



# ASQ CRE Prep course

Lesson IV. A. 2. b.

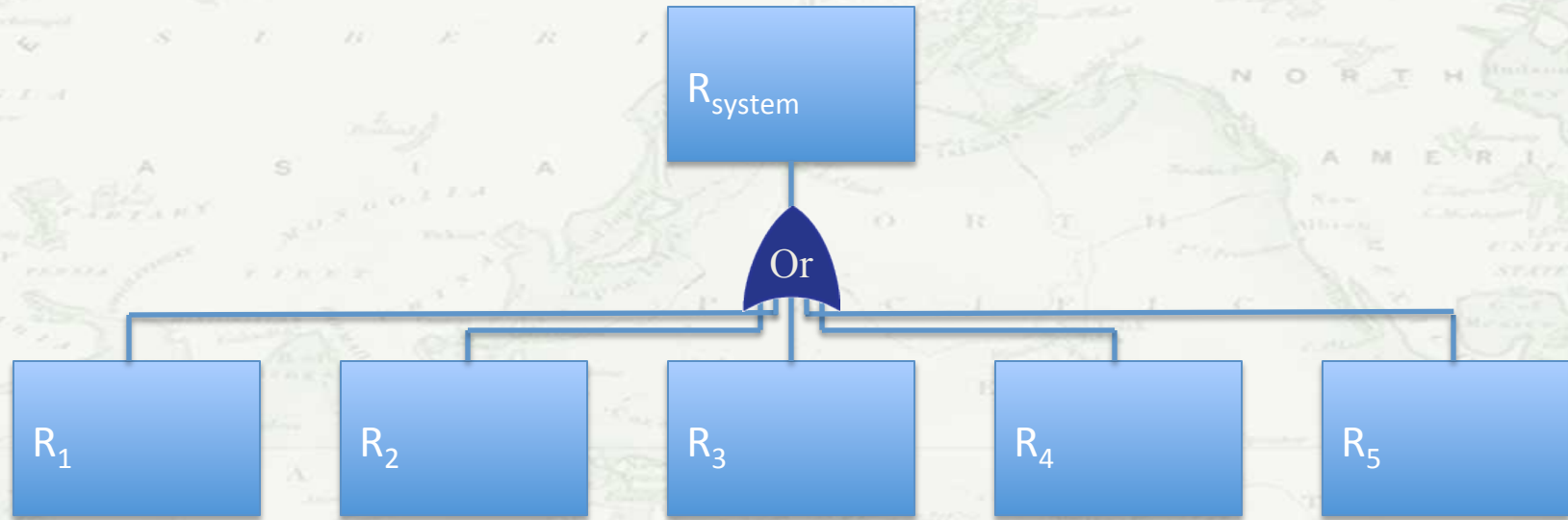
Reliability Block Diagrams  
and Models – Parallel Systems

A photograph of a steep mountain slope covered in dense evergreen trees, heavily laden with snow. The sky is a clear, bright blue. The text is overlaid on the lower portion of the image.

The weakest link tolerated

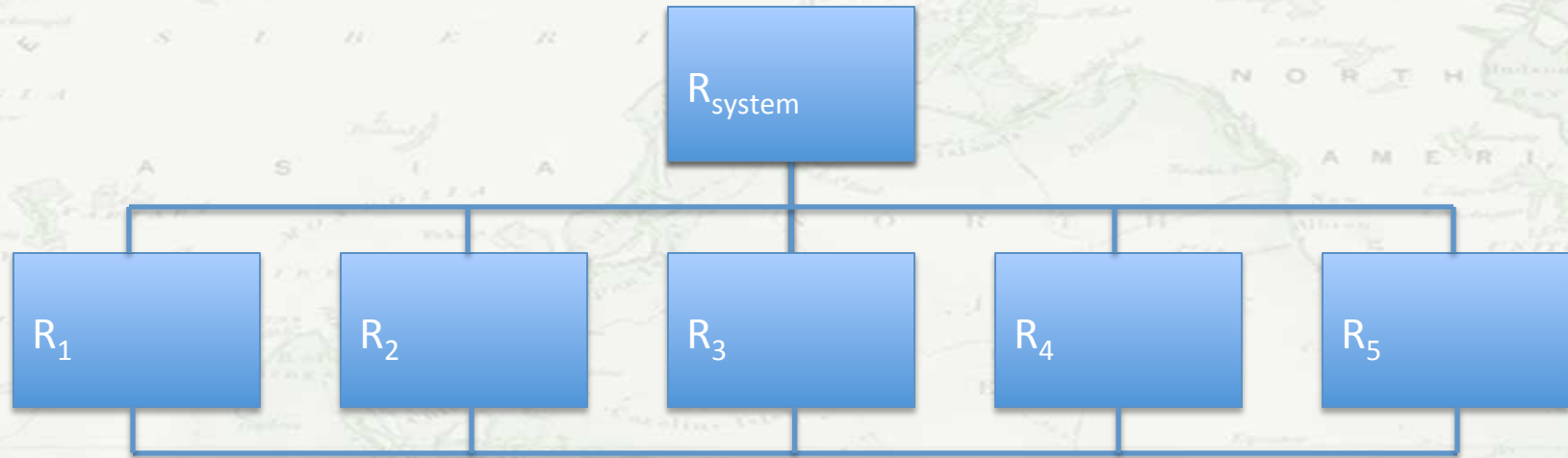
# RELIABILITY BLOCK DIAGRAM PARALLEL SYSTEM

# Parallel System (Success Tree)

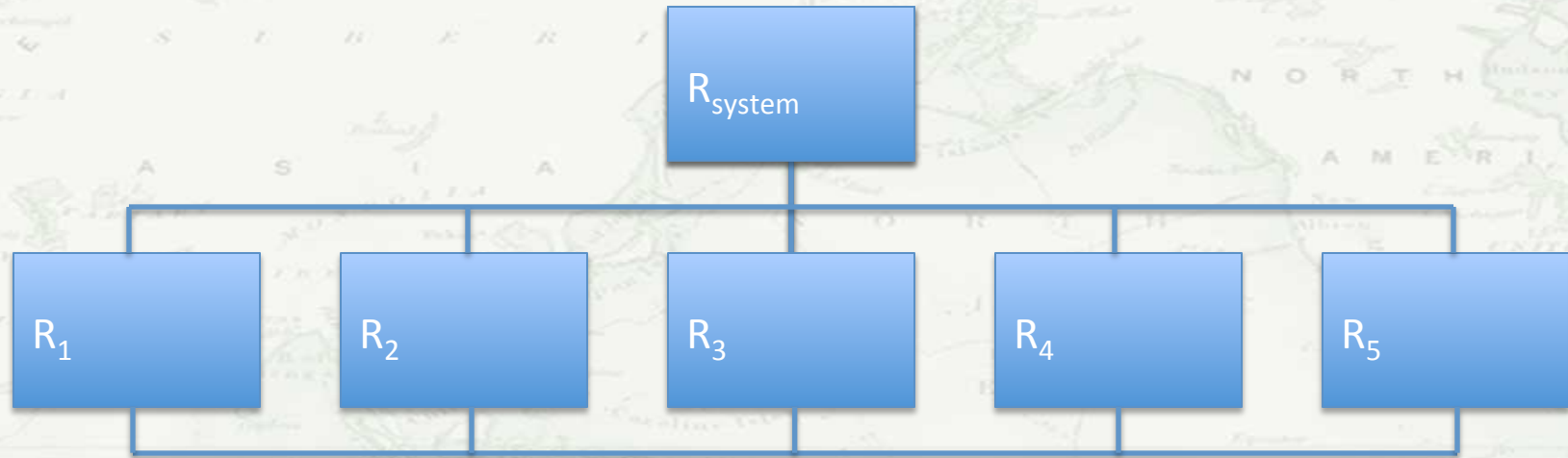




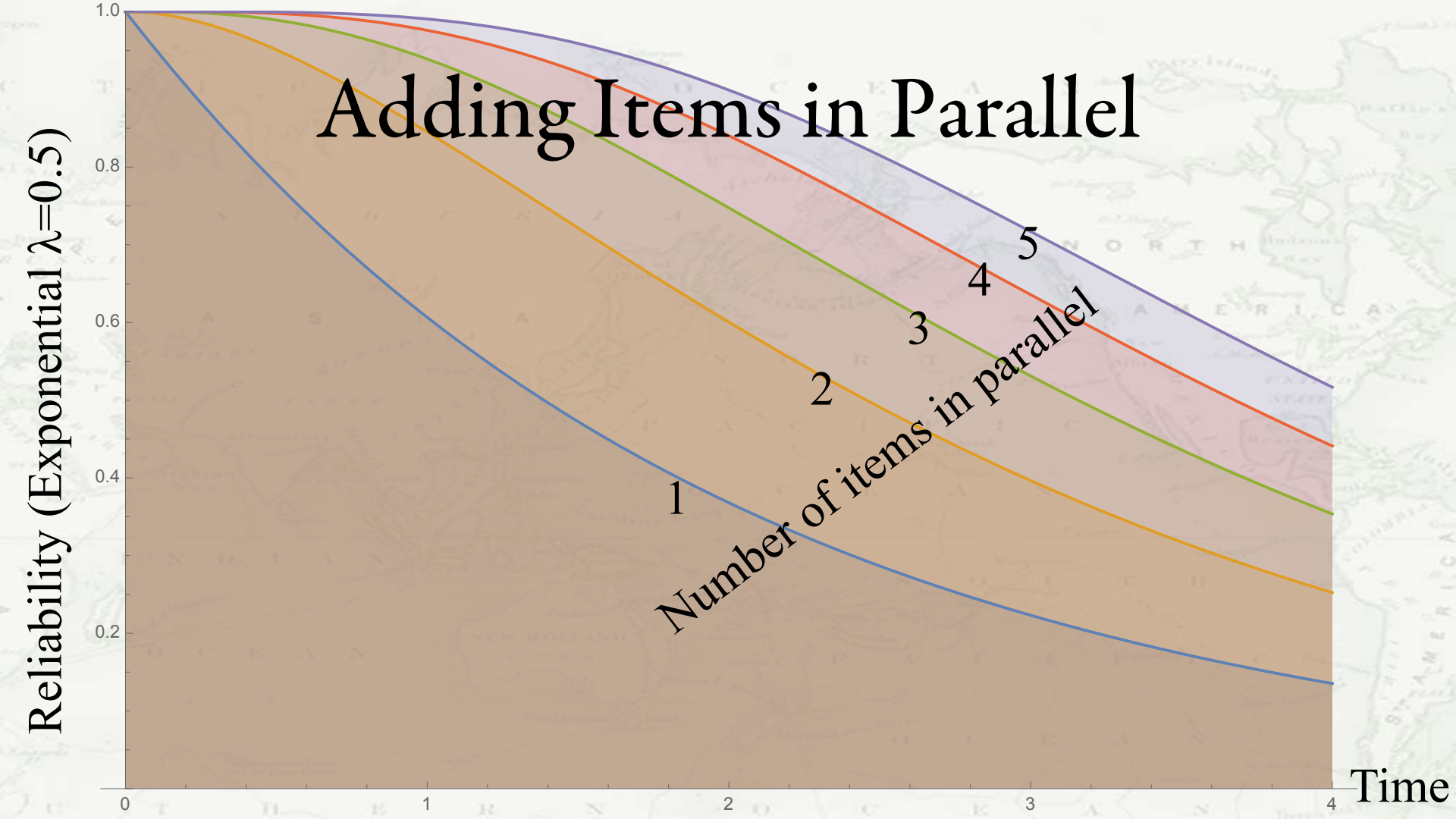
# Parallel System (RBD)



# Parallel System (RBD)



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



Why isn't this  
done all the  
time?



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Lesson IV. A. 2. c.

Reliability Block Diagrams  
and Models – Redundancy