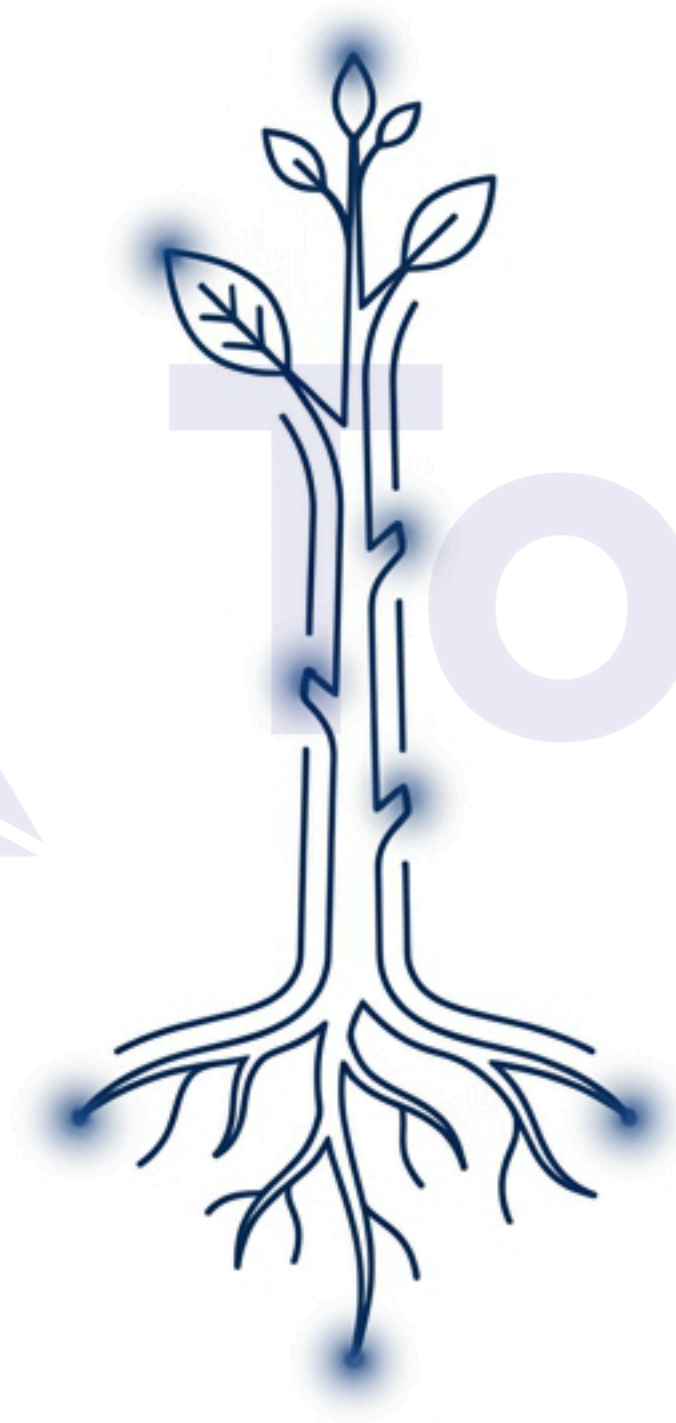


Why Plants Keep Growing



TopAll

The Phenomenon of Indeterminate Growth



Determinate Growth

Growth reaches a fixed, pre-determined size and then permanently stops.

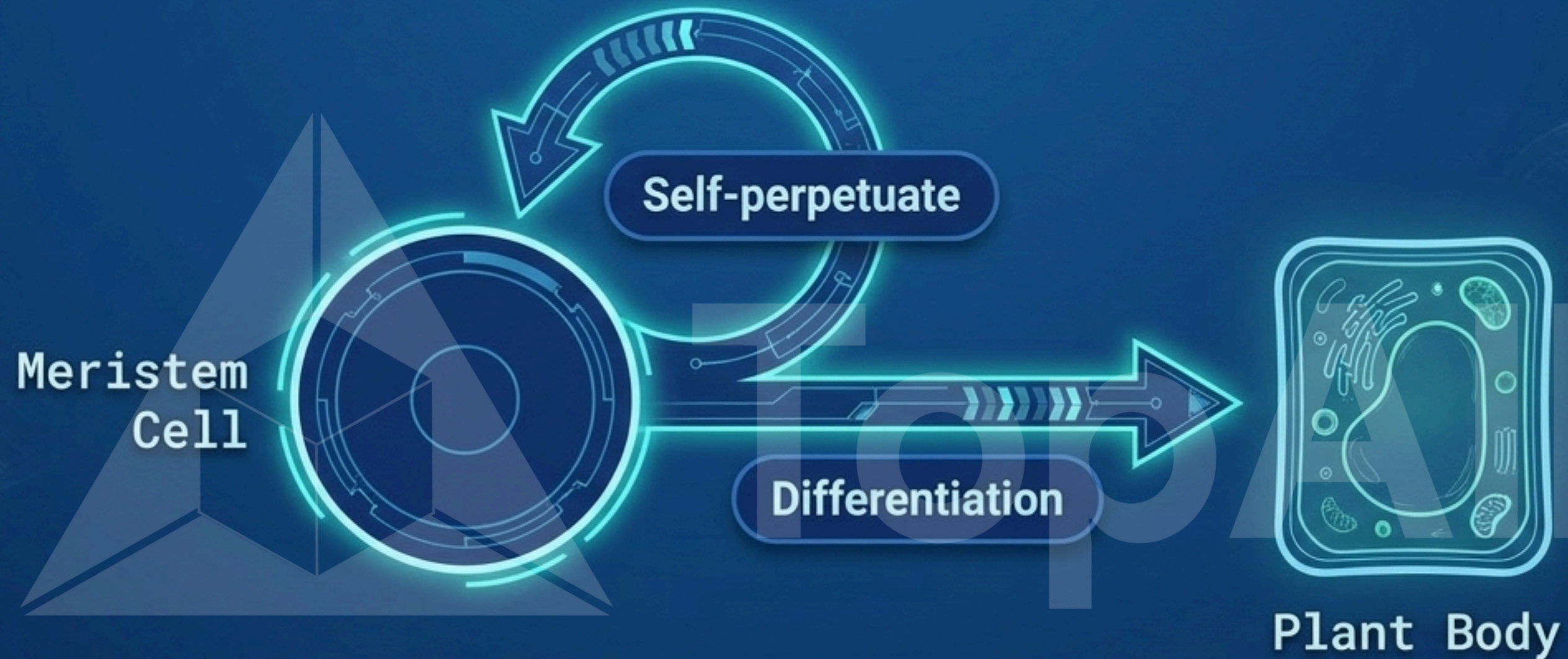


Indeterminate Growth

Retains the capacity for **unlimited, continuous growth** throughout the entire lifespan.

Plants grow continuously because they never lose their embryonic tissue.

Meristems Drive the Open Form of Growth



Because new cells are constantly added to the plant body by the meristem, this is called the **open form of growth**.



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

$$E=mc^2$$



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Biological Blueprint

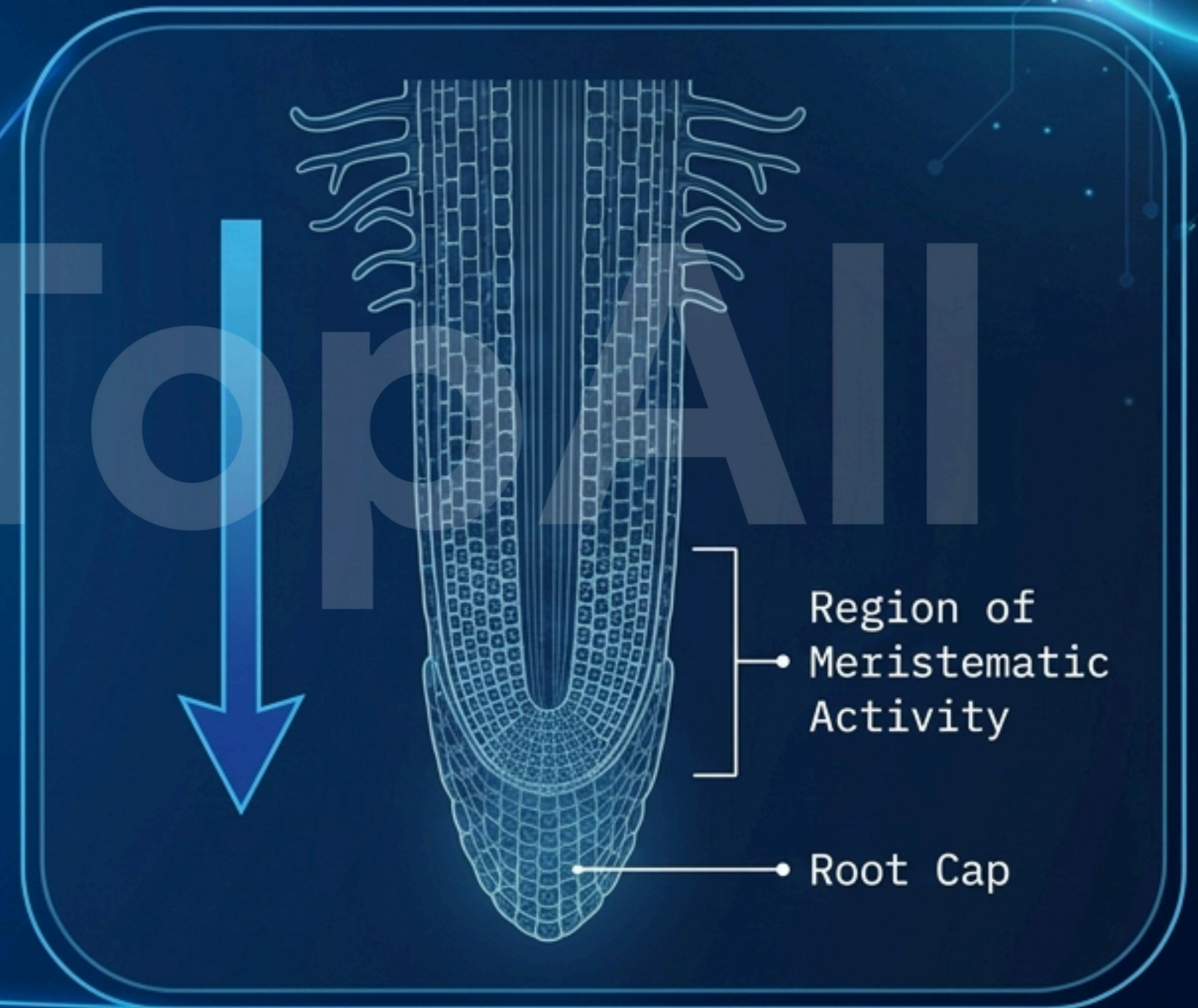


Root Apical Meristem: The Downward Engine

Macro View



Micro View



Biological Blueprint

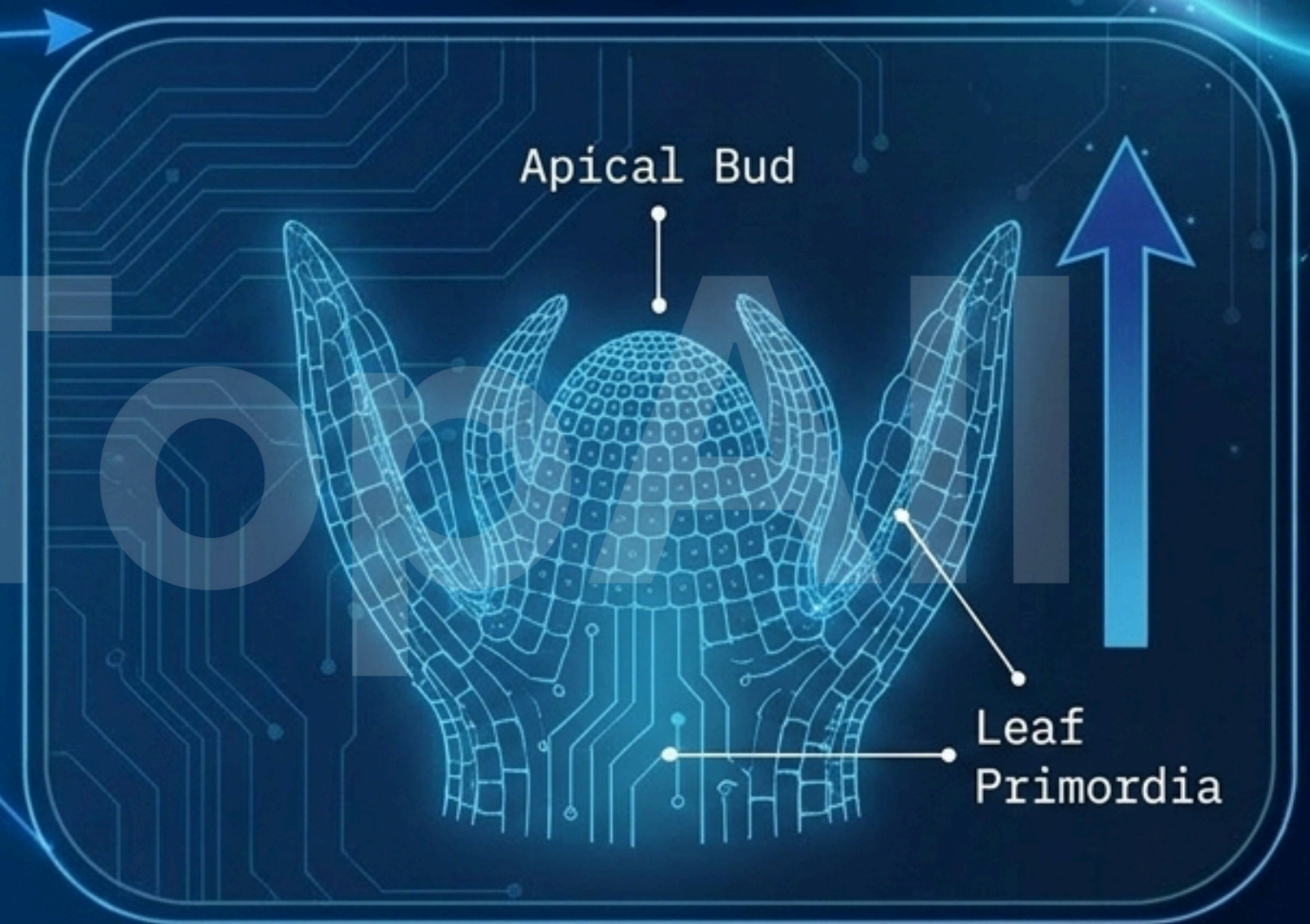


Shoot Apical Meristem: The Upward Engine

Macro View



Micro View



Primary Growth: The elongation of the plant along its vertical axis, driven entirely by apical meristems at the tips.

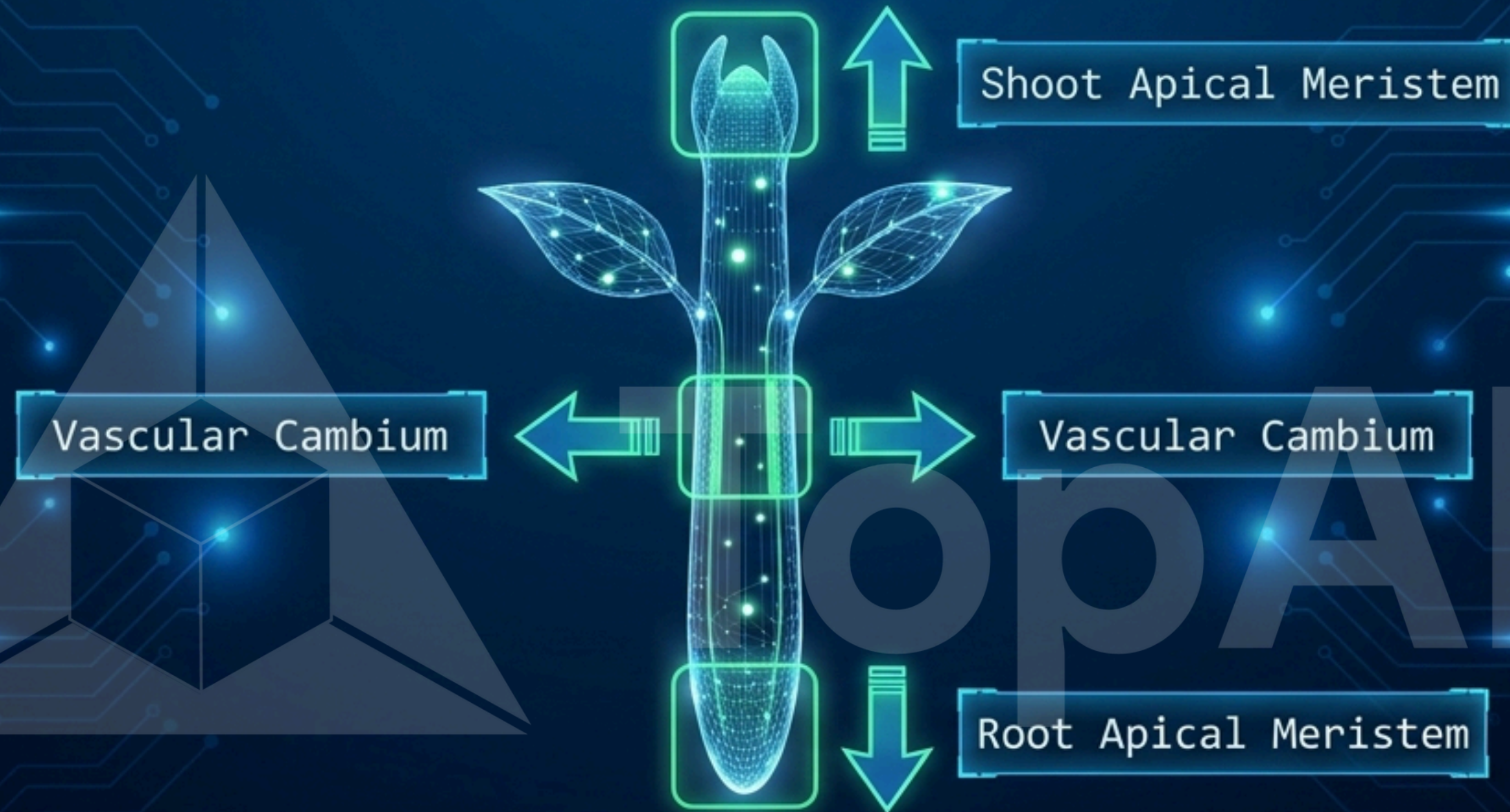
Vascular Cambium: The Lateral Expansion Engine



Vascular Cambium

Secondary Growth: Causes an increase in girth. This primarily occurs in dicotyledonous plants and gymnosperms, appearing later in life.

The Complete Blueprint of Plant Growth



Growth in plants is an open, localized, and continuous process driven by specialized dividing cells located at the extremities and perimeters of the plant body.



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