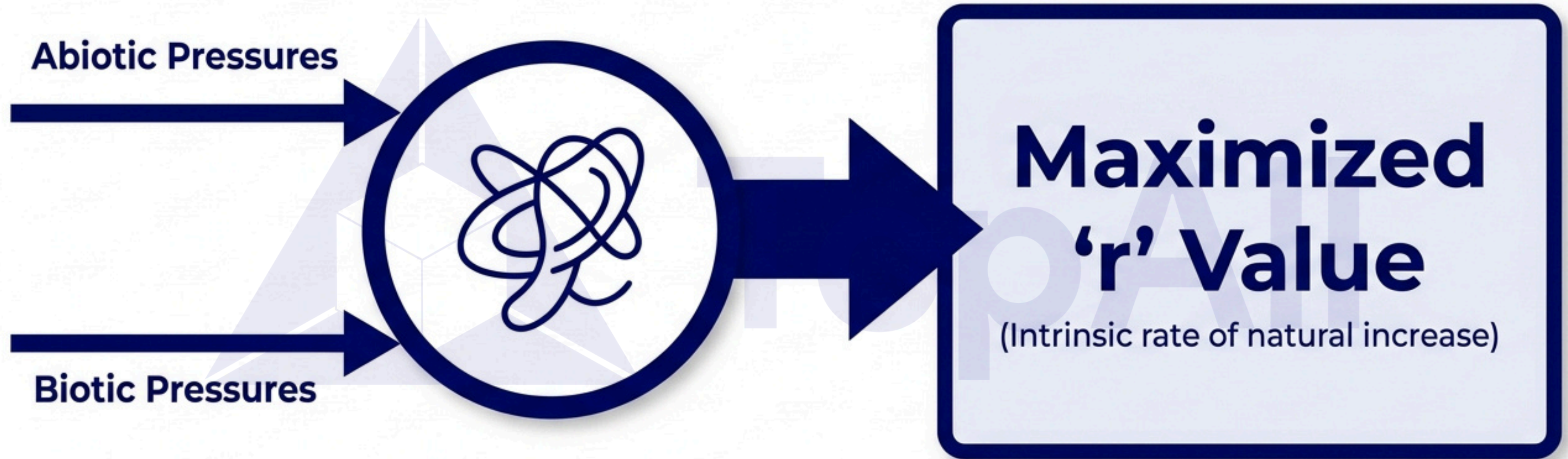


Life History Variation

Evolutionary strategies for survival and reproduction.



The Ultimate Goal: Darwinian Fitness



Organisms evolve toward the most efficient reproductive strategy to achieve this high 'r' value.

Strategy Variable 1: Frequency of Breeding

Breed Once



Breed only once in their lifetime.

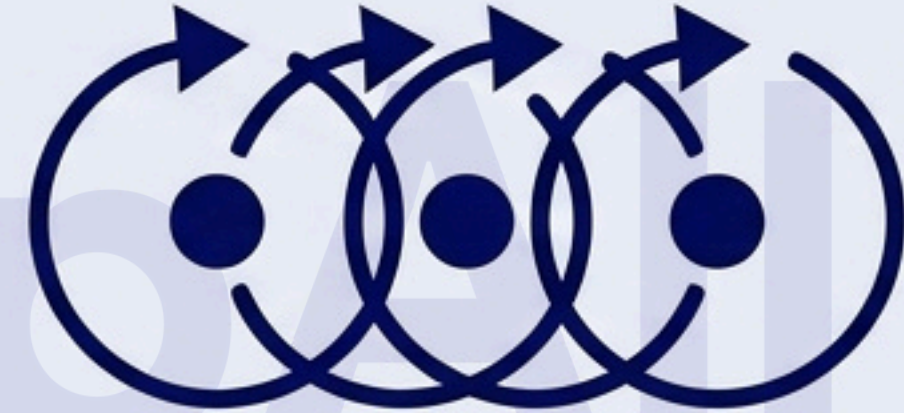


Pacific
salmon fish



Bamboo

Breed Many Times



Breed **multiple times** during
their lifetime.



Most birds



Mammals



You've Learned the Theory. Let's Test Them Now.

$$E=mc^2$$



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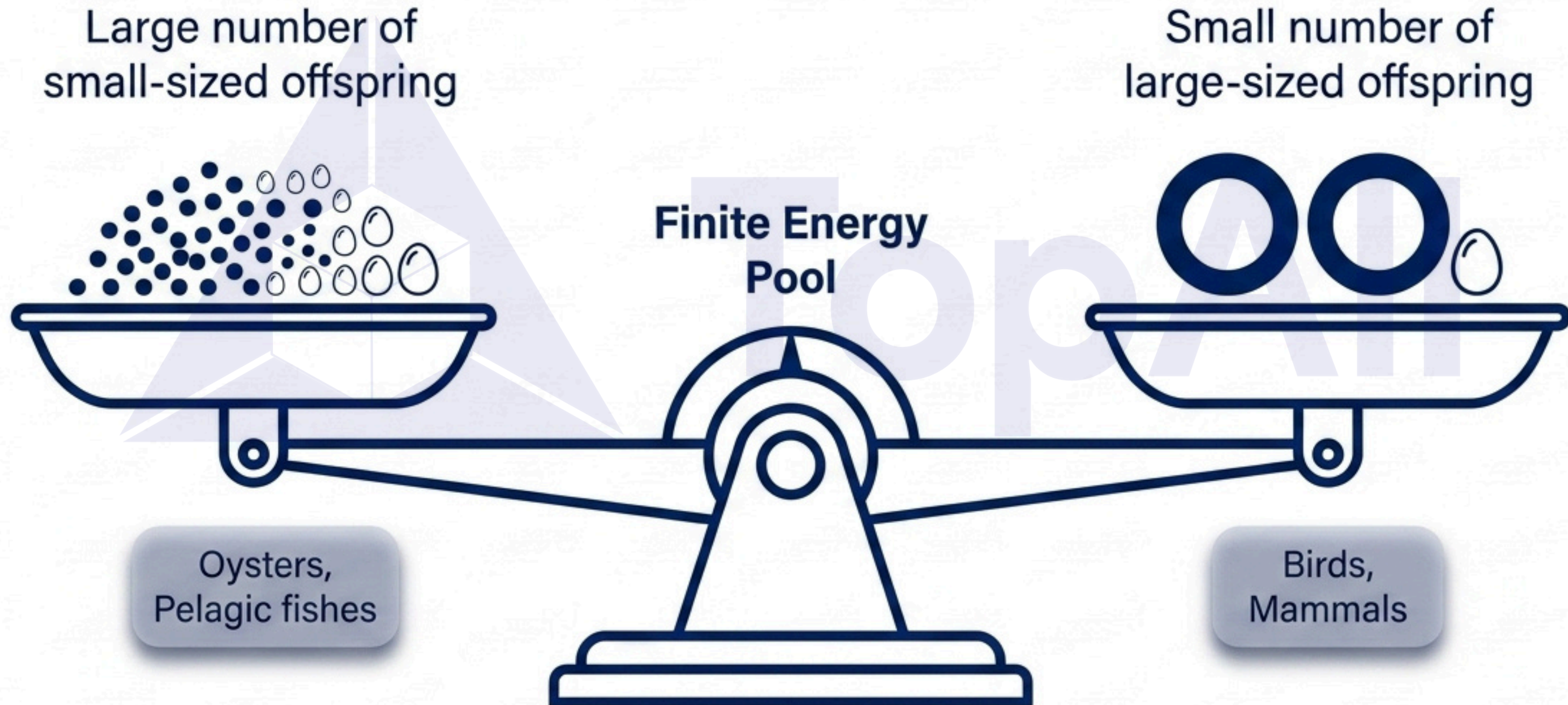
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Key Highlights

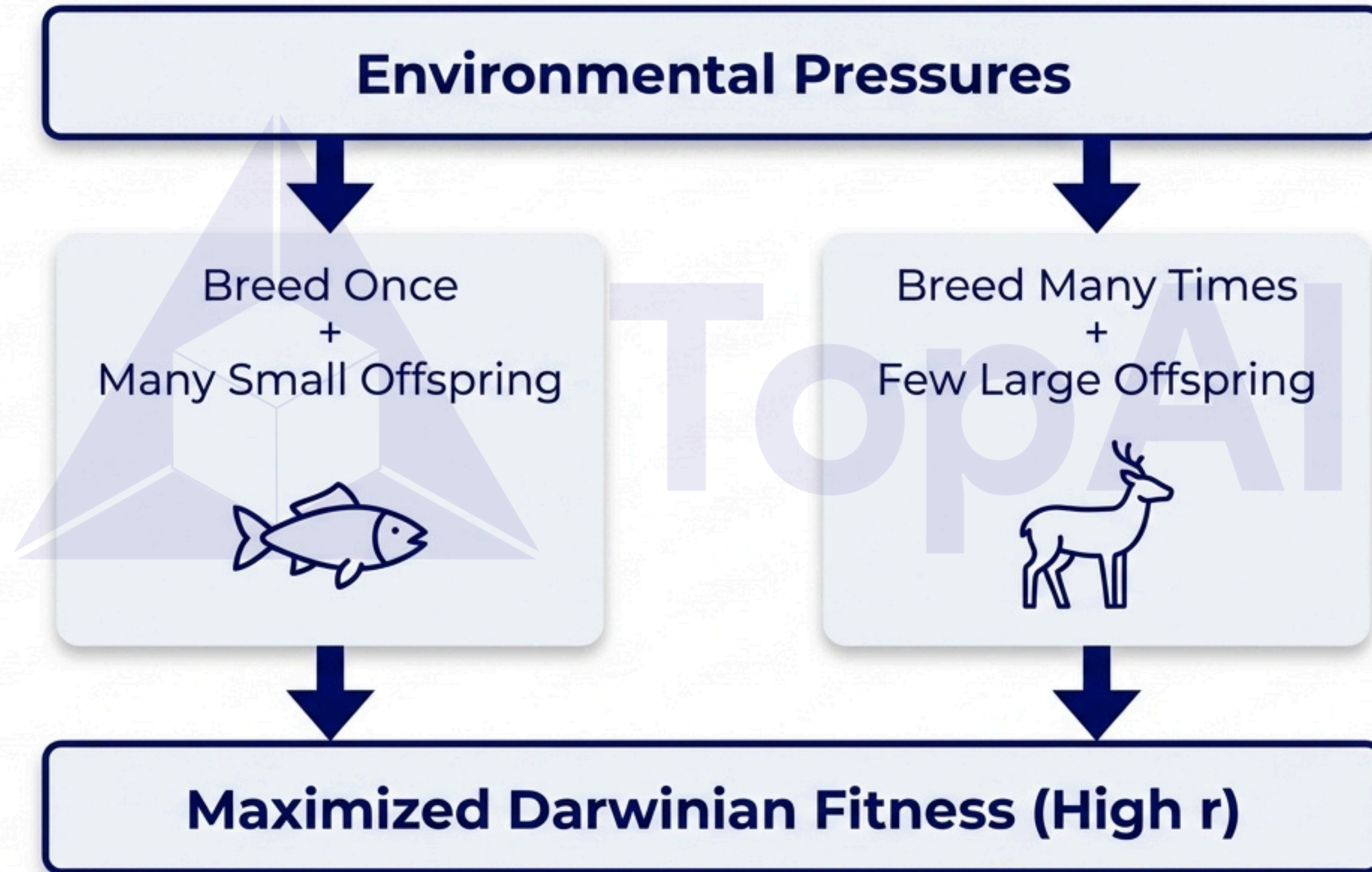
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Strategy Variable 2: Resource Allocation



The Strategy Spectrum



NEET Key Takeaway

Life history traits are NOT random. They evolve in direct relation to the constraints imposed by the abiotic and biotic components of the habitat in which they live.





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