# Topic : SDN-based *plastic architecture* for 5G networks

# Scope :

architecture, functions, procedures and backward compatibility

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**Introduce**

functions and procedures have the potential to become the ‘de facto’ solution for 5G, which is expected to be the ‘Nervous System’ of the Dig- ital Society and Digital Economy [([13]).](#_bookmark26) Extremely low latency, ultra-high reliability and scalability are the most stringent performance targets that need to be reached to realise this vision. Beyond this, flexibility and backward compatibility are fundamental features of the novel SDN- based 5G architecture, which has thus the potential to be standardised by relevant organisations as the next gener- ation infrastructure, supporting compelling services and enabling a plethora of new sustainable business models.

Future developments of the presented work, ongoing at the time of writing this paper, include case studies showing how the proposed architecture applies to key 5G services such as IoT and V2V, and a proof of concept aiming at an empirical demonstration that the proposed architecture can achieve the expected performance targets.

Ultimately, we would like to state clearly that the views expressed herein are solely those of the authors and do not necessarily represent the ones of their affiliate.