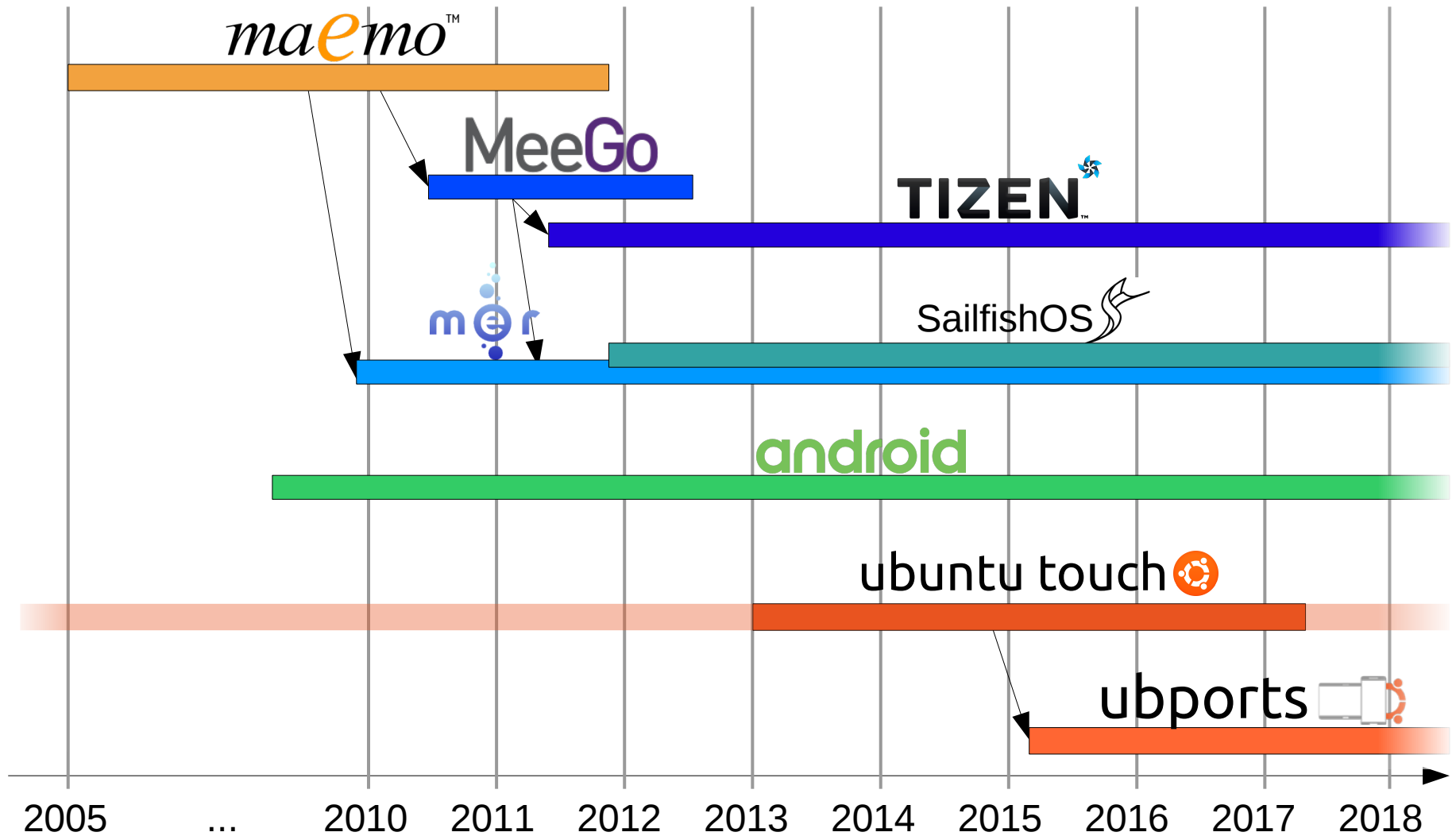# The Ubports project

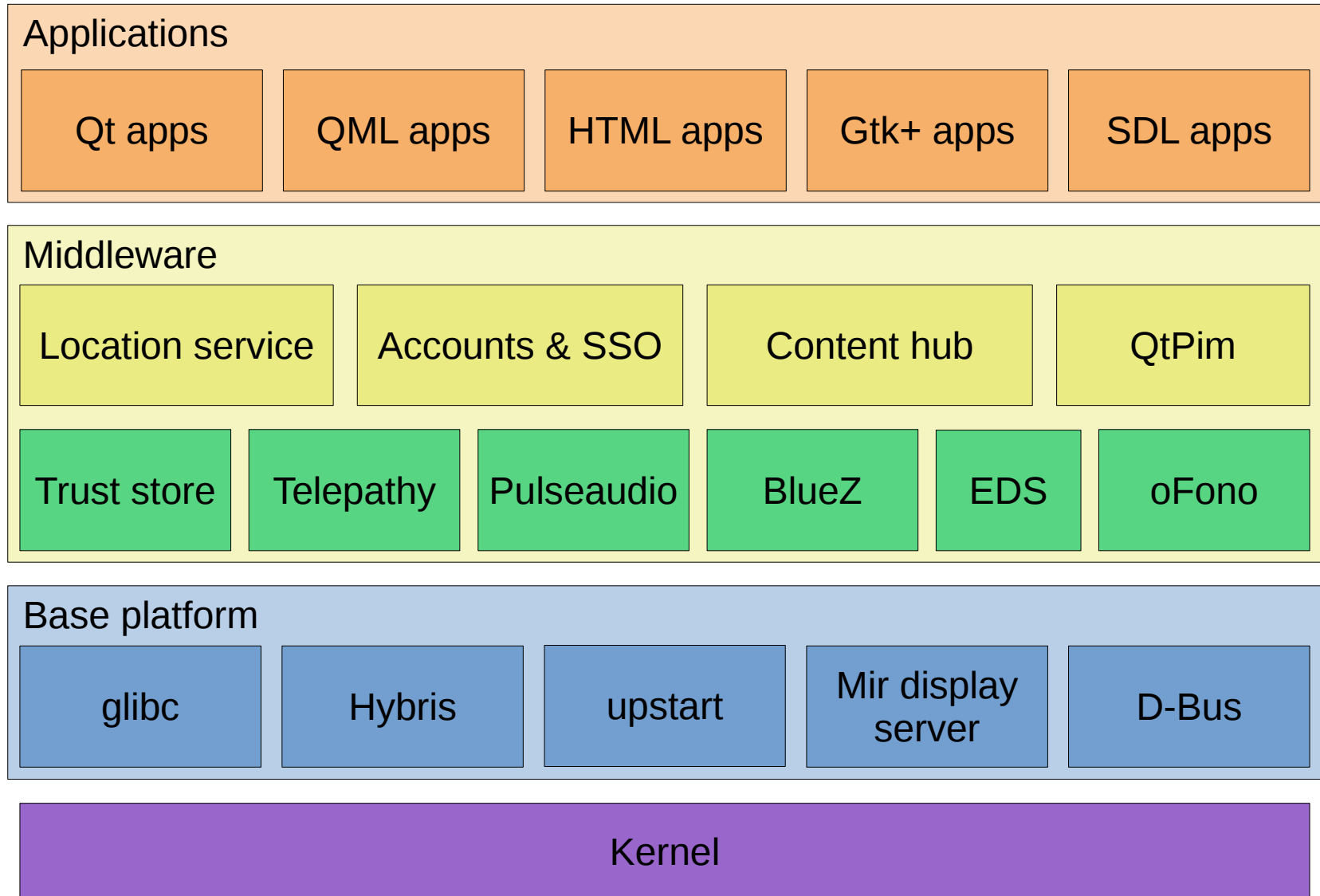# Ubuntu for Phones raises from the ashes

Alberto Mardegan, Luxoft (and formerly Nokia, Canonical)

Linux-based phones

Ubports: just Ubuntu

Applications

| Qt apps | QML apps | HTML apps | Gtk+ apps | SDL apps |

Middleware

| Location service | Accounts & SSO | Content hub | QtPim |

| Trust store | Telepathy | Pulseaudio | BlueZ | EDS | oFono |

Base platform

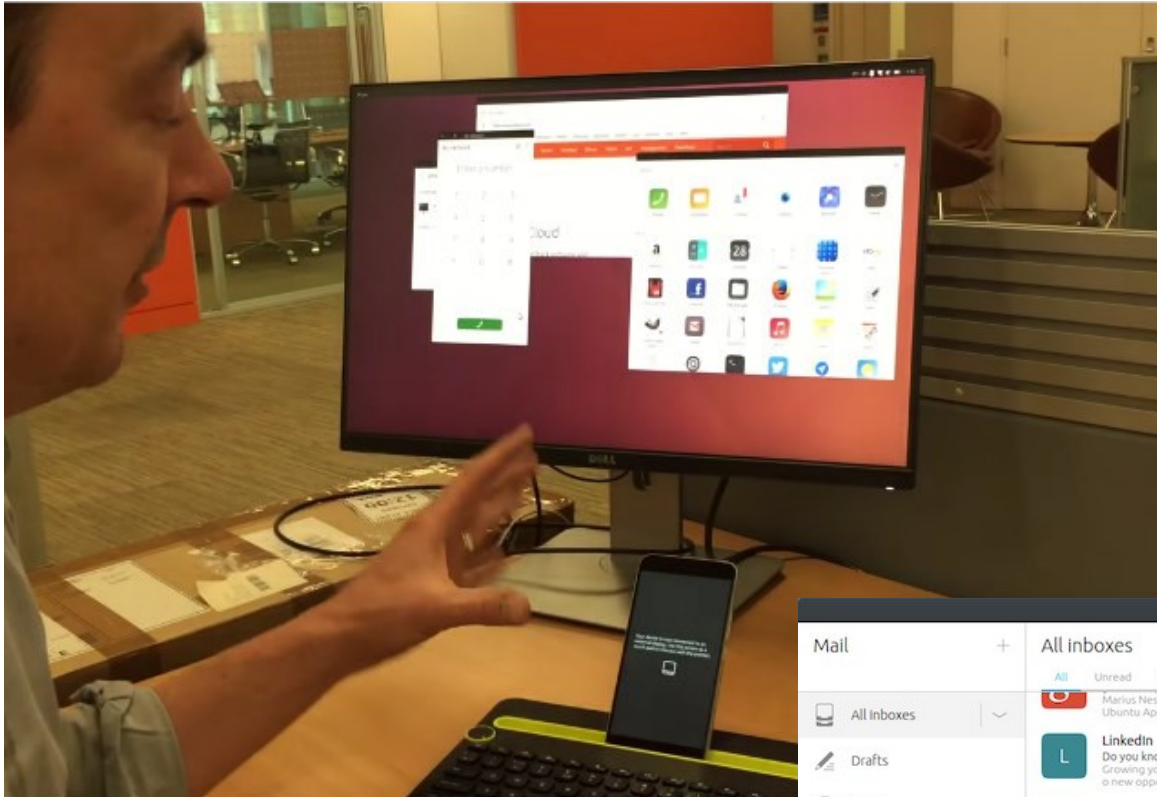| glibc | Hybris | upstart | Mir display server | D-Bus |

Kernel

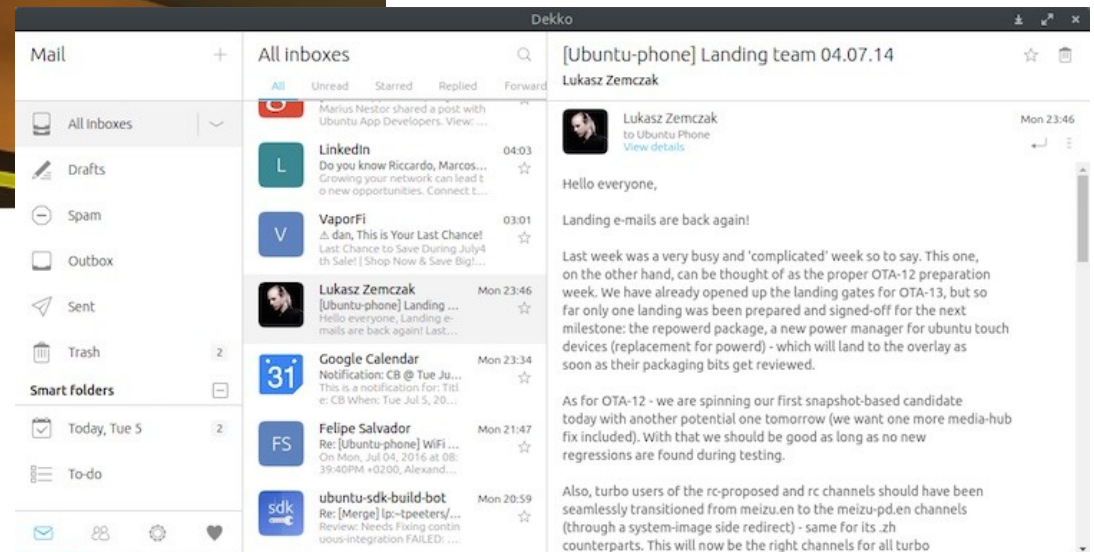# Convergence

Same OS on multiple devices

Convergence

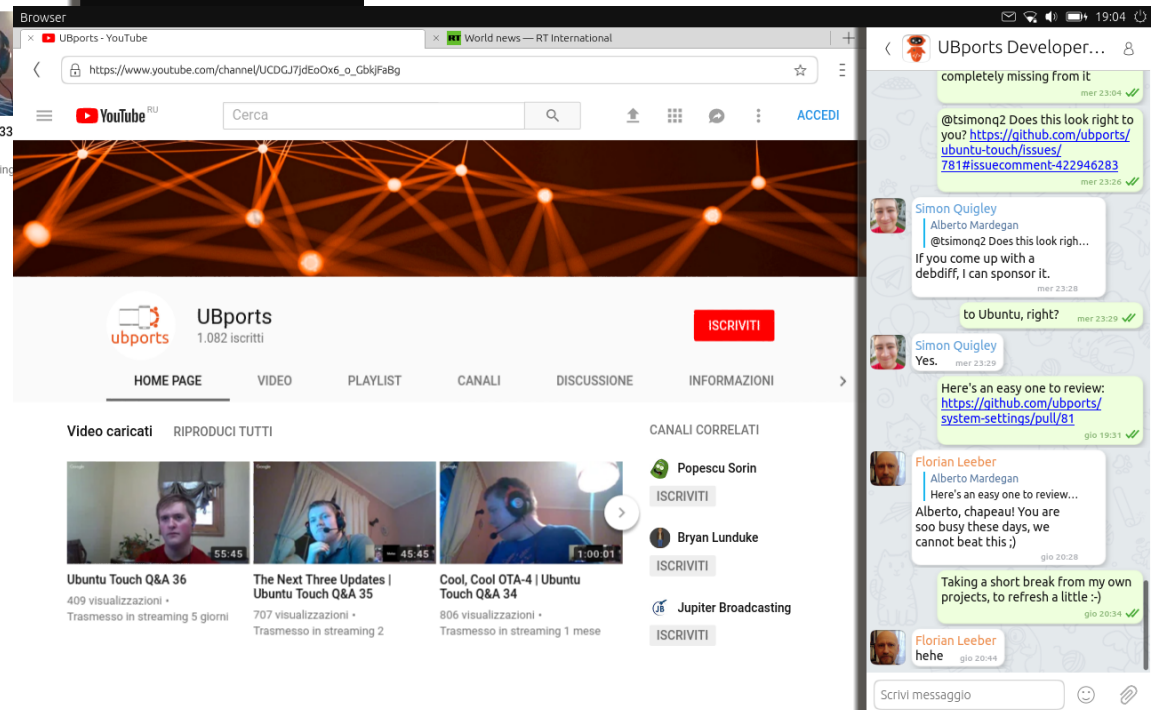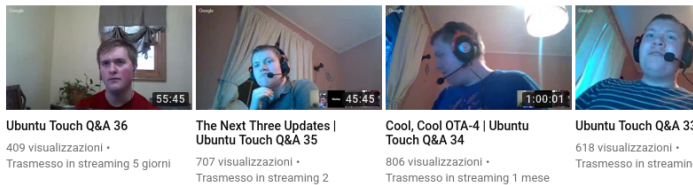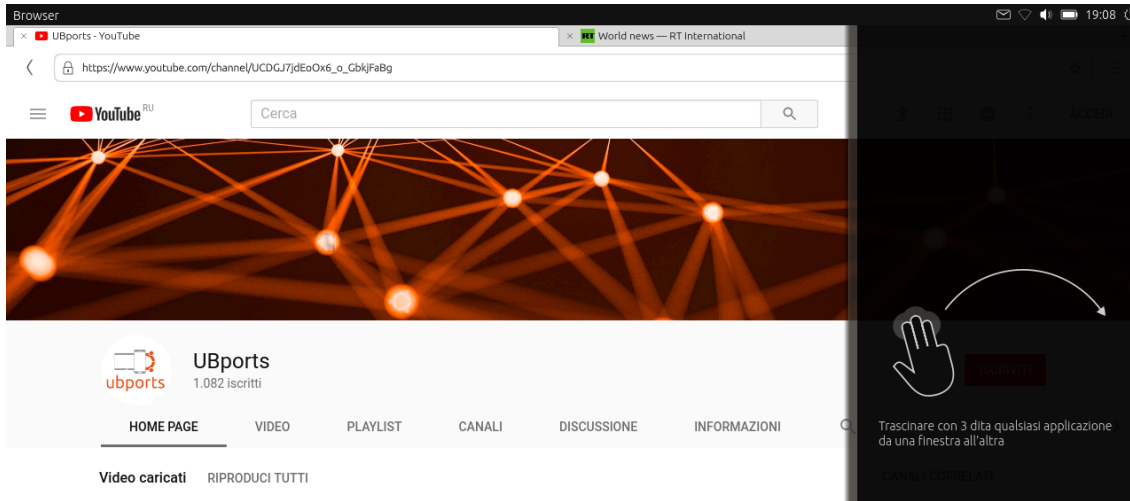The **same device** powers the user experience in different form factors
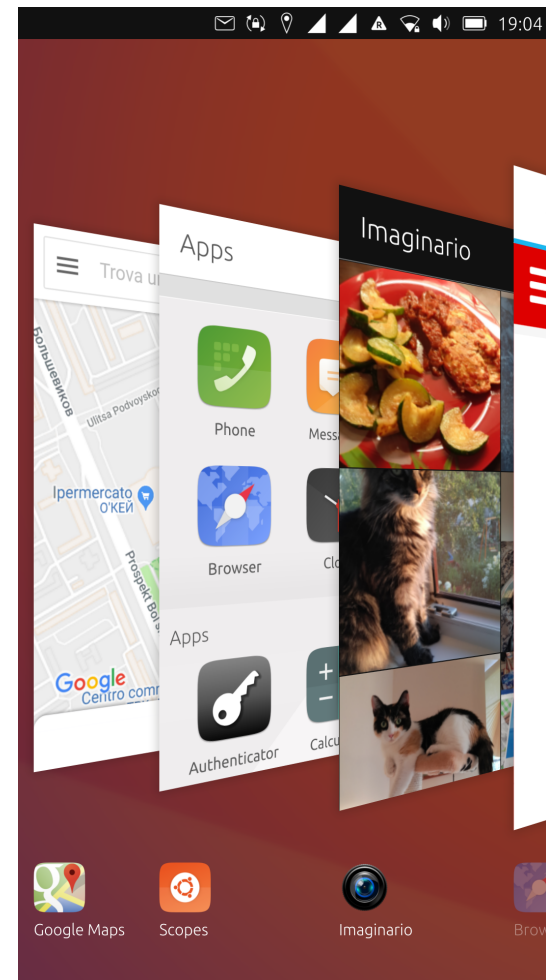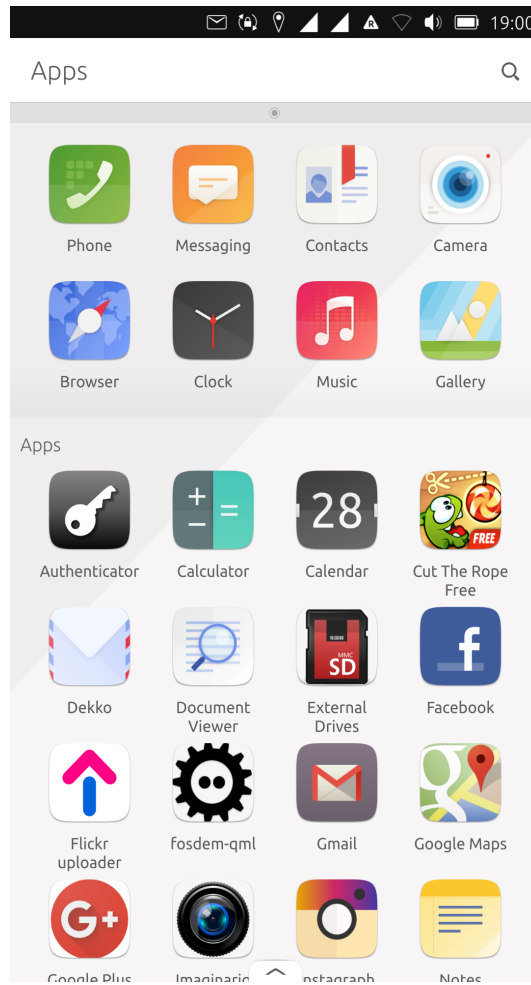
Adaptive user interface

On tablets

Unity 8

- QML
- Scalable

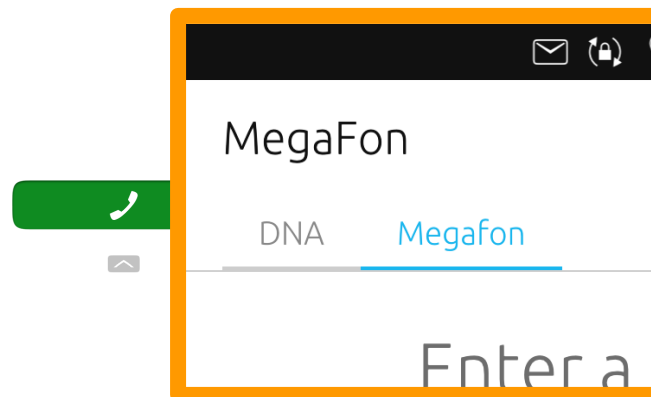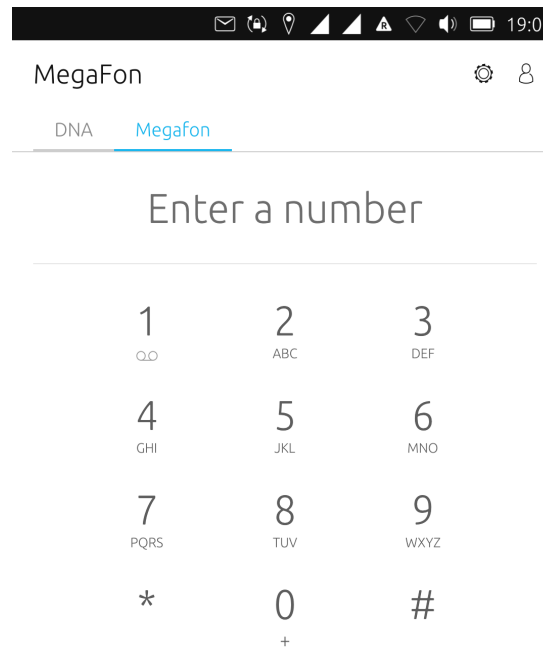# Dual SIM

Files | Location | Bluetooth | Network | Sound

Flight Mode

Cellular data

SIM 1
DNA (Beeline) ◢ Roaming ⒜

SIM 2
MegaFon ◢

Hotspot

Mobile settings… ⚙

Wi-Fi

Wi-Fi settings… ⚙

Cellular data

SIM 1
DNA (Beeline) ◢ Roaming ⒜

SIM 2
MegaFon ◢

Hotspot

19:01

MegaFon ⚙ 👤

DNA | Megafon

Enter a number

1 ⌒⌒	2 ABC	3 DEF
4 GHI	5 JKL	6 MNO
7 PQRS	8 TUV	9 WXYZ
*	0 +	#

📞

⌃

MegaFon ✉ 🔒

MegaFon

DNA | Megafon

Enter a

19:02

‹ MCHS 👤+ 📞

DNA | Megafon

12/09/2018

ФГБУ «Северо-Западное УГМС» прогнозирует: в ближайшие 1-2 часа в Санкт-Петербурге местами ожидаются грозы с ливневыми дождями. 13.09 местами ливни, порывы ветра 15-20 м/с. Будьте внимательны и осторожны!

22:45 @ Megafon

13/09/2018

МЧС ПРЕДУПРЕЖДАЕТ! По данным ФГБУ "Северо-Западное УГМС" на территории Лен.области 14.09.2018 в отдельных районах ожидаются ливни, грозы. Воздержитесь от посещения лесов и водных объектов! Будьте внимательны и осторожны!

16:25 @ Megafon

16/09/2018

…Западное УГМС» …в ближайшие 1-2 …тербурге …ется гроза. …льны и

19:58 @ Megafon

…ssage… 🎤

Container model

Old container model

Android kernel

Android system

Container running Ubuntu

App

App

App

App

New container model

Android kernel

Ubuntu OS

Container running
Android services

App

App

App

App
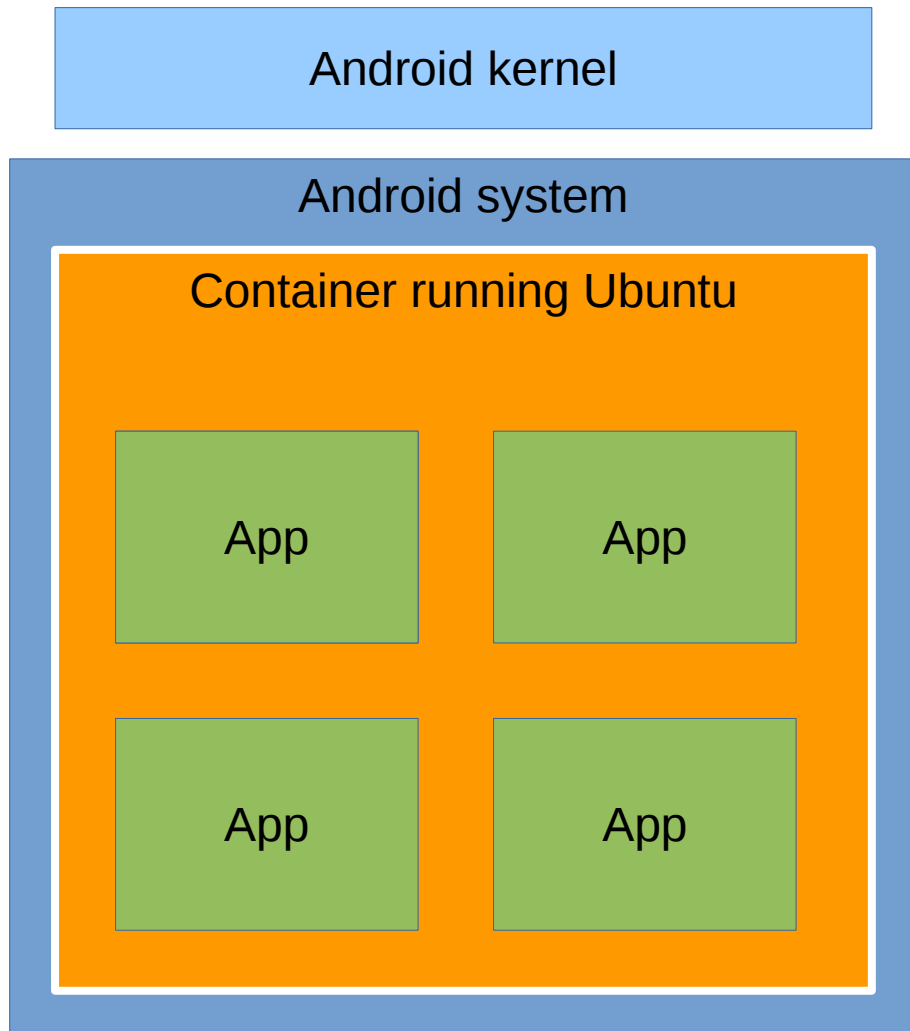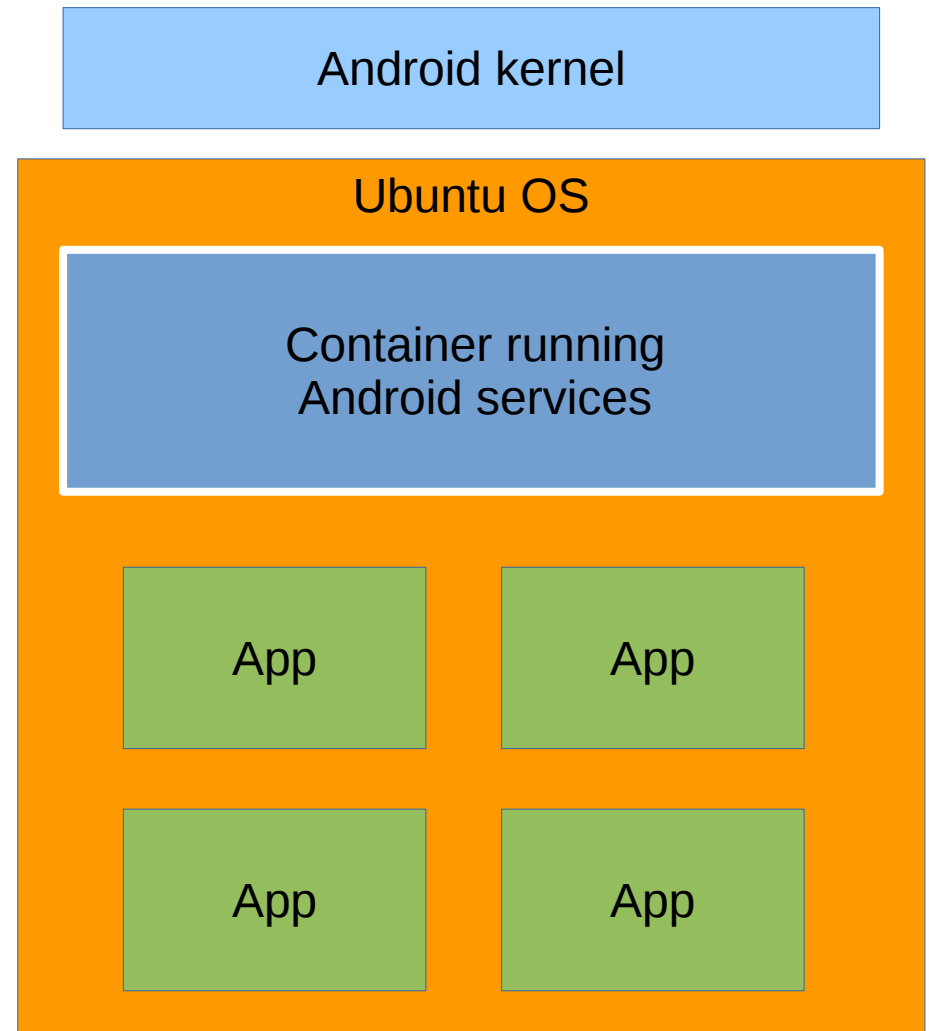
Security model

- Applications are confined by AppArmor

- Manifest file to declare required resources

```
{
  "policy_groups": [
    "calendar",
    "contacts",
    "location"
  ],
  ...
```

- Resources are granted by the user at the time when they are needed

- Applications exchange data by using the ContentHub

Data sharing between applications
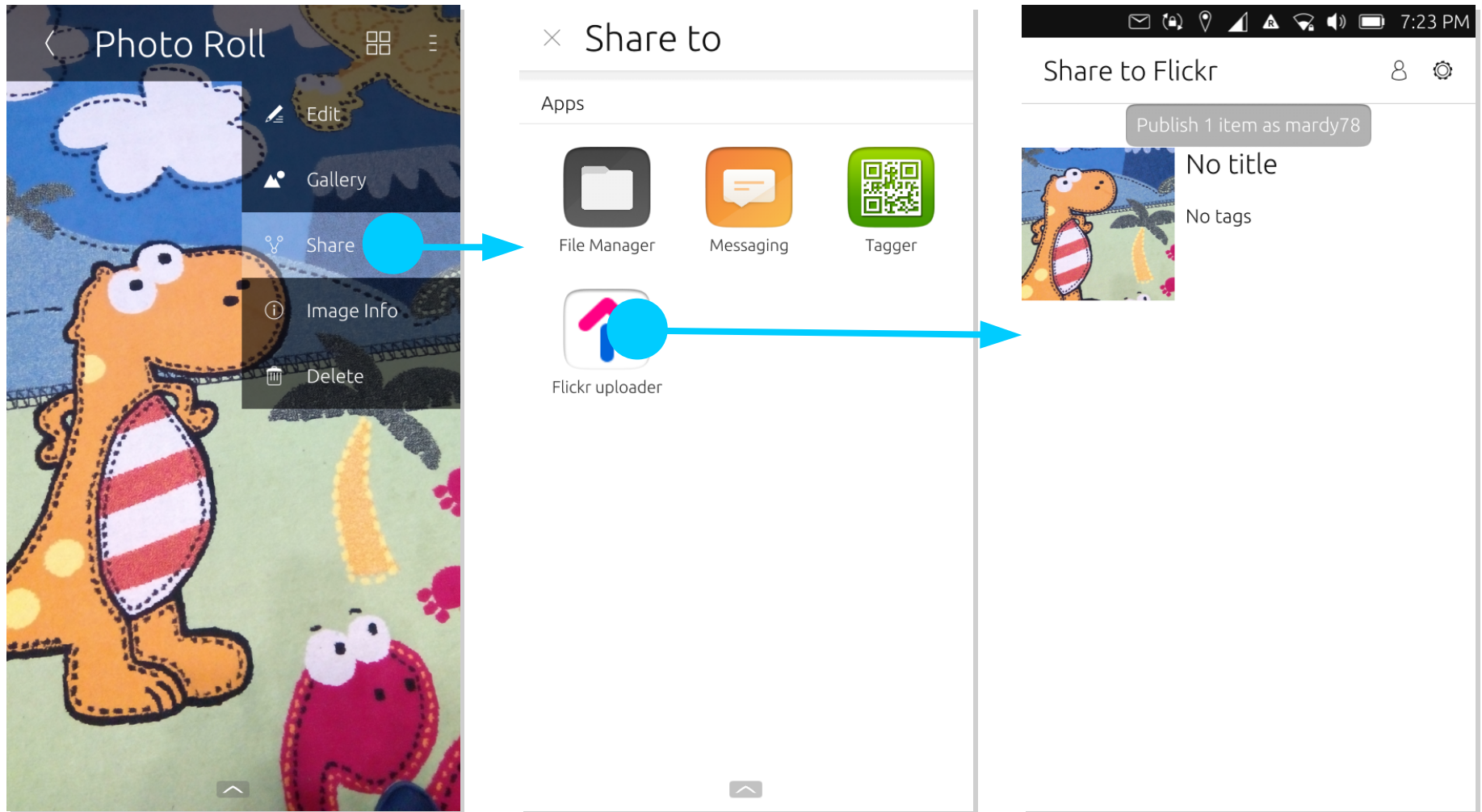
Power management

- Applications are stopped (yes, SIGSTOP!) while in the background

- Need to use platform services to perform long-running tasks (MediaHub, DownloadManager)
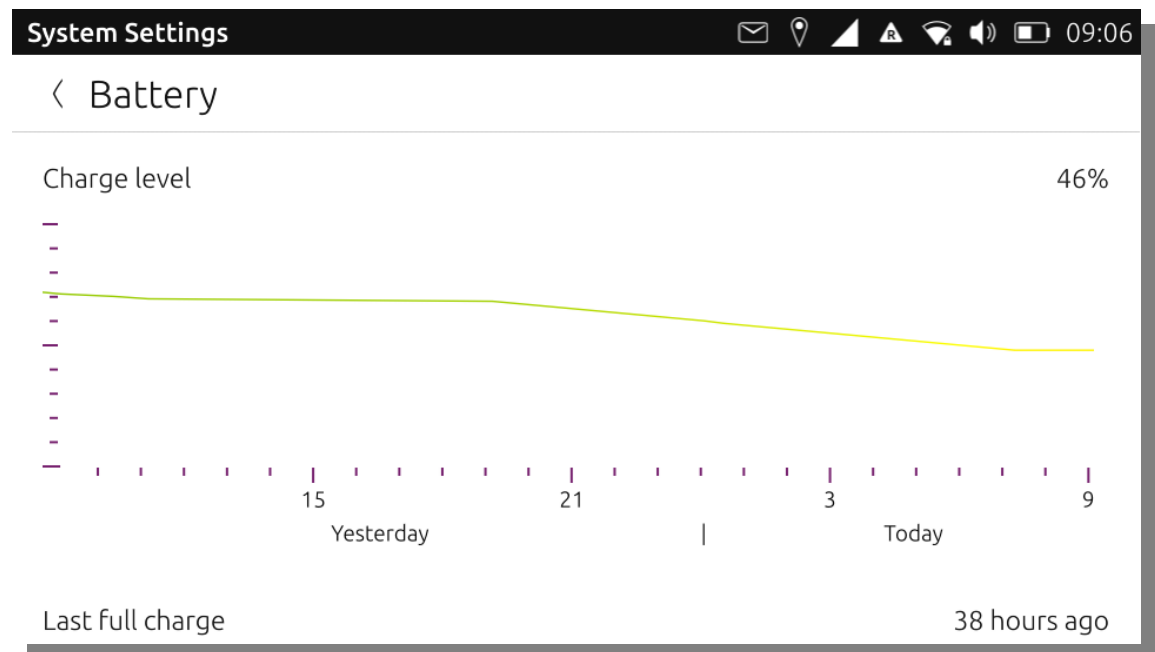
`click` packaging format

- dpkg-like, but without scripts

- Depend on a single framework
  (e.g. `ubuntu-sdk-16.04-qml`)

- All extra dependencies must be included

New in Ubports:

`clickable`: a Docker-based build tool

April 7th, 2017

- Canonical cancels the project
  - Unity8
  - Oxide (browser engine)
  - click
  - Application store
  - Push server

Ubports

- Born as unofficial ports of Ubuntu Touch
  - Fairphone 2, OnePlus One
- Drives the UT project since April 2017:
  - 4 OTAs
  - CI (Jenkins, GitHub)
  - OpenStore
  - Installer

CI (Jenkins, GitHub)
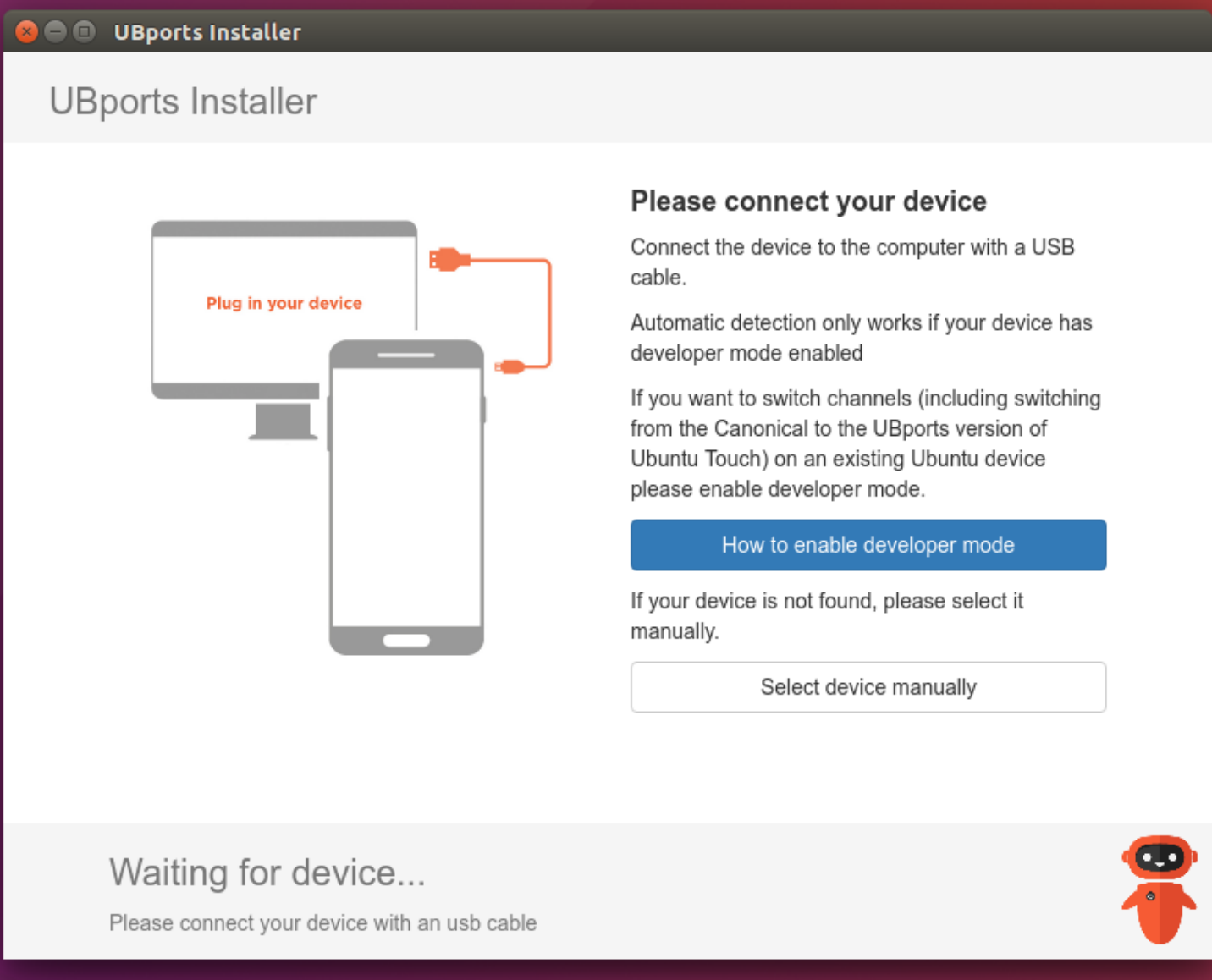
OpenStore

Ubuntu Touch Apps

Search	Category	Type:	Sort By:	More Filters
	All Categories	Apps	Newest	+

Switch Reloaded `App`
A simple game about linear algebra [16.04 only]

speedometer `App`
Speed meter

uDiaspora WebApp `App`
A simple diaspora webapp

WhatsappWeb `App`
WhatsappWeb implementation in QtWebEngine.

Volleyball 2D `App`
Volleyball 2D game

Xompass `App`
simple compass app

500px `App`
Unofficial 500px webapp for Ubuntu Touch

uText `App`
Basic text editor

Zimbra `App`
Unofficial Zimbra App For Ubuntu Touch

Budapest Schedules `App`
Public transport schedules in Budapest, HUNGARY

Sakawochi `App`
The micro aquarium that fits into your pocket

iQuit `App`
Help to stop smoking

theGrid `App`

Fatburners `App`

VPN editor `App`

Graphical installer

Ubports foundation

- Promotion of Ubports
- Donations
- 1 full-time, 2 spare time developers

Community
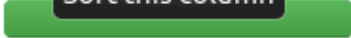
- > 200 ★ in GitHub
- ~ 1000 bugs filed, 60% fixed
- > 1700 users in the telegram group
- ~ 2000 forum users since 2017

New developments

- Xenial

- `clickable` for application development

- power saving

- libertine

- QtWebEngine

- QtQuickControls 2

- Qt 5.9 (faster Unity8 and apps)

- pyotherside

- Q&A scripts for testing

- new keyboard layouts (swiss french, Turkish, fixes to many others)

- new sounds and wallpapers

- Anbox

Translations

translations.ubports.com

Language	Translated		Words	
Czech		100.0%		100.0%
English		100.0%		100.0%
English (United Kingdom)		100.0%		100.0%
French		100.0%		100.0%
Spanish		100.0%		100.0%
Italian		99.9%		99.9%
Portuguese		99.9%		99.9%
German		99.8%		99.9%
Norwegian Bokmål		99.3%		99.7%
Russian		98.6%		99.2%
Dutch		97.5%		98.2%
Esperanto		97.1%		95.1%
Polish		96.7%		93.8%
Finnish		96.2%		92.5%
Indonesian		91.2%		92.1%
French (Canada)		90.4%		90.4%

Sort this column

g

Roadmap

Oct 12th, 2018	• ~~OTA-5: Switch to QtWebEngine, fix scaling issues~~
Nov 6th, 2018	• OTA-6: Bugfix release
Jan 4th, 2019	• OTA-7: New Hybris, sensors lib and Qt 5.9.7
Mar 1st, 2019	• OTA-8: Latest Mir (with Wayland) and Unity8
May 3rd, 2019	• OTA-9: Anbox preinstalled, snap support

How can I help?

- Port to new devices (halium.org)
- QA (bug triaging, testing)
- Documentation (writing and infra)
- Translations (translate.ubports.com)
- Spread the word
- Write apps!

Got questions?

- forums.ubports.com

- Me:
  - blog.mardy.it
  - mardy.livejournal.com (по-русский)
  - E-mail: info@mardy.it
  - Twitter: mardy78

LINUX
PITER