

# Smartphones freedom status in 2023

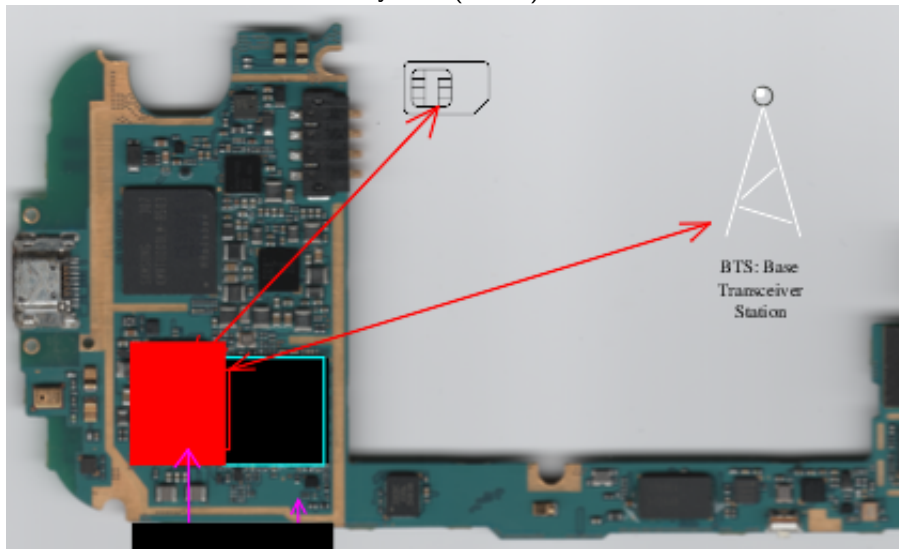
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## In this presentation

- ▶ What is a smartphone
- ▶ Hardware and freedom
- ▶ Android vs GNU/Linux: Applications and OS
- ▶ Android Applications status: SDK etc
- ▶ GNU/Linux status
- ▶ Android status

## A Galaxy SIII (I9300):



## Hardware

	Pinephone	Pinephone Pro	Librem 5
Boot	Free	Free	Nonfree DDR4 firmware
WiFi	nonfree firmware	nonfree firmware	nonfree firmware
Modem	Can be iso- lated	Can be iso- lated	Usually iso- lated
Battery	Replaceable	Replaceable	Replaceable
Works	Depends	No suspend to RAM	Yes
Price	OK for free software people	OK for free software people	Too expen- sive

## Hardware

	Fairphone	Pixel 7
Boot	Nonfree, signed	Nonfree, signed?
WiFi	nonfree firmware	nonfree firmware
Modem	Not isolated	Can be iso- lated
Battery	Replaceable	Non replace- able
Works	Yes	Yes
Price	Expensive	OK for free software people

## GNU / Linux applications

- ▶ Few adapted applications

## Andbox / Waydroid

- ▶ Uses more RAM / space
- ▶ Limited interfaces to hardware

## Android applications

- ▶ F-Droid
- ▶ Depends on nonfree Android SDK
- ▶ ~~<https://android-rebuilds.beuc.net/>~~  
<https://codeberg.org/Starfish/SDK-Rebuilds>  
Sources without EULA.  
WIP: now building and publishing.



## GNU / Linux

- ▶ Usable on the PinePhone
- ▶ Issue: applications

## Android

- ▶ GloDroid
  - ▶ Good architecture.
  - ▶ Pinephone 3GiB.
  - ▶ No data connection.
  - ▶ No multipart SMS (Silence key exchange)
  - ▶ (also no modem isolation)

Wanna join the fun?

Replicant Meetup 14:00 @ CDC

## Licenses

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