



ASQ CRE Prep course

Lesson IV. A. 2. b.

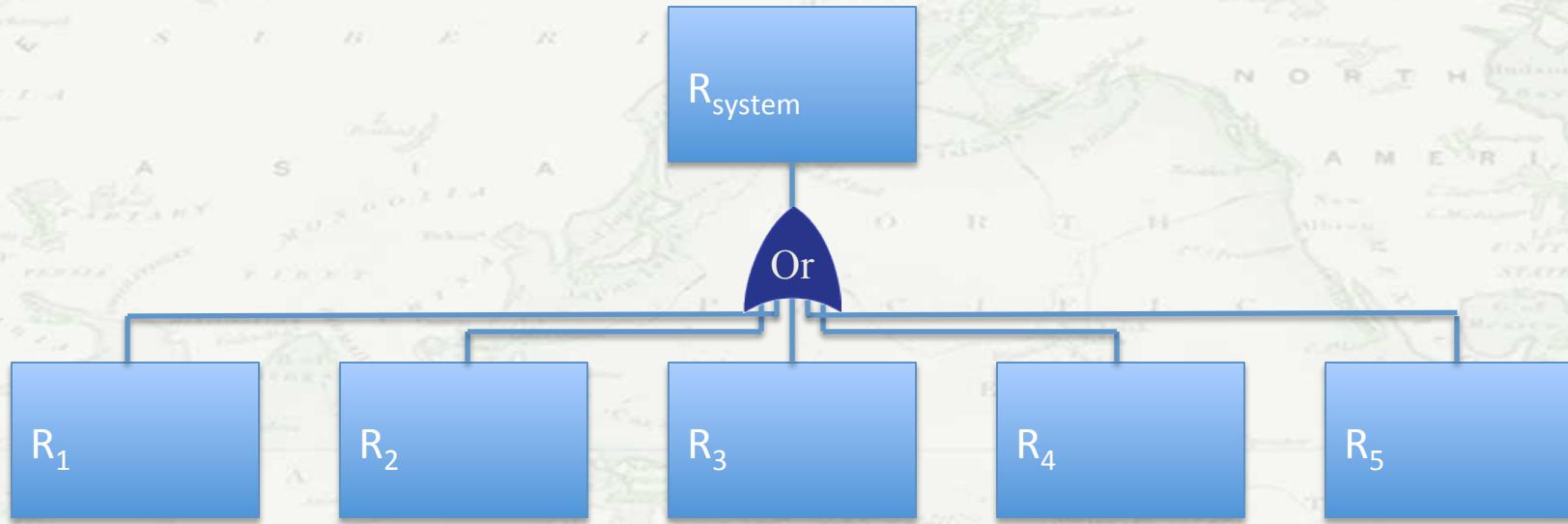
Reliability Block Diagrams
and Models – Parallel Systems

A photograph of a forested mountain peak under a clear blue sky. The trees are dark green, and a single, bare tree stands out against the foliage. The peak is covered in a mix of dark green and white, suggesting a transition between different forest types or a mix of evergreens and deciduous trees.

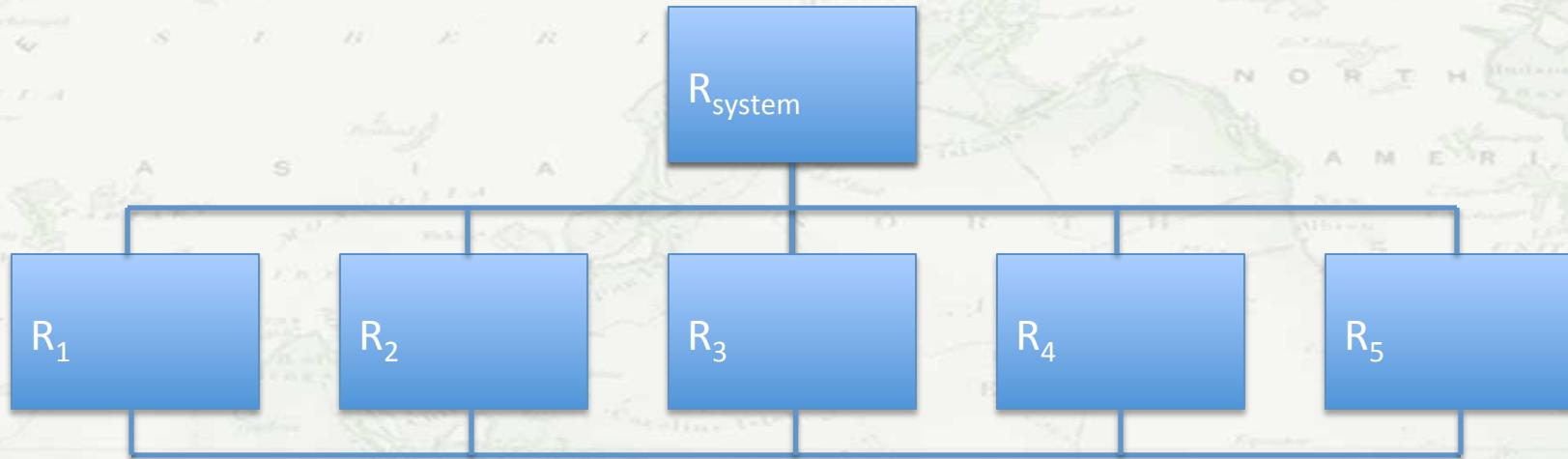
The weakest link tolerated

RELIABILITY BLOCK DIAGRAM PARALLEL SYSTEM

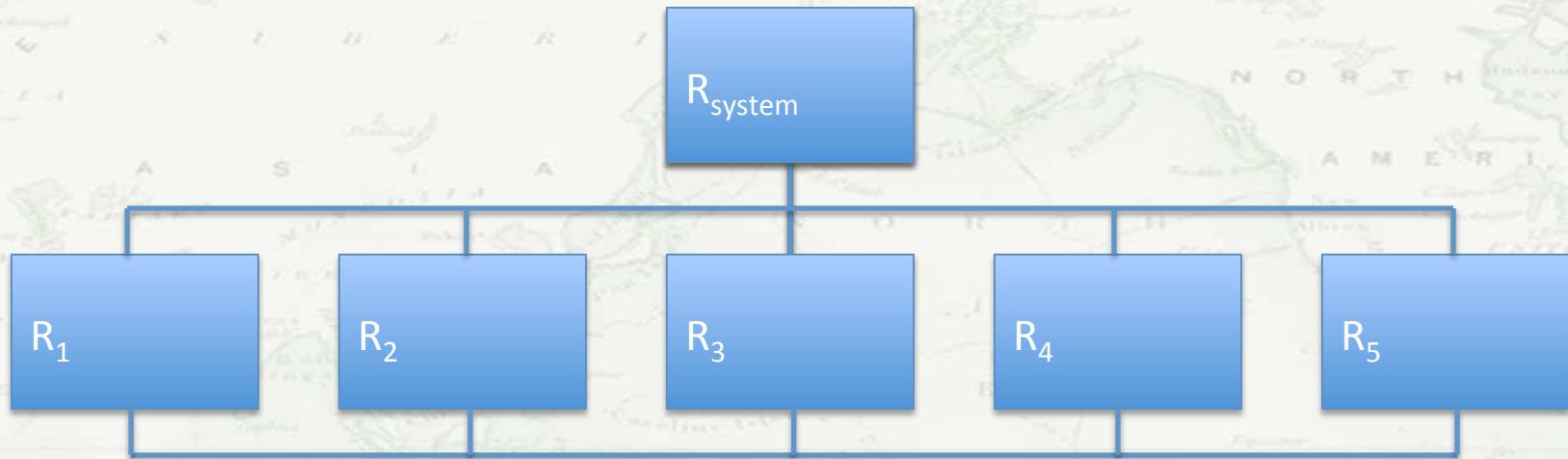
Parallel System (Success Tree)



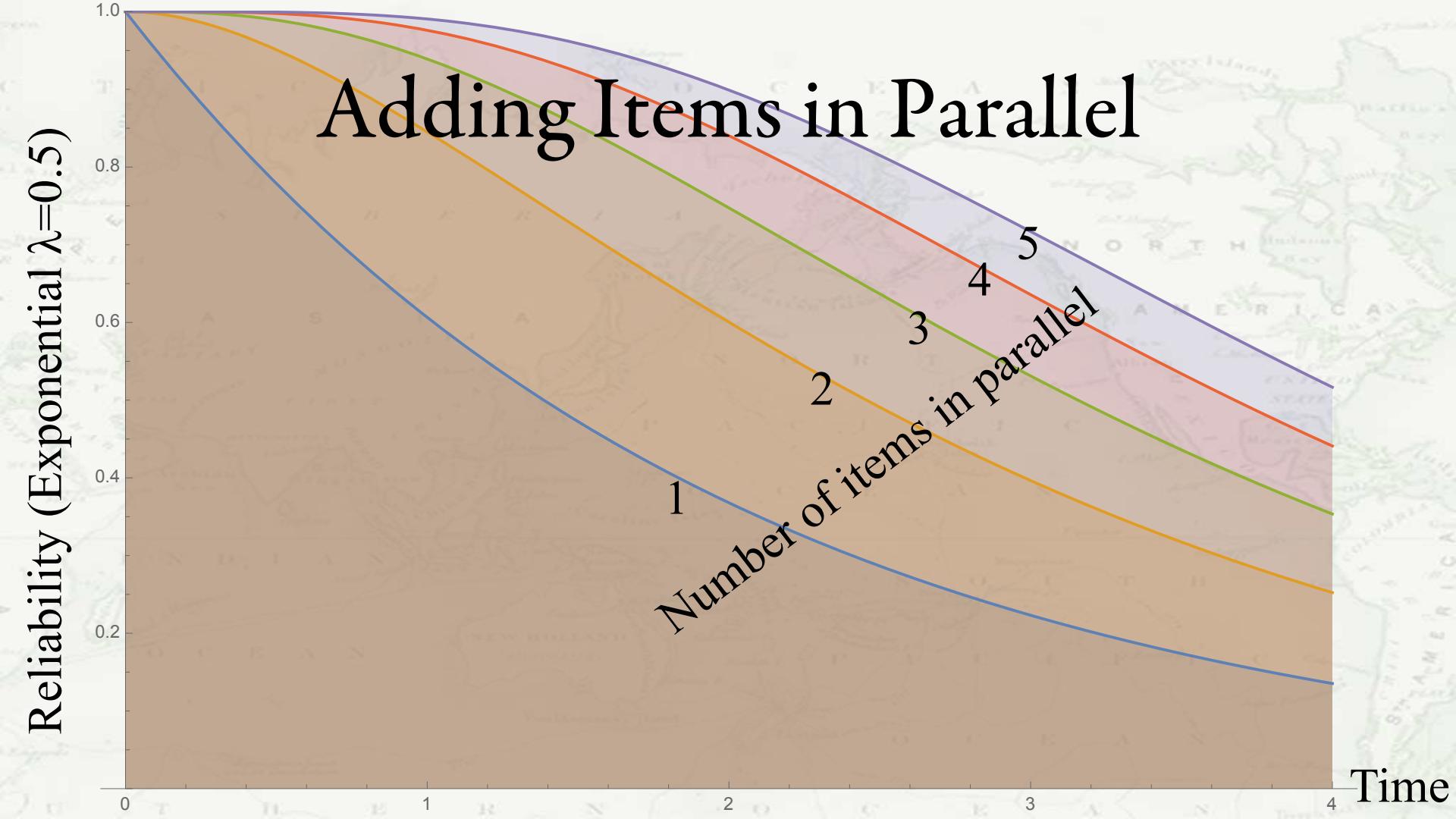
Parallel System (RBD)



Parallel System (RBD)



$$R_{system} = 1 - \prod(1 - R_i)$$



Why isn't this
done all the
time?



ASQ CRE Prep course

Lesson IV. A. 2. c.

Reliability Block Diagrams
and Models – Redundancy