

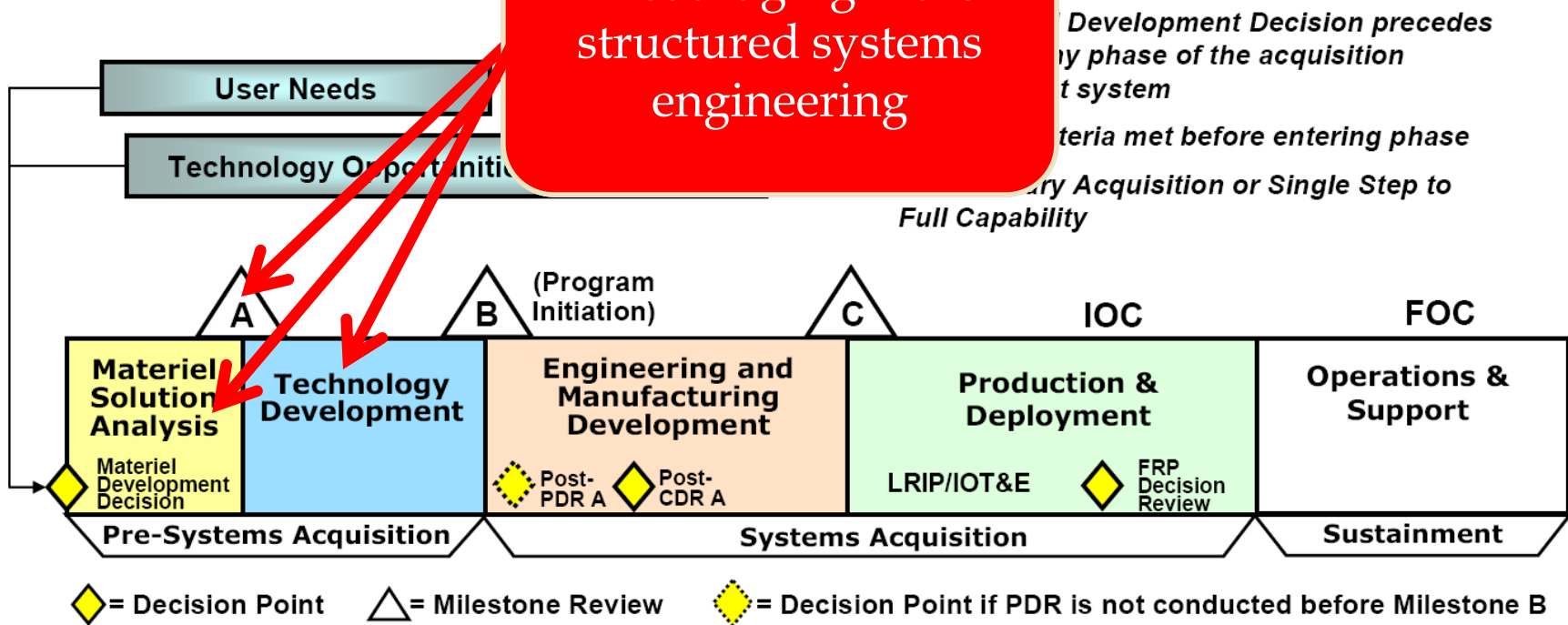
TRL VECTORS IN IPPD- BASED PORTFOLIO MANAGEMENT



GENERAL DYNAMICS
Advanced Information Systems

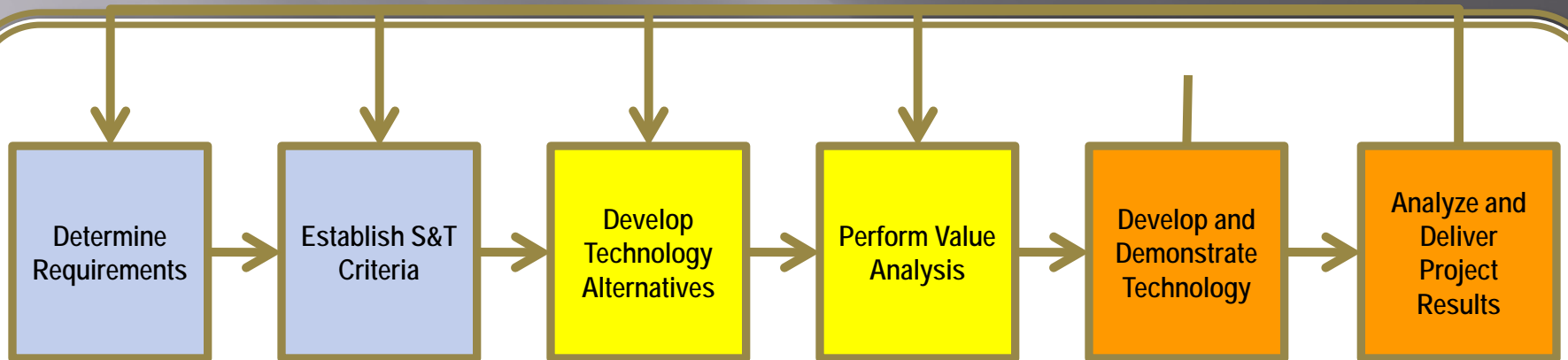
Emphasis on S&T Research Increasing in Milestone Contribution

Encouraging more structured systems engineering

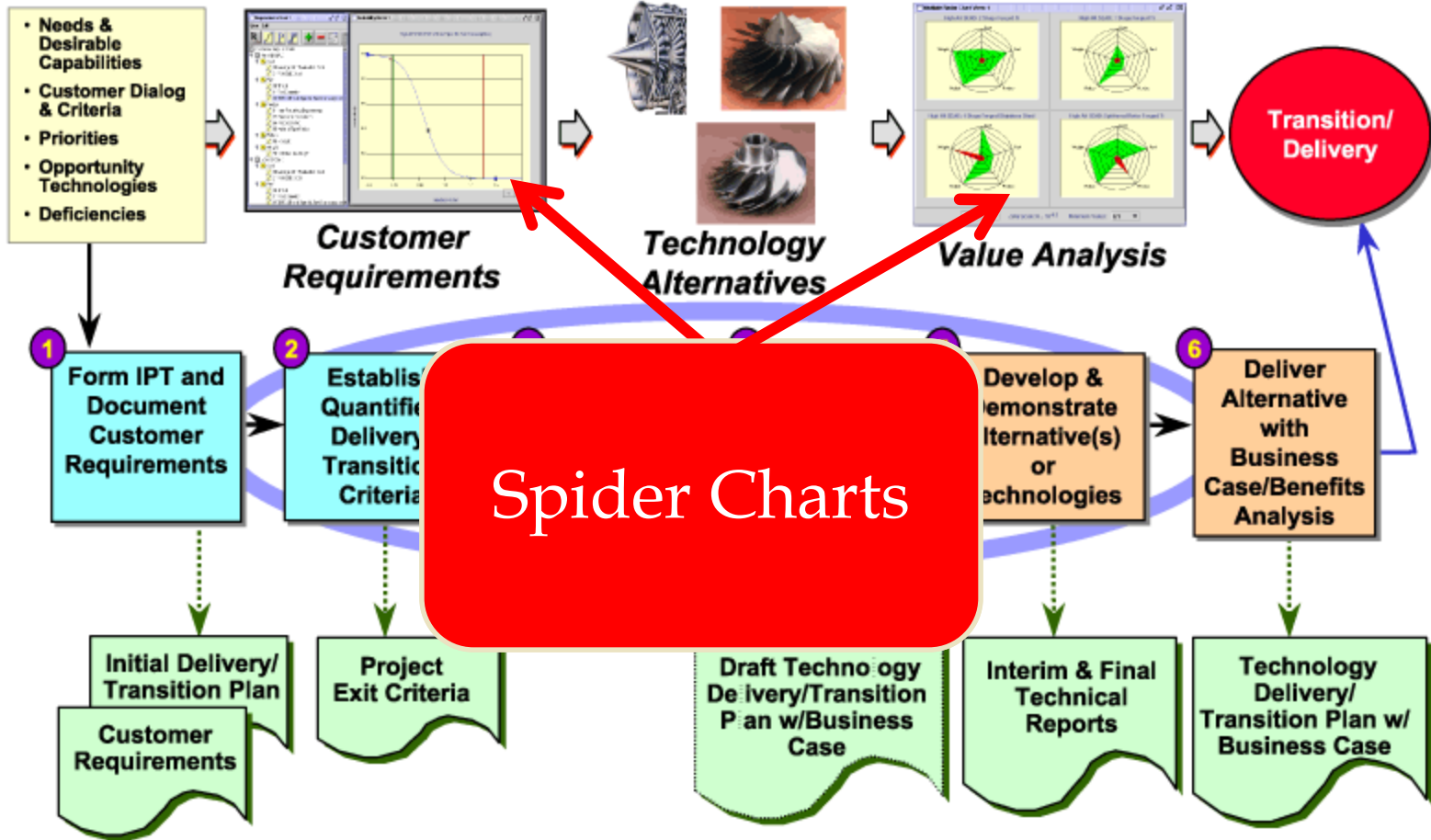


IPPD-based Technology Research

Technology Development Time

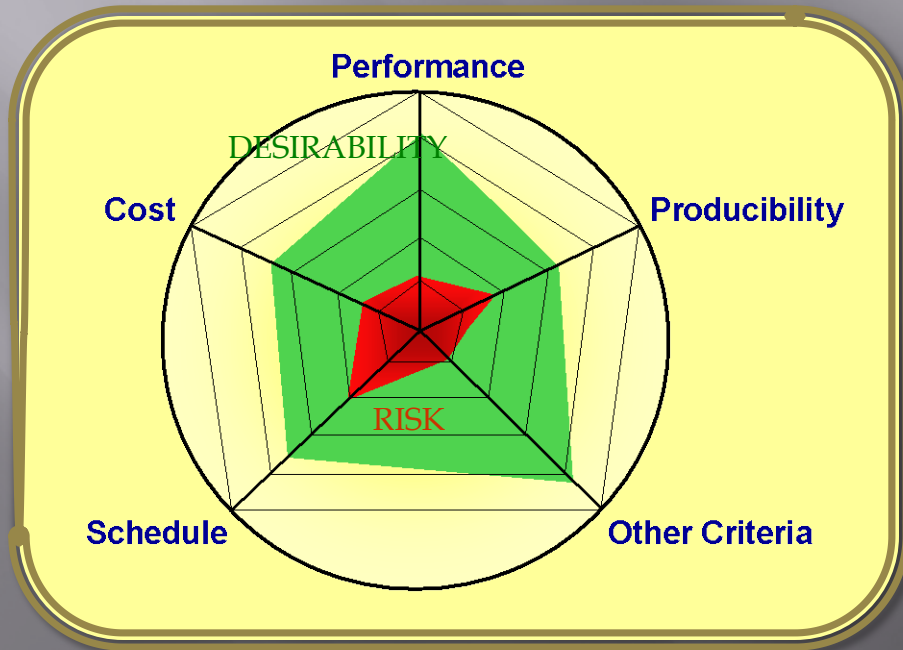


IPPD Process Model - Top Level



Integrated Product and Process Development (IPPD) Process Model

Map TRL to Desirability and Risk



Cross technology issue measurement and performance characteristic validations completed

Quality and reliability levels established

Collection of actual maintainability, reliability, and supportability data has been started

Quality and reliability levels established

Investment needs for process and tooling determined

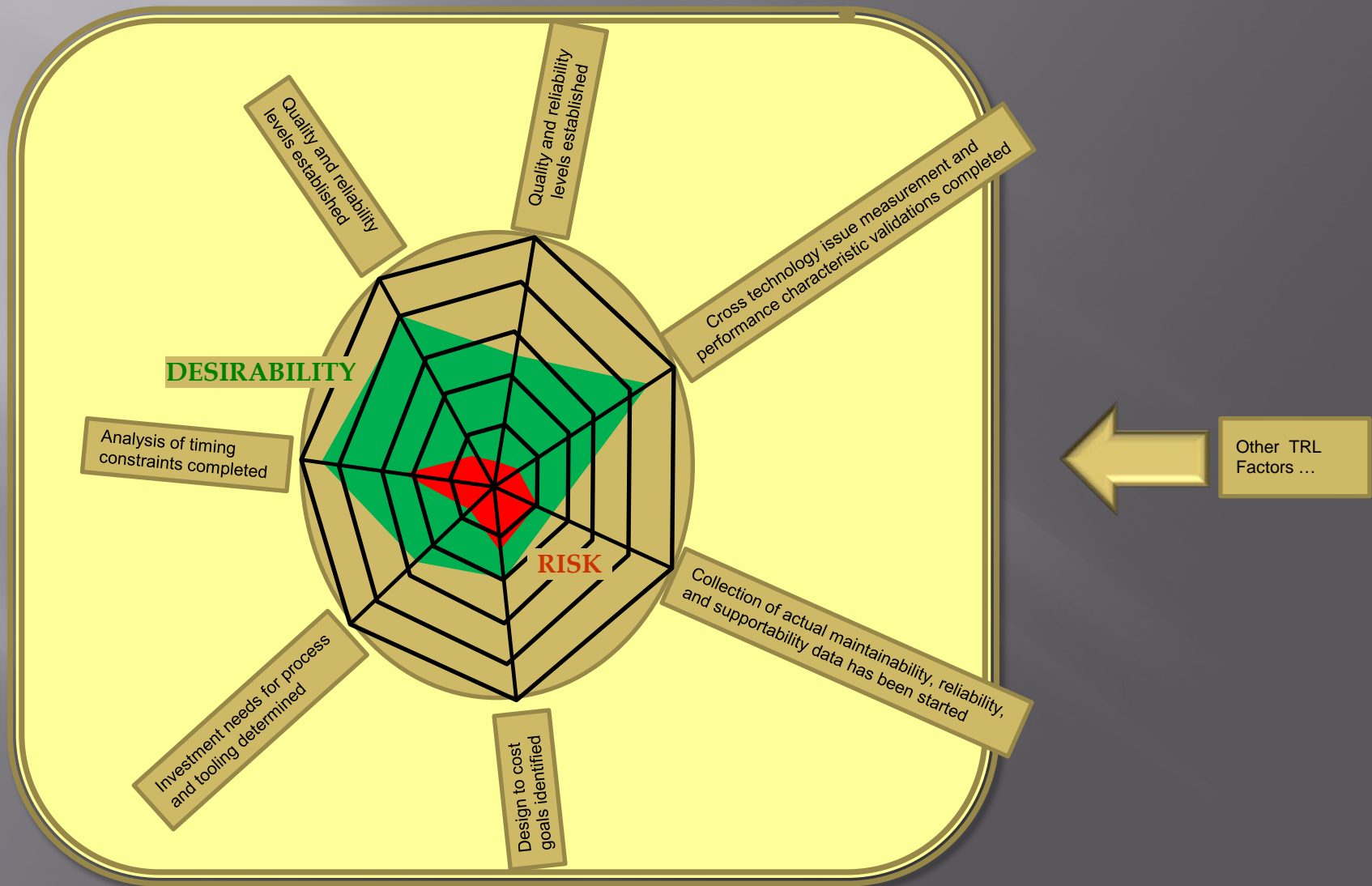
Design to cost goals identified

Analysis of timing constraints completed

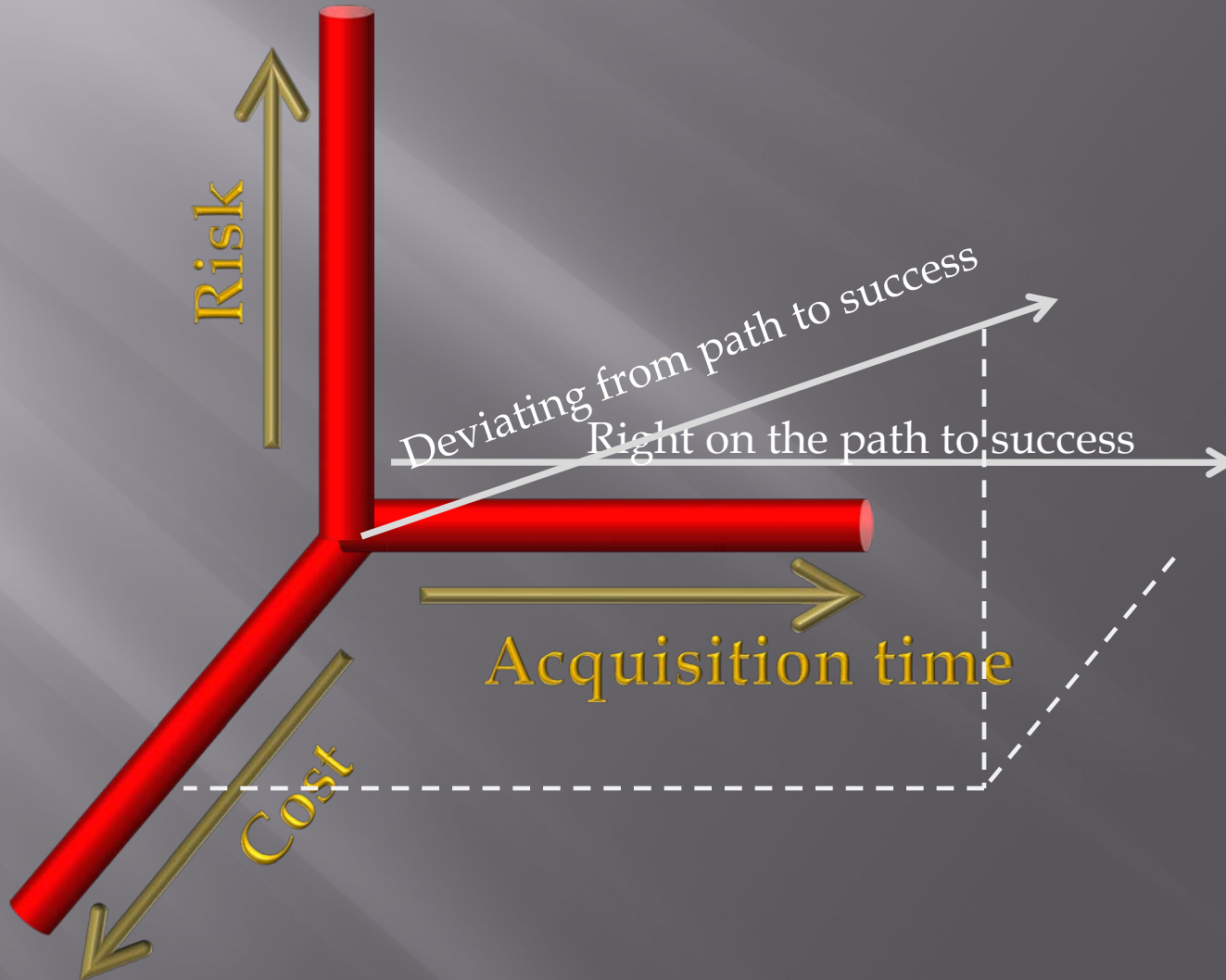
Other ...

TRL Calculator Metrics

Map TRL to Desirability and Risk



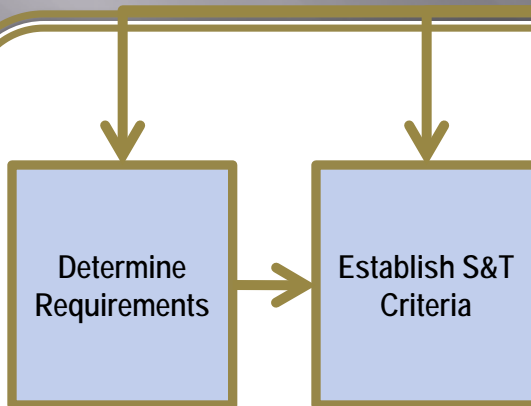
Defining a TRL Vector



IPPD – Focused On Metric Evaluation

- ▣ A basic premise is criteria can be defined for each step and sub-step of the lifecycle process

Technology



- S&T Exit Criteria are defined to be the thresholds on the key requirements.
- They must be met if the technology is to advance to the next stage of development or transition.
- Exit Criteria for one phase of development are often synonymous with Entrance Criteria for the next phase.

Exit / Entrance Criteria Define Bounds for TRL Vector

