5Gtango

5G Development and Validation Platform for global Industry-specific Network Services and Apps
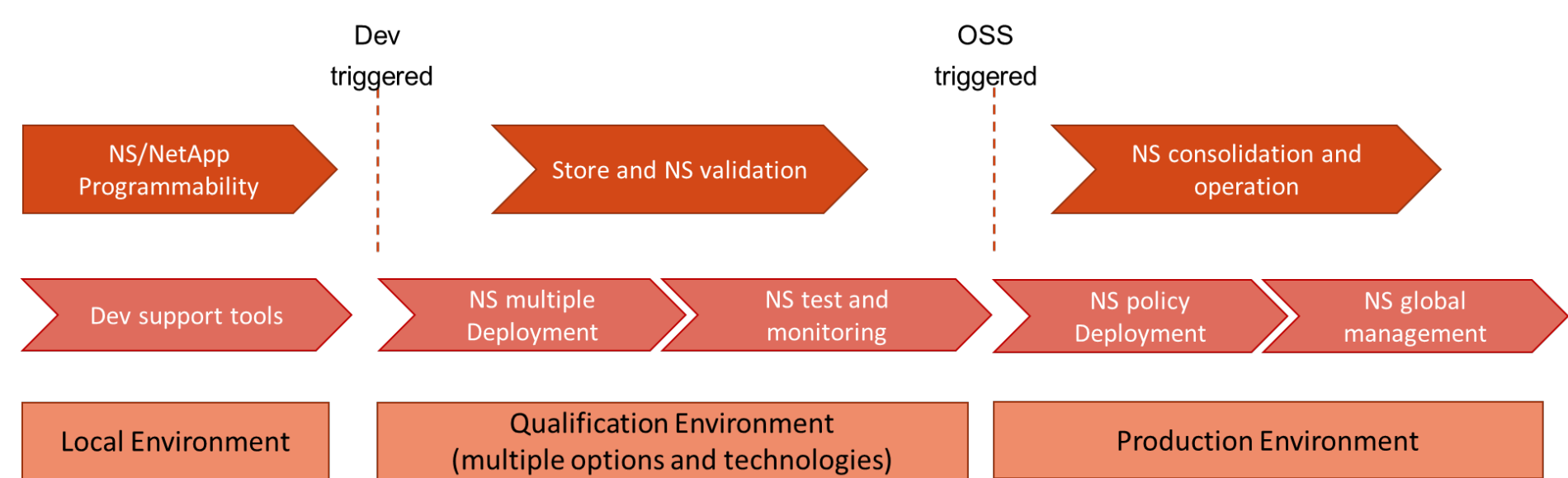
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Objectives

Reduce the time-to-market for networked services by shortening the service development cycle and by qualifying those network services to be adopted.

Reduce the entry barrier to 3rd party developers and support the creation and composition of Virtual Network Functions (VNFs) and application elements as "Network Services".

Enable new business opportunities with the customisation and adaptation of the network to vertical application´s requirements.

Accelerate the NFV uptake in industry via an 'extended' DevOps model and the validation at scale of Network Service capabilities of the 5GTANGO platform in vertical show cases.
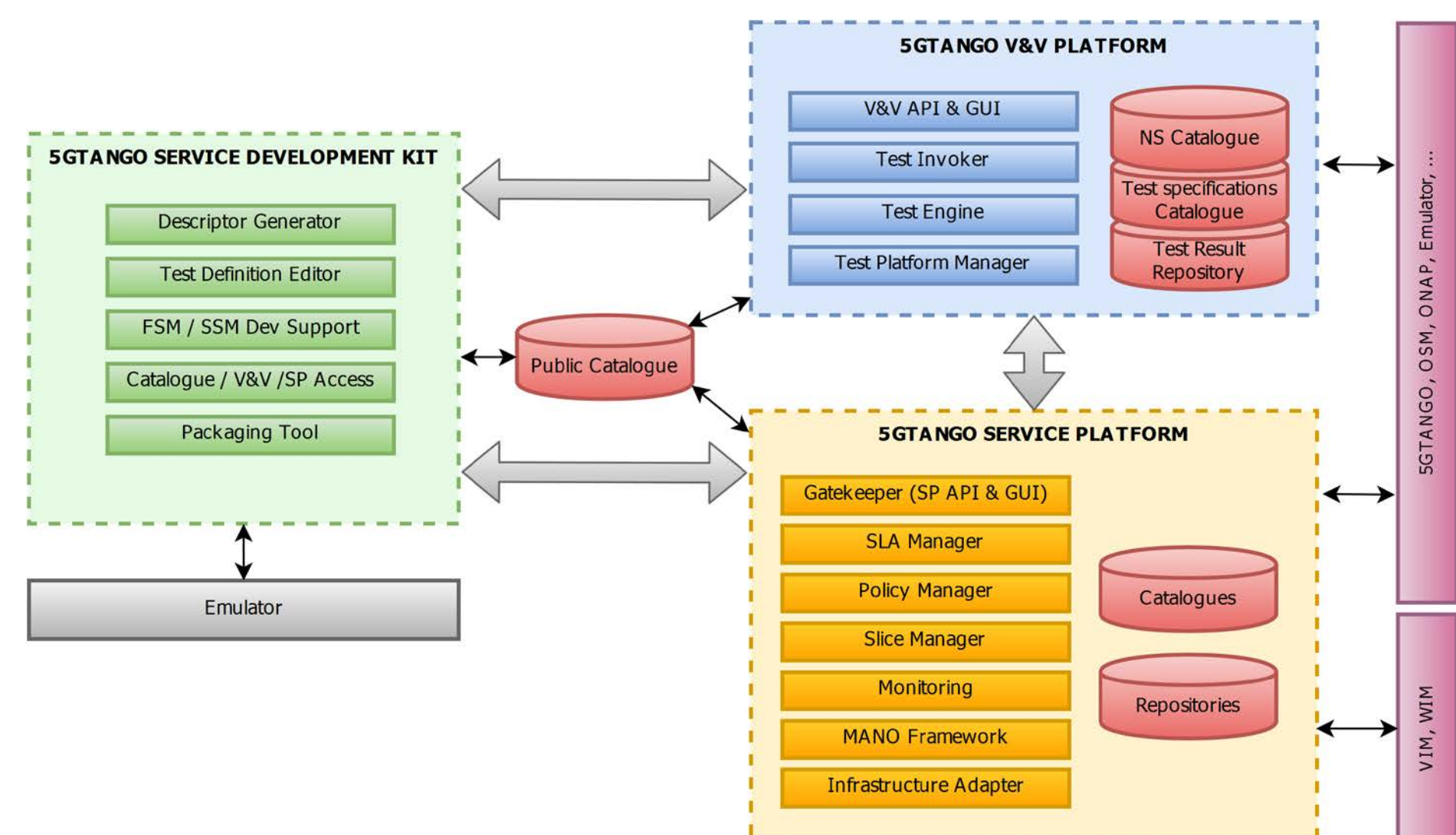
Three service phases

Dev triggered / OSS triggered

NS/NetApp Programmability → Store and NS validation → NS consolidation and operation

Dev support tools → NS multiple Deployment → NS test and monitoring → NS policy Deployment → NS global management

Local Environment | Qualification Environment (multiple options and technologies) | Production Environment

- The three pillars: **service development**, **service qualification** and **service platform**, are closely linked together.
- We emphasize the need for quick turn-around times in service development and operation, providing both conceptual and tooling support for bringing the **DevOps** model to the world of network services.
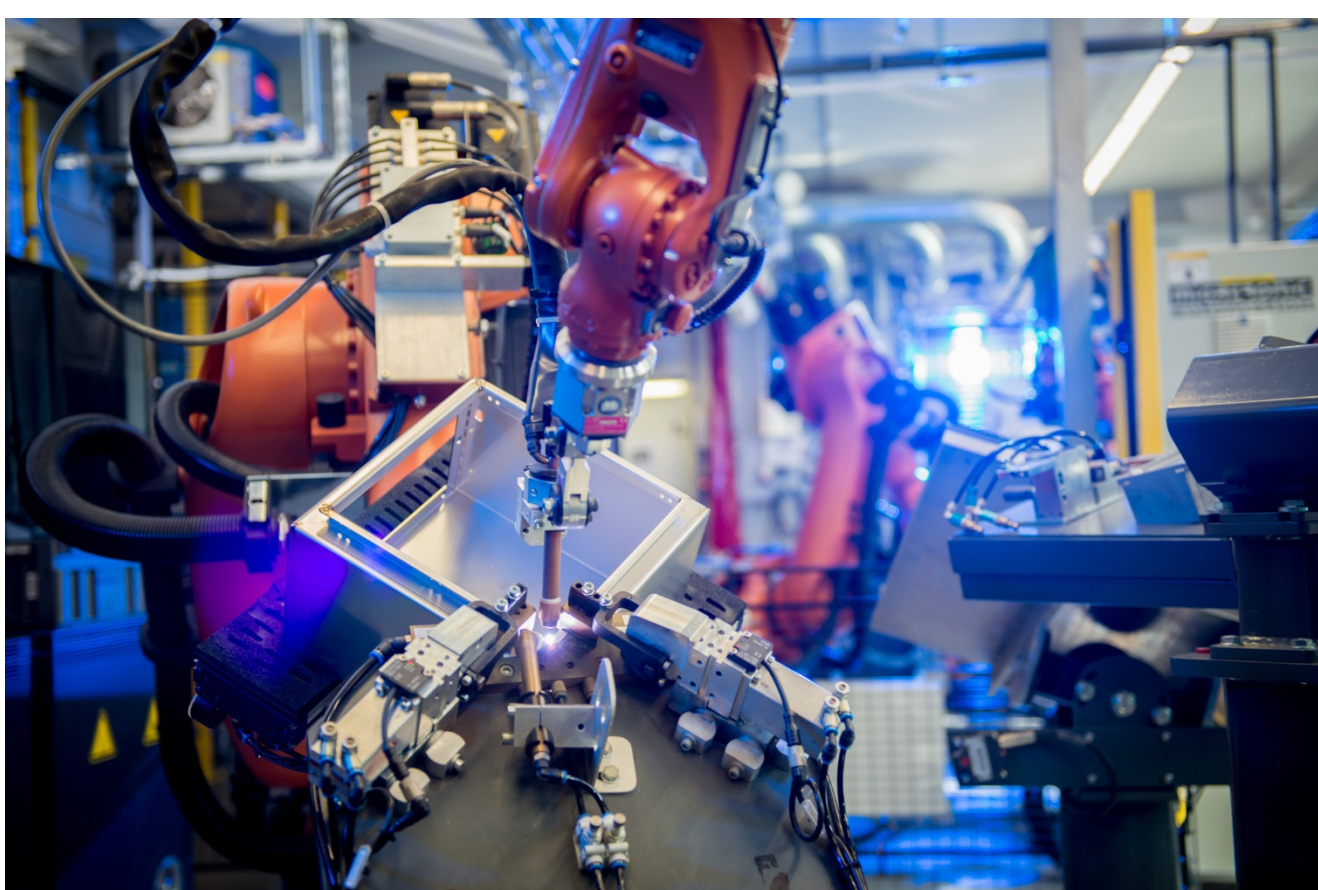
Key contributions

1 • An NFV-enabled SERVICE DEVELOPMENT KIT (SDK).

2 • A STORE PLATFORM with advanced VALIDATION AND VERIFICATION MECHANISMS for VNFs/Network Services qualification (including 3rd party contributions).

3 • A modular SERVICE PLATFORM with an innovative ORCHESTRATOR in order to bridge the gap between business needs and network operational management systems.

4 • Methodology and tools to implement a modern DEVOPS WORKFLOW with a multi-organizational design.

High Level Architecture

Vertical Pilots

SMART MANUFACTURING

IMMERSIVE MEDIA

REAL TIME COMMUNICATIONS

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