How Maemo approaches Open Source

Quim Gil – Maemo Summit 2008

Key drivers

Open source is the recommended option. Closed source for differentiating areas. Hybrid architecture to mix and match OSS and proprietary software.

Real-time alignment and collaborative development within upstream open source projects.

Partnering and leading contribution with key OSS projects and companies to shape the industry with Open Source.

Independent community sponsored by Nokia able to contribute and innovate in our platform through usual OSS tools and ways of working.

OPEN SOURCE is the recommended option.
Closed source for differentiating areas

WHY
Easier
Faster
Better
Cheaper
Scalable

HOW
Agile
Beta mode
Release soon
Release often
Openly

WHERE
Dev. tools   OSS
Core
Middleware
Frameworks
Runtimes
UI
Applications   NOKIA DIFFERENTIATION

WHO
Direct collaboration with top class projects

debian

mozilla FOUNDATION

gstreamer

SQLite

NOKIA

maemo.org

Telepathy   + more

Industry partners   freedesktop.org

MAMONA   + many more

Sponsored community open to all players

Where Open Source is deployed

Target high level architecture:

- 3rd party applications
- Nokia Applications
- Maemo Base & Middleware
- Application & UI Framework
- Runtimes
- Debian Base
- Hardware Adaptation Interfaces
- Hardware Adaptation — Linux kernel

Nokia proprietary SW   Open source software
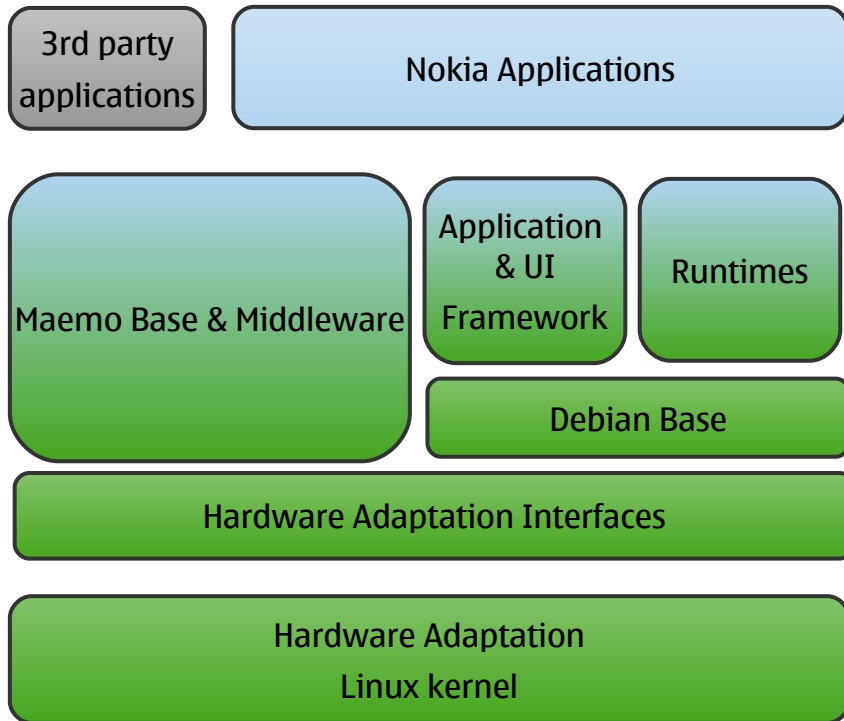
- Architecture consistent mainly of OSS with differentiation in upper layers.
- Recommended use of Open Source. Closed source focus in differentiating areas.
- 100% OSS is not a goal per se.
- 80/20 as rule of thumb for the whole stack, including Nokia applications.
- Proprietary 3rd party technology enablers
- Nokia proprietary differentiators
  - Application UI
  - UI style
  - Seamless connectivity
  - Power and energy management
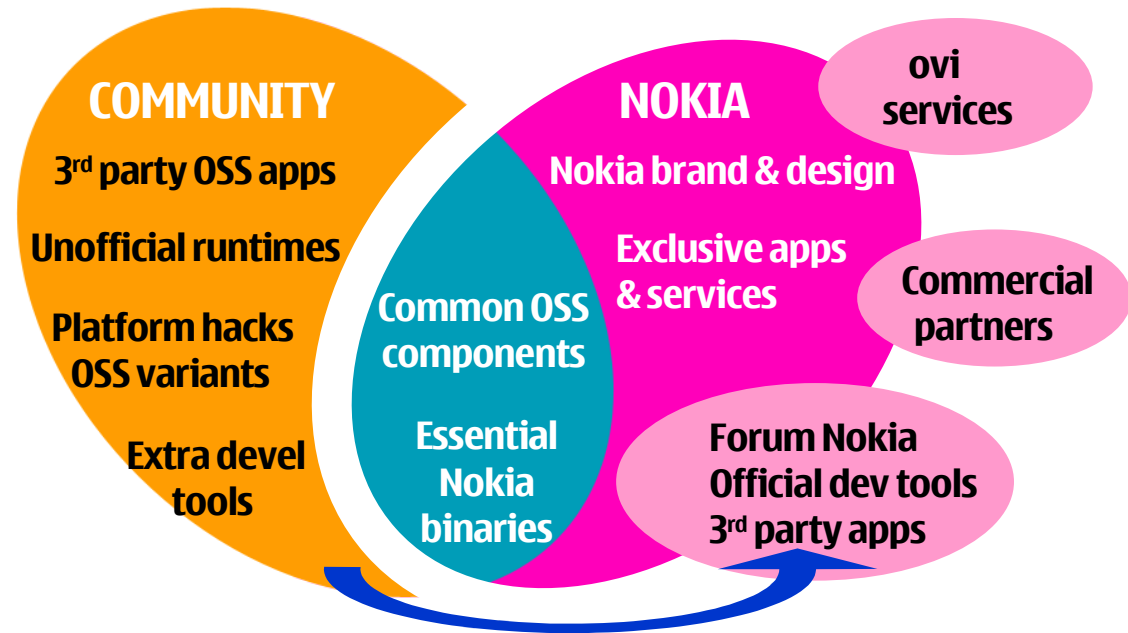- Open and free of charge developer tools.

NOKIA
Connecting People

Release soon, release often

Internal development

Internal roadmap

⭐ Alpha ⭐ Beta ⭐ Final release

Intentions · Vision · Release plan

OSS roadmap

Open development

community roadmaps

Fresh code released

Bugs Feedback

Fresh upstream code

Contributions upstream

Bugs & Fixes

Upstream development

OSS upstream roadmaps

NOKIA
Connecting People
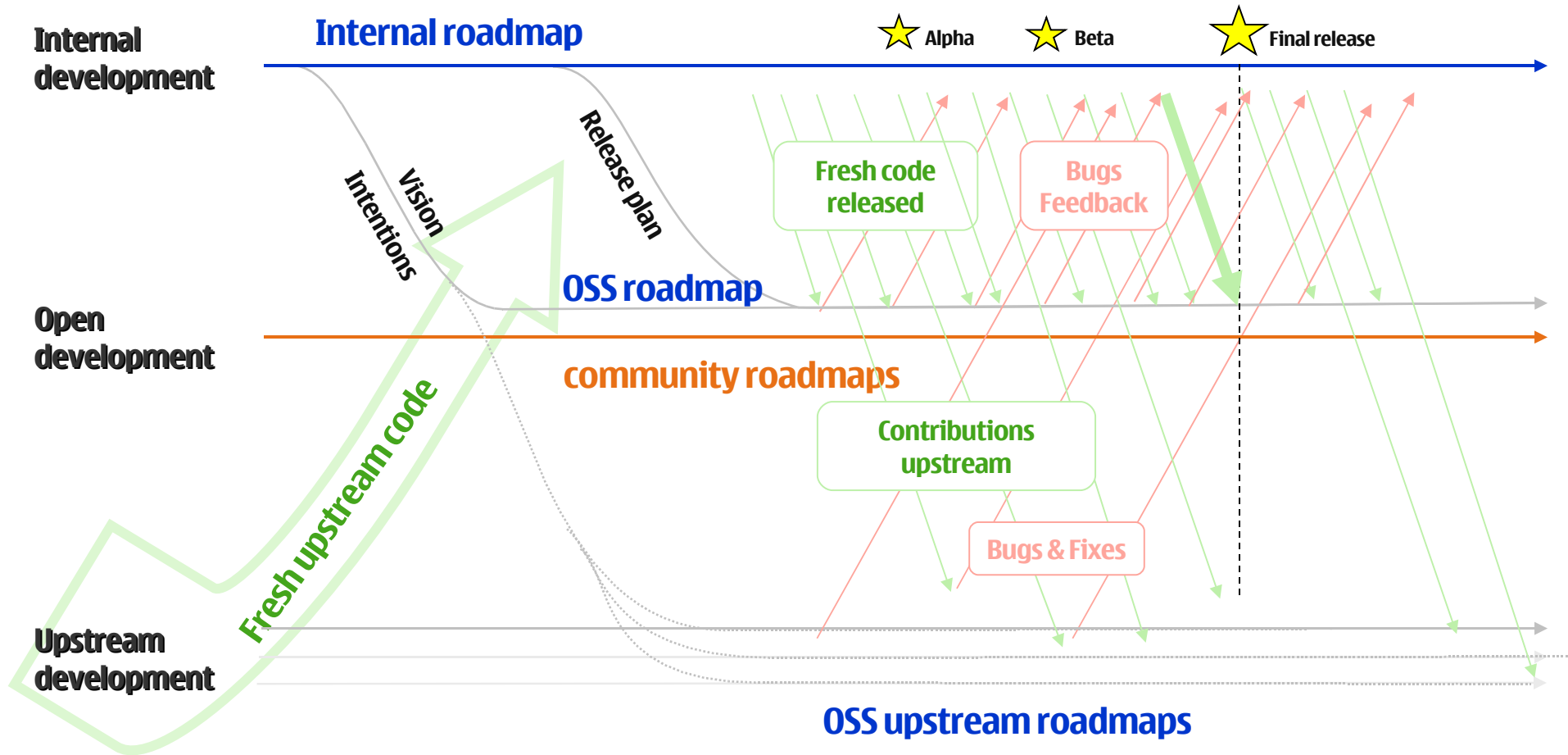
A collaborative environment

Freedom for OSS success

- **Code available as alpha**
- **Weekly releases**
- **Platform stabilization**
- **Application innovation**
- **SDK for PC emulation**

COMMUNITY

3rd party OSS apps

Unofficial runtimes

Platform hacks
OSS variants

Extra devel
tools

**Common OSS
components**

**Essential
Nokia
binaries**

NOKIA

Nokia brand & design

Exclusive apps
& services

ovi
services

Commercial
partners

Forum Nokia
Official dev tools
3rd party apps

Best Of Breed gets promoted

Combining internal processes with OSS practices

- **No duplication: Nokia maintains its packages openly as part of our R&D process**
- **Bigger input: the community contributes testing & software**

Direct collaboration with OSS upstream projects

- Upstream is where the stuff really happens.
- Promote alignment with upstream projects and project umbrellas: Debian, freedesktop.org, GNOME, KDE.
- Support other relevant organizations: Linux Foundation, Free Software Foundation.

BlueZ	D-Bus	GStreamer	GTK+	GUPnP
Linux Kernel	Mozilla	PulseAudio	QEMU	Scratchbox
Telepathy	tinymail	Tracker	upstart	X.org

...and many more components in use with minor contributions and bugfixing:
http://wiki.maemo.org/Task:Upstream_projects

NOKIA
Connecting People