Systemic Framework for Enterprise Architecture & Transformation

Overview

Introduction

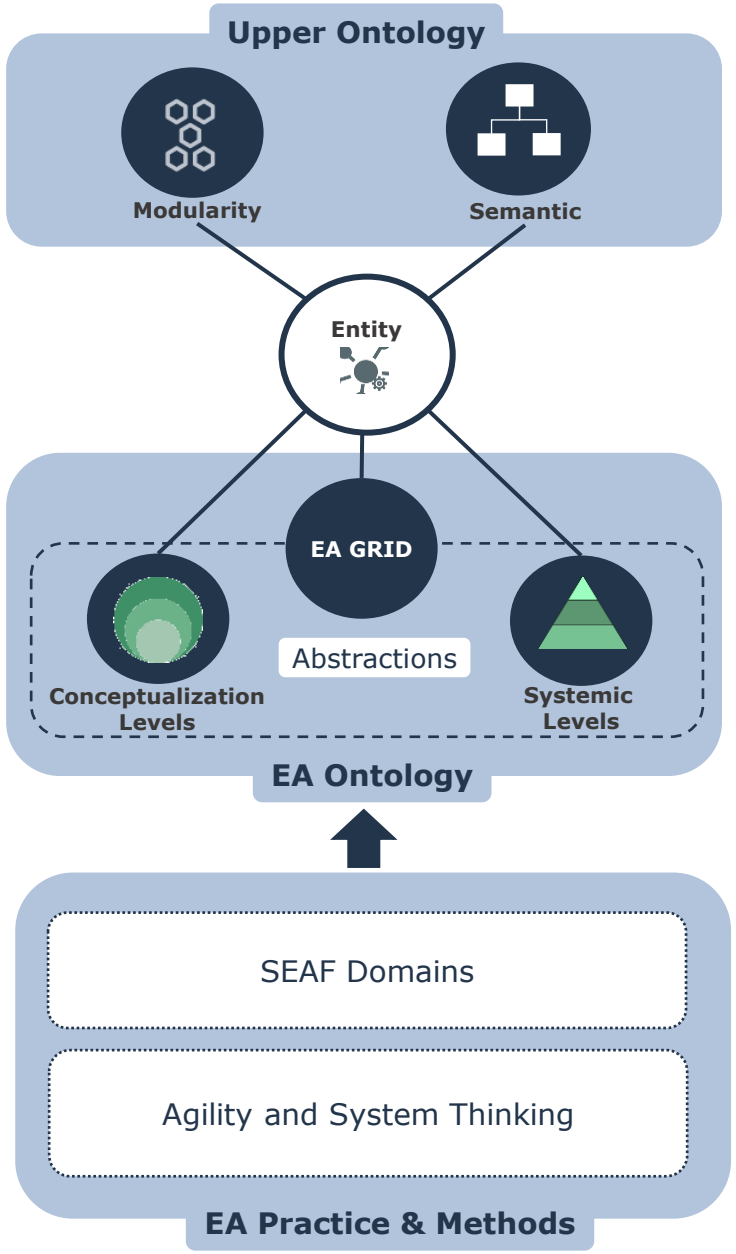
- This document is an integral component of the SysFEAT architectural framework. It provides foundations to address the challenges posed by Enterprise Architecture in the 21st century, which include :
  - Increasing complexity in system structures and behaviors.
  - Growing intricacy in architecture, management and governance of these systems.
  - The mission of the framework is to demystify these complexities, ensuring they are comprehensible to a broad audience, thereby facilitating the design and management of complex-systems across all scales, from micro-systems to enterprise level systems.

- Enterprise Modeling refers to the overarching language and conceptual framework used to describe, understand, and communicate the complex structures and dynamics of an enterprise.
- It integrates both the operating aspects of the enterprise (how it functions and interacts within its ecosystem), the transformational aspects (how it evolves and sustains over time through initiatives, asset management) and how these transformations are governed to ensure effectiveness, efficiency and reliability.

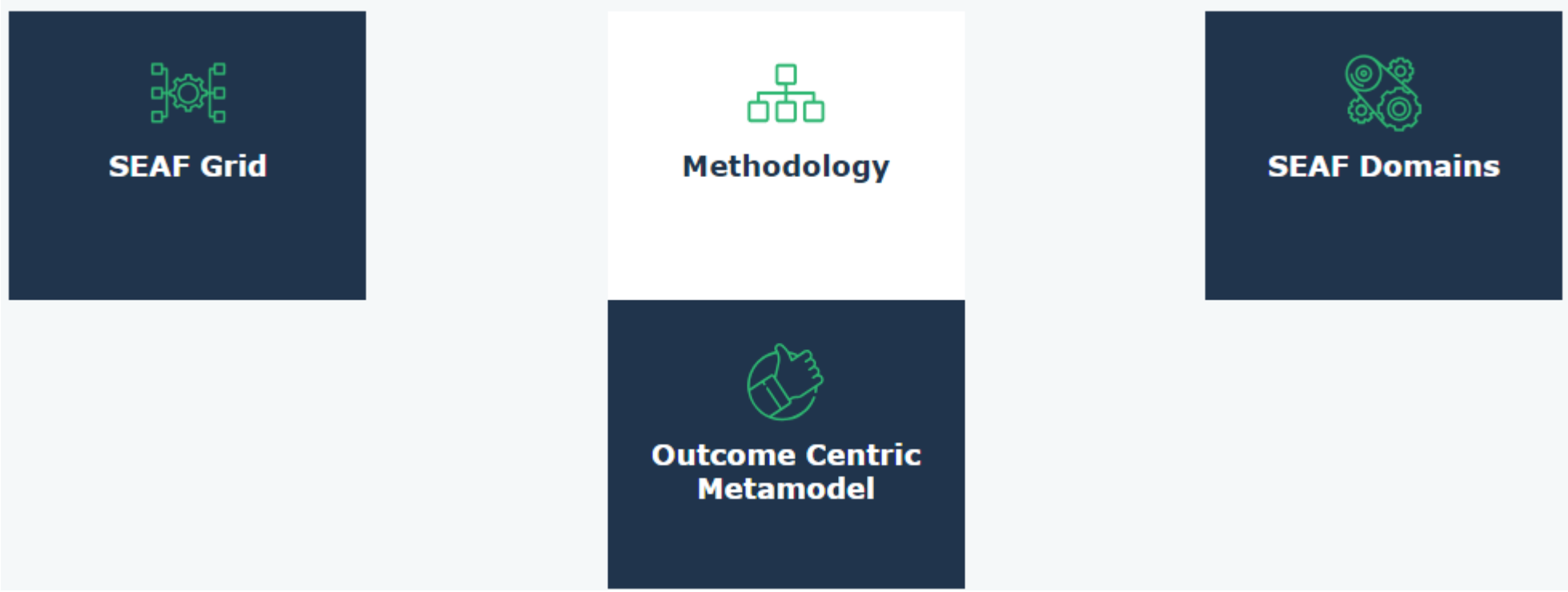
- The following slides present the foundations of enterprise modeling.

Foundations of enterprise modeling

- **Modularity** provides the syntax for building robust, manageable, and scalable architectures, based on the principles of composability and packaging.
- **Semantic** provides robust capabilities for classifying and composing entities, from time-bound entities (individuals) to families of concepts, enabling effective representation of meaning.
- The **EA GRID** serves as the overarching language that describes why and how a system operates and interacts within its ecosystems.
- **Abstractions** organizes systems and concepts in degree of abstractions, including systemic levels and conceptualization levels.
- **EA Domains** formalize the various disciplines that make-up EA, ranging from enterprise road-mapping to System ArcDevOps.
- **Agility and System Thinking** ensure that the enterprise evolves and sustains over time through governed initiatives, architected for flexibility and responsiveness in complex and dynamic business environments.

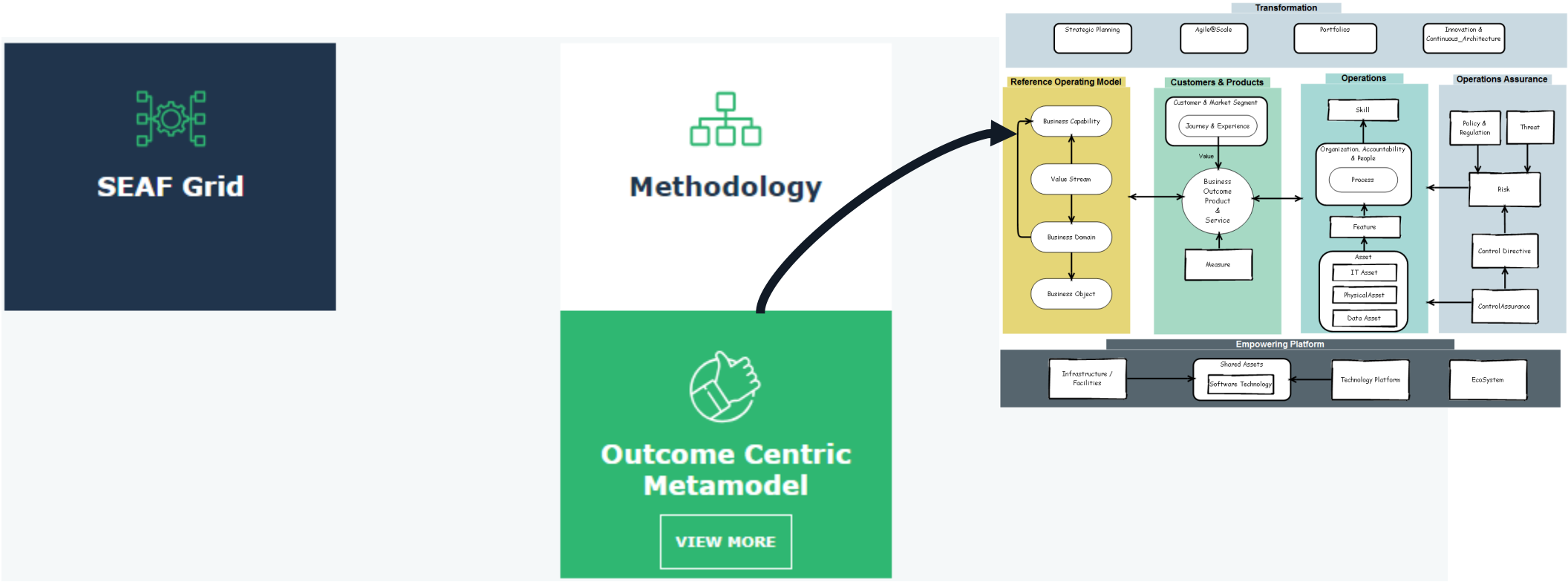


The web site has four main entry points



The SEAF Framework Poster

- It provides a holistic description of SEAF Framework based on its outcome centric approach.



The SEAF GRID Viewpoint

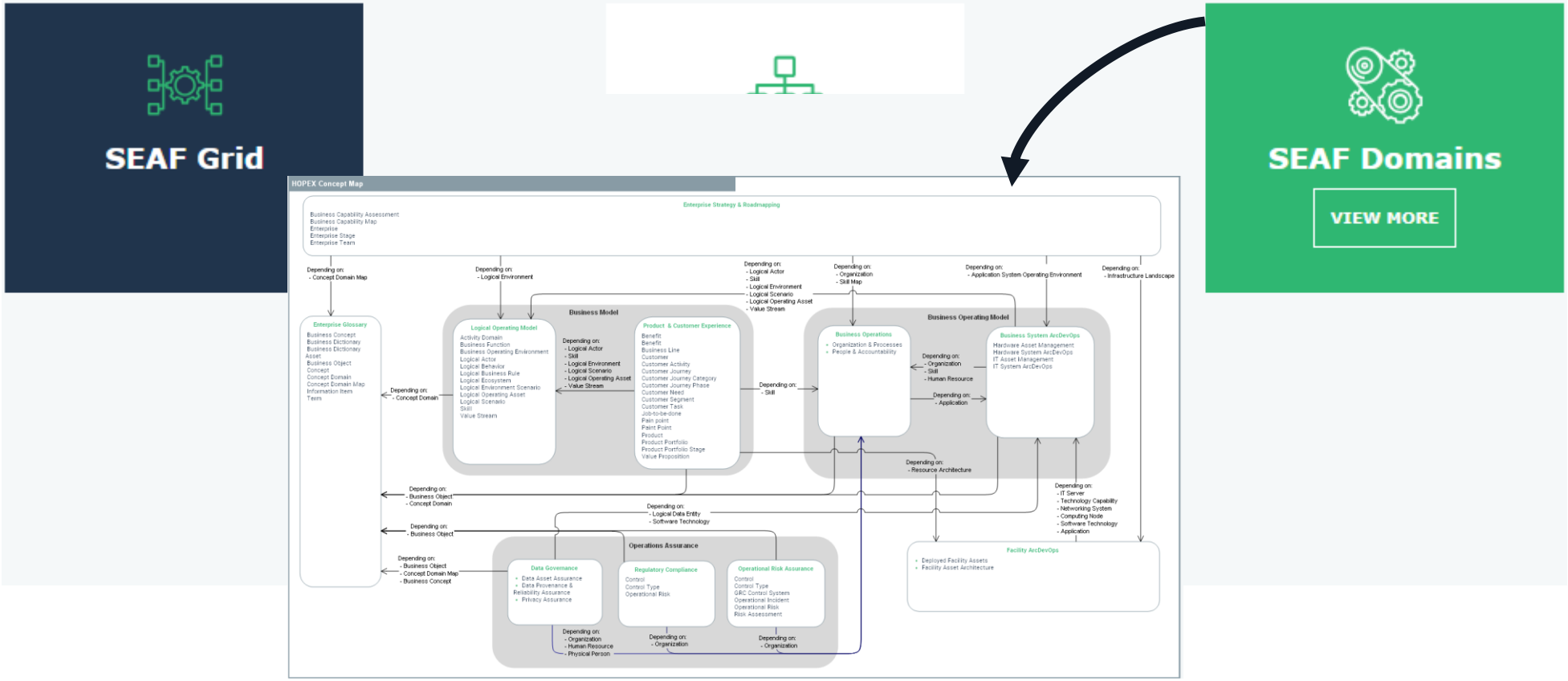
- It provides a domain classification of SEAF major concepts:
- Agents, Behaviors, Policies, ..

The Methodology Viewpoint

- It provides an overview of organizations and methods to carry out architecting activities in an agile@scale enterprise.

The Domain Models Viewpoint

- It provides a domain driven organization of SEAF Concepts

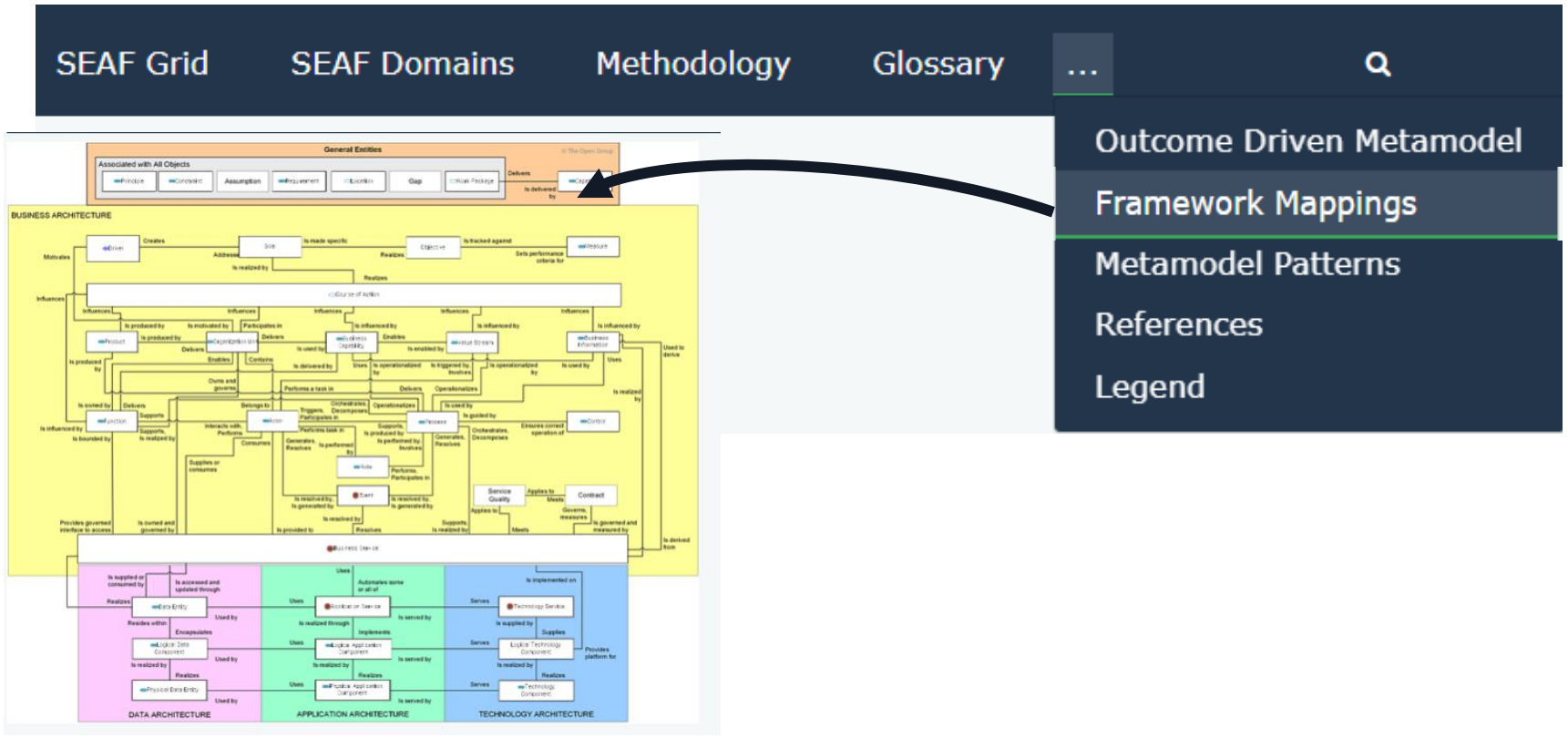


Additional Entry Points

- The top-level menu provides another access to entry points
- The first items are shortcuts to the main entry points.
- Additional entry points are also provided and described below:

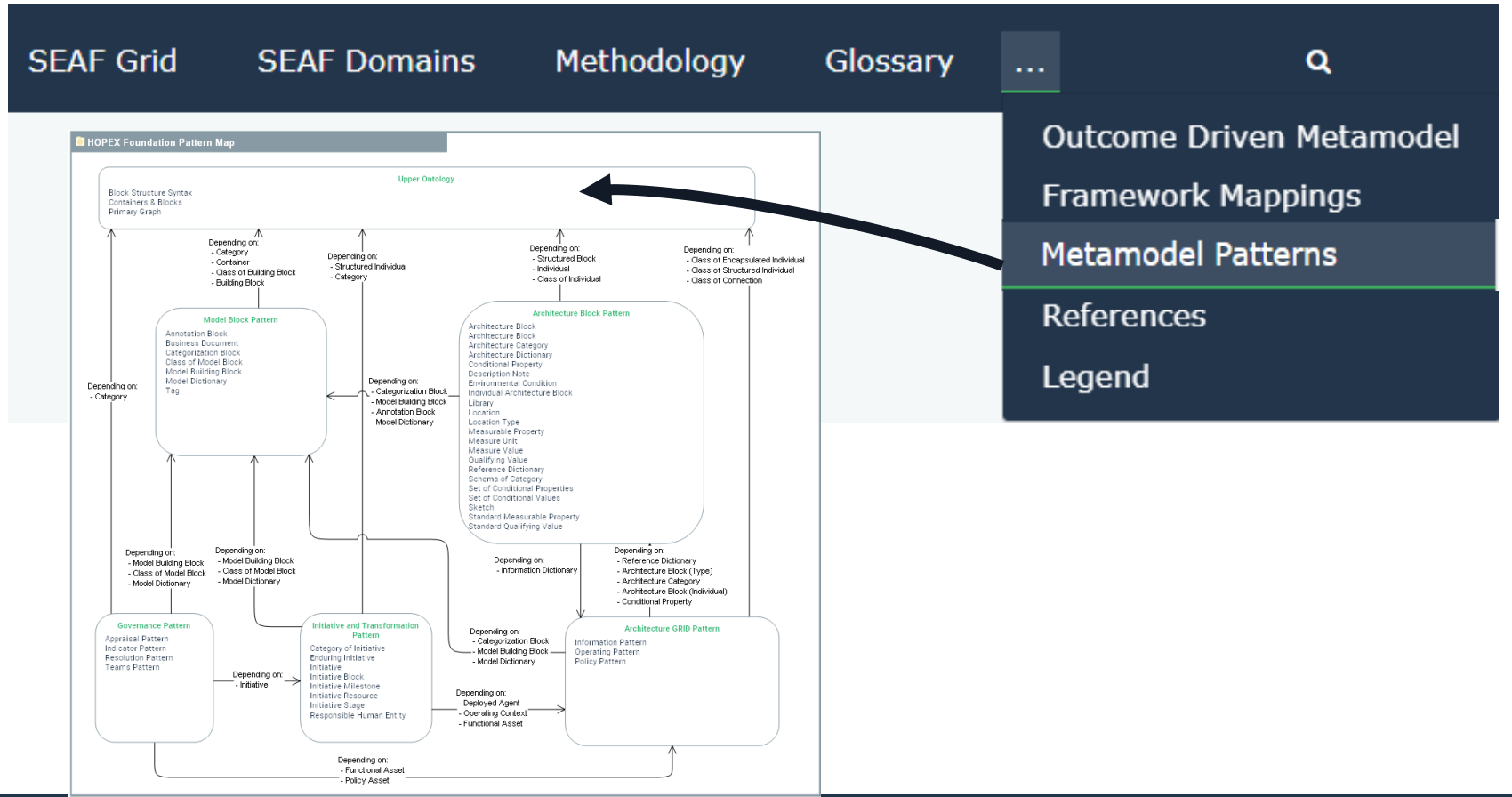
Additional Entry Points – Framework Mappings

- Frameworks mappings provide correspondence to major EA frameworks: TOGAF, UAF, BMM, …



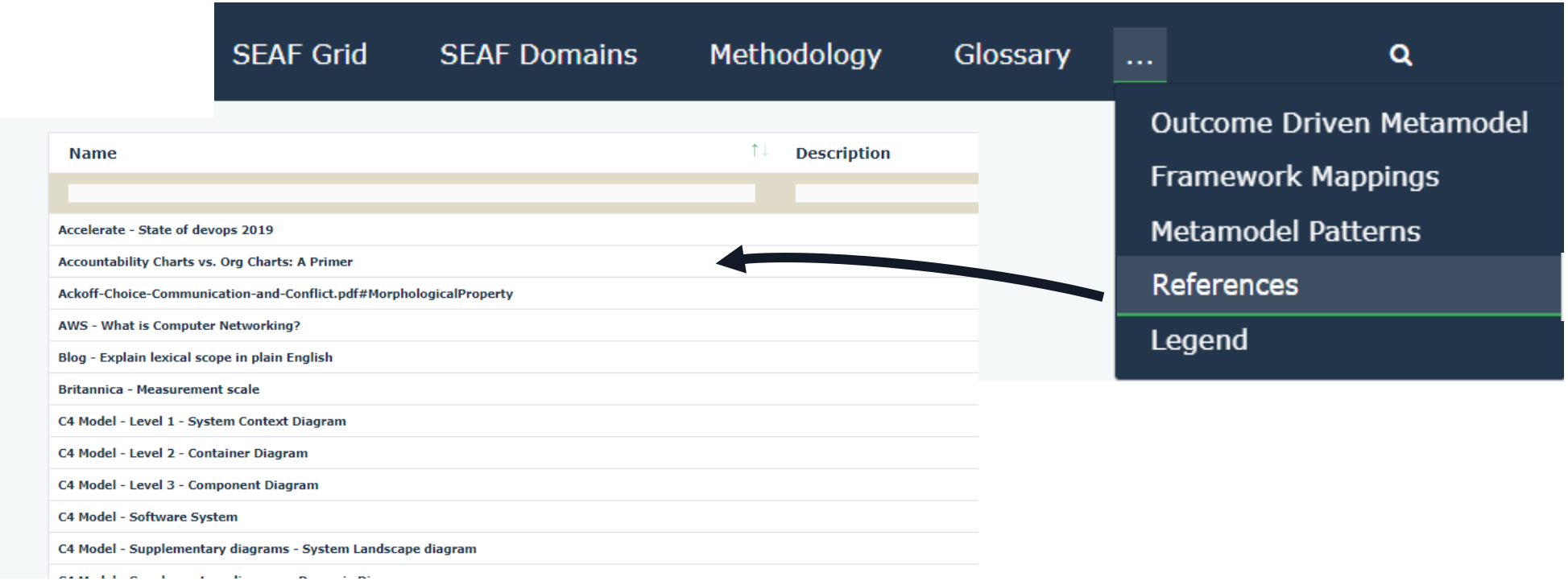
Additional Entry Points – Metamodel Patterns

- SEAF Metamodels are based on patterns that shape their semantic structure.
- A key pattern is the Operating Pattern which explains the relationships between Capabilities, Agents, Behaviors, Outcomes, Information and Directives.



Additional Entry Points – References

- The reference section list all url links to external specifications.
- For instance, all TOGAF and UAF mappings point to their corresponding framework definitions.



Additional Entry Points – Legend

- The legend section provides a description of the notation used in this web site