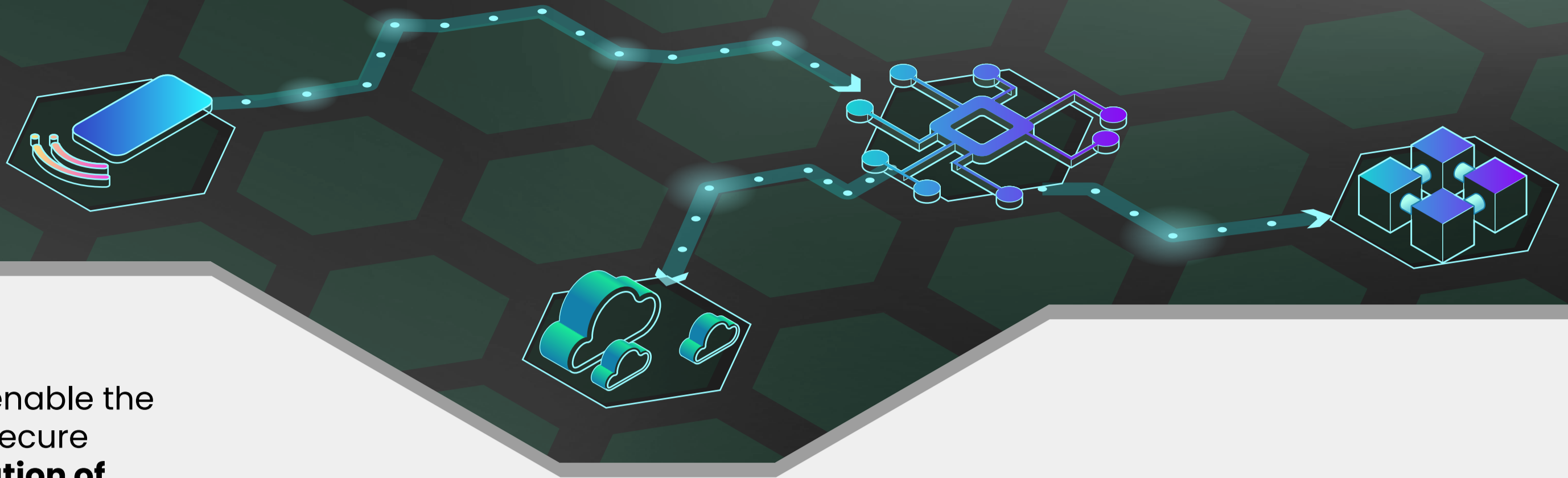


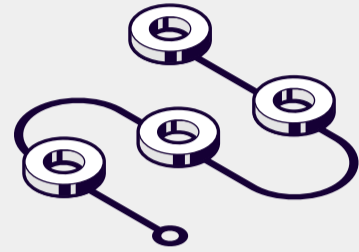


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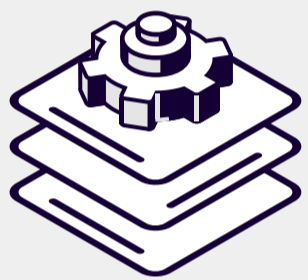
A lightweight software stack and synergetic metaorchestration framework for the next generation compute continuum



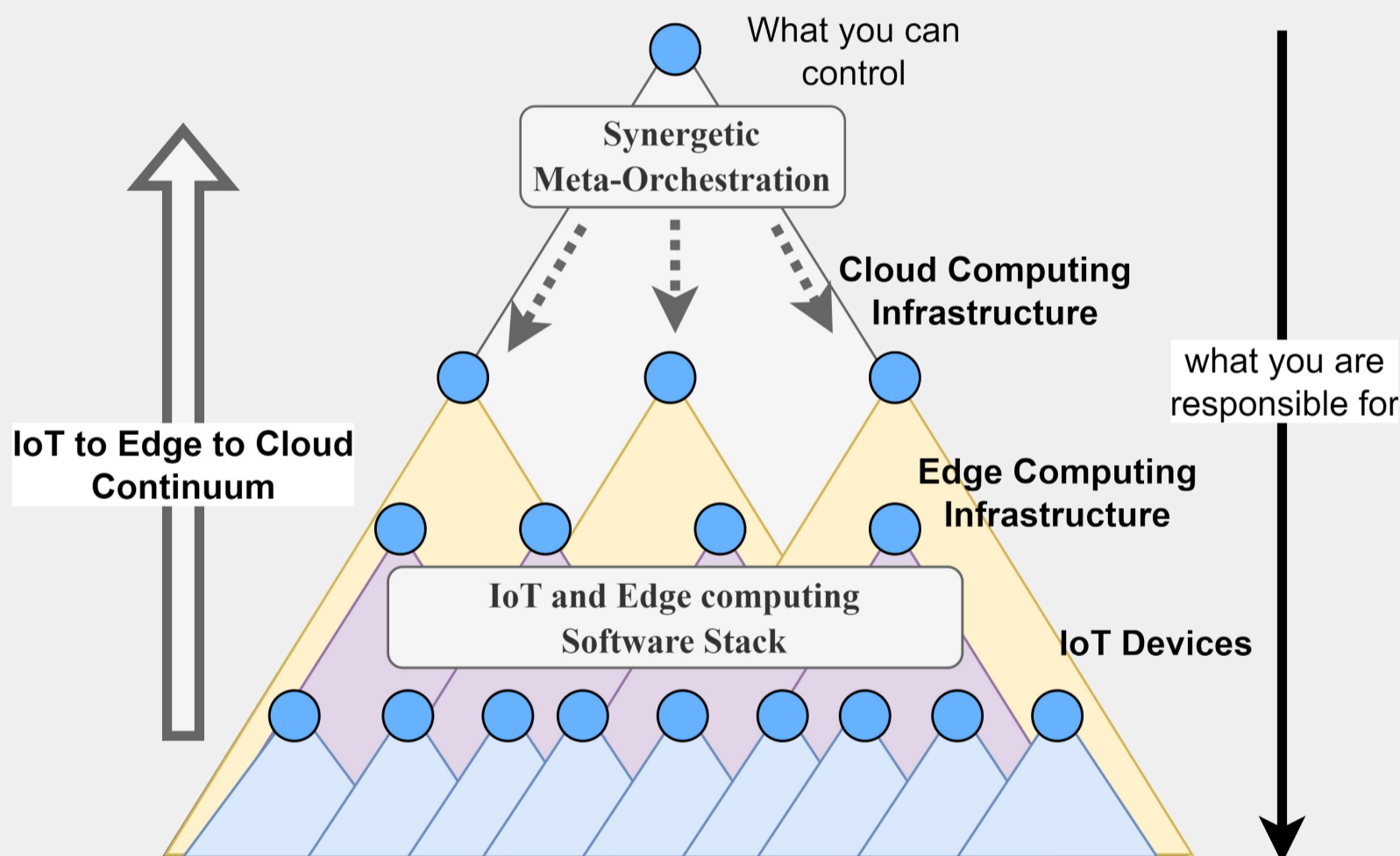
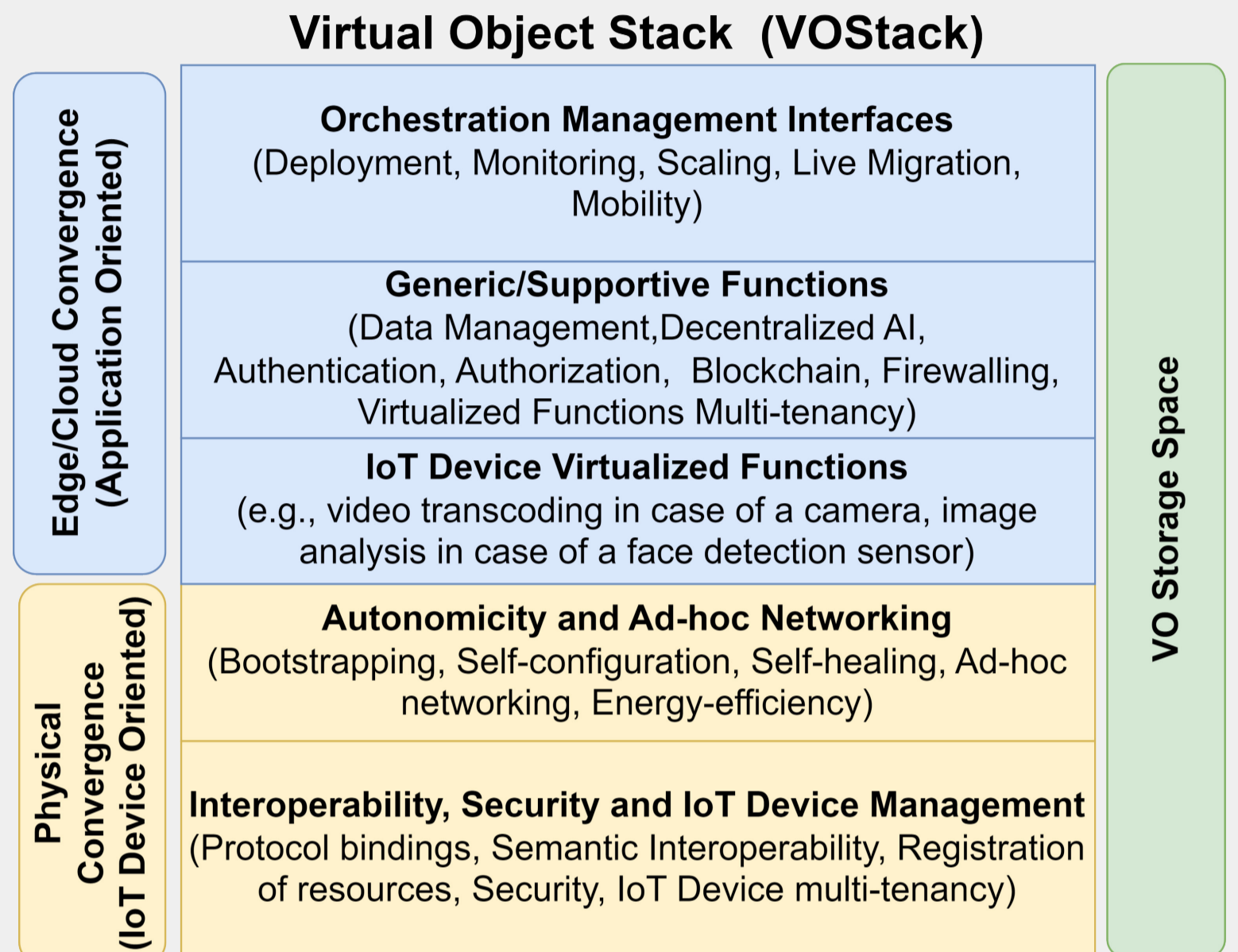
NEPHELE's vision is to enable the efficient, reliable and secure **end-to-end orchestration of distributed applications** over programmable infrastructure that is spanning across **the compute continuum from Cloud-to-Edge-to-IoT**, removing existing **openness** and **interoperability** barriers.



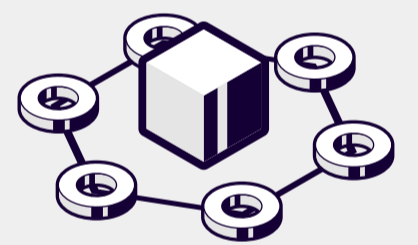
The NEPHELE project aims to introduce **two core innovations**, namely:



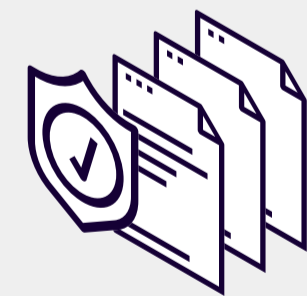
1. An IoT and edge computing software stack (VOStack) for leveraging virtualization of IoT devices at the edge and supporting openness and interoperability aspects in a device-independent way.



2. A **synergetic meta-orchestration framework** for managing distributed applications in the **compute continuum** based on the adoption of a **"system of systems"** approach.



The NEPHELE outcomes are going to be demonstrated in **use cases** across various vertical industries, including areas such as **disaster management**, **logistic operations** in ports, **energy management** in smart buildings and **remote healthcare** services. Two successive **open calls** are planned.



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