# Workshop: Writing Python xApps for OSC's Platform

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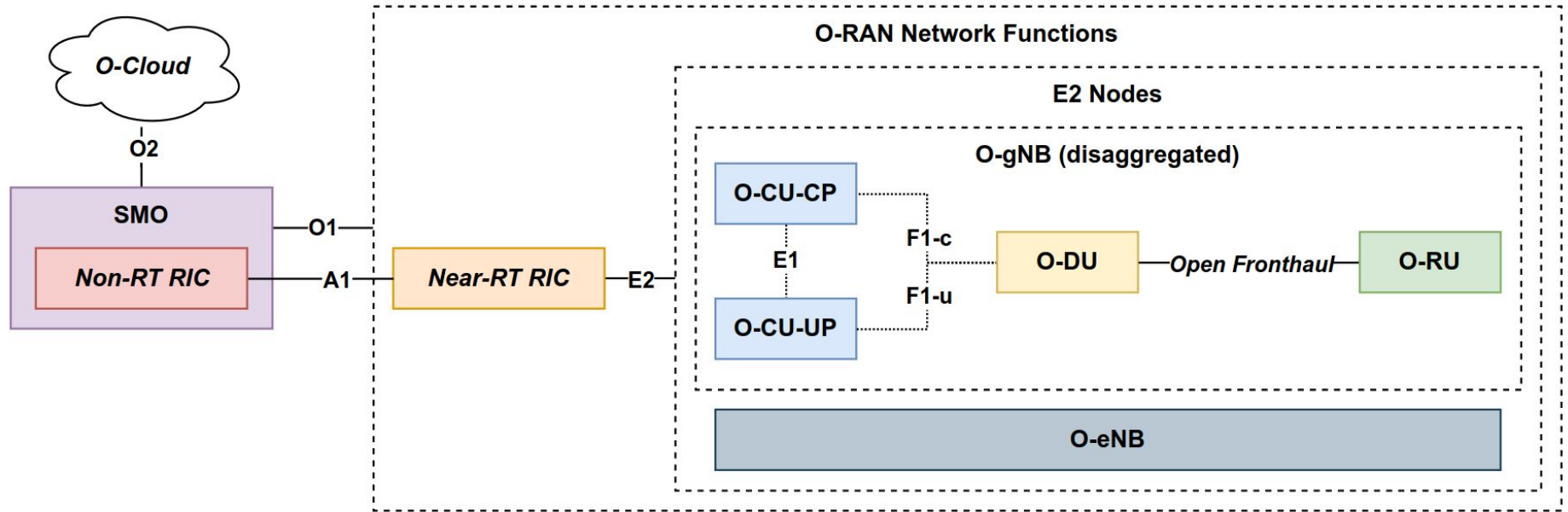
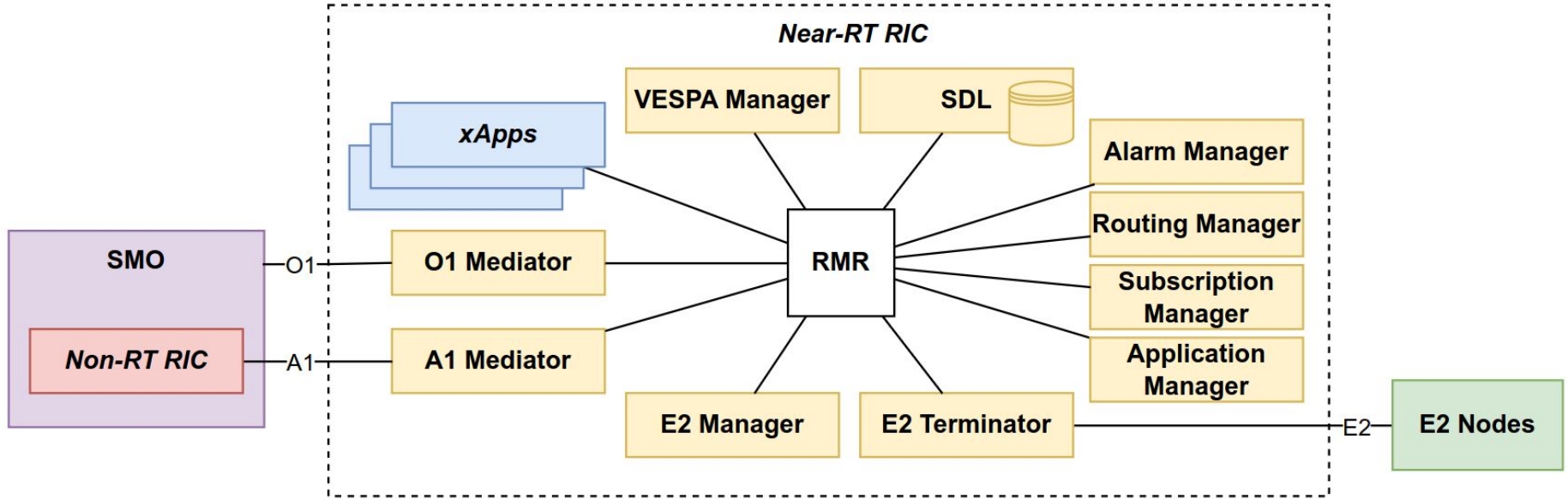INSTITUTO DE INFORMÁTICA UFG

# Agenda

- Class 1:  Managing, checking, and configuring xApps
    - O-RAN architecture
    - OSC's Near-RT RIC architecture
    - Commom xApp endpoints
    - xApp deployment workflow
    - Class 1 xApp
    - Practical exercises
- Class 2: xApp overview, logging, SDL, and REST
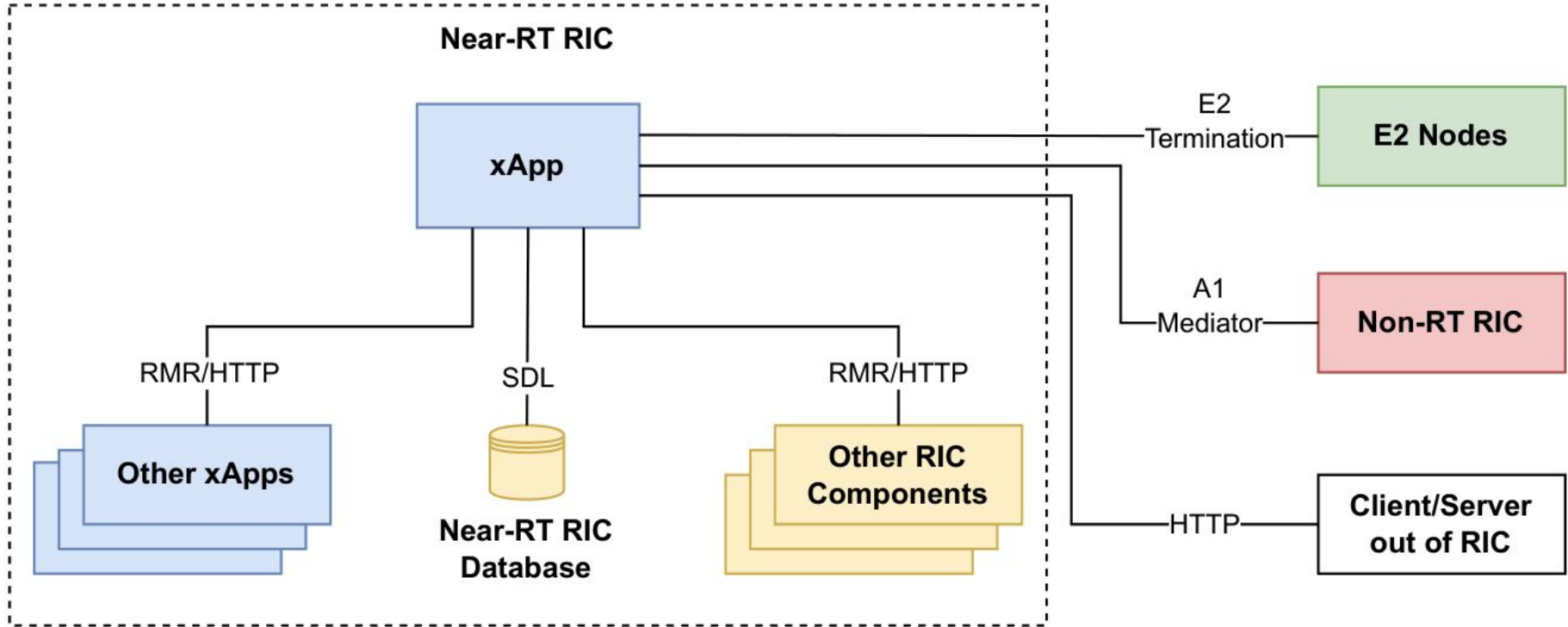- Class 3: RMR communication and E2 Nodes subscription
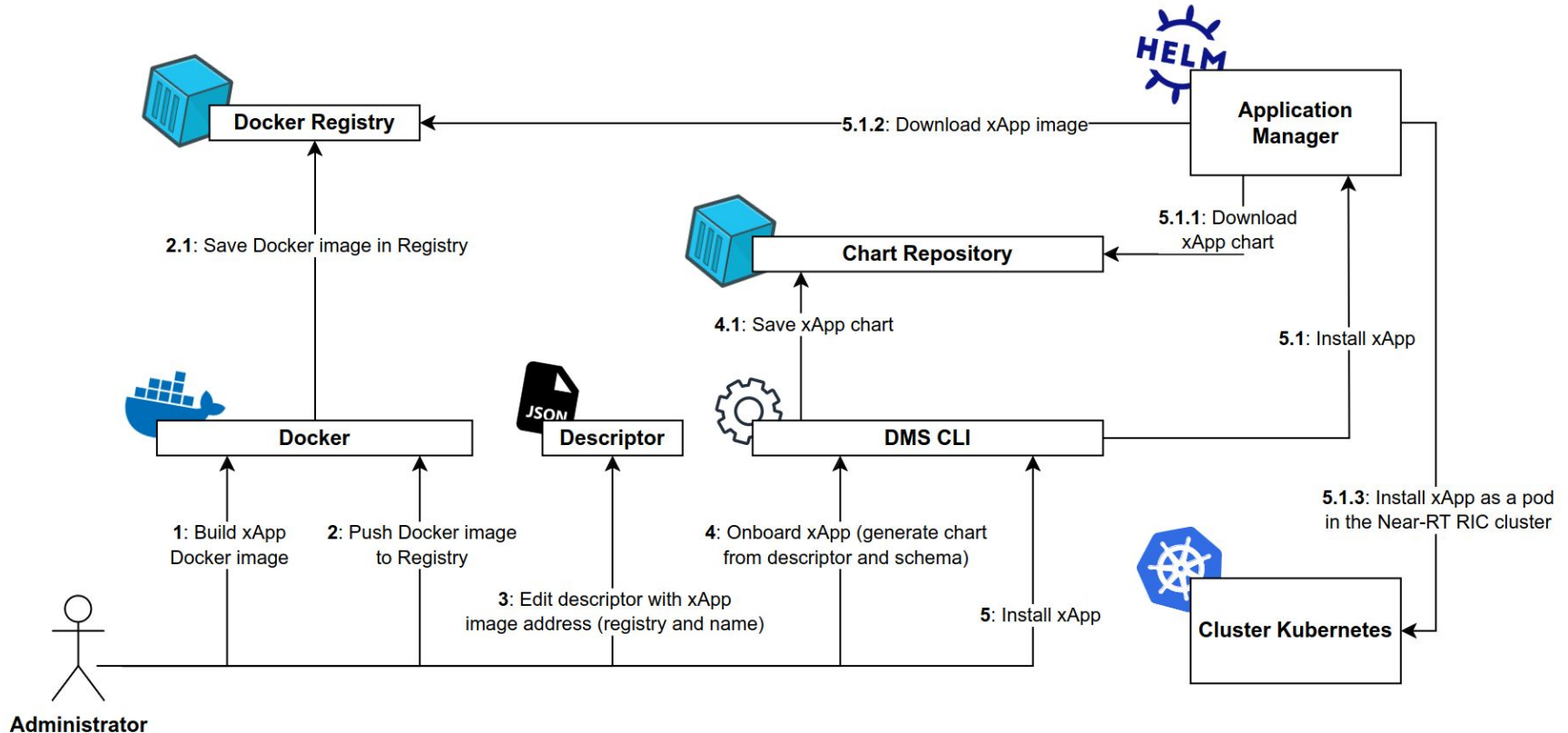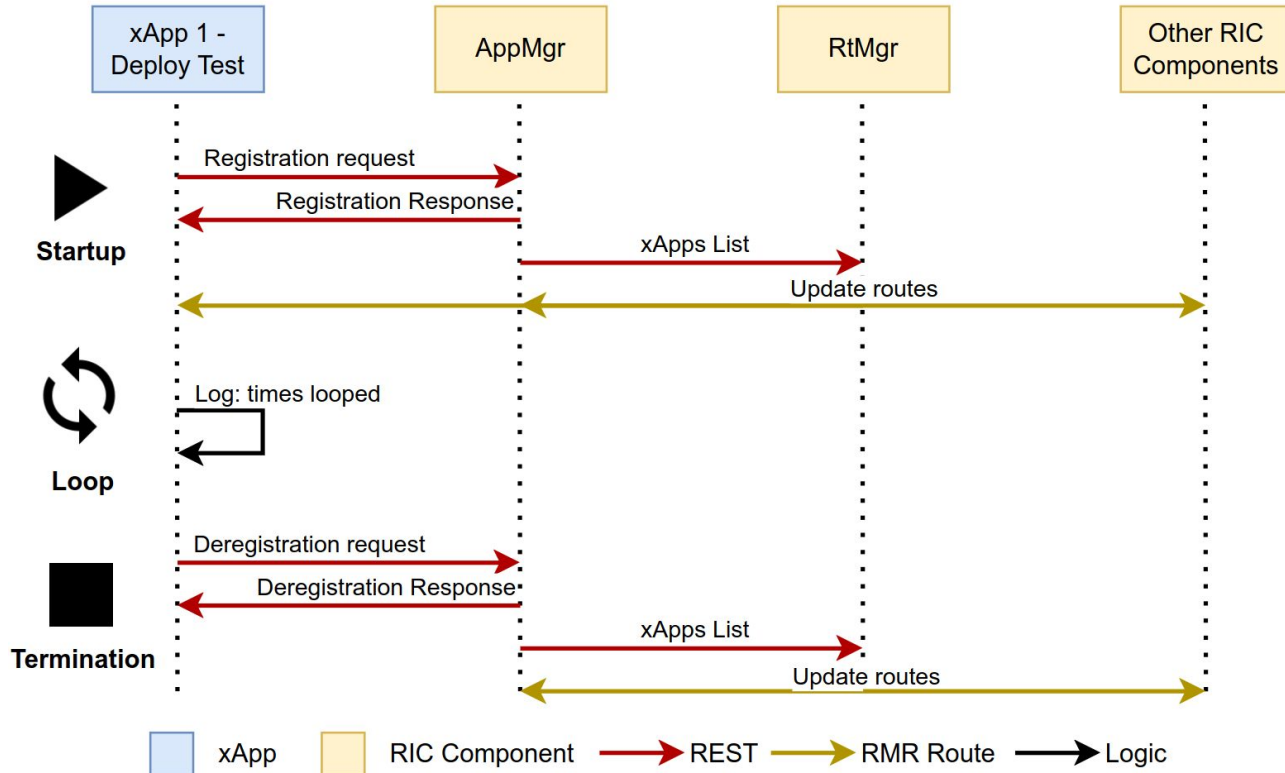
# O-RAN architecture

# OSC's Near-RT RIC architecture

# Commom xApp endpoints

# xApp deployment workflow

# Class 1 xApp

# References

**OSC's xApp writer's guide v2**:
https://wiki.o-ran-sc.org/download/attachments/17269011/xApp_Writer_s_Guide_v2.pdf?version=4&modificationDate=1625642899082&api=v2

**OSC's Python xApp Framework**: https://pypi.org/project/ricxappframe/

Polese, Michele, et al. **"Understanding O-RAN: Architecture, interfaces, algorithms, security, and research challenges."** IEEE Communications Surveys & Tutorials 25.2 (2023): 1376-1411.