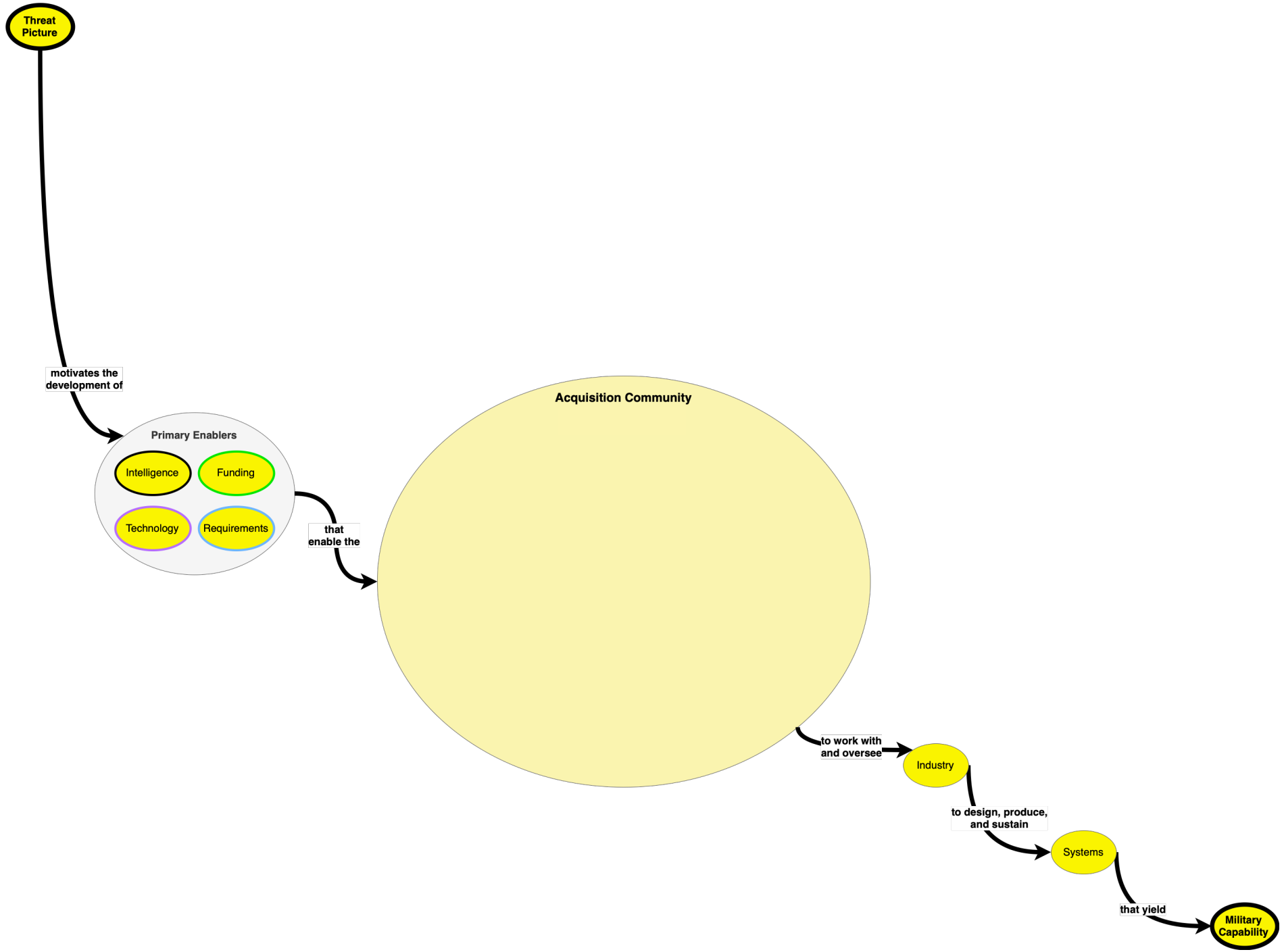
Audience

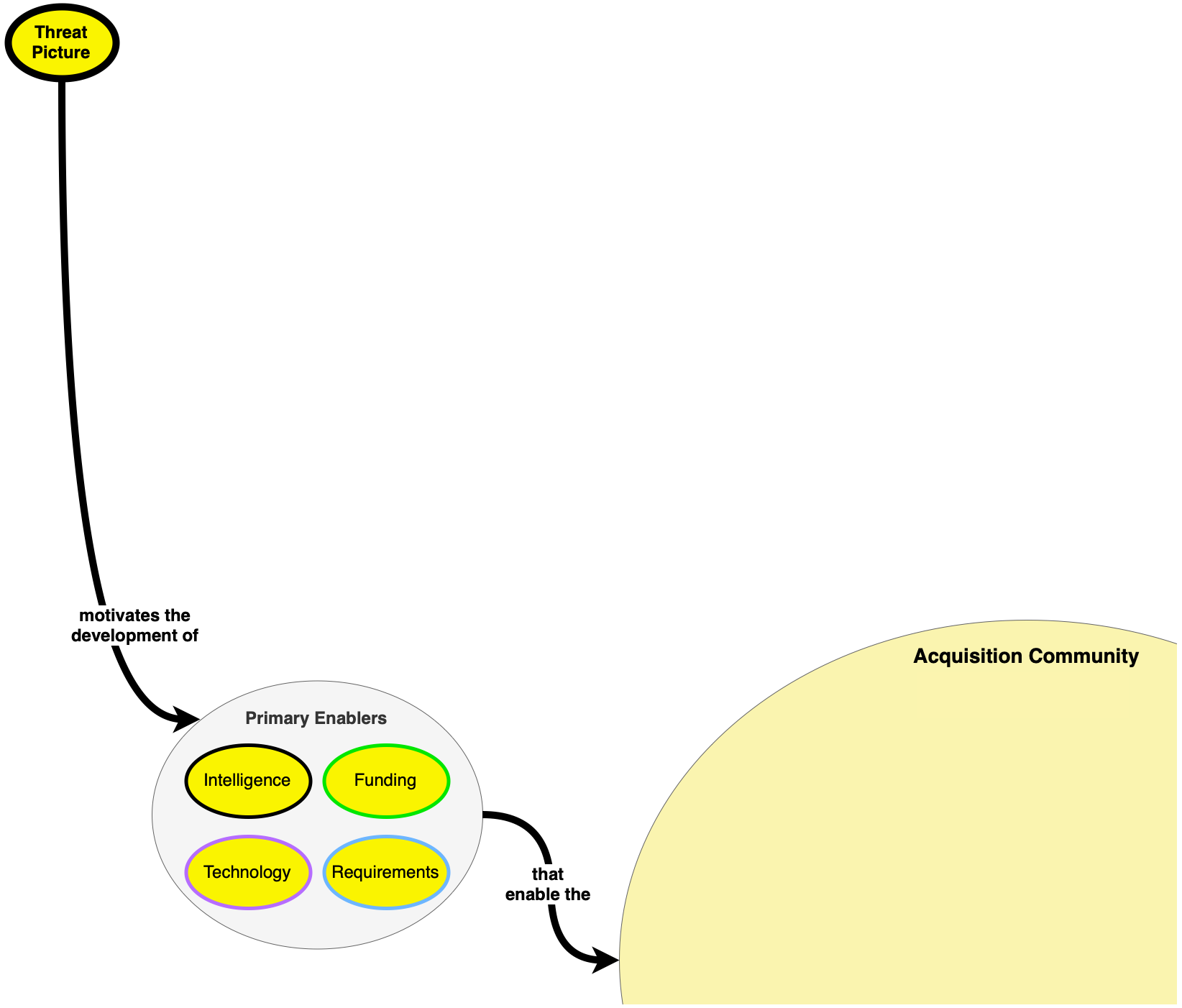
- High-level overview
- Intended for individuals new to defense acquisition
- Has applications for those familiar with the system

Process

- Initial list of actors and their functions
- Iteration
- Verification and Validation

The Systemigram


Threat Picture
motivates the development of
Primary Enablers
Intelligence
Funding
Technology
Requirements
that enable the
Acquisition Community
to work with and oversee
Industry
to design, produce, and sustain
Systems
that yield
Military Capability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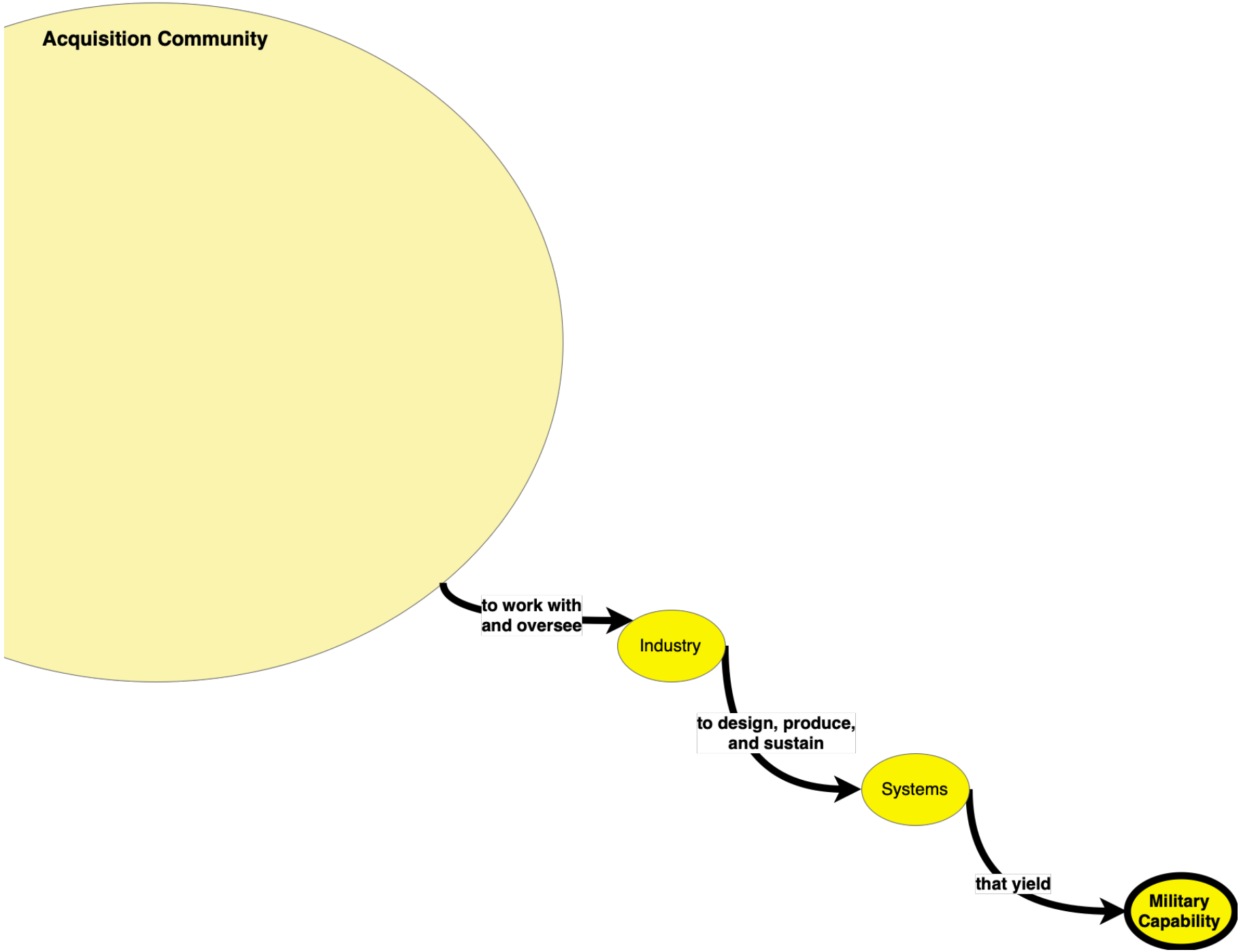
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to work with and oversee
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Systems
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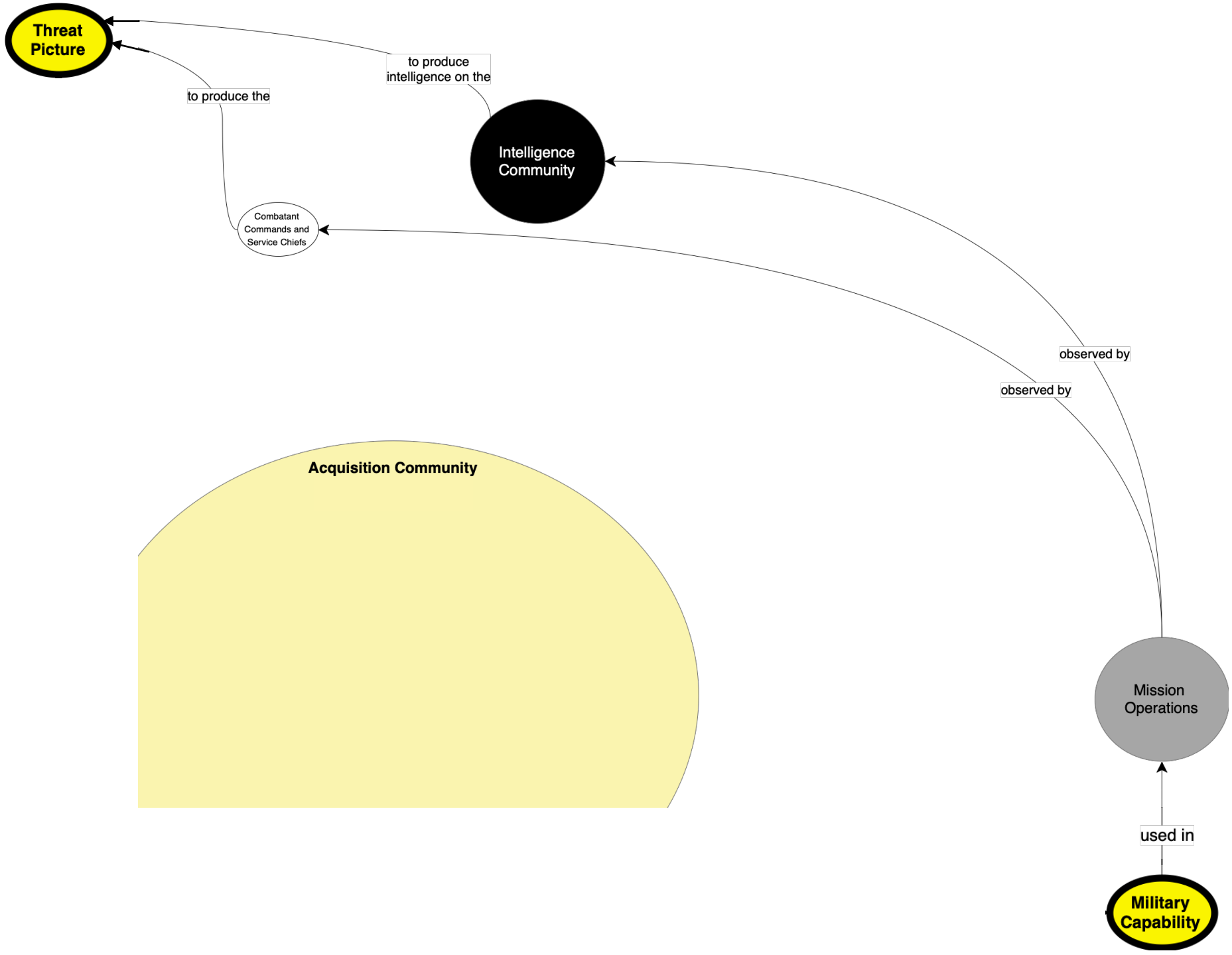
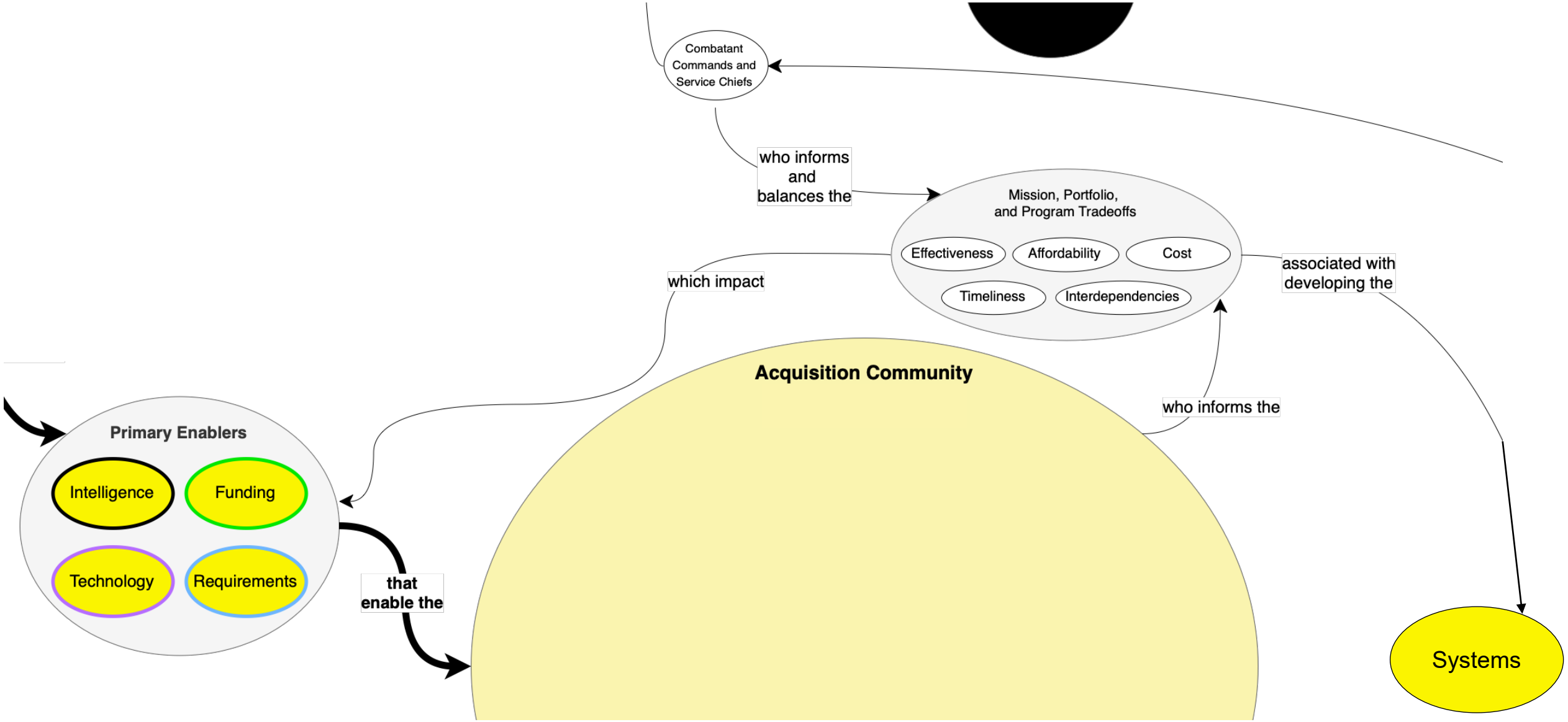
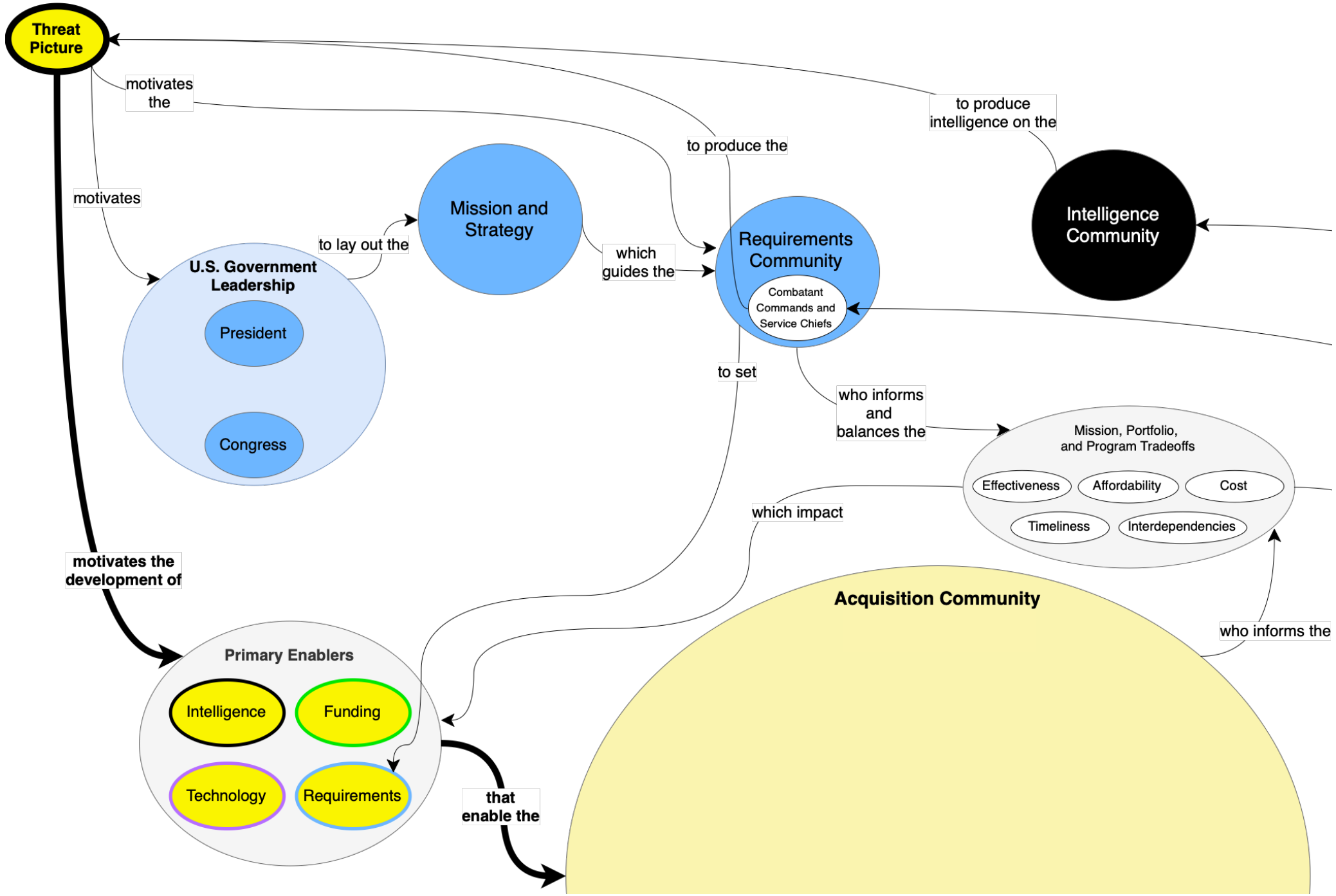
Military Capability


Threat Picture
to produce intelligence on the
to produce the
Intelligence Community
Combatant Commands and Service Chiefs
observed by
observed by
Acquisition Community
Mission Operations
used in
Military Capability


Combatant Commands and Service Chiefs
who informs and balances the
Mission, Portfolio, and Program Tradeoffs
Effectiveness
Affordability
Cost
Timeliness
Interdependencies
associated with developing the
which impact
Acquisition Community
who informs the
Primary Enablers
Intelligence
Funding
Technology
Requirements
that enable the
Systems


Threat Picture
motivates the
to produce intelligence on the
to produce the
motivates
Mission and Strategy
Intelligence Community
to lay out the
which guides the
Requirements Community
U.S. Government Leadership
President
Congress
Combatant Commands and Service Chiefs
to set
who informs and balances the
Mission, Portfolio, and Program Tradeoffs
Effectiveness
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Cost
Timeliness
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motivates the development of
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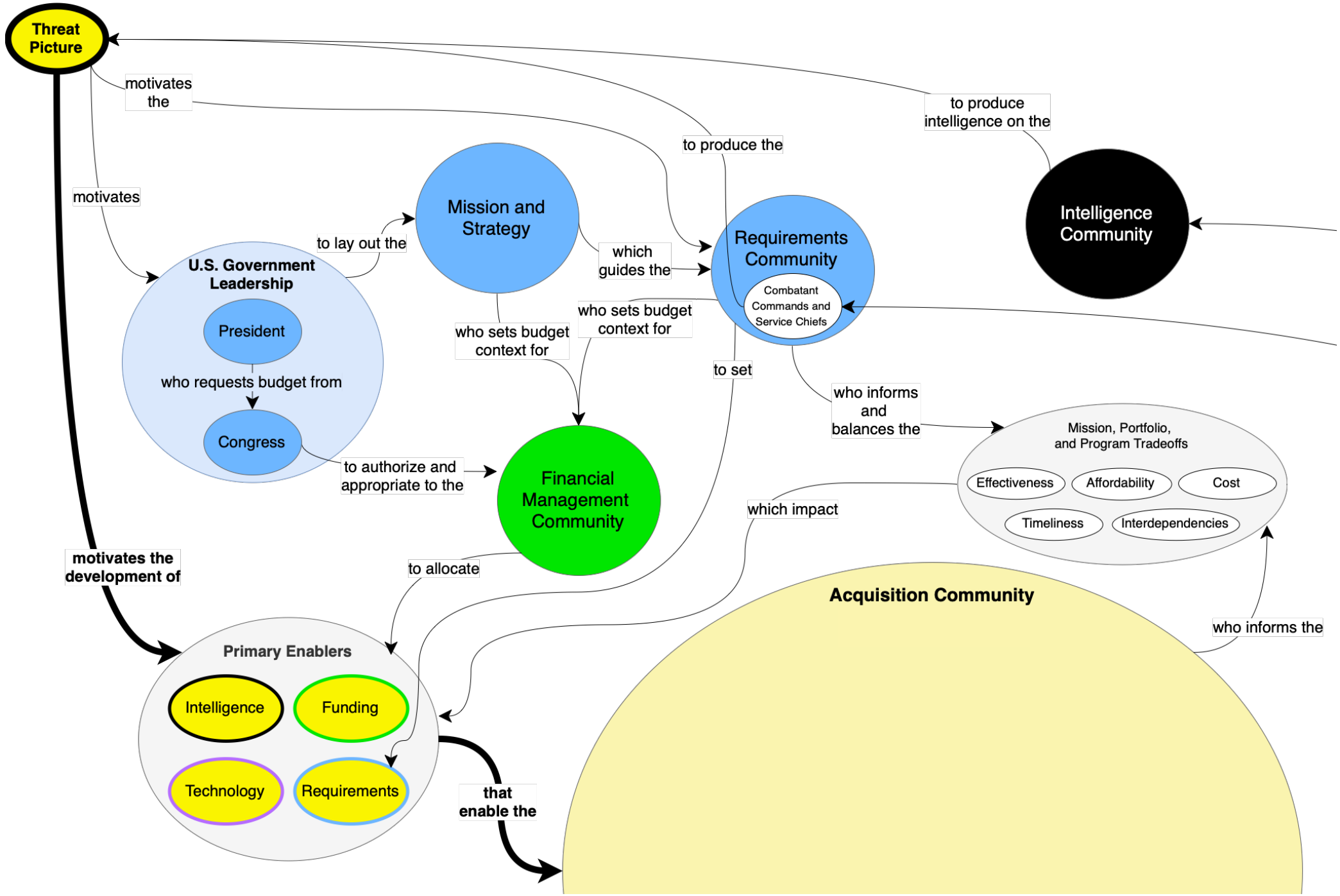
who informs the
Primary Enablers
Intelligence
Funding
Technology
Requirements
that enable the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to produce intelligence on the
to produce the
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Mission and Strategy
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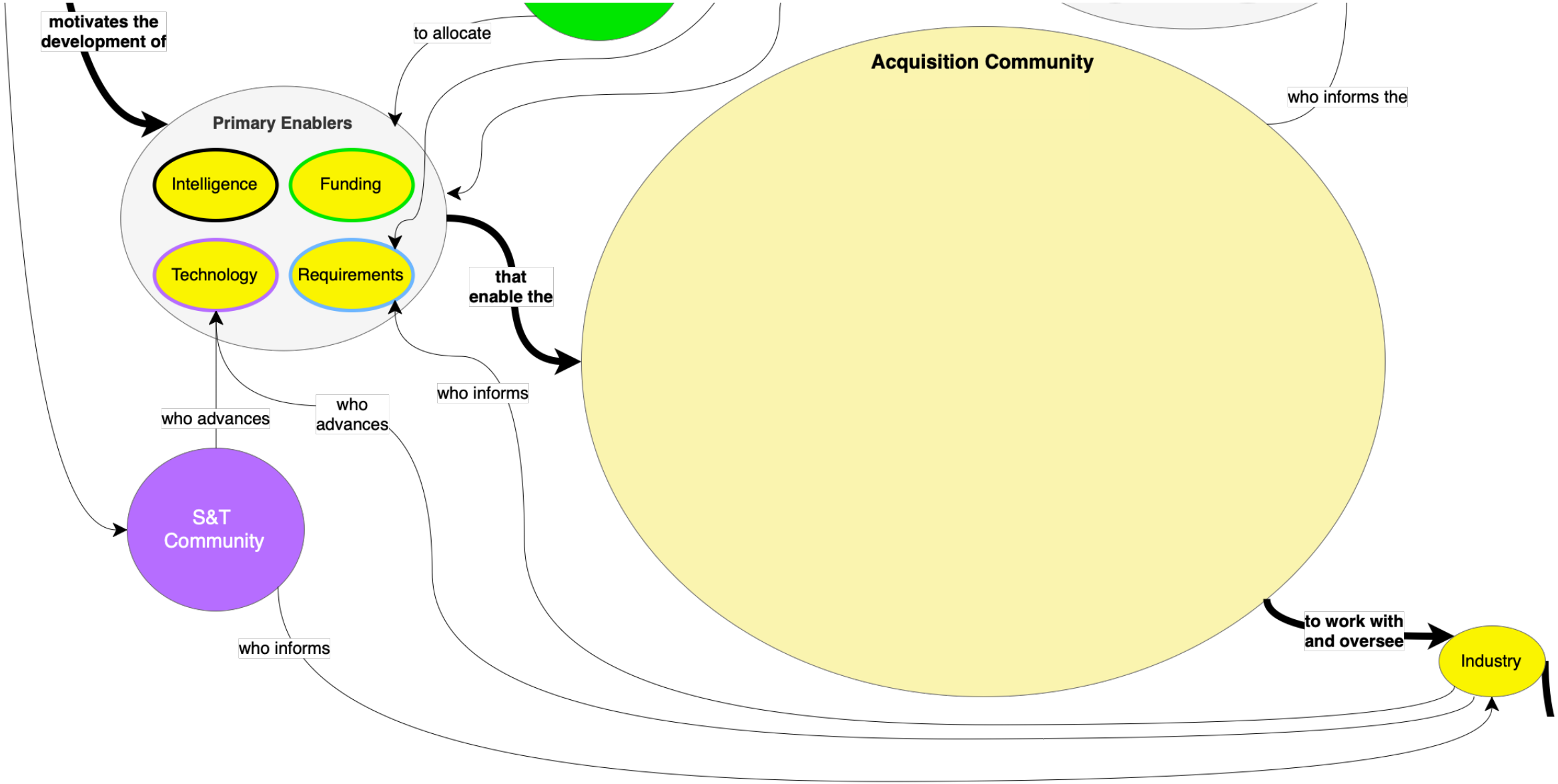
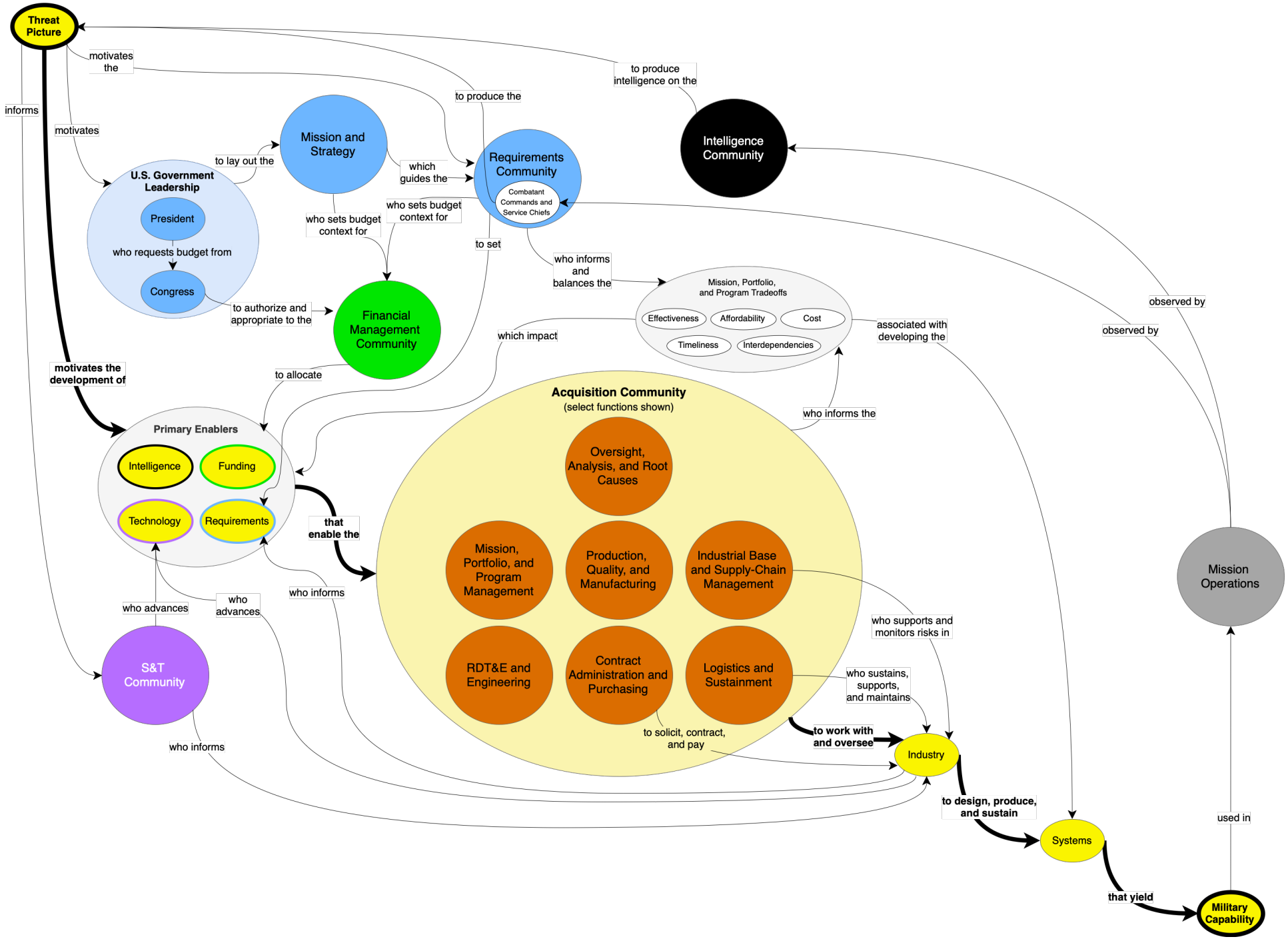
to lay out the
which guides the
Requirements Community
U.S. Government Leadership
President
who requests budget from
Congress
Combatant Commands and Service Chiefs
who sets budget context for
who sets budget context for
to set
who informs and balances the
to authorize and appropriate to the
Financial Management Community
Mission, Portfolio, and Program Tradeoffs
Effectiveness
Affordability
Cost
Timeliness
Interdependencies
which impact
motivates the development of
to allocate
Acquisition Community
who informs the
Primary Enablers
Intelligence
Funding
Technology
Requirements
that enable the


motivates the development of
to allocate
Primary Enablers
Intelligence
Funding
Technology
Requirements
that enable the
Acquisition Community
who informs the
who advances
who advances
who informs
S&T Community
who informs
to work with and oversee
Industry


Threat Picture
motivates the
informs
motivates
to produce intelligence on the
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Combatant Commands and Service Chiefs
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observed by
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to authorize and appropriate to the
Financial Management Community
which impact
motivates the development of
to allocate
Acquisition Community
(select functions shown)
who informs the
Primary Enablers
Intelligence
Funding
Technology
Requirements
that enable the
Oversight, Analysis, and Root Causes
Mission, Portfolio, and Program Management
Production, Quality, and Manufacturing
Industrial Base and Supply-Chain Management
RDT&E and Engineering
Contract Administration and Purchasing
Logistics and Sustainment
Mission Operations
who informs
who advances
who advances
who supports and monitors risks in
who sustains, supports, and maintains
S&T Community
to solicit, contract, and pay
to work with and oversee
Industry
who informs
to design, produce, and sustain
Systems
used in
that yield
Military Capability

Relevance

Relevance

- Literature gap
- Use by individuals within and outside system
- Acquisition innovation
  - Shared understanding for innovation efforts
  - “As-is” depiction of the system
  - Focus on ultimate goal of military capability