



# MOSAIC-5G.io

## A community led consortium

Leveraging an Ecosystem of 5G services

# What is Store?

*A Distribution Repository of Reusable Network Applications/Functions and Usecases*

# Store objectives



- Customization without knowledge of the underlying network
- Collection of SDKs for LL-MEC/FlexRAN/JoX to develop plug-and-play apps
- Apps support that can operate on real-time data structure
- Offline data manipulation to apply appropriate network control

# Store features

- **4G/5G-PaaS**
  - Extend 5G-IaaS in support of control, orchestration, and virtualization
  - Provide open APIs to enable network applications ecosystem
- **Software Development Kits**
  - Facilitate the design, development, test and update of an application
  - Include libraries that implement specific functions/methods for network programmability/monitoring/control
- **Open Data API**
  - Be coupled with SDKs and place the apps at the center of the 5G network to publish their capabilities
  - Perform diverse operations to the underlying network including monitoring, control, and programming
- **Datasets**
  - Collect realistic set of datasets using Open5G lab at EURECOM
  - Produce new set of datasets and share with the R&D community upon request

# Store implementation

## ■ Snaps, Charms, and Bundles

- Source files for building and snapping Mosaic5G platforms
- Charms for the OpenAirInterface RAN and CN, FlexRAN and LL-MEC software
- Bundles for different use cases

## ■ Control Apps and SDKs

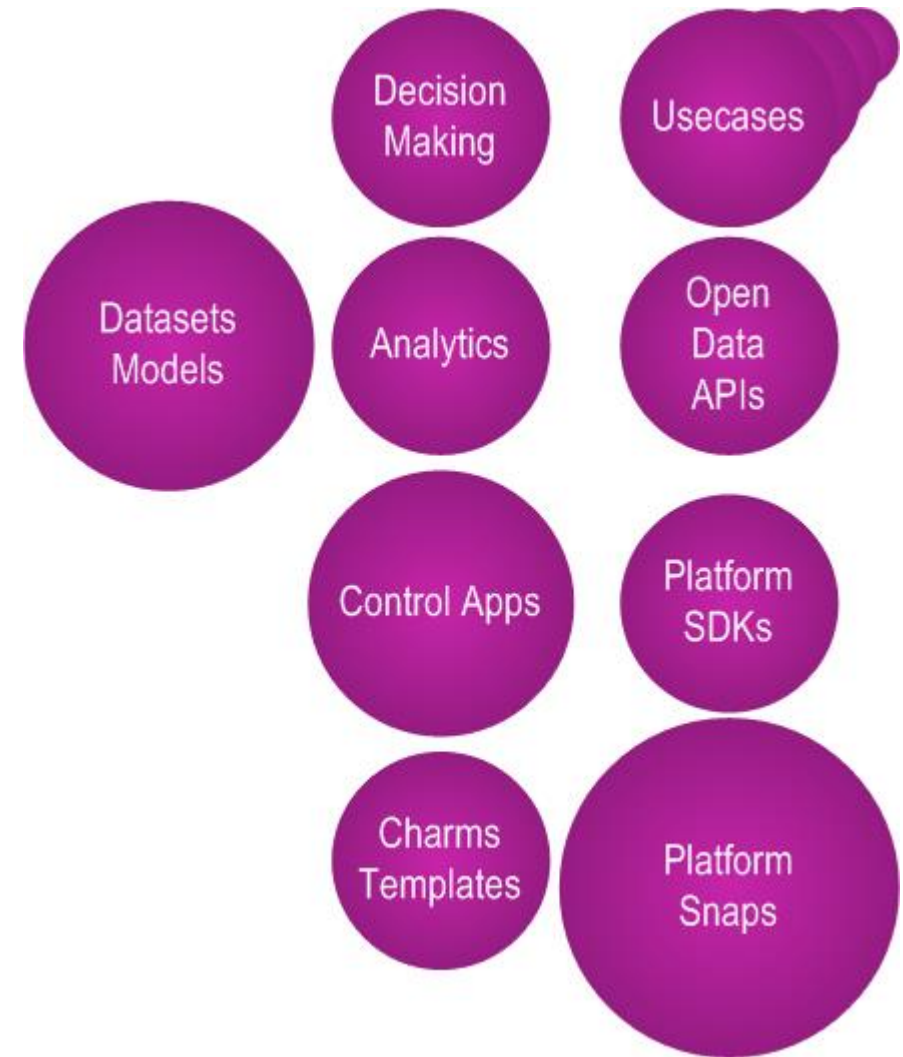
- RAN and CN domain monitoring, data mining, resource/QoS management, service-specific traffic redirection
- Extension to each others and use of Open Data API in support of pub/sub communication method

## ■ Datasets

- Collected via platform-specific recording and stored as offline data
- Analyzed via control apps and SDKs to adaptive network management

# Store apps

- Network Store Management
- Network Control Semantics and SDK
- Plug&Play Control Apps
- Access Control
- Service Registry, Inventory, and Discovery



# Useful links

- [Install from sources](#)
- [Snaps on Ubuntu](#)
- [Clone the Mosaic5G repository](#)
- [Access Mosaic5G wiki](#)

# Mosaic5G-Contact

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