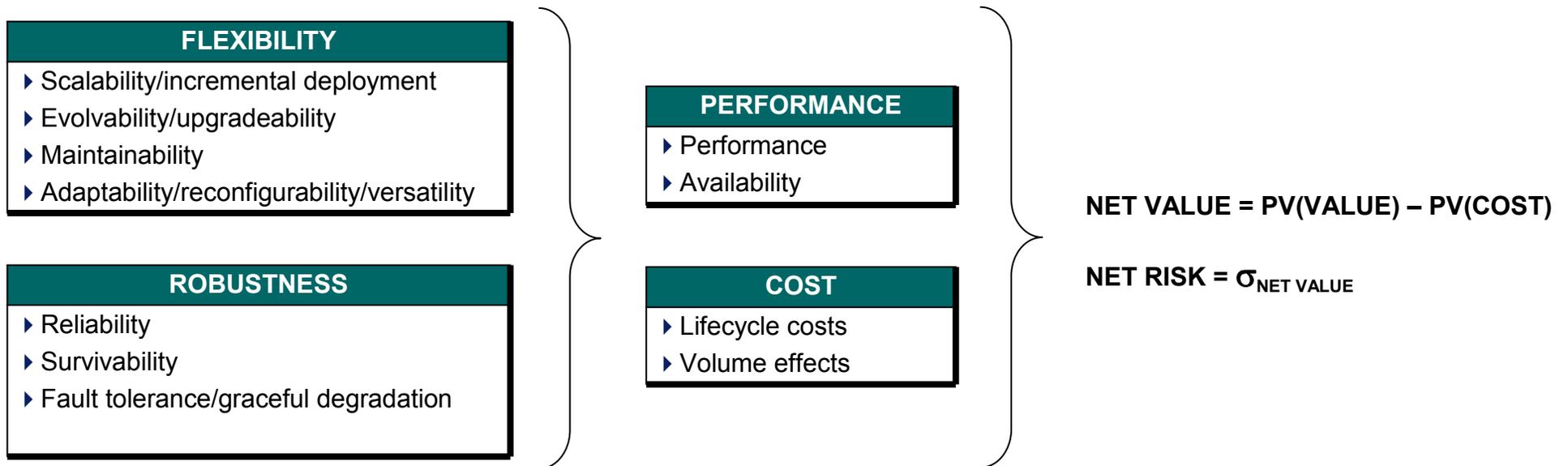


Suggested Terminology for Value Modeling Discussions



Definitions of Specific Terms (1)

- ▶ **Flexibility** – ability of a system to change on demand
 - **Scalability** – addition of components (*syn: incremental deployment*)
 - **Evolvability** – replacement of components due to obsolescence (*syn: upgradeability*)
 - **Maintainability** – replacement of components that have failed or are near end of life
 - **Adaptability** – reconfiguration of existing functionality (*syn: reconfigurability, versatility*)

- ▶ **Robustness** – retention of functionality in response to an internal or external stimulus
 - **Reliability** – ability to function under nominal conditions
 - **Survivability** – ability to function under off-nominal or unanticipated conditions
 - **Fault tolerance** – gradual loss of functionality due to failures (*syn: graceful degradation*)

Definitions of Specific Terms (2)

- ▶ **Lifecycle cost** – total cost to develop, deploy, and maintain the desired service or functionality
 - **Lifecycle cost** – specifically including development cost, procurement cost, launch cost, operations cost, and sustainment cost
 - **Volume effects** – including production learning and launch volume effects

- ▶ **Performance** – ability of a system to provide the desired service or functionality to the user
 - **Measures of performance** – appropriate metrics of service capability; ultimately, such MOPs can be translated into dollar value based on service value to customer(s)
 - **Availability** – percentage of time that the objective service or functionality is available

- ▶ **Net value** – in present-day dollars, the total value delivered by the system over its lifetime, including the value of the all system attributes, minus the total lifecycle cost

- ▶ **Net risk** – the standard deviation or variance of net value