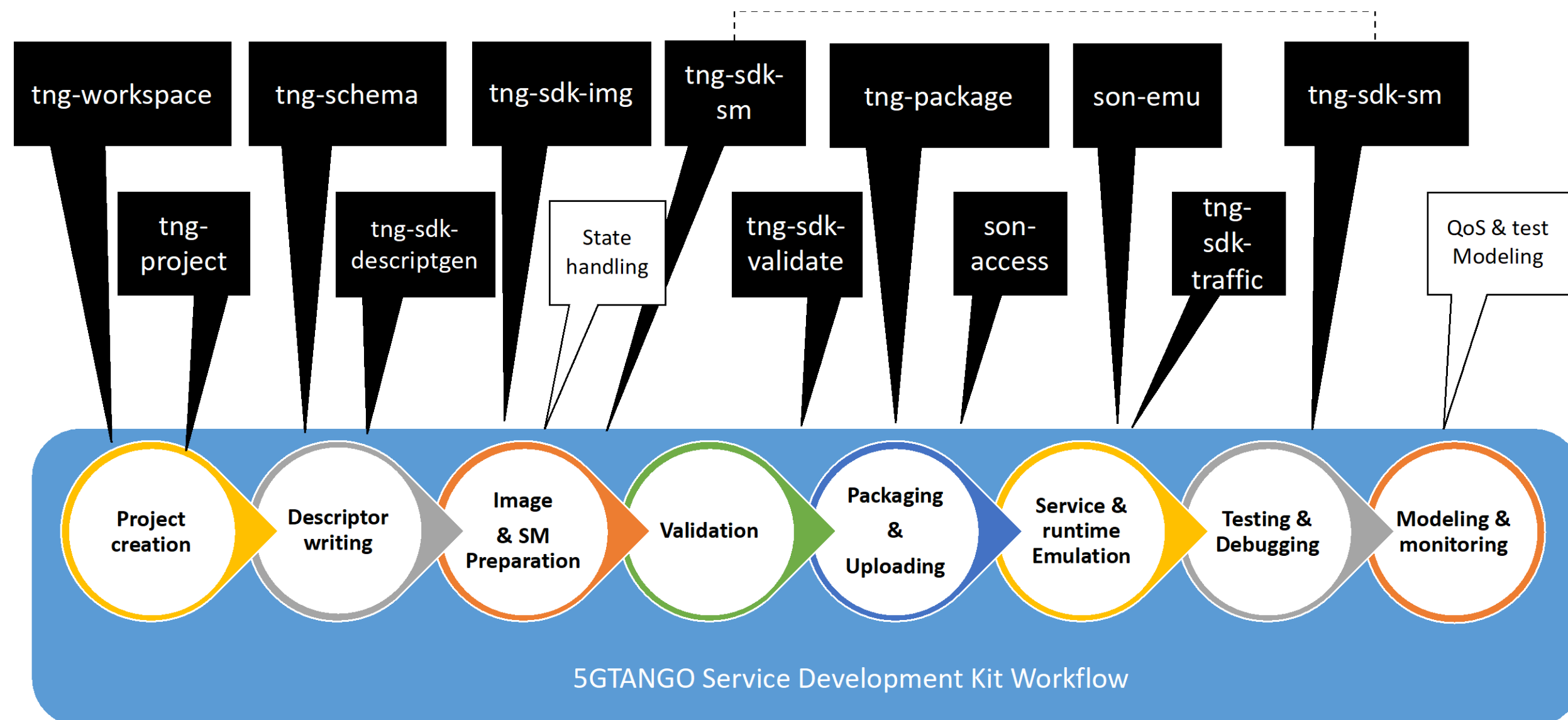


Service Development Kit (SDK) for NFV-based services in 5G networks enabling DevOps towards multiple MANO platforms

Wouter Tavernier, Manuel Peuster, Stefan Sneider, Antón Román Portabales

A streamlined NFV-service development process



- ✓ Collection of **light-weight** synergistic development tools
- ✓ Enabling **automated CLI workflows**
- ✓ **User-friendly GUIs**
- ✓ **Cross-MANO-platform support**
- ✓ Integrated support for **CI/CD & DevOps workflows**

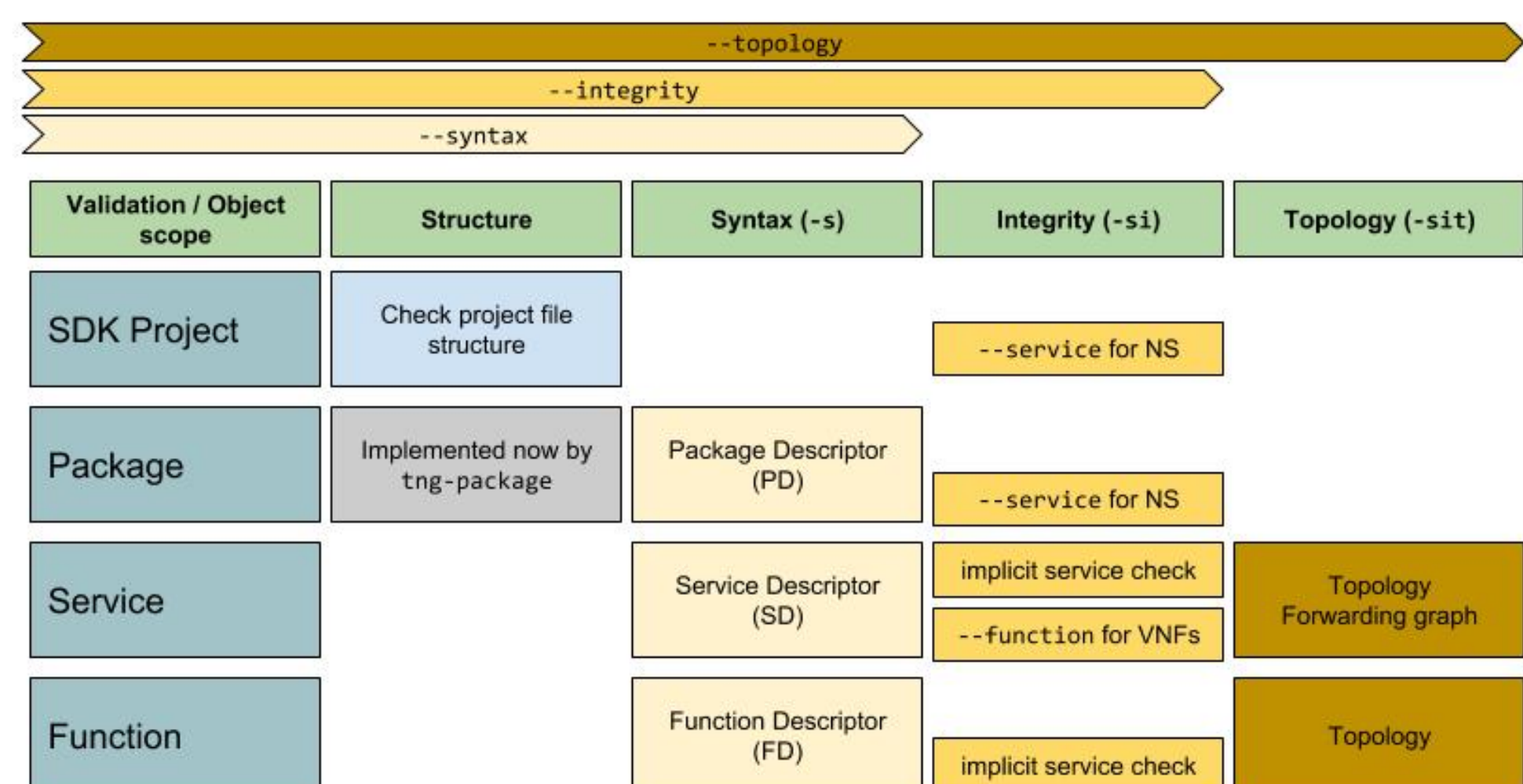
Cross-platform packaging



- ✓ **Multi-interface** packaging tool for NFV services: CLI & REST API
- ✓ Support for **multiple MANO** platforms
- ✓ **TOSCA CSAR**-inspired
- ✓ **ETSI SOL004** compliant
- ✓ **Extensible** framework (Python-based)

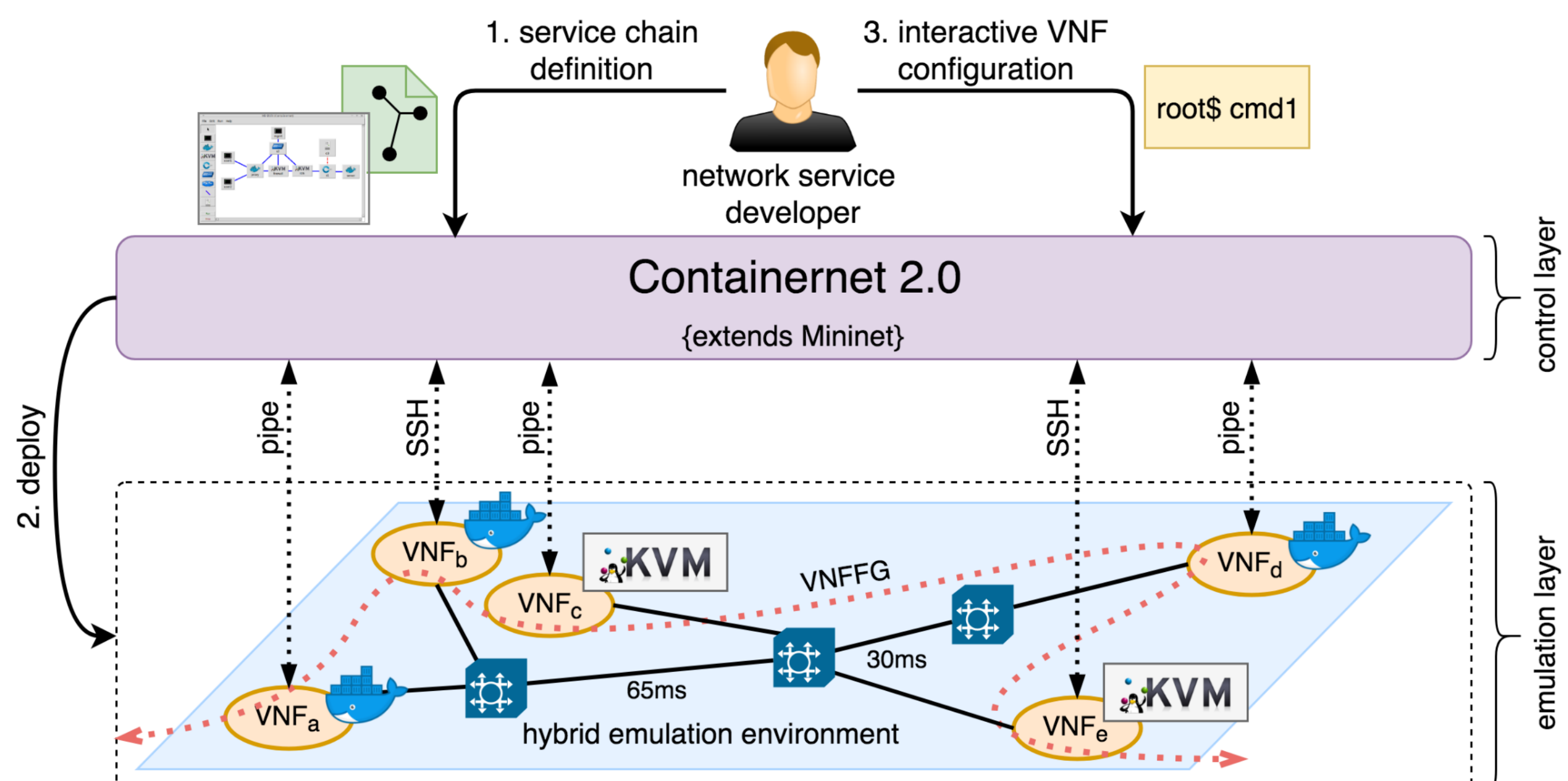
Multi-level service validation

- ✓ Extensible **rule-based validation engine**
- ✓ Supporting multiple **validation profiles**



Advanced local Virtual Infrastructure emulation

- ✓ Deploy VNFs & NFV-services **locally** on your laptop
- ✓ Enabling **rapid testing and development** (no OpenStack cluster setup needed)
- ✓ Support **Docker-** and **VM-based VNFs**
- ✓ Compatible with **multiple northbound interfaces**, including 5GTANGO, SONATA and OSM
- ✓ Support for **multiple PoP emulation**, enabling to validate **advanced placement algorithms** in practice



Partners

