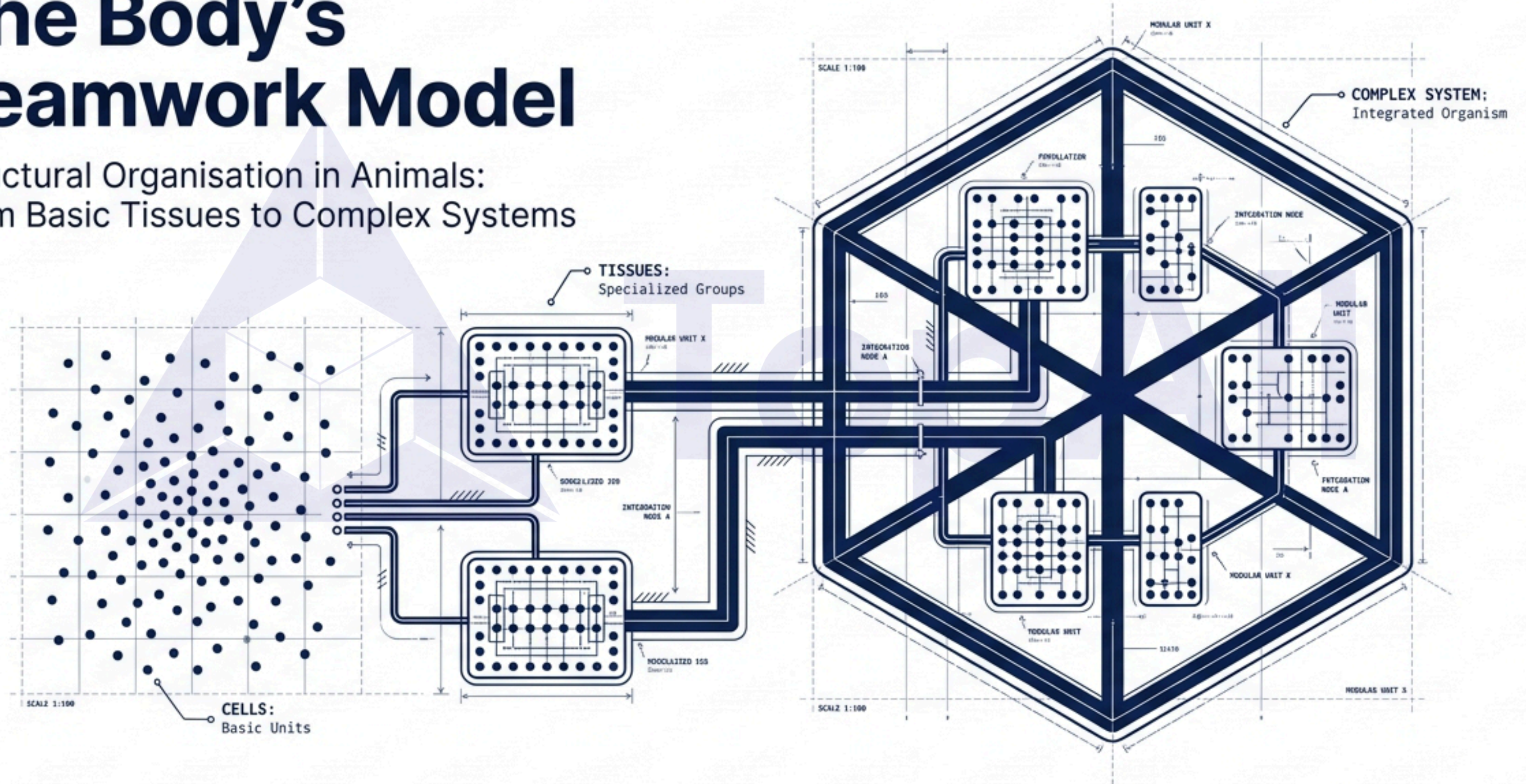


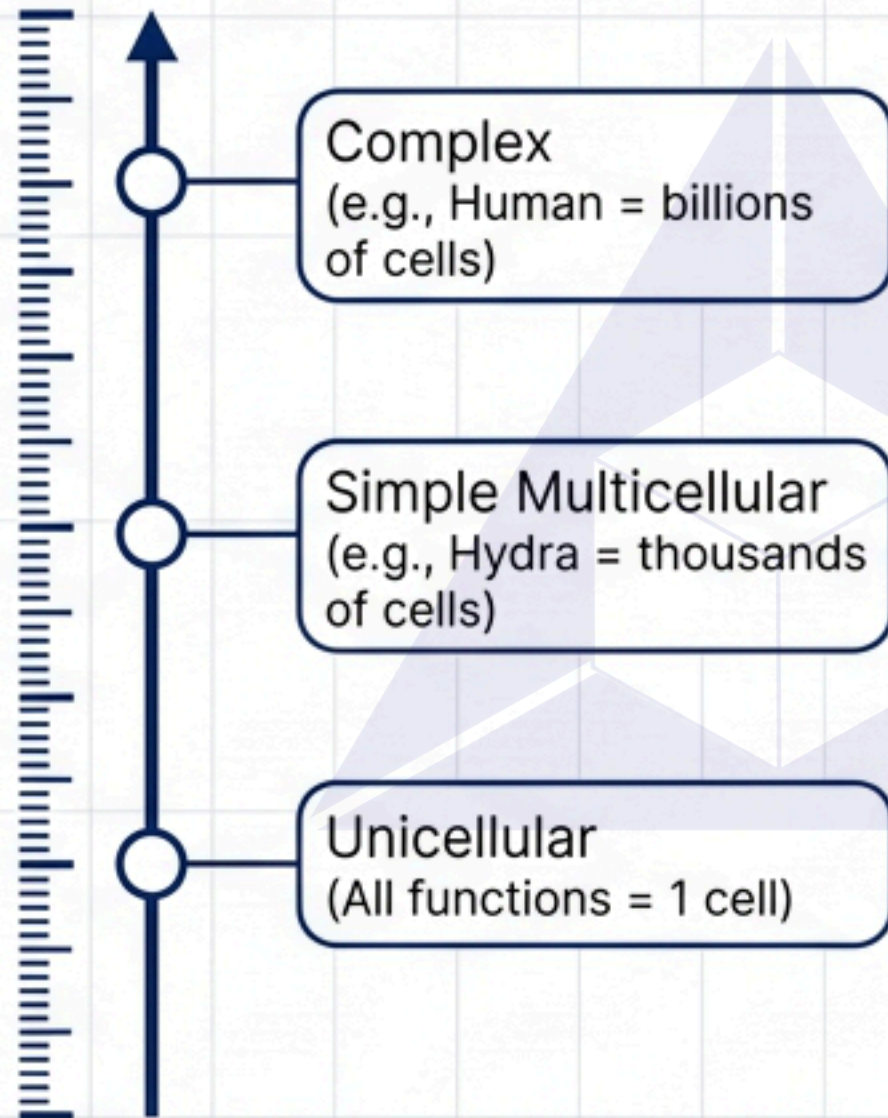
The Body's Teamwork Model

Structural Organisation in Animals:
From Basic Tissues to Complex Systems

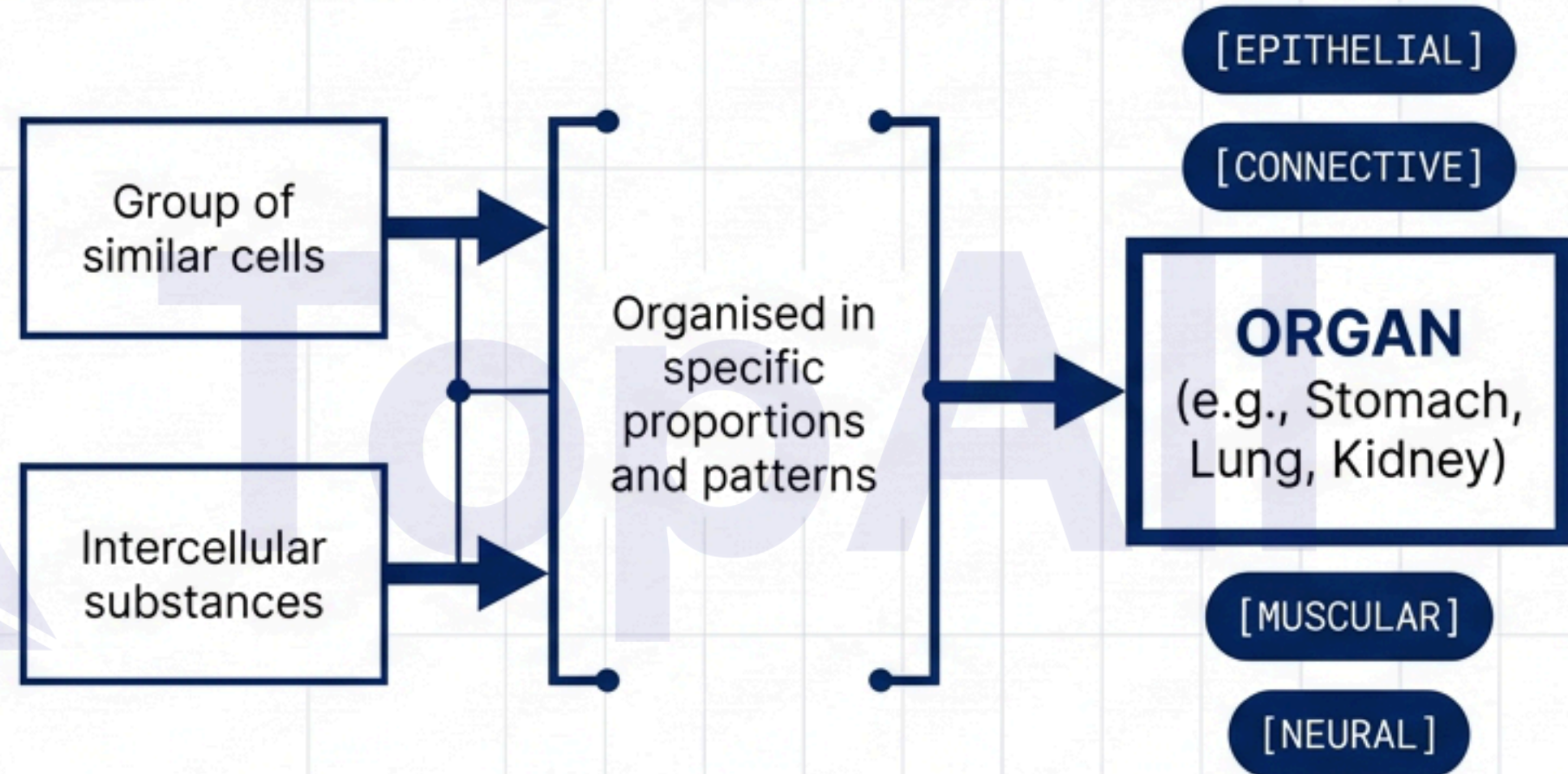


From Specialists to Structures

Context Gradient



Organ Recipe Diagram



Remarkable Efficiency: Although the human body is composed of billions of individual cells, every complex animal relies on just these four basic tissue types to build every organ.



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$$E=mc^2$$



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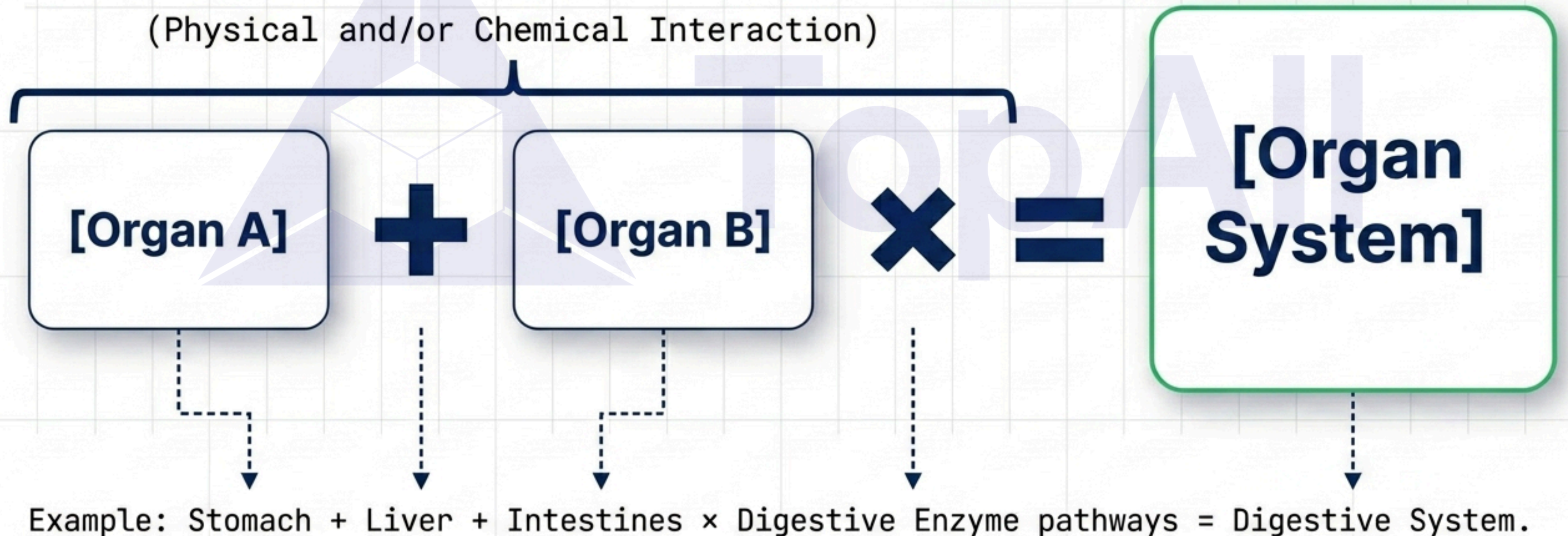
Key Highlights

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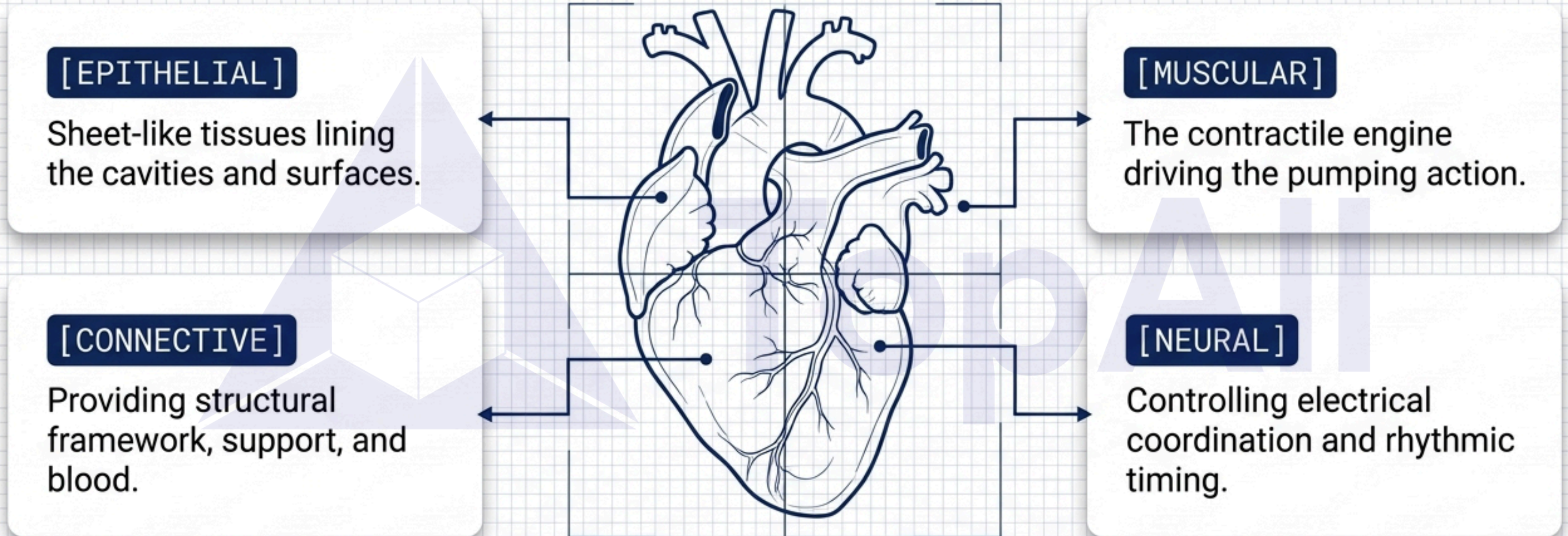


The Power of Interaction

When two or more organs perform a common function through interaction, they form an organ system. This splits up the work, exhibiting a strict 'division of labour' that ensures the survival of the body as a whole.

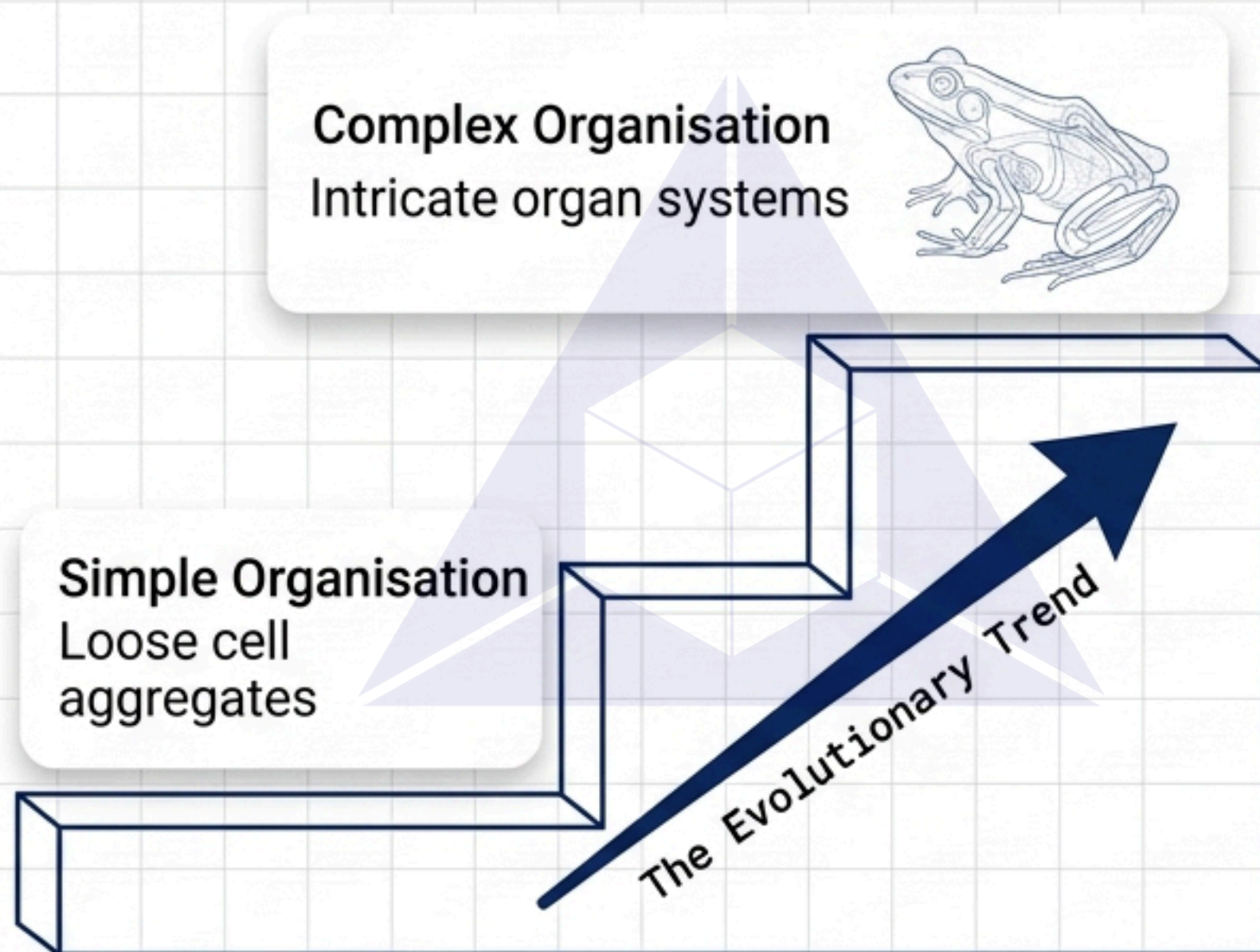


Deconstructing the Heart



Textbook Fact: The heart consists of all four basic types of tissues working in perfect synchrony to function as a single organ.

The Trajectory of Complexity



The complexity in organ and organ systems displays a discernable trend across the animal kingdom.

Morphology	Anatomy
The study of form or externally visible features. (In animals, the external appearance of organs/body parts).	Conventionally used for the study of the morphology of internal organs in animals.

The Ultimate Division of Labour

Cells $\subset$ Tissues $\subset$ Organs $\subset$ Systems $\subset$ Organism

Basic tissues organise to form organs, which associate to form organ systems. This precise structural hierarchy is essential for the efficient, coordinated activity of millions of cells—ultimately guaranteeing the survival of the multicellular organism.



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