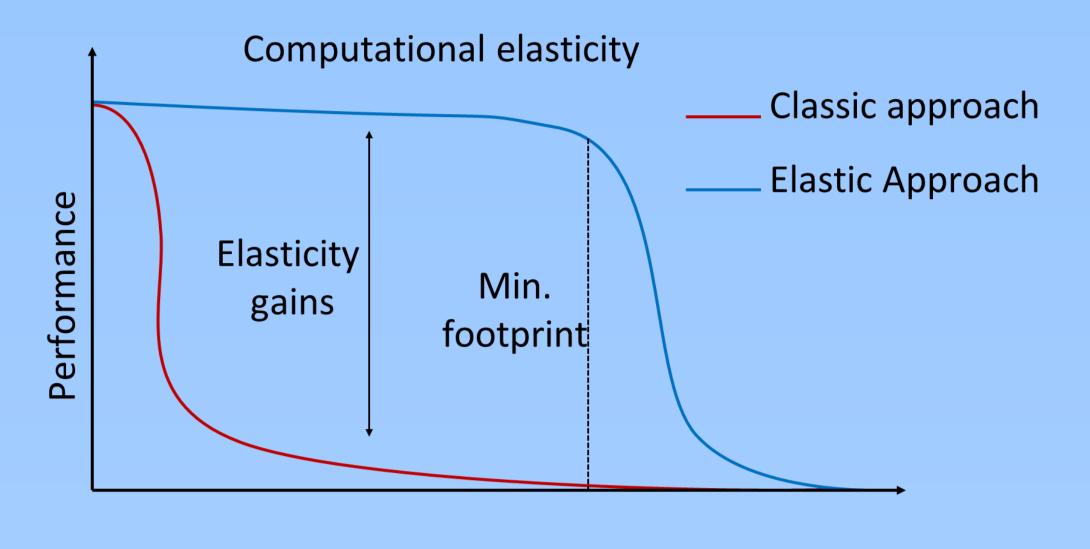
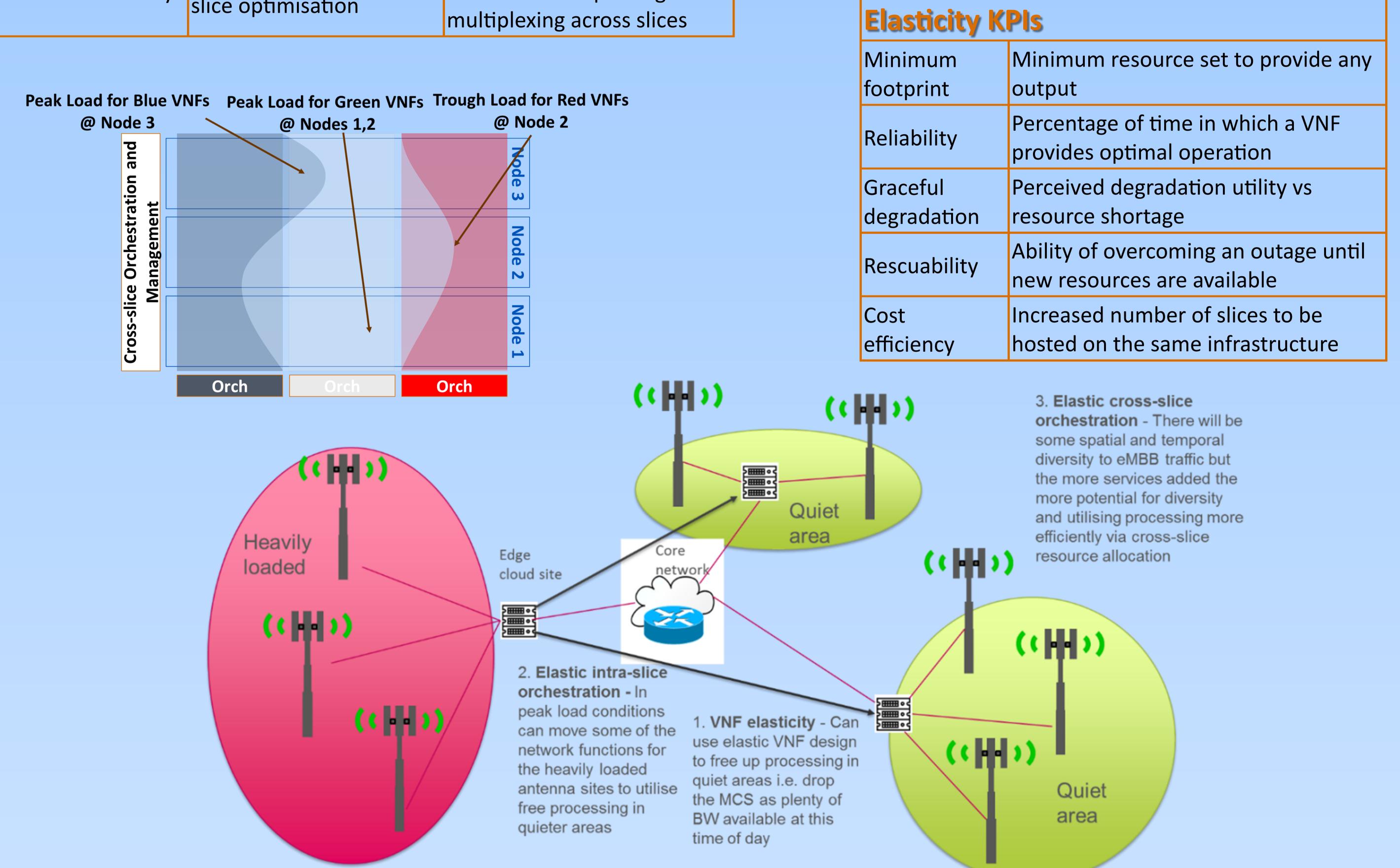
## **5**g-monarch.eu

## **Resource Elasticity for 5G Networks**

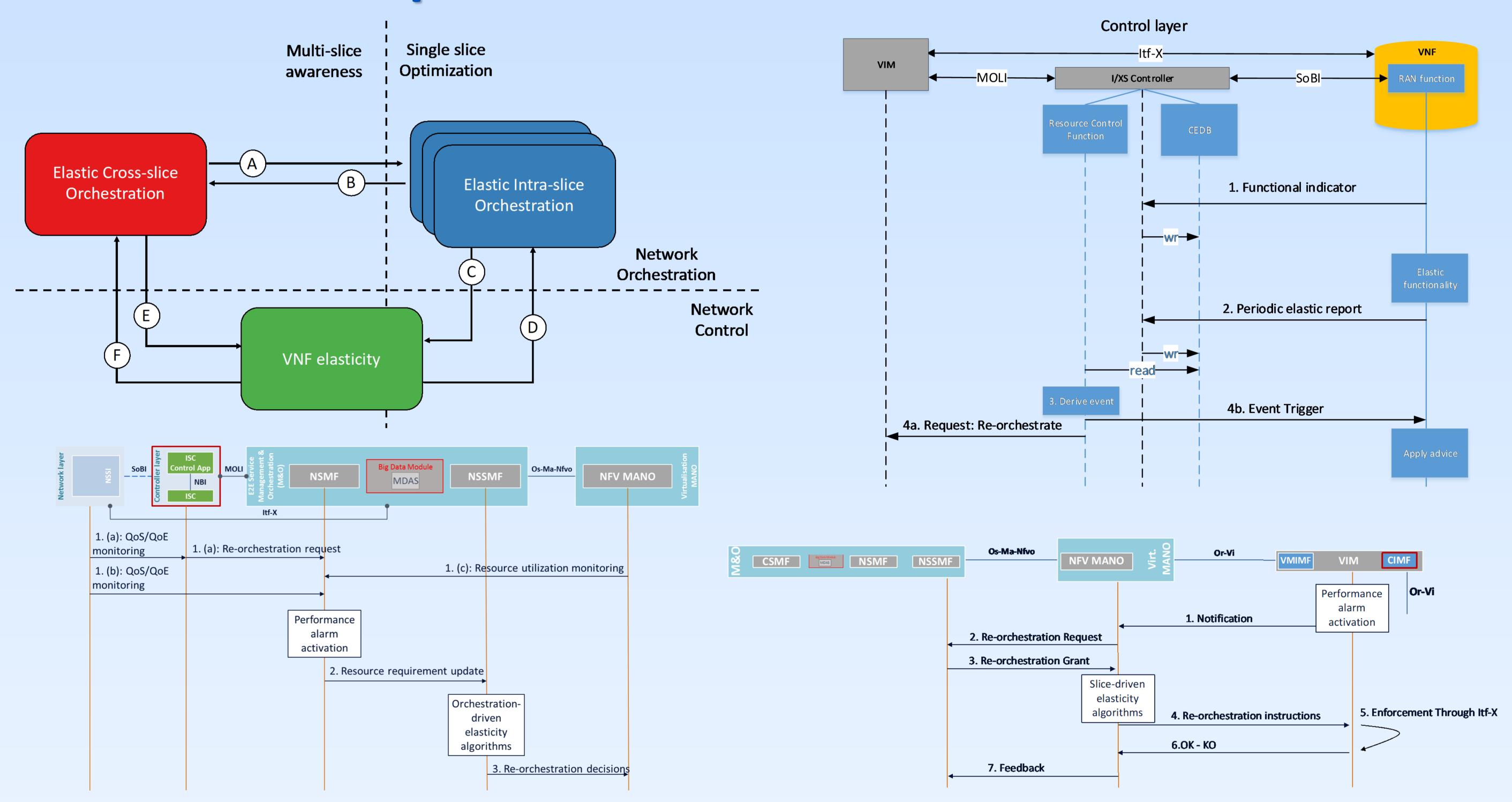
Dimensions of Elasticity		
Innovation areas	Challenges	Potential solutions
Computational elasticity	Graceful scaling of computational resources based on load	Elastic NF design and scaling mechanisms
Orchestration-driven elasticity	NF interdependencies	Elastic cloud-aware protocol stack
Slice-aware elasticity	End-to-end (E2E) cross- slice optimisation	Elastic resource provisioning mechanisms exploiting



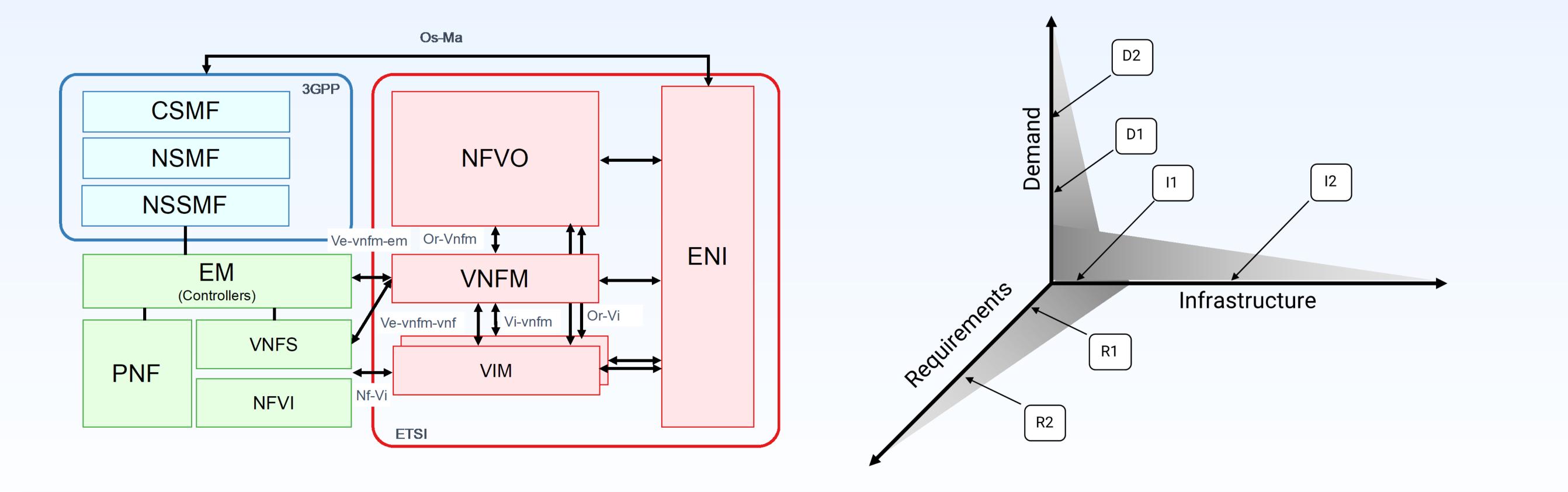
Resource shortage



## **Architectural Implications**



## Al for Elastic Management & Orchestration\_





**Project Coordinator** Lars Christoph Schmelz Nokia Bell Labs, Munich, Germany

*Technical Manager* Albert Banchs Universidad Carlos III de Madrid, Spain

Innovation Manager Isabelle Korthals Deutsche Telekom, Berlin, Germany

5G-MoNArch is funded by the European Commission under the Horizon 2020 Framework Programme