



Design Guides

The Foundation of Design Process Management

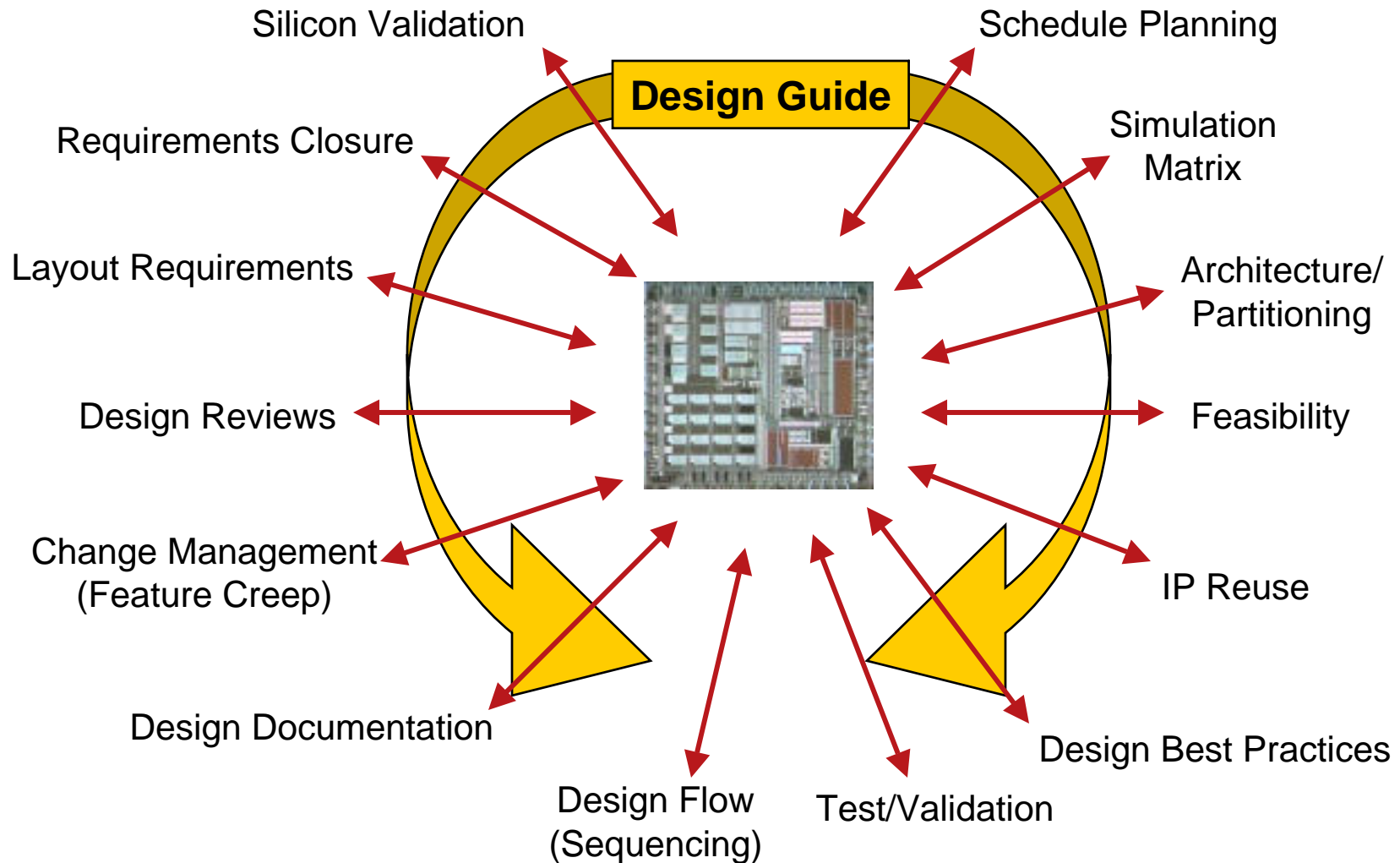


The Design Guide Defined

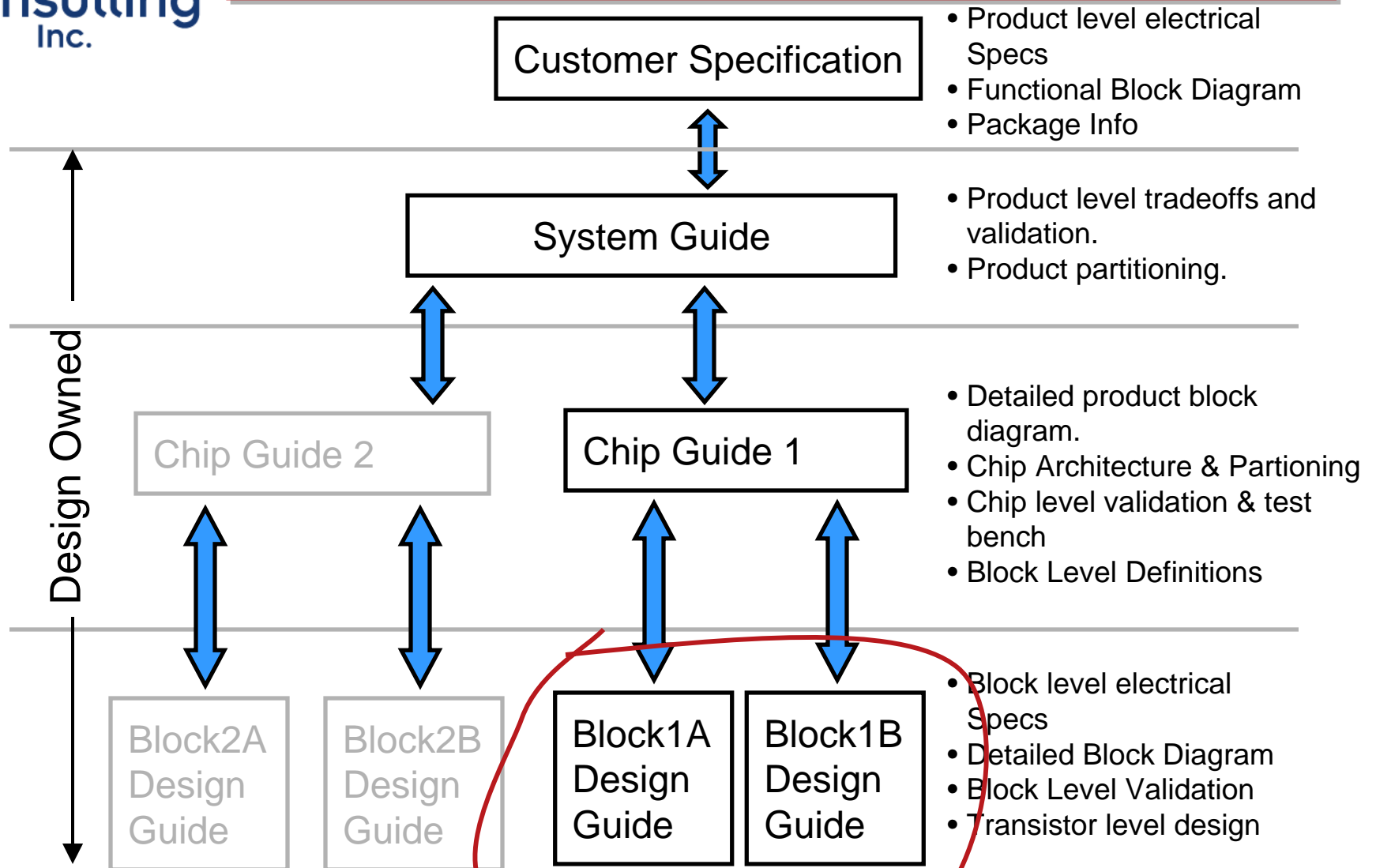
The design guide is a real time hierarchical document used by design to guide them through their design process from early concept through production release. This single, complete document addresses the following:

- ❖ Architecture tradeoffs and partitioning
- ❖ Hierarchical Information transfer from higher to lower levels of abstraction
- ❖ Aligns with business product development process
- ❖ Design documentation
- ❖ Electrical and functional requirements
- ❖ Design flow
- ❖ Best Practices
- ❖ Information beyond schematics, simulations & layout to be managed by design
- ❖ Manages the design reviews

Design Guide Covers Broad Landscape of Activities

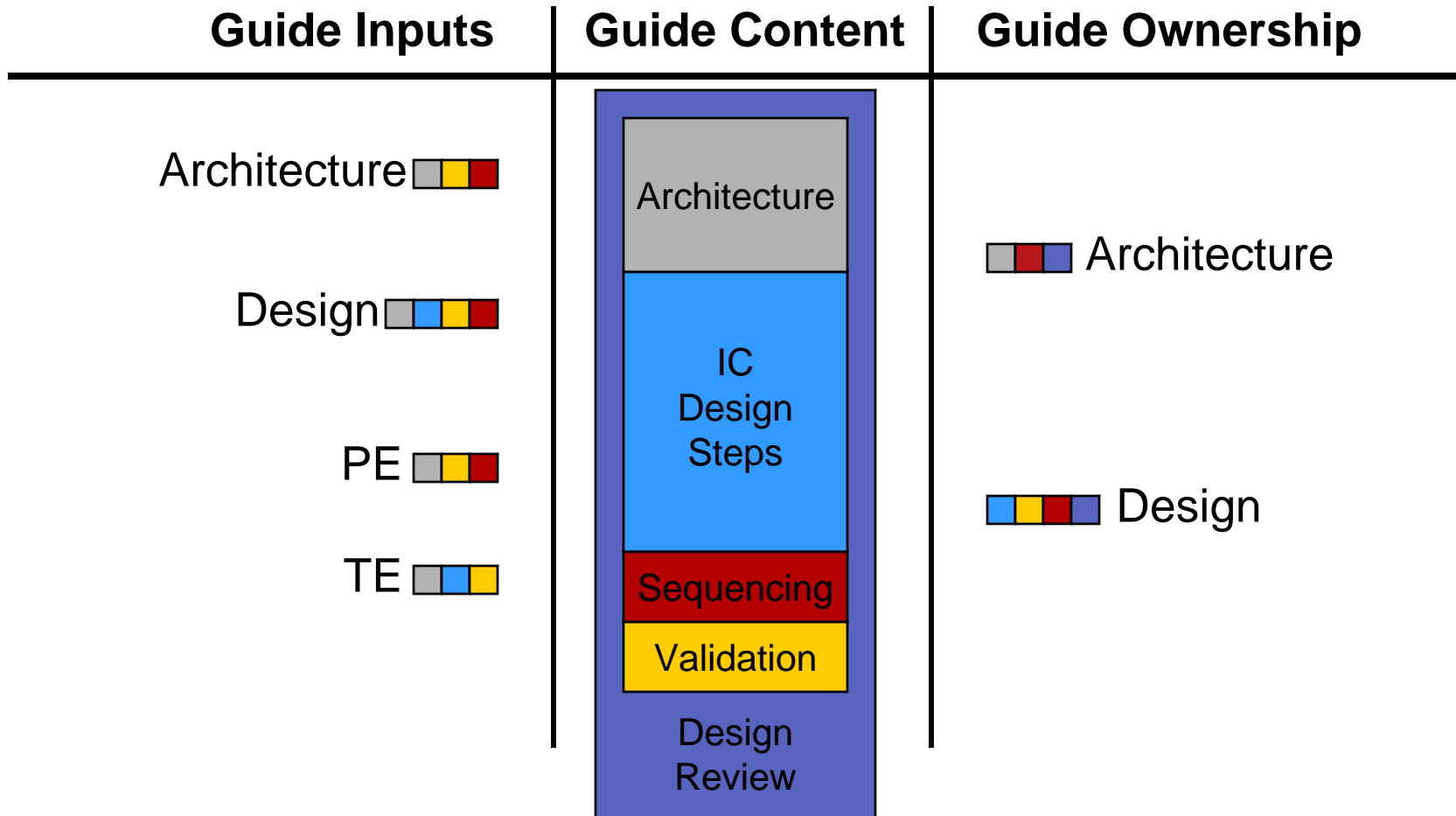


Design Guide Relationships





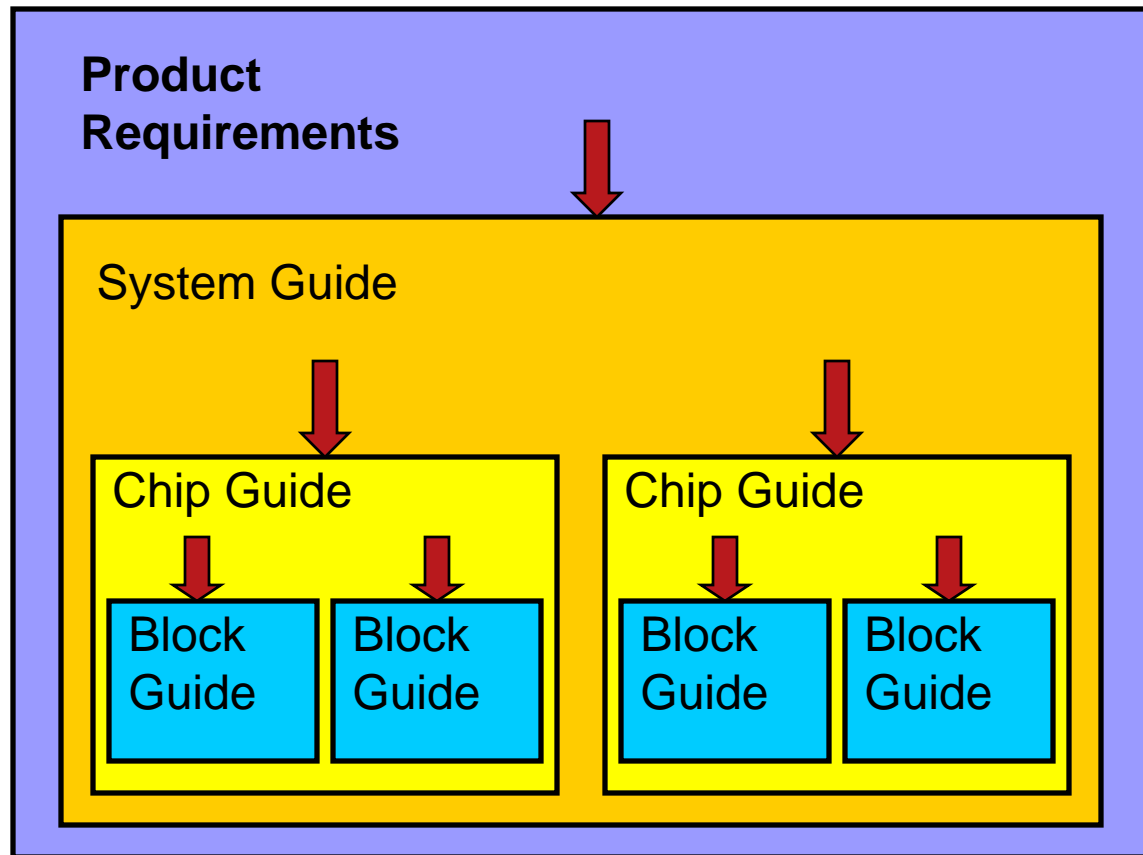
Content Definition and Ownership of the Guides



Requirements Passed Down via the Design Guide

Higher abstraction levels define lower level requirements via guides

- ❖ Product defines system requirements
- ❖ System defines chip requirements
- ❖ Chip defines block requirements





Results to Expect with Design Guides in Place

- **Alignment of the design team to common expectations AND deliverables.**
 - Integration issues fade.
- **Alignment of the design team to test, product engineering, applications and business expectations.**
- **Alignment of design with the new product process.**
- **Consistent, repeatable design information for reviews.**
- **Consistent, documented decision points.**
- **Conversion of unknown/unmanaged design tasks into well known, well managed tasks.**