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## Case Study: Nokia

In 2005 we started to become involved in the [Maemo](#) platform now known as [MeeGo](#). The platform was built for the Nokia internet tablet devices from the Nokia 770, N800, N810 and the N900 (the first device to be released as a phone). Lanedo's experienced developers have been helping Nokia since the beginning to develop several core projects ranging from middle-ware infrastructure such as [D-Bus](#), [GLib](#), [GTK+](#) and [Tracker](#) to applications like the Backup and Search products.

### GNOME Development

GLib has played a big part in the platform, providing most of the filesystem functionality for applications. Earlier in the platform, we were involved in supporting bug fixing for a multitude of issues and feature requests such as [inotify](#). We have continued to develop and improve various GNOME technologies used in the platform by Nokia. Among other things, we developed the Bluetooth back-end for GnomeVFS, making it possible to browse your phone's filesystem from the internet tablet. These days development focuses on [GIO](#) and [GVFS](#) which replaced GnomeVFS. We continue to help Nokia to support these core technologies.

### Application Development

With a strong background in GNOME application development, our developers were chosen to work on two important applications for the internet tablet. These projects involved collaborating with Nokia's UI designers to design and develop the applications from the ground up. As time passed, we became increasingly more involved in the lower level development, helping to maintain a solid framework for applications to build upon.

### GTK+ Development

The GTK+ library and its ecosystem have been supported by Lanedo since the Nokia 770 to the N900. Over the years, more GTK+ developers joined the Lanedo team and we extended our services in this area.

Nokia was quick to realize the potential in working with our developers to move their customized version of GTK+ closer to the community version. The work that was started in 2006 has consisted of breaking up the 50000 line patch into manageable chunks and iterating over these to rewrite them to meet the GTK+ standards as well as solving the integration of new features. All of this was done without GTK+ breaking its binary interfaces within a major release cycle.

What started with a simple plan of integrating the [Maemo GTK+](#) changes into the community version grew into Lanedo maintaining and taking care of all major changes in Maemo GTK+. This involved upgrading to newer versions of GTK+, solving difficult toolkit bugs, improving performance and memory management, developing new functionality and enhancing existing features.

### Tracker Development

In late 2007, Lanedo researched possible solutions for indexing user's data on their devices. Since then, our developers have been centrally involved in the project for Nokia. Right now it supports 20 built-in file type extractors including over 37 [mime types](#) (6 of which are generic and work with frameworks like [GStreamer](#)). Tracker continues to integrate and push the latest technologies around it, including [Vala](#), D-Bus, GLib and more. The project recently gained in popularity to become more widely used in distributions. Intel also decided to start using Tracker in their [Moblin](#) platform before MeeGo was announced between Intel and Nokia.

