



Deploy AGL OS and SDK as a Binary Packaging  
Distribution for Developer  
Ronan Le Martret  
IoT.bzh

# Summary

- Presentation
- Technical description
- Issue
- Usage

# problematic

- Update SDK
- Add extra packages from:
  - Internal
  - Extern from third party (Driver, middleware, ...)
- Packages Delivery

# Presentation

## Current YOCTO SDK state

SDK archive file

extraction script

tar.gz archive

Install/Distribution

environnement script

**Native SDK  
sysroot**

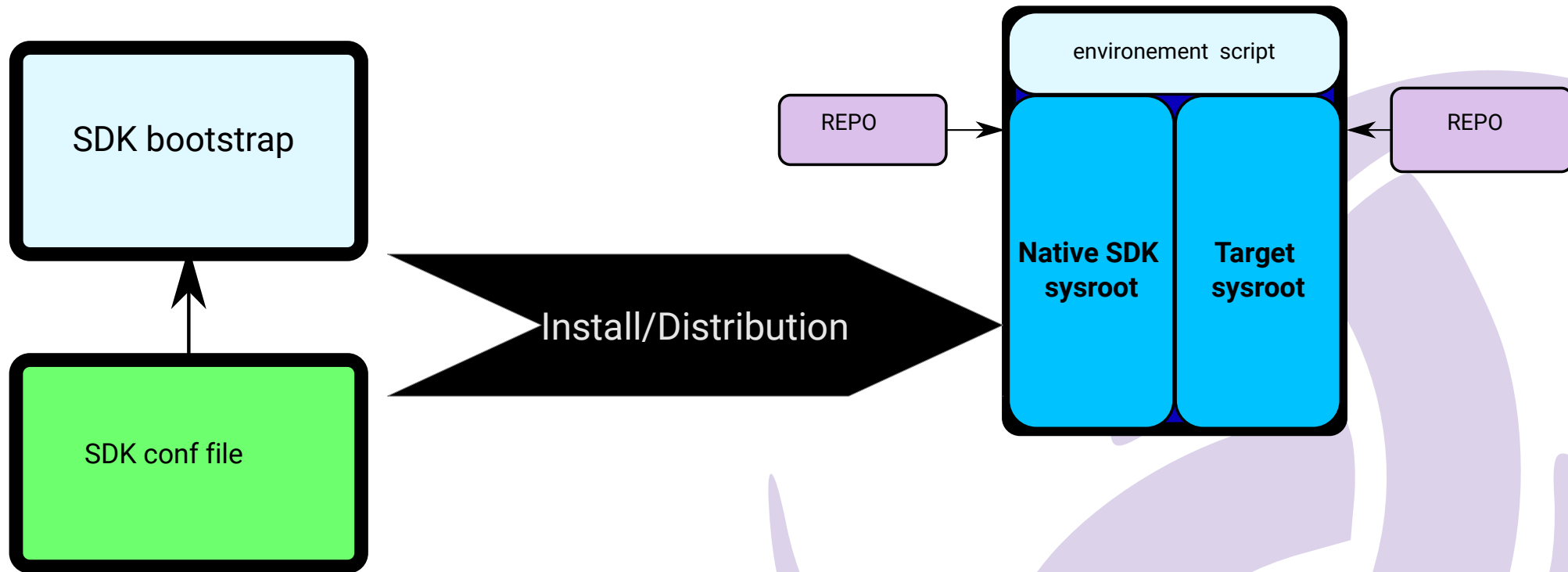
**Target  
sysroot**

# Yocto Extensible SDK

- Update SDK:
  - Same as standard SDK
- Add extra packages:
  - Need to rebuild packages
- Packages delivery:
  - Need to update Extensible SDK

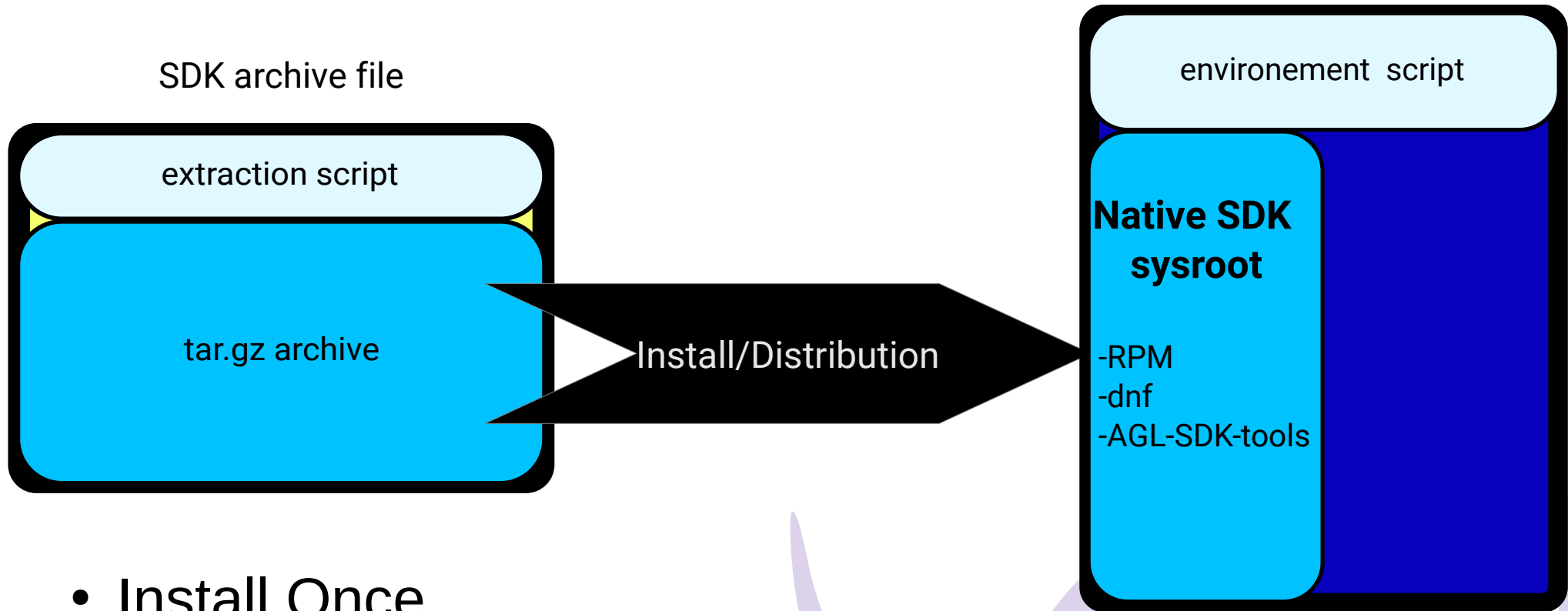
# Presentation

## Proposal



# Presentation

- SDK bootstrap ( ~15Mo) generate from Yocto



- Install Once

# Presentation

SDK conf file:

- ARCH
- Target repositories
- SDK native repositories
- Default packages/packages groups/profiles

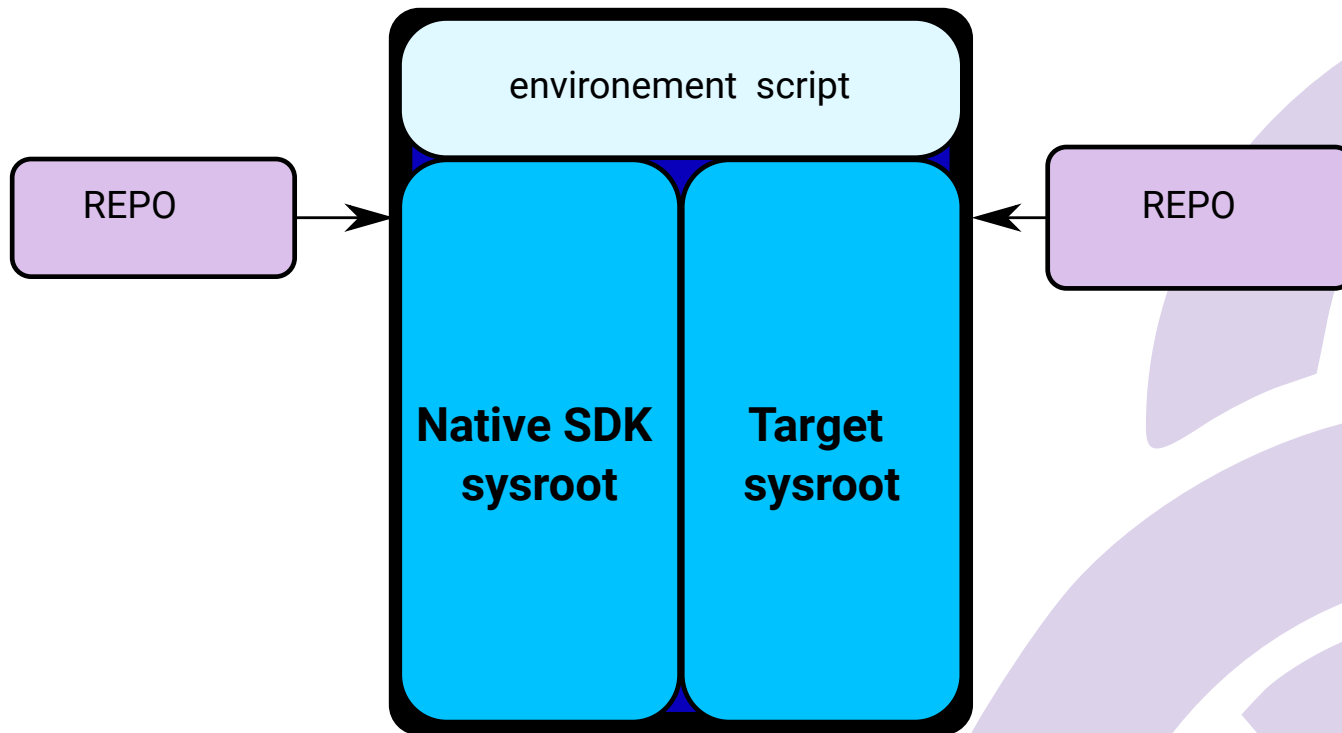




# Presentation

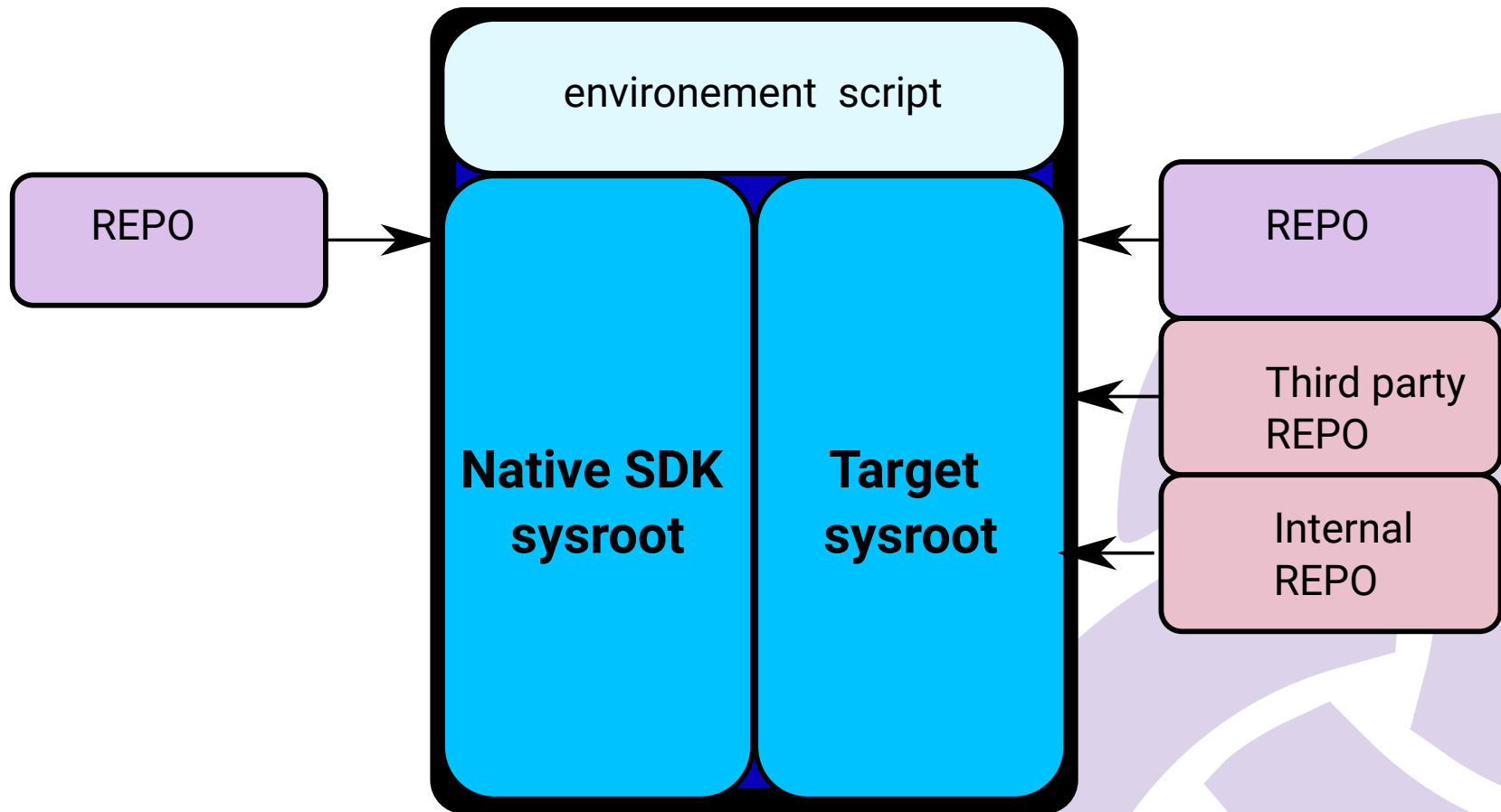
Init SDK

```
# init-SDK-rootfs -i AGL-m3ulcb-master.sdk -o ${XDT_SDK}
```



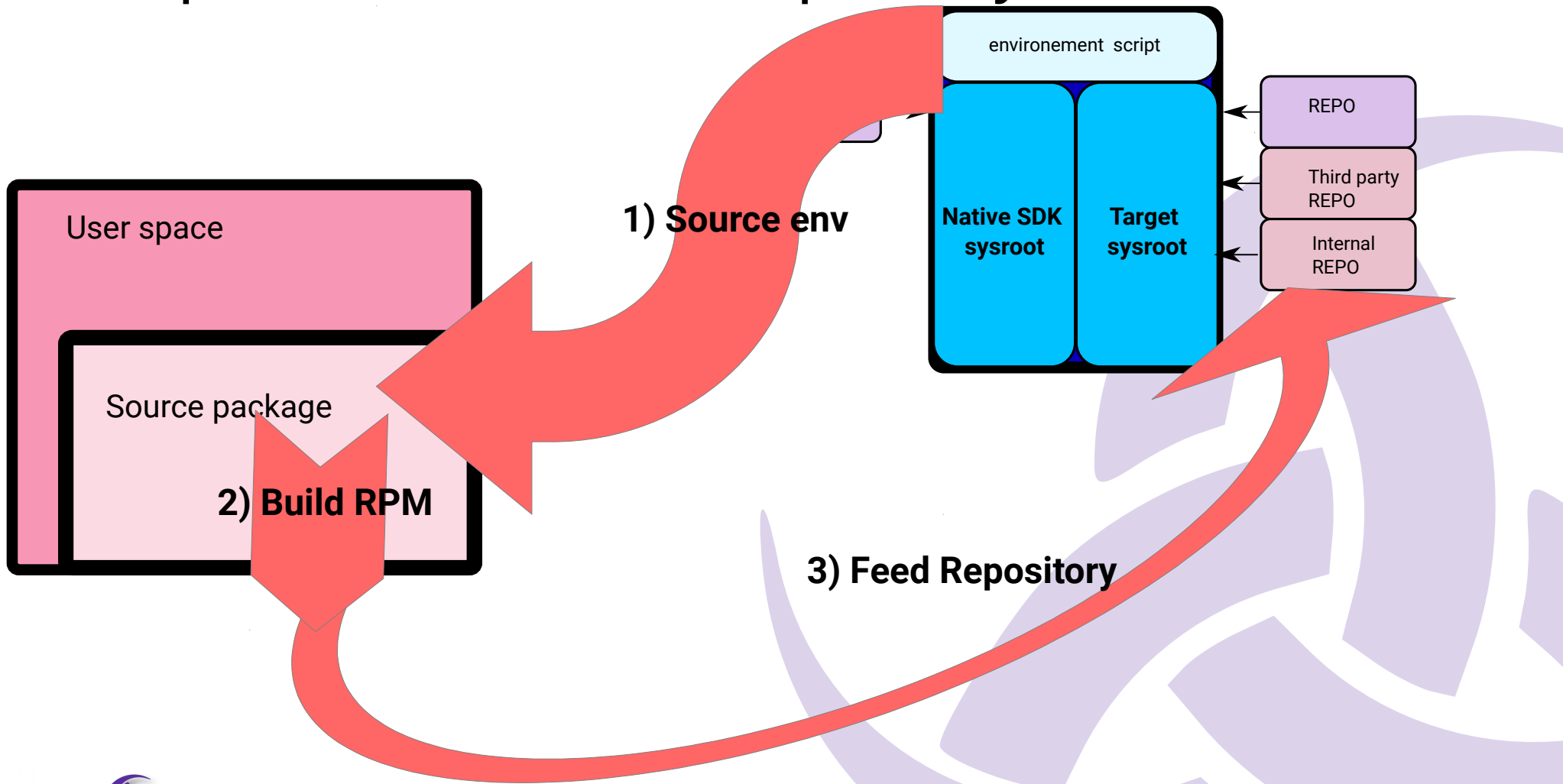
# Usage

- Using private repository

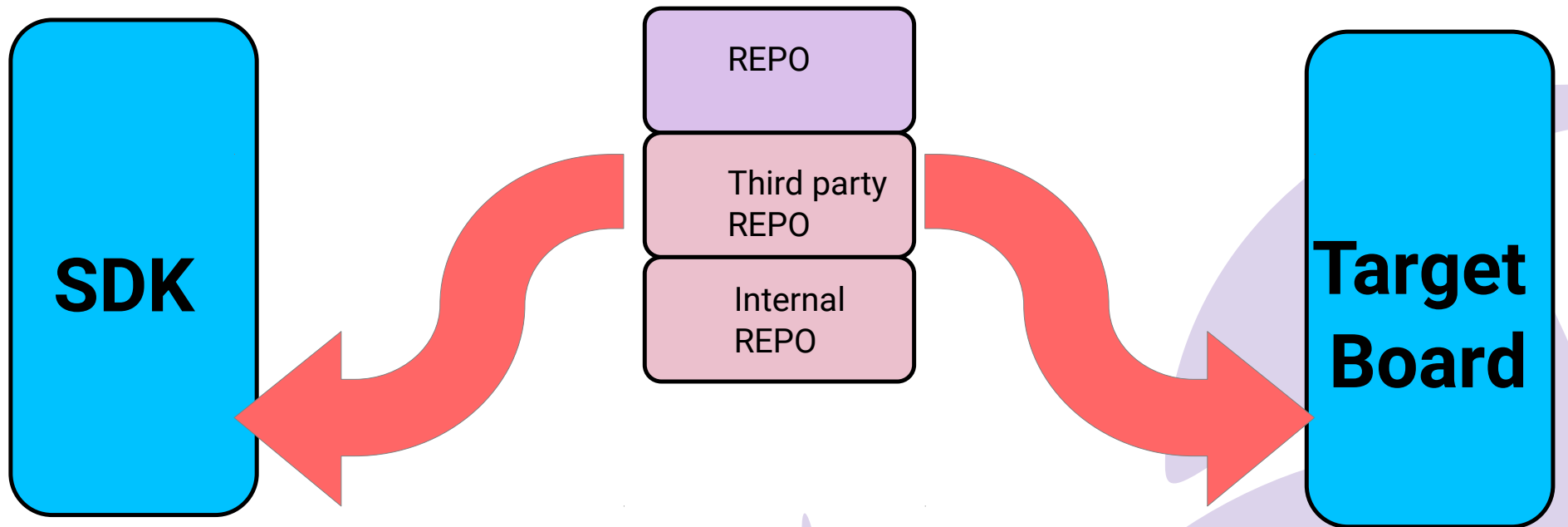


# Usage

- Populate RPM / Feed repository



# Usage



# Presentation

## Install packages

```
# ${XDT_SDK}/m3ulcb-sdk/dnf4Native install nativesdk-packagegroup-qt5-toolchain-host \  
nativesdk-packagegroup-sdk-host \  
packagegroup-cross-canadian-m3ulcb  
  
# ${XDT_SDK}/m3ulcb-sdk/dnf4Target install packagegroup-qt5-toolchain-target \  
linux-libc-headers-dev \  
libjson-c-dev \  
af-binder-dev
```

# YoMo

<https://github.com/iotbzh/YoMo>