

Novel Enablers for Cloud Slicing



Project Target

A novel solution based on resource virtualization – **Lightweight Slice Defined Cloud (LSDC)** – as an approach for **automating the process of optimal cloud configuration** by extending the virtualization concept to all resources in a data centre and by providing a **uniform management with a high-level of autonomicity for the currently separated computing, connectivity, and storage resources.**

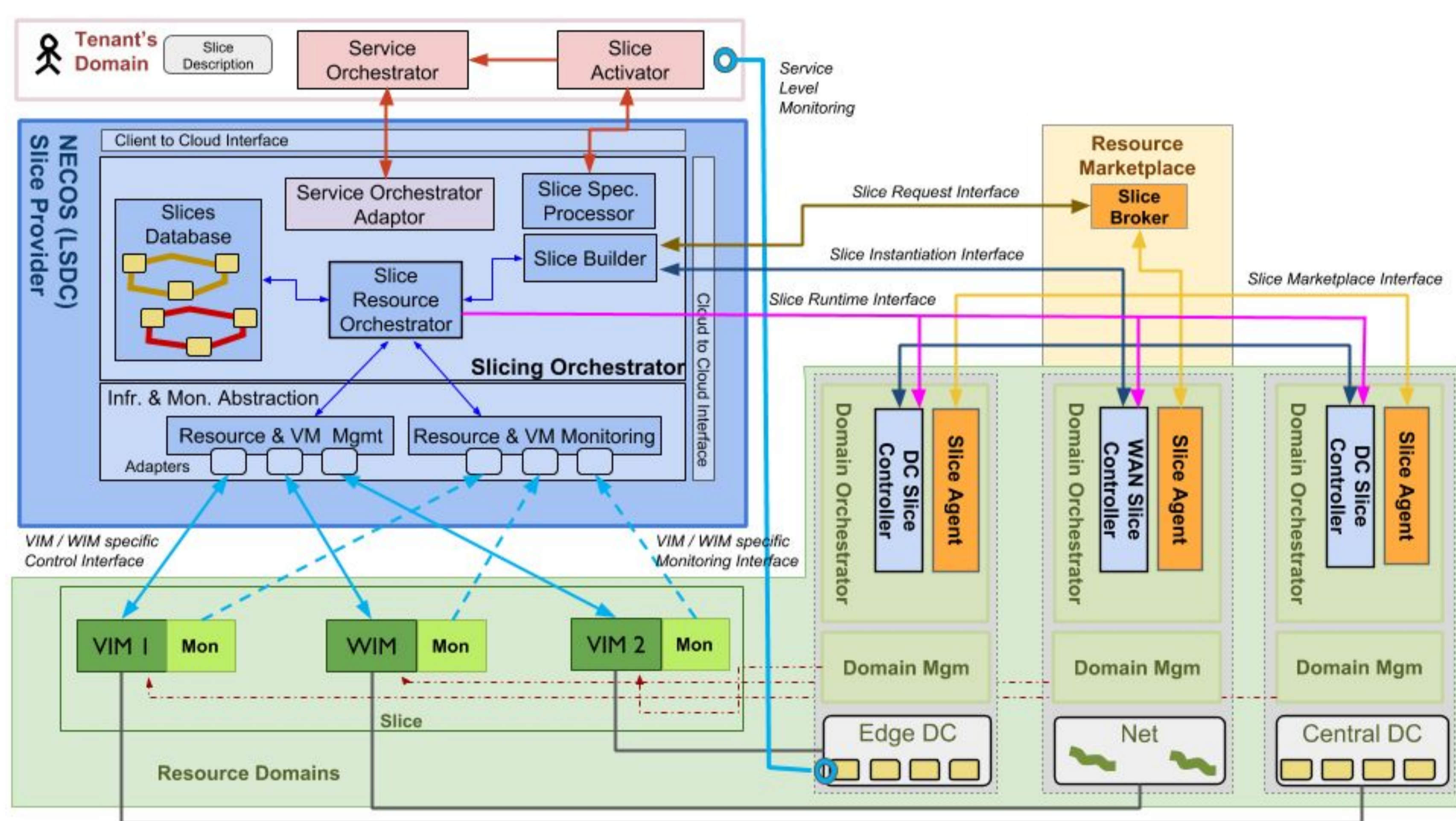
Characteristic 1 - It presents a new service model – the **Slice-as-a-Service**.

Characteristic 2 – It enables the configuration of slices **across the physical resources in the cloud** networking infrastructure.

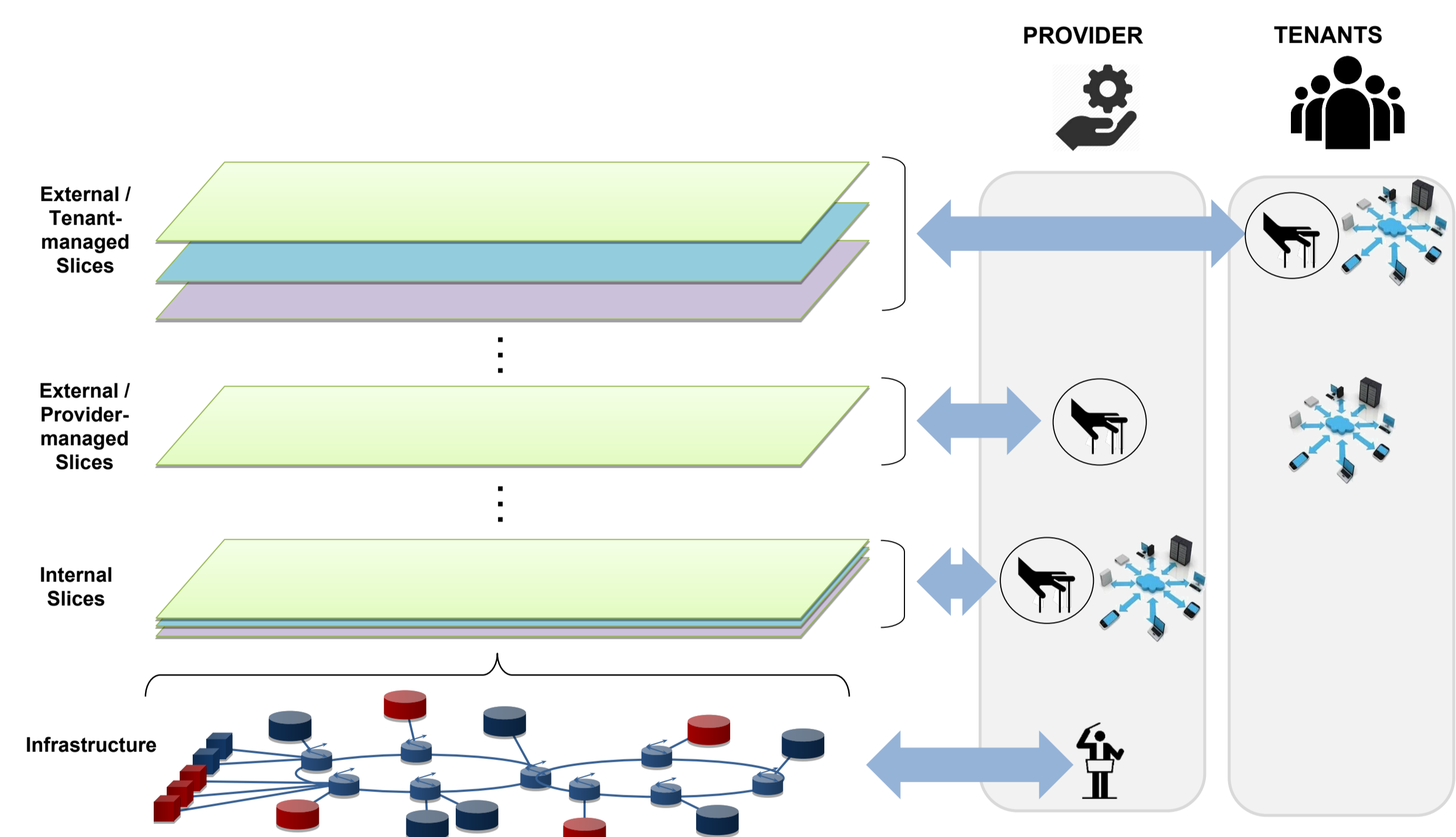
Characteristic 3 - It allows **each aspect** that comprises the cloud environment – from the networking between virtual machines, to the SLAs of the hosted applications – to be **managed via software.**

Characteristic 4 - It utilises **lightweight** and **uniform** management and virtualisation systems, with **small footprint** components, deployable on large number of small servers and **clouds** at the network **core** and **edges**.

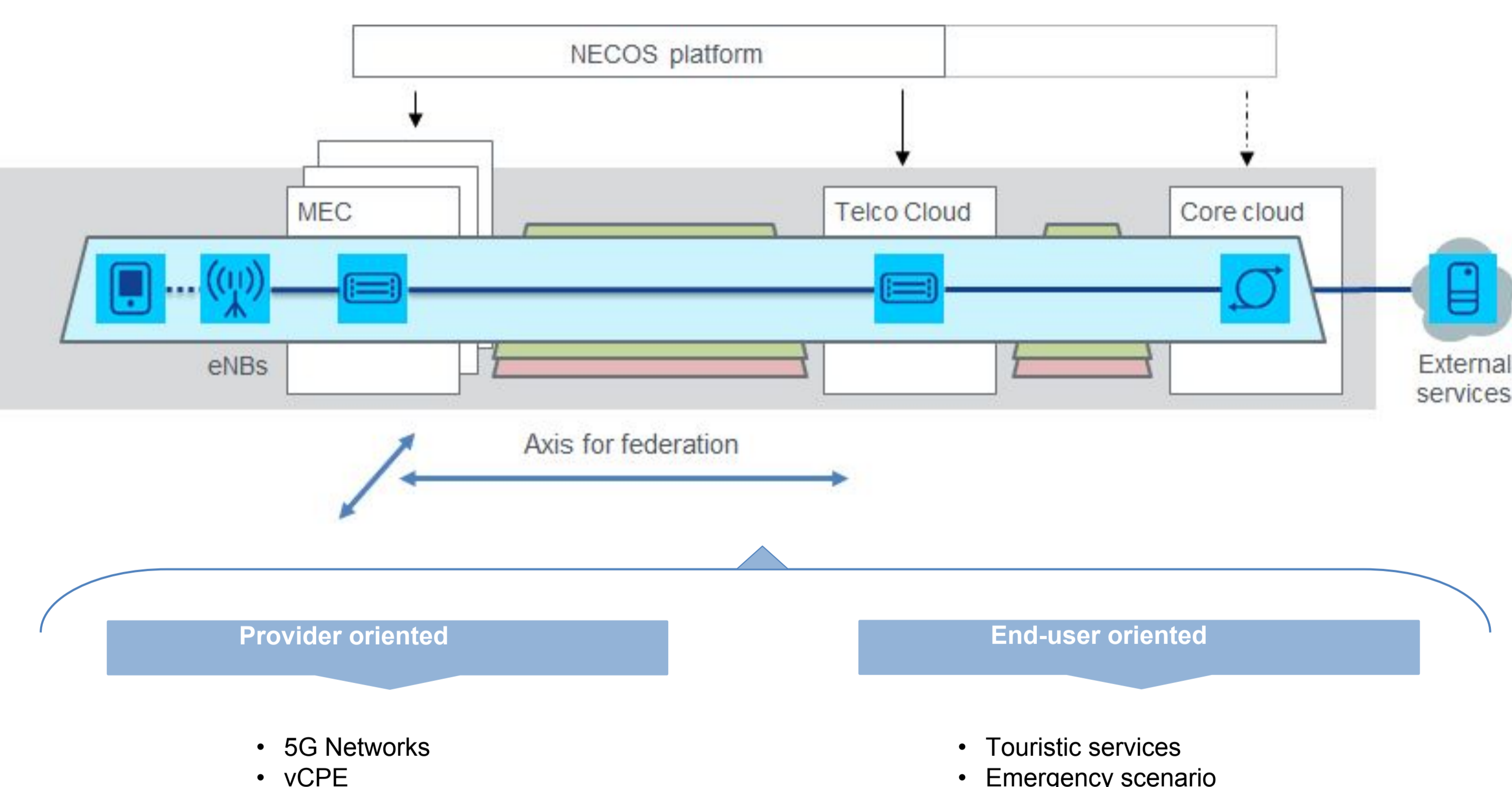
NECOS Architecture Overview



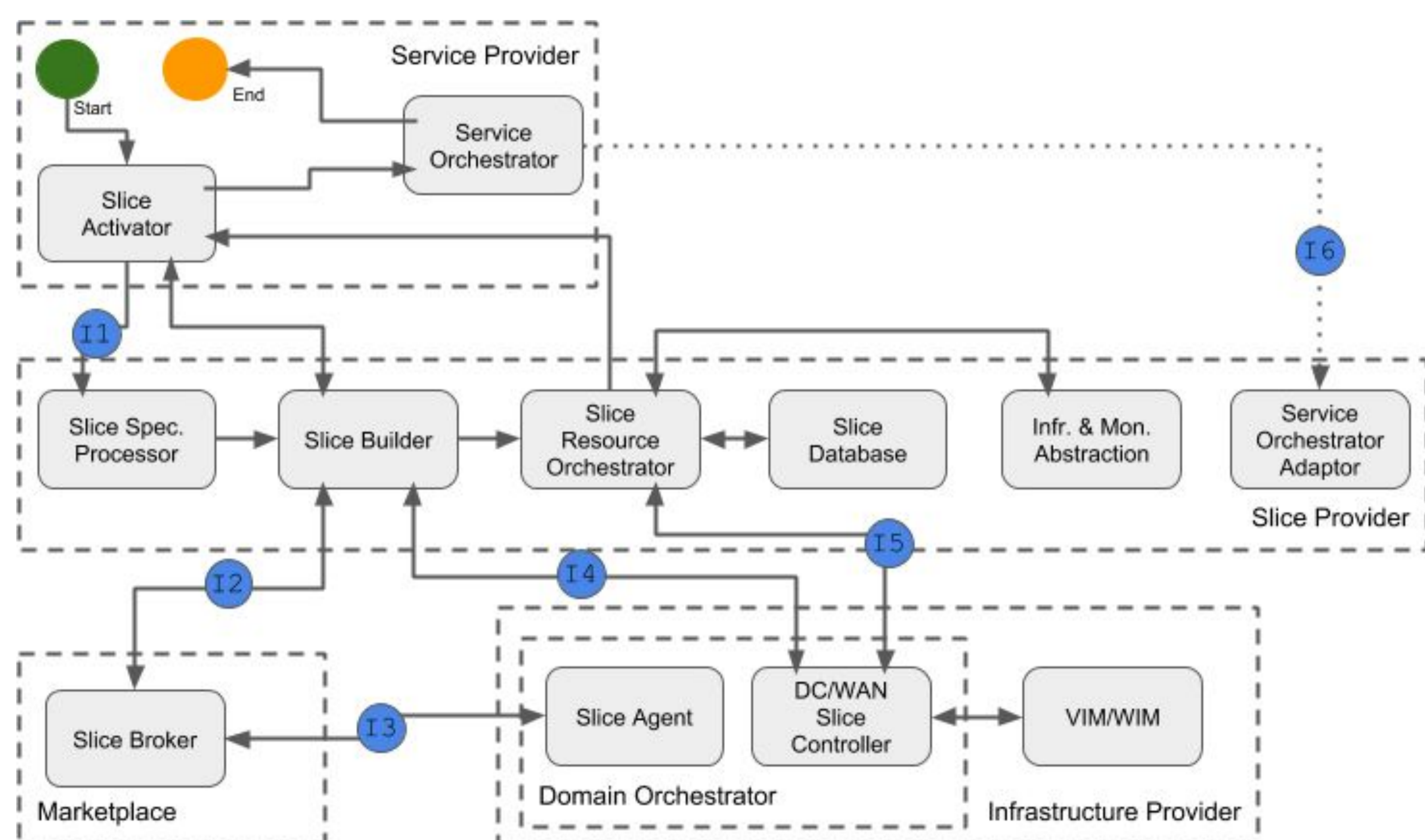
Slice-as-a-Service



Use Cases



Slice Creation Workflow



<http://www.h2020-necos.eu>

