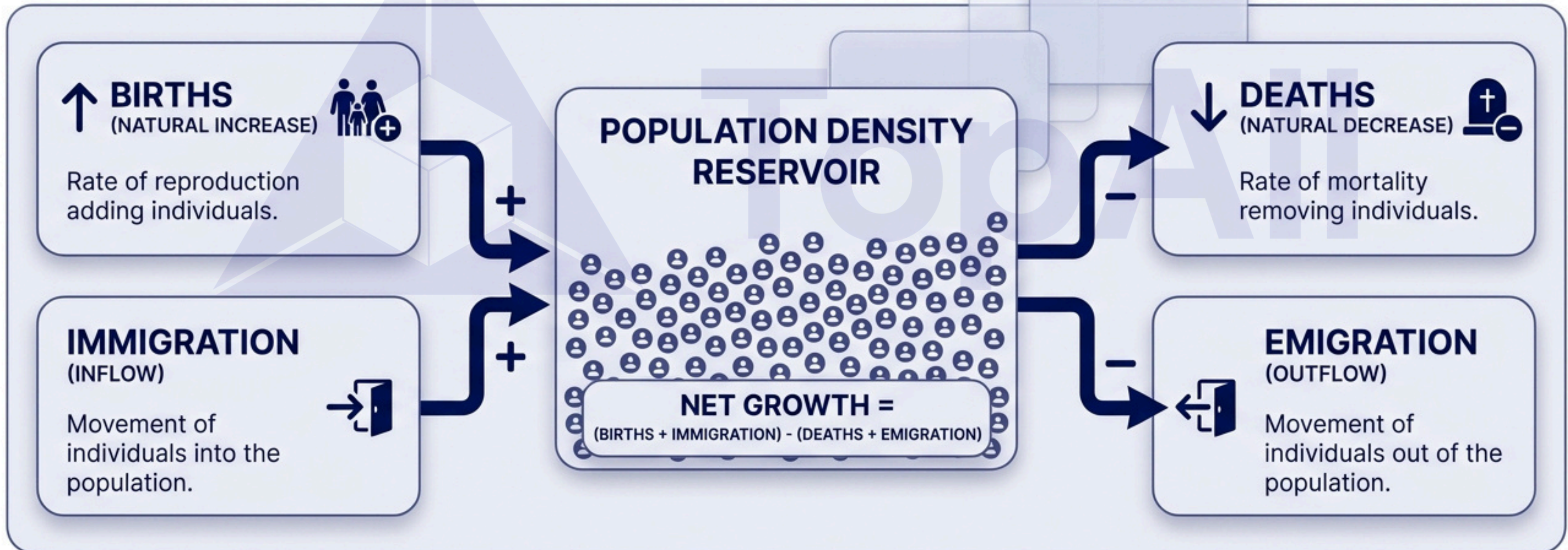


Population Growth

The systemic dynamics of population density and the four foundational forces that drive it.



The Four Forces of Population Dynamics



Natality (B)

Number of births in the population during a given period.



Immigration (I)

Number of individuals of the same species arriving from elsewhere.



Mortality (D)

Number of deaths in the population during a given period.



Emigration (E)

Number of individuals leaving the habitat to go elsewhere.

Driving Growth: The Additions

Both births and new arrivals funnel directly into the habitat, adding to the initial population density. Under normal conditions, births are the primary driver of growth.





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$$E=mc^2$$



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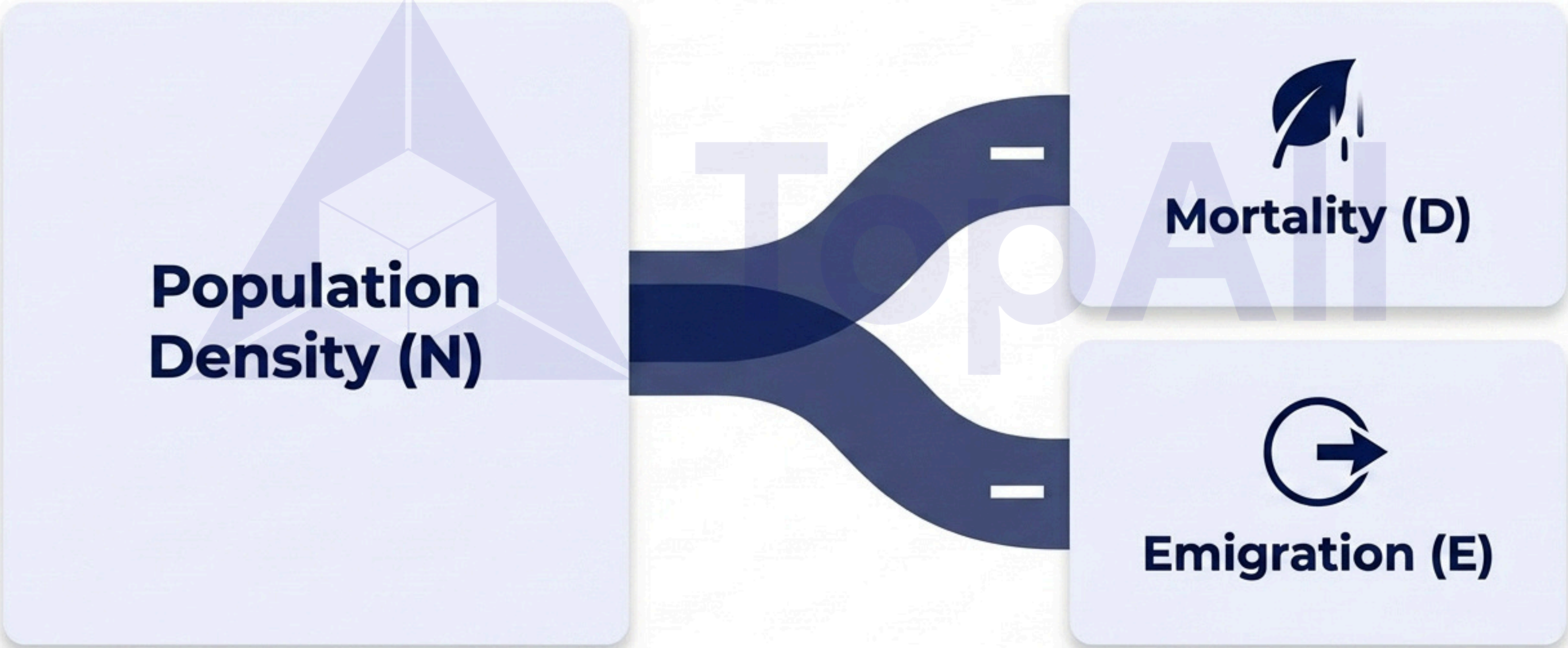
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Driving Decline: The Subtractions

Death and departure drain the population pool. These are the natural outputs that relieve density pressure in a given habitat.



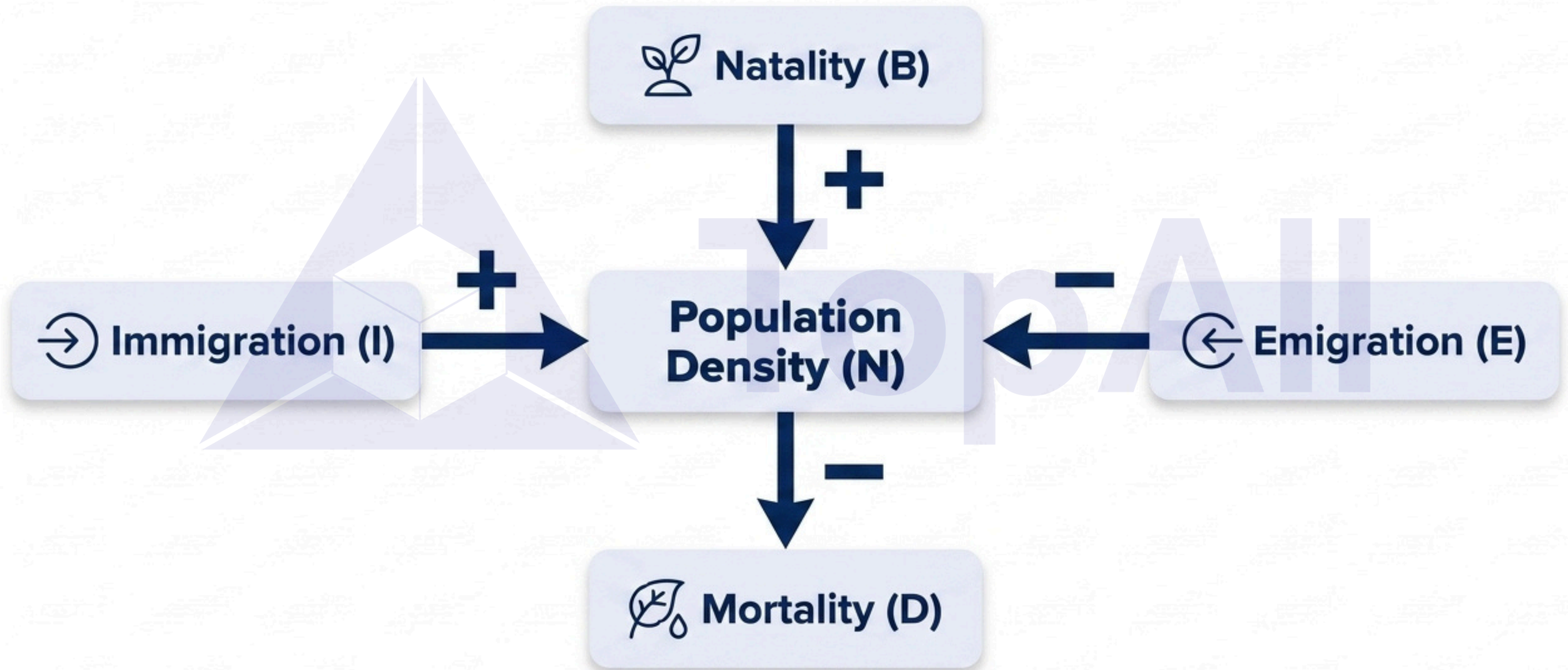
**Population
Density (N)**

The diagram illustrates the concept of population decline through subtractions. On the left, a light blue box contains the text 'Population Density (N)' and a faint background image of a cube. A dark blue wavy line with two minus signs connects this box to two other boxes on the right. The top box is labeled 'Mortality (D)' and features a leaf icon with raindrops. The bottom box is labeled 'Emigration (E)' and features a circular arrow icon. The entire diagram is set against a background with a large, faint 'TOPALL' watermark.

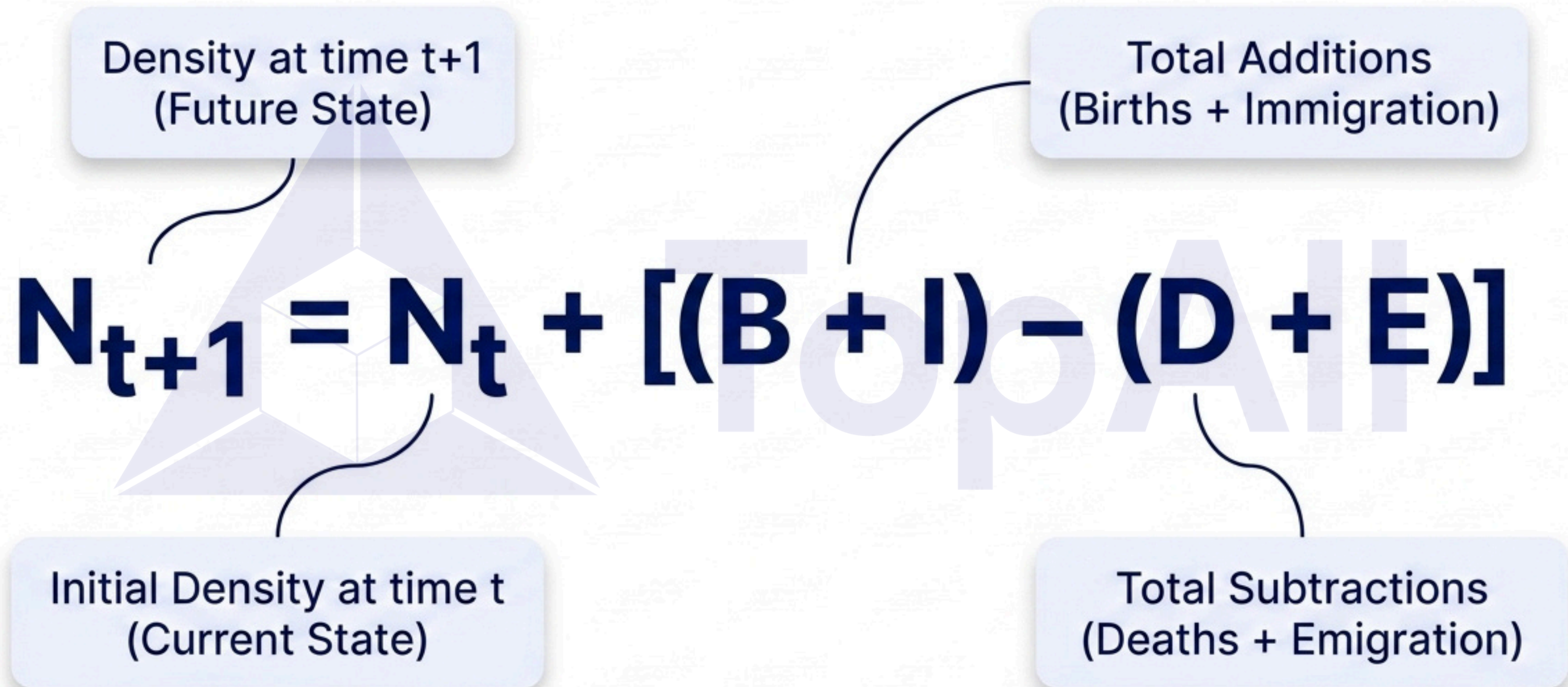
Mortality (D)

Emigration (E)

The Complete Population Density System



The Mathematical Model



NEET Key Takeaways

Rule 1: The Growth Condition

Population density only increases if total additions outpace total subtractions:

$$(B + I) > (D + E)$$

Rule 2: Normal vs. Special Conditions

Normal:

Births and Deaths are the primary determining factors of population change.

Special (High-Yield Exam Trap):
Immigration becomes the most significant contributor to growth only when a new habitat is just being colonized.



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