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TIEA255 Tietotekniikan teemaseminaari

Case MeeGo

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Content

Mobile platform in the past and now

Road to MeeGo

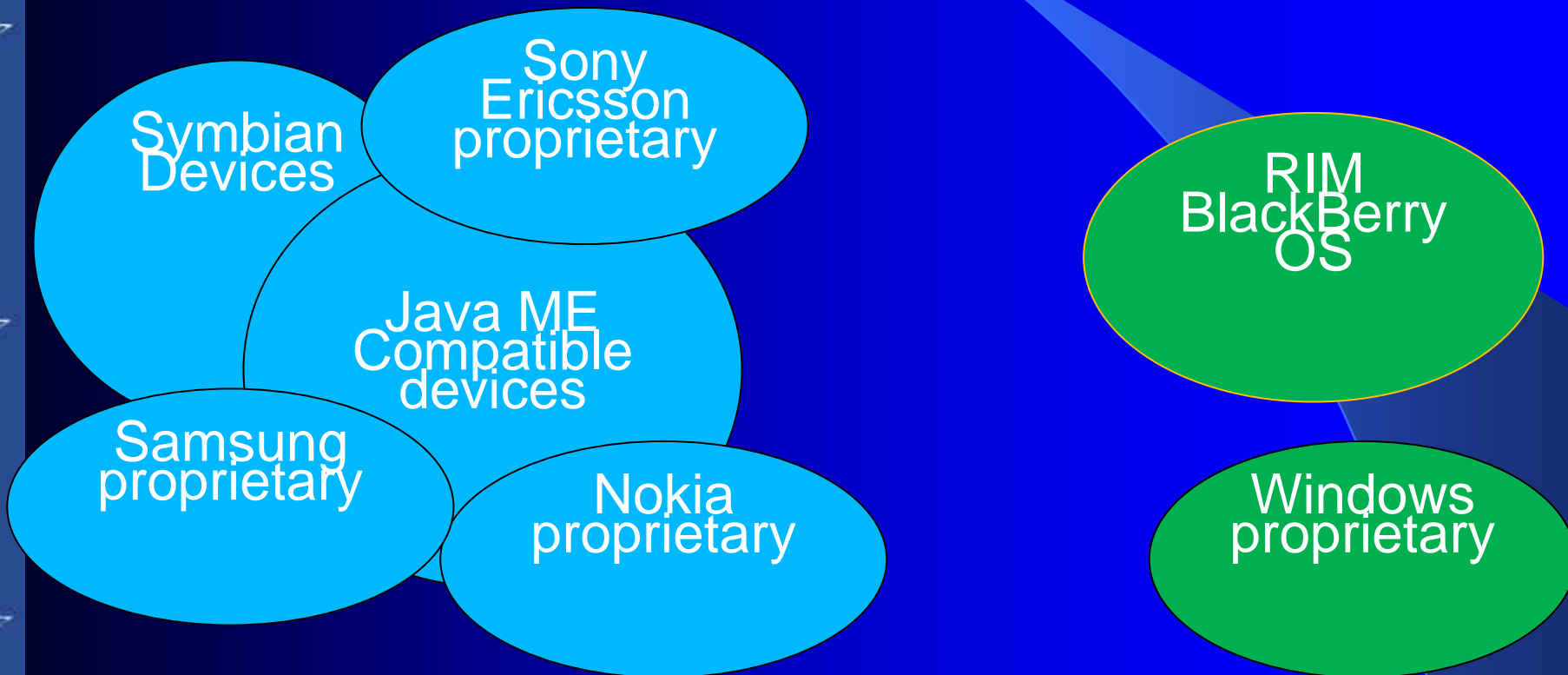
Qt

MeeGo itself

Related work in Jyu Telecommunications lab

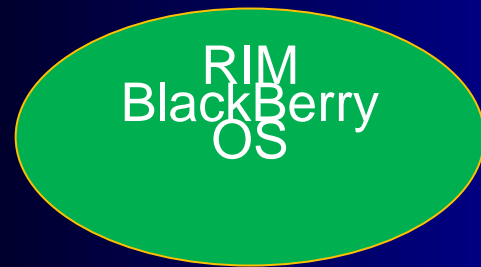
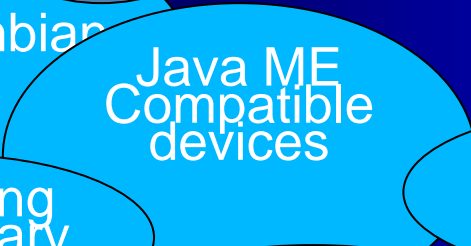
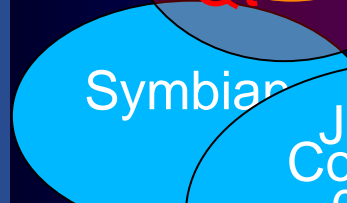
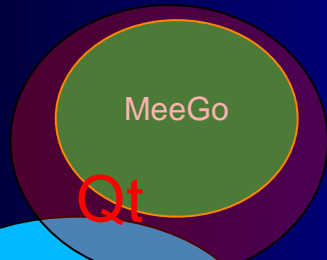


Mobile platform development in the past





Mobile platform development nowadays





Road to MeeGo



Nokia 770 shipped with "Internet Tablet OS"

Nokia N800

Nokia N810

July 2007
Moblin.org introduced

April 2008
Launch of Intel Atom processor family. Moblin targeted for Atom netbooks

Maemo 4.1 Diablo released.



Nokia N900 shipped with Maemo 5 Fremantle.

Some Netbooks with Moblin as a preinstalled
LG GW900 smartphone with Moblin – however it remained as a concept device

Intel and Nokia merge Moblin and Maemo to form MeeGo at Mobile World Congress 2010



Qt and MeeGo

- Qt (*"cute"*) is a cross-platform GUI framework + a variety of engine libraries
 - Set of cross-platform APIs
 - C++ class library
 - Development tools
- Qt for MeeGo
 - Qt port on the top of X11
 - Because Qt has been ported to X11, it is rather straightforward to configure the port to run on the top of MeeGo middleware. Widgets must be styled to have native MeeGo look and feel.

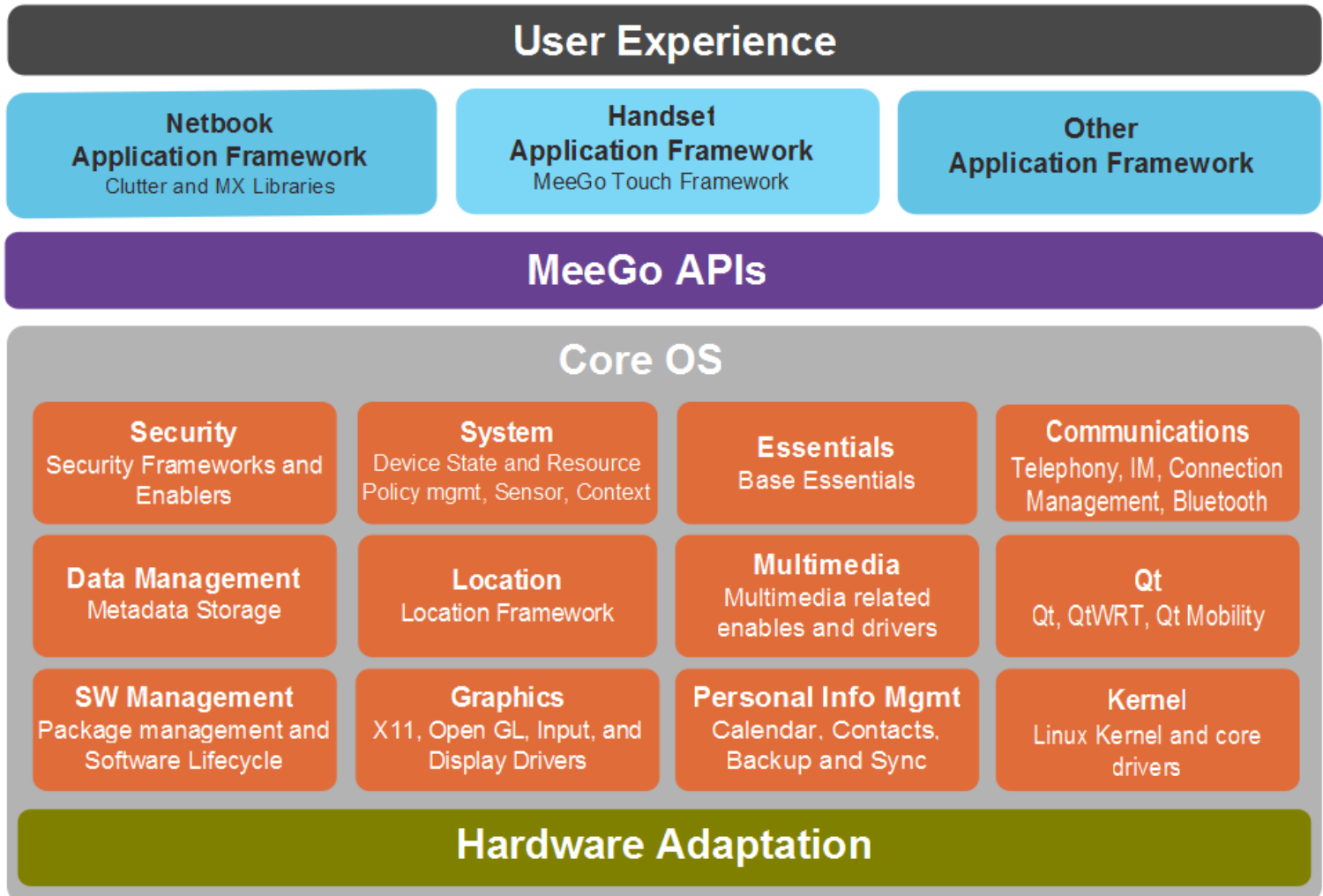


MeeGo itself: general

- MeeGo is an open source, Linux project which brings together the Moblin project, headed up by Intel, and Maemo, by Nokia, into a single open source activity
- MeeGo currently targets platforms such as netbooks/entry-level desktops, handheld computing and communications devices, in-vehicle infotainment devices, connected TVs, and media phones (profiles)



MeeGo itself: Architecture



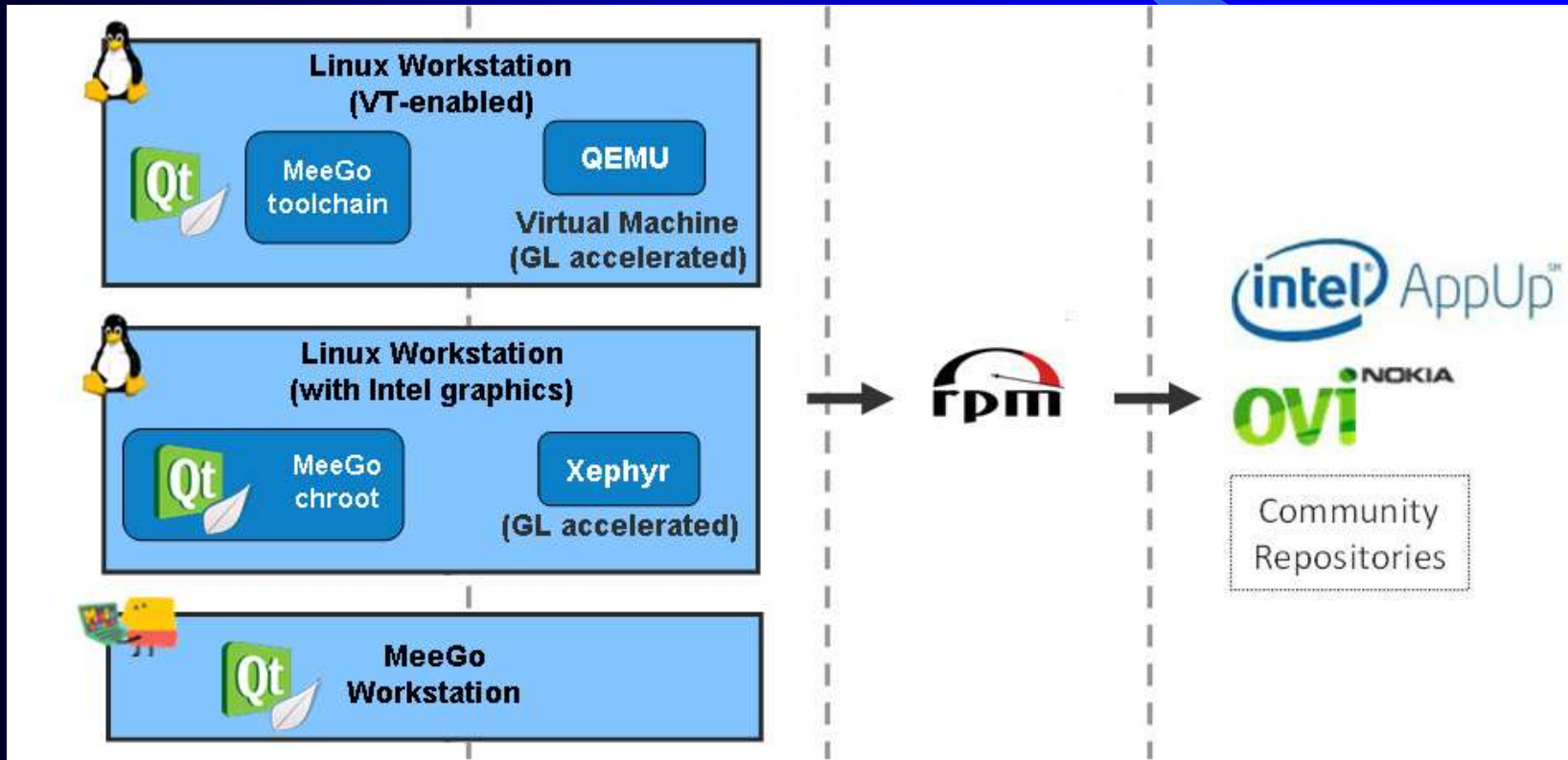


MeeGo itself: Profiles

- MeeGo has common core and profiles to support more specific devices:
 - Netbook – first version available since MeeGo v1.0
 - Handset – first version available since MeeGo v1.1
 - In-Vehicle, Connected-TV, Media phone profiles are not available yet
 - Next MeeGo release scheduled for April 2011 (v1.2)



MeeGo itself: Development (note this picture was deleted from MeeGo wiki at 20.01.2011)





MeeGo itself: the future

- Unknown – at least until "Evening with Nokia" at pre-Mobile World Congress 13.02.2011
- However "For a while we will not be pushing changes to the MeeGo style branch of Qt components, as we are busy finalizing it and are unable to make certain pieces of the final user experience public." taken from Qt developer blog at 31.01.2011 (<http://labs.qt.nokia.com/2011/01/31/well-be-right-back/>)

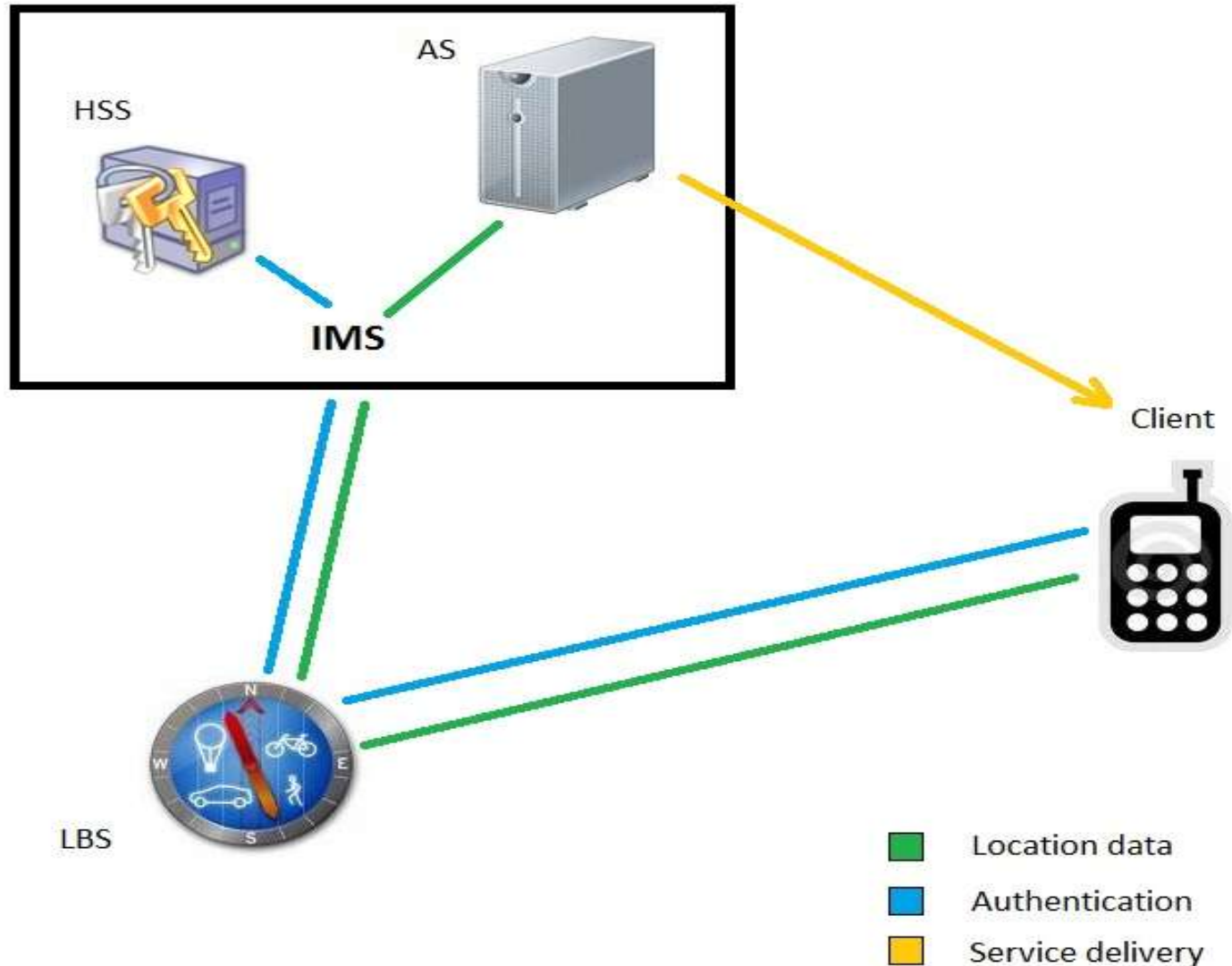


MeeGo itself: links

- [MeeGo Wiki](#)
- [MeeGo Developers](#)
- [Handset UI guidelines](#)
- [Qt](#)
- [Qt Quick](#)



Related work in Jyu Telecommunications lab: Location Based Service System architecture





Thesis

- Creation of Location Based Services by using open Internet standards – *what are the general requirements for LBS service, how to add more services in addition to existing ones, what are user's/operator's requirements*
- Spatial data analysis for the location-based services within IP Multimedia Subsystem
 - Created IMS application server
 - Finding a pattern from users movement – deployment of services based on this information



Currently: Lipa project (Liikkuvuus ja palvelut IP-verkossa – Mobility management and service in IP networks)

- Project lifespan 1.1.2011 – 31.12.2012
- Spin-off project of Tiepal. Support for ongoing actions and research on vertical handovers between systems and its affects on existing and new services.
- Planned research topics:
 - Always Best Connected (ABC): bringing intelligence to the network selection on behalf of the User and Service. Topic covers many aspects: link selection algorithm accompanied with parameters and profiles. (Ways to improve vertical handovers)
 - Continuous support for existing pilot usages of the Open IMS and Tiepal LBS
 - User authentication in IP networks with new and existing devices
 - Cloud computing and ABC, what are the requirements from ABC part?
 - Further development of Tiepal LBS