



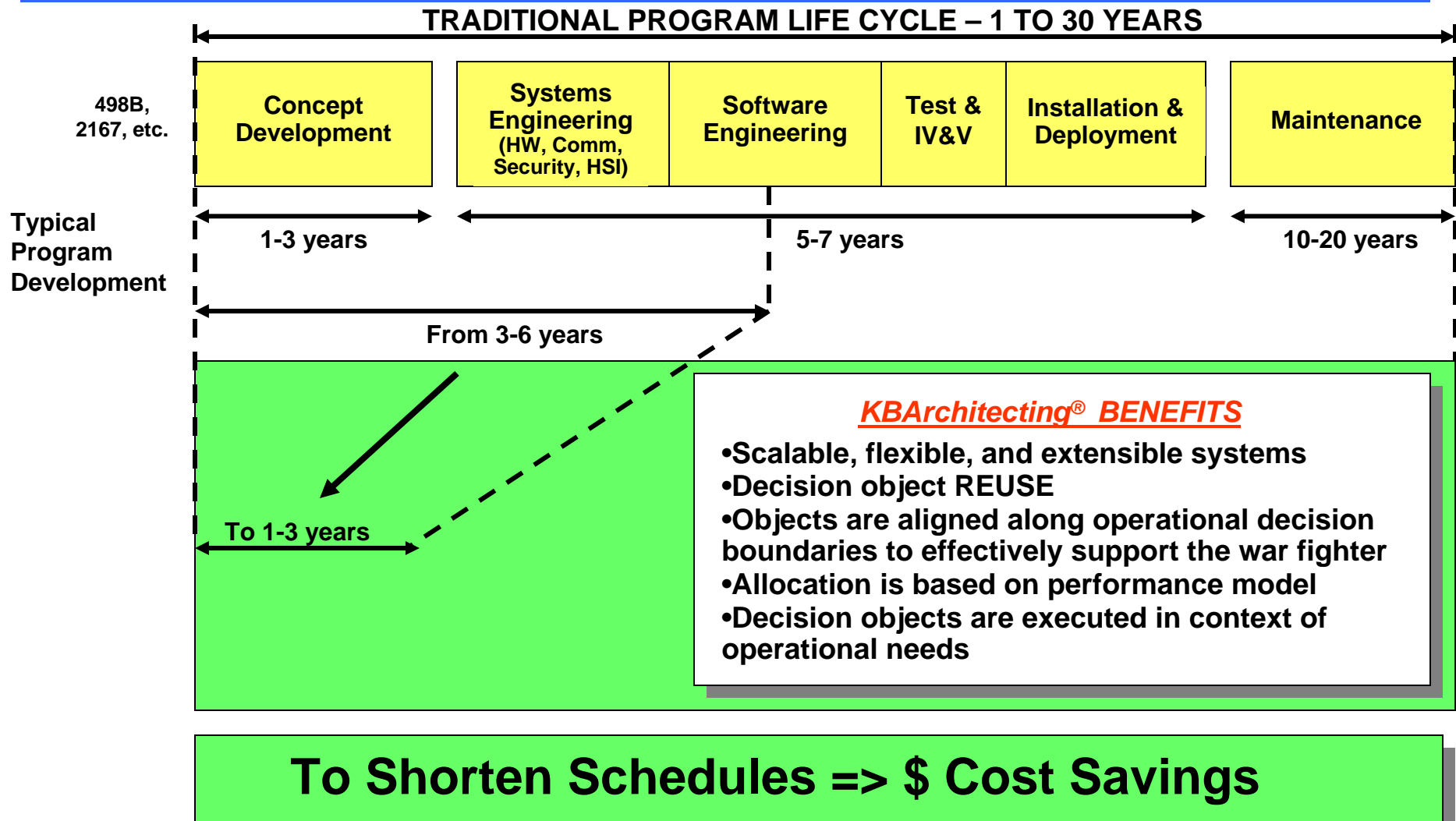
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FORELL's KBArchitecting®

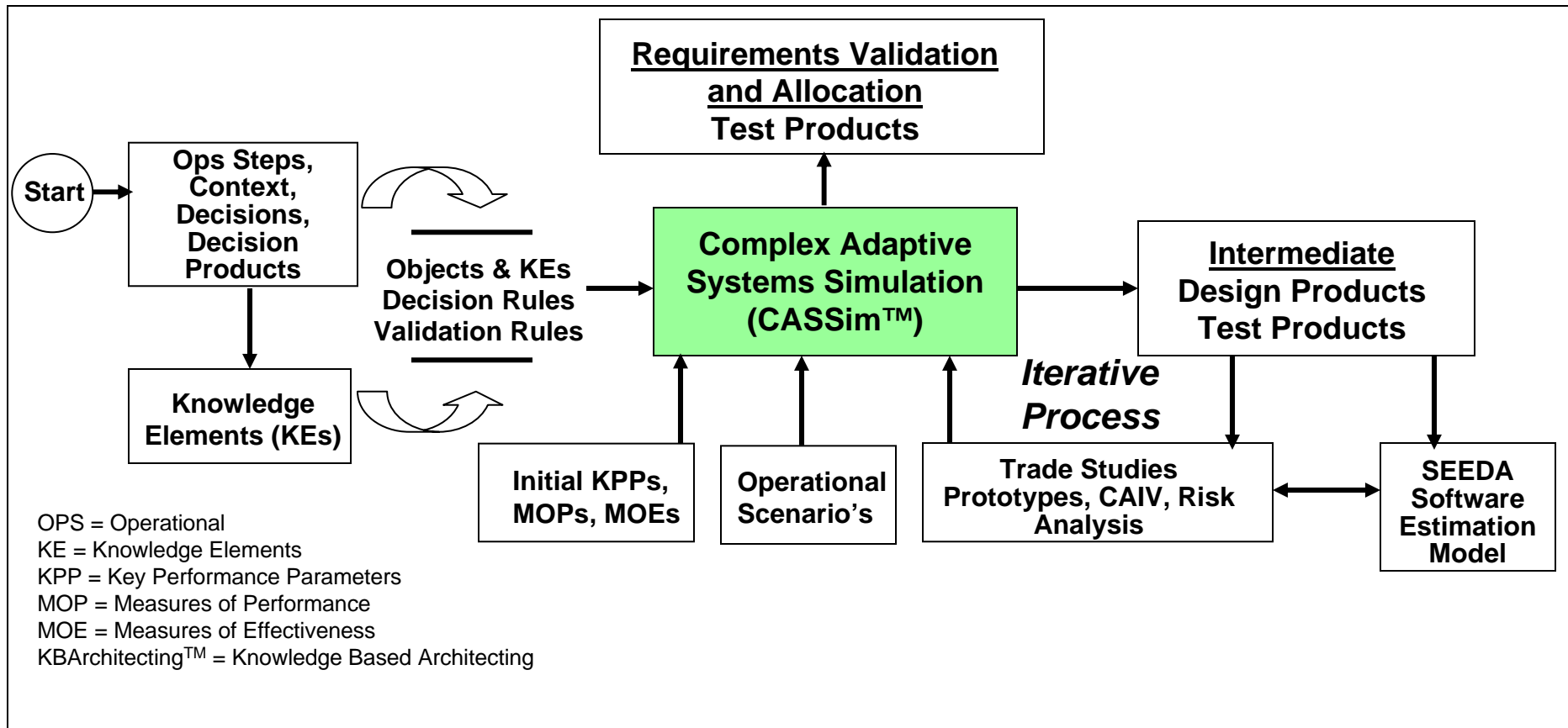
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Why KBArchitecting®?



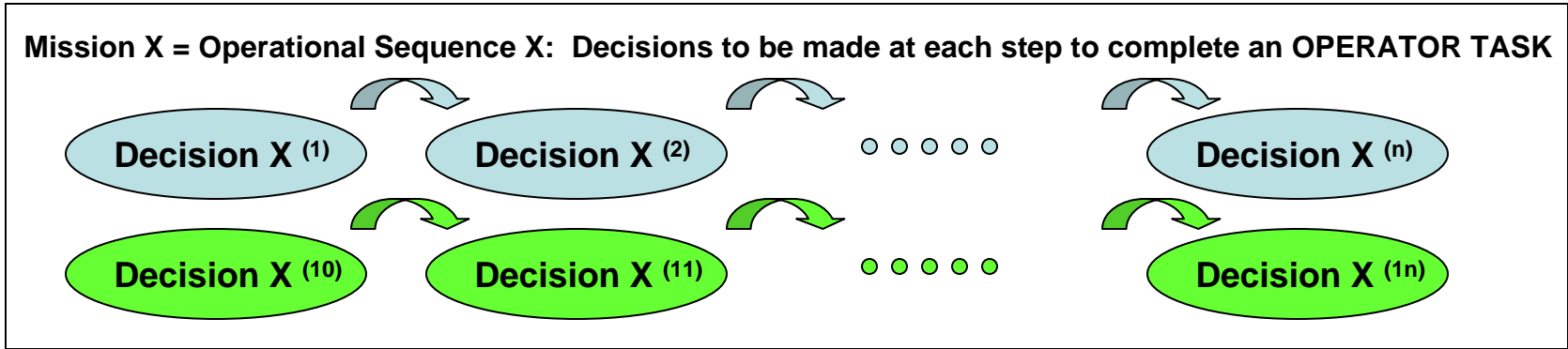
KBArchitecting® Process View



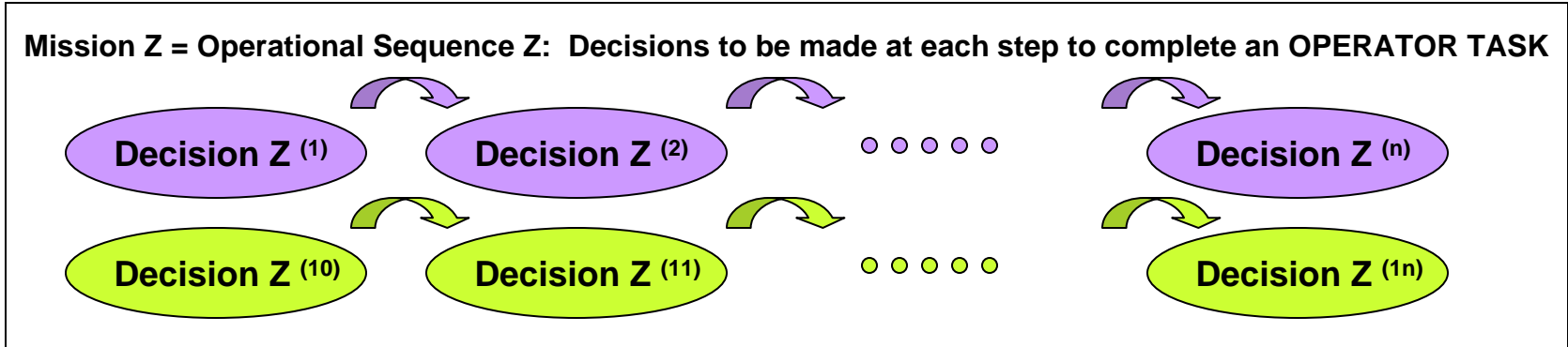
A Decision-Based Engineering Process

Operator Task Requirements Definition using Decision Sequences

Integration Test String Definition

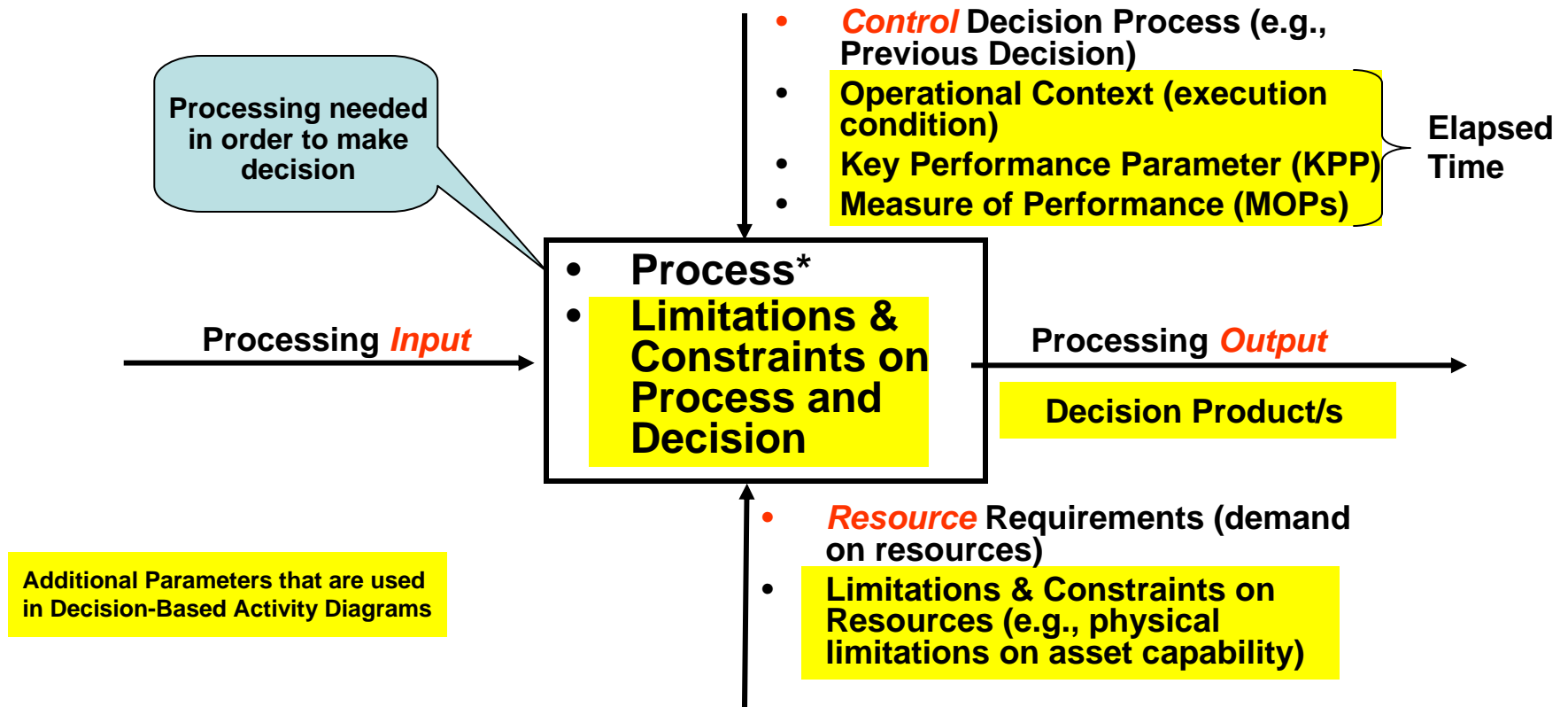


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Decision Objects support Operator Tasks

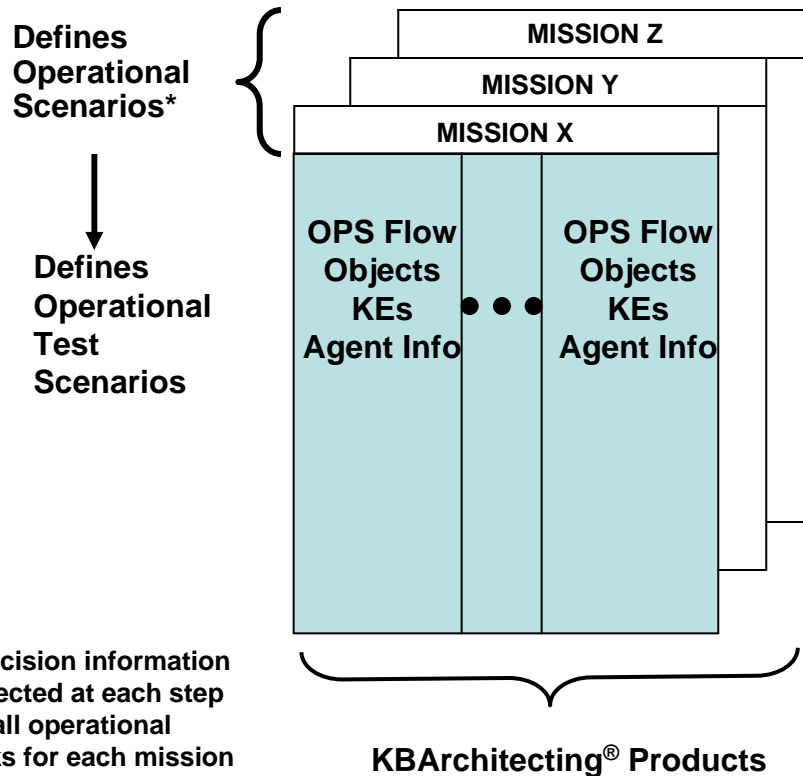
Decision-Based Activity Diagrams to Create Decision Objects



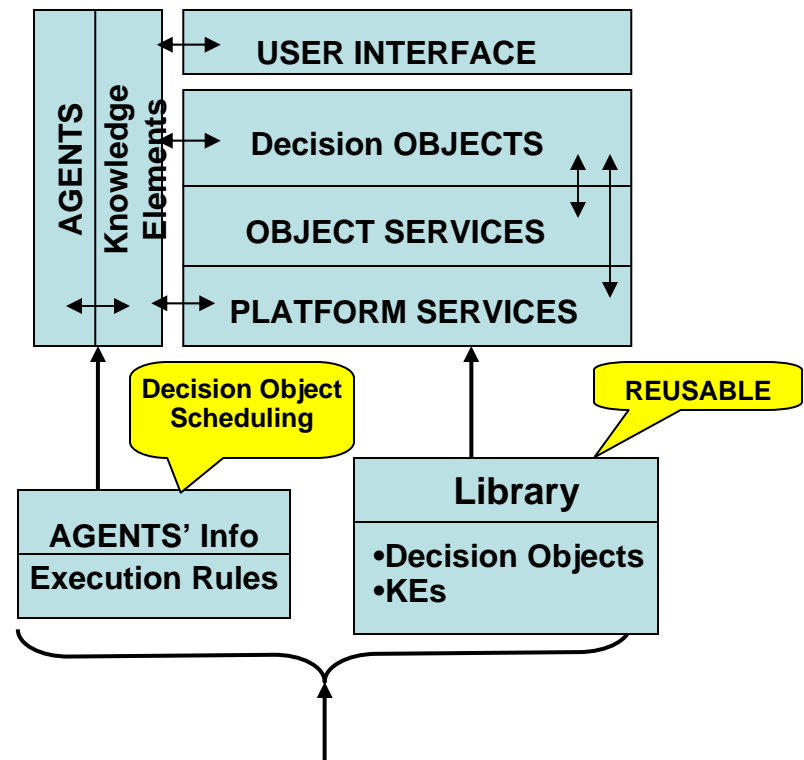
Focus is on PERFORMANCE

Decision-Based Open Architecture for Scalable, Flexible, and Extensible Systems

KBArchitecting® Methodology

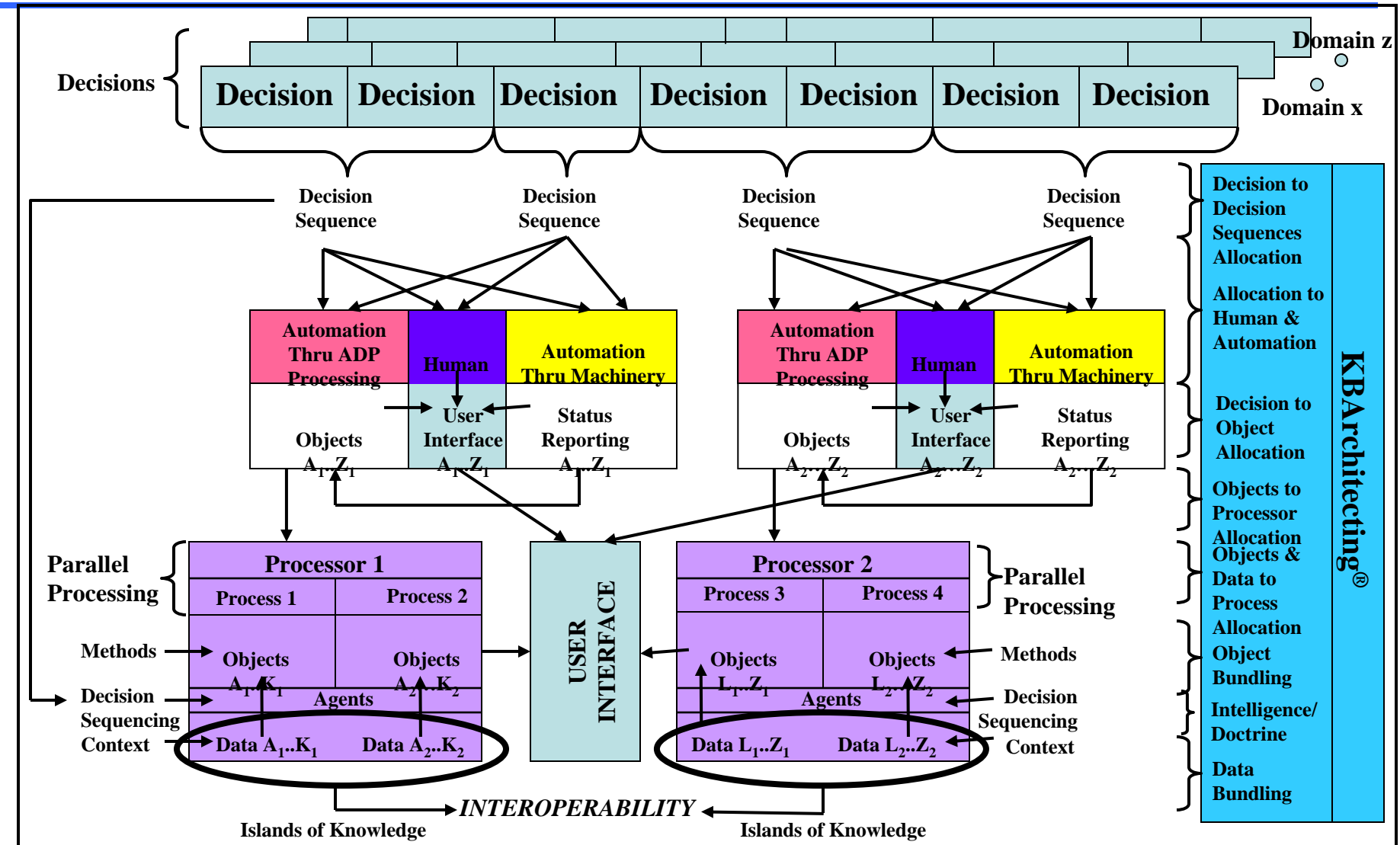


Open Architecture



Processing along Decision Boundaries for Improved Performance

KBArchitecting® Conceptual System View



Conclusion

WHAT IS KBArchitecting®

- **A new systems engineering approach that captures and documents user requirements in terms of decisions that are made when performing operational task.**
- **It includes operator task and system analysis, providing allocation to hardware, software, and people => supporting automation requirements analysis an definition**
- **Decisions are encapsulated into decision objects. During the KBArchitecting® engineering process all the information needed to make these decisions is identified and rules are generated to execute these decision objects in the context of the operational system using intelligent agents**

BENEFITS:

- **Satisfies User Requirements Better**
 - **Aligns system requirements with operational requirements**
 - **Validates operational requirements against operational decisions**
 - **Implements a flexible, scalable, and extensible system that can be tailored to individual users for specific missions**
- **Implements a Cost Effective System Reducing Life Cycle Cost**
 - **Shortens initial system development cycle**
 - **Creates a library of operationally aligned decision objects**
 - **Provides for ease of technology insertion**
 - **Provides for ease of system maintenance**
 - **Supports operational changes easily**
 - **Provides early SW cost and risk assessment**