

# 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 autonomy for the currently separated computing, connectivity, and storage resources.**

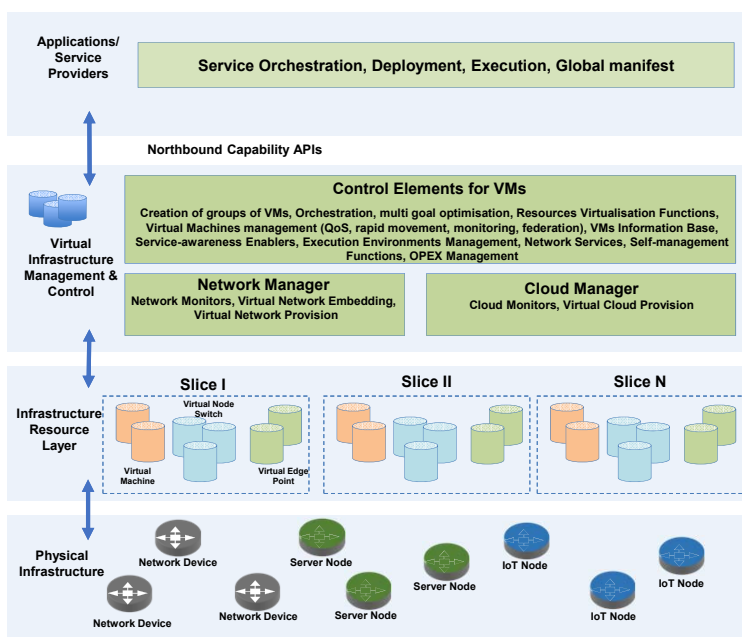
**Characteristic 1** - It presents a new service model – the **Slice-as-a-Service**.

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

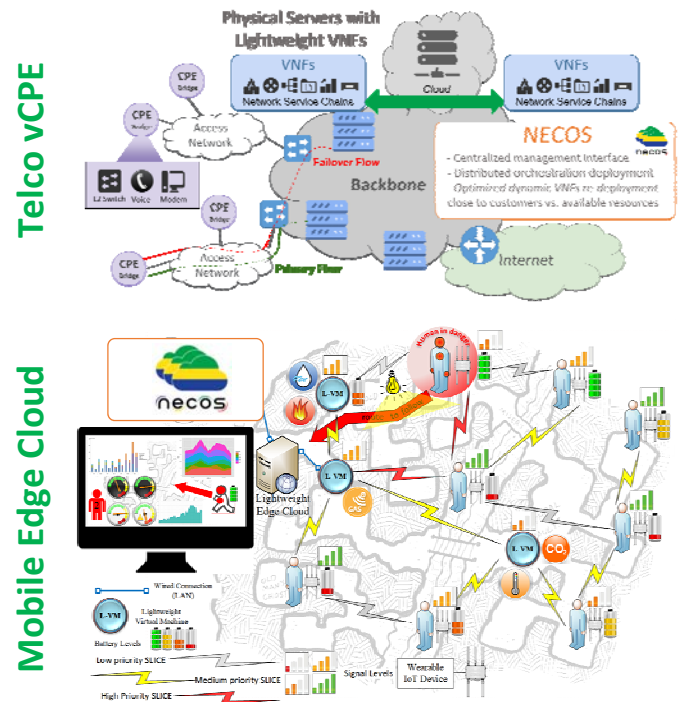
**Characteristic 3** - It allows **each aspect** that comprises the cloud environment – from the networking between virtual machines, to the SLAs of the hosted applications – to be **managed via software.**

**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.**

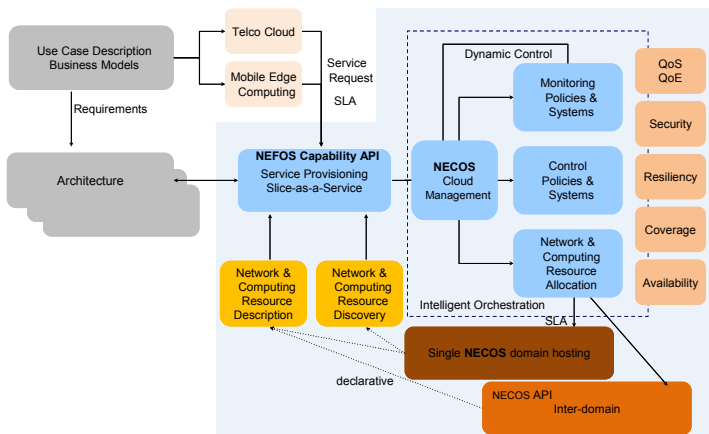
## Slice-as-a-Service



## Use Cases



## NECOS Framework / Platform



## NECOS Architecture Overview

