

MeeGo For Everyone

Creating MeeGo products and why we all love it

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NOMOVOK

Nomovok – In a Nutshell

- Products build on Open Source tech
#1 MeeGo ARM integrator
- Pioneer in Embedded Open Source
Pioneer in commercial utilization of Open Source in embedded devices. Since 2001, more than 400 OSS deployment project delivered
- Employs 140 Nomovok OSS experts
Focusing on integration, app development, optimizations, and complete device creation.
- Gateway to MeeGo companies
400 experts in Nomovok's ZCOCO.net community for best in the world Linux expertise to join and support MeeGo product creation. Easily to join the process through Nomovok (one contract – many suppliers model)
- Locations
Currently serving businesses in US, Japan, Germany, Finland, Taiwan and Korea.
- Complete MeeGo product deployments



MeeGo – In a Nutshell



- 100% open software platform
- Initiated by Intel & Nokia, but equally open for all
 - NOMOVOK deeply involved on architectural level
- Based on Linux and other mature OSS technologies
- For products from mobile phones to connected TVs and automotive systems
- New breakthrough technologies: QML, native build process

Nomovok and MeeGo

– Common history and future

- Nomovok has been working on MeeGo technologies for many years, and has working on overall MeeGo build and integration process last 2 years
- Currently Nomovok creating multiple different MeeGo devices
- Nomovok's role is to be integrator and main developer, customer creating devices by having just one partner interface.
- Nomovok can take care of all OSS community communication if so needed.



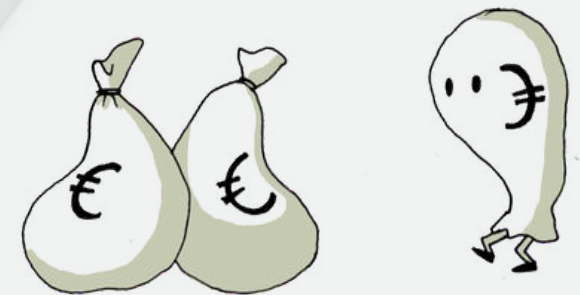
ARM + MeeGo Current Status



- Currently Nomovok has complete MeeGo 1.1. (stack (kernel/middleware/ QML based UX) running on following ARM platforms:
 - Renesas AP4,
 - STE U8500,
 - Freescale i.mx51,
 - TI-OMAP3
- MeeGo 1.1. (October 2010): Product ready, however some functions missing from mobility support
- MeeGo 1.2. (April 2011): Product ready for all categories

MeeGo – Strategic Position

- Unlike Android, MeeGo is fully community driver and not controlled by any individual company
- Unlike Android, no services are controlled/driven any individual company
- Strong developer story during H1/2011, based on easy to optimize UX for different UI form factors to prevent app fragmentation.
- Essentially leading into platform (up to UX) de facto standardization (kernel, drivers, and middleware)
- Strong position on UX differentiation
- Market window from Q2/2011



Next: More about MeeGo

February 15, 2010

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maemo.ORG

+

intel



moblin.org

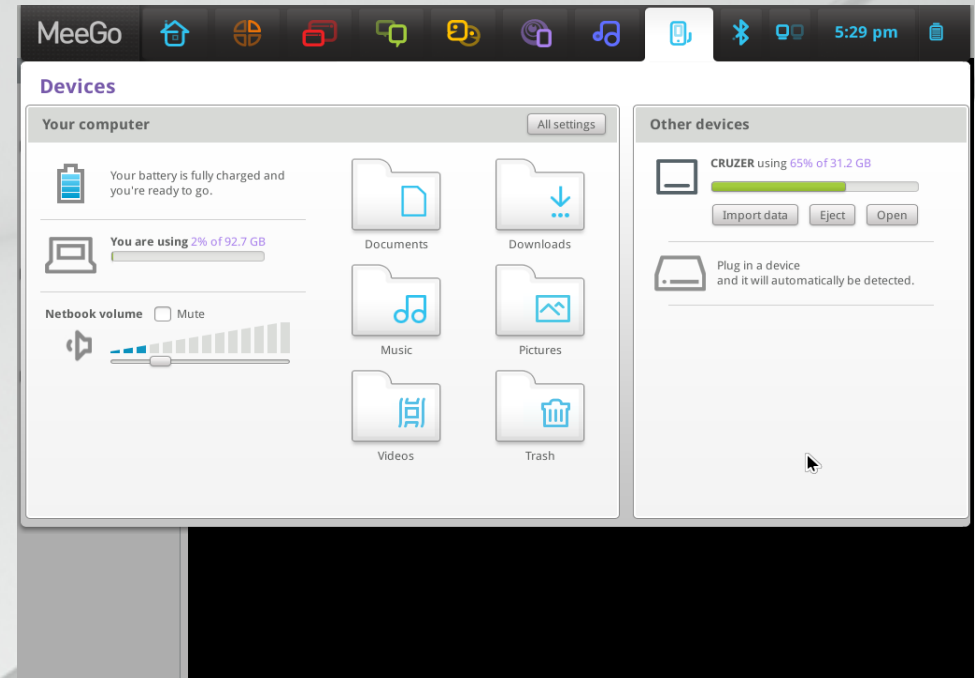
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THE
LINUX
FOUNDATION

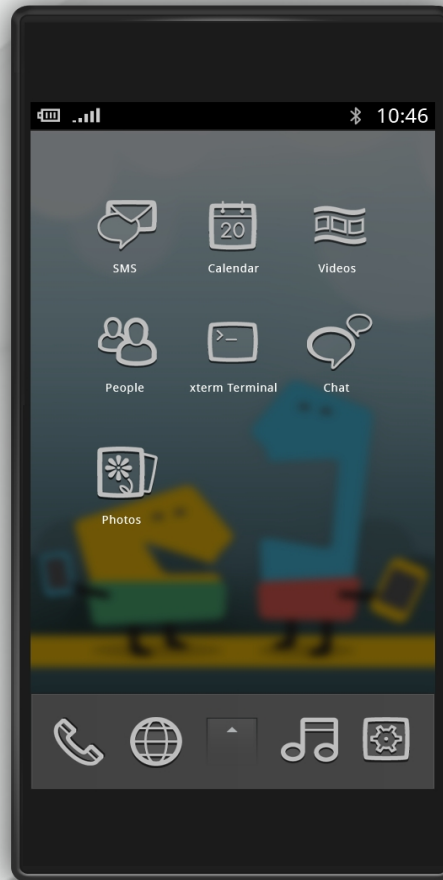
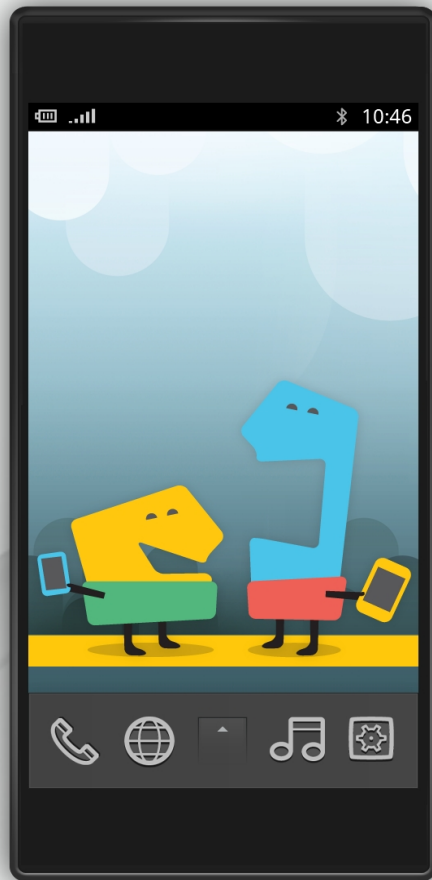
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MeeGo 1.1 Netbook Reference UX



MeeGo 1.1 Handset Reference UX



MeeGo 1.1 IVI Reference UX



User Experience

**Netbook
Application Framework**
Clutter and MX Libraries

**Handset
Application Framework**
MeeGo Touch Framework

**Other
Application Framework**

MeeGo APIs

Core OS

Security
Security Frameworks and
Enablers

System
Device State and Resource
Policy mgmt, Sensor, Context

Essentials
Base Essentials

Communications
Telephony, IM, Connection
Management, Bluetooth

Data Management
Metadata Storage

Location
Location Framework

Multimedia
Multimedia related
enables and drivers

Qt
Qt, QtWRT, Qt Mobility

SW Management
Package management and
Software Lifecycle

Graphics
X11, Open GL, Input, and
Display Drivers

Personal Info Mgmt
Calendar, Contacts,
Backup and Sync

Kernel
Linux Kernel and core
drivers

Hardware Adaptation

MeeGo UX Built on QT



- Qt based UX
- Qt based API
- Qt Quick
- Qt Mobility
- Qt SDK
- Primary distribution
- Release alignment
- Governance

Growing...

NOKIA



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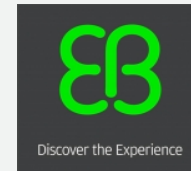
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NOMOVOK

Novell.

LINPUS™



COMARCH

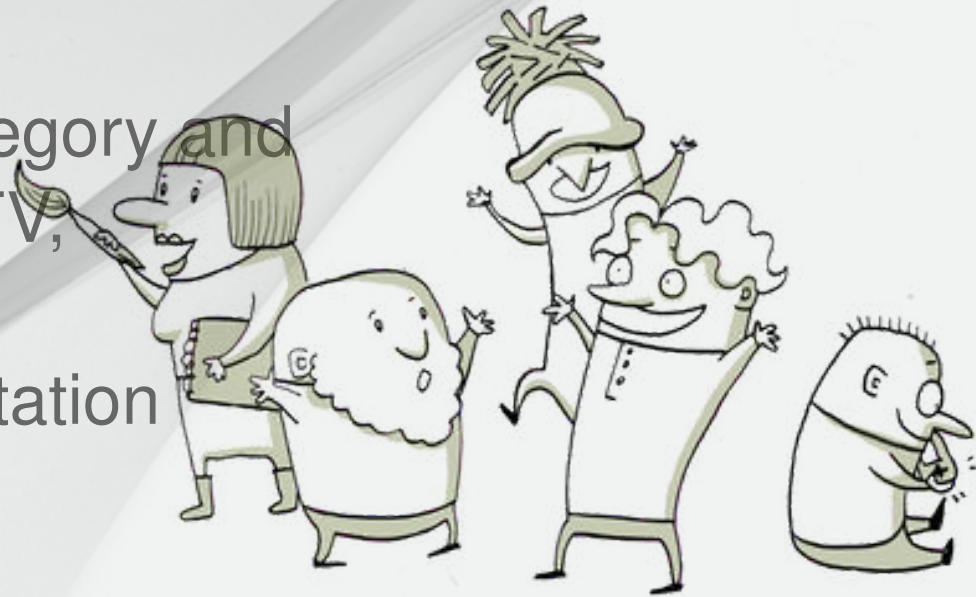


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MeeGo Developer Story

- New QML (JavaScript + XML) changes the app creation.
- Faster and easier to create small apps
 - QML measure to be 3x faster than traditional QT C++ app creation, still equal performance.
- Graphical complete SDKs to support app creation
- Apps easy to optimize product category and support different categories (e.g. TV, notebook and mobile)
- New ways to prevent app fragmentation
- Multiple channels for app sales



Next: Comparing MeeGo and Android

Development Model - MeeGo vs. Android

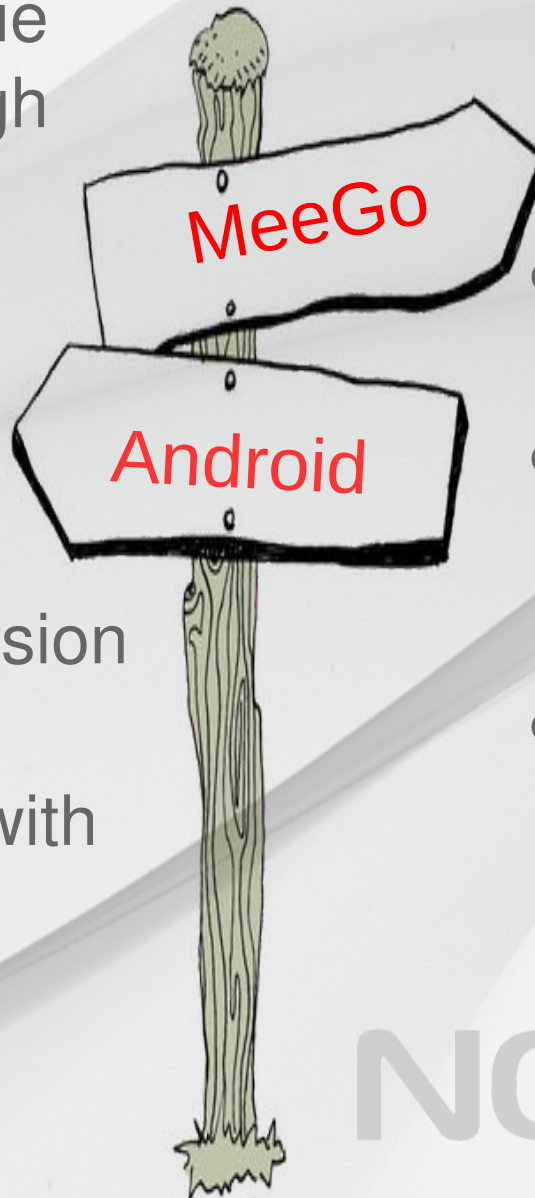
- Feature planning and roadmapping by Google
- Development by Google
- Services driven by Google

- Roadmap fully open, pure Open Source model
- Many companies involved in development, sharing the work, essentially in upstream projects



Technology - MeeGo vs. Android

- UX (control) getting closed
- App fragmentation due to lack of good enough support for different form factors
- Apps based on std. Web tech
- Linux kernel google fork, not standard version
- Java app framework (Dalvik) not working with community.



- UX free of will to apply, either take reference UX or do completely own. Key is MeeGo API
- Apps based on QT (QML)
- Core OS composes of 2000+ RPM packages. Standard OSS
- Virtually all work happens in upstream

Drivers - MeeGo vs. Android

- Make a commodity platform for Google services and to drive Google business case
- Keep platform control inside Google in order to max out future benefits for the services

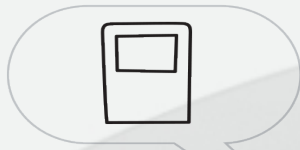


- Make a commodity platform in order to make common platform for future devices and 3rd party developers
- Share the work for each collaborating members
- Prevent one company control (OSS model)

Next: Creating MeeGo Products

Thanks,
that was fast!

Ready to rock
with release 1.0



Brainstorming
Your product idea

NOMOVOK
project manager

Customer

MeeGo Community

No more
tool patching!

Next release

Early release/
Base port

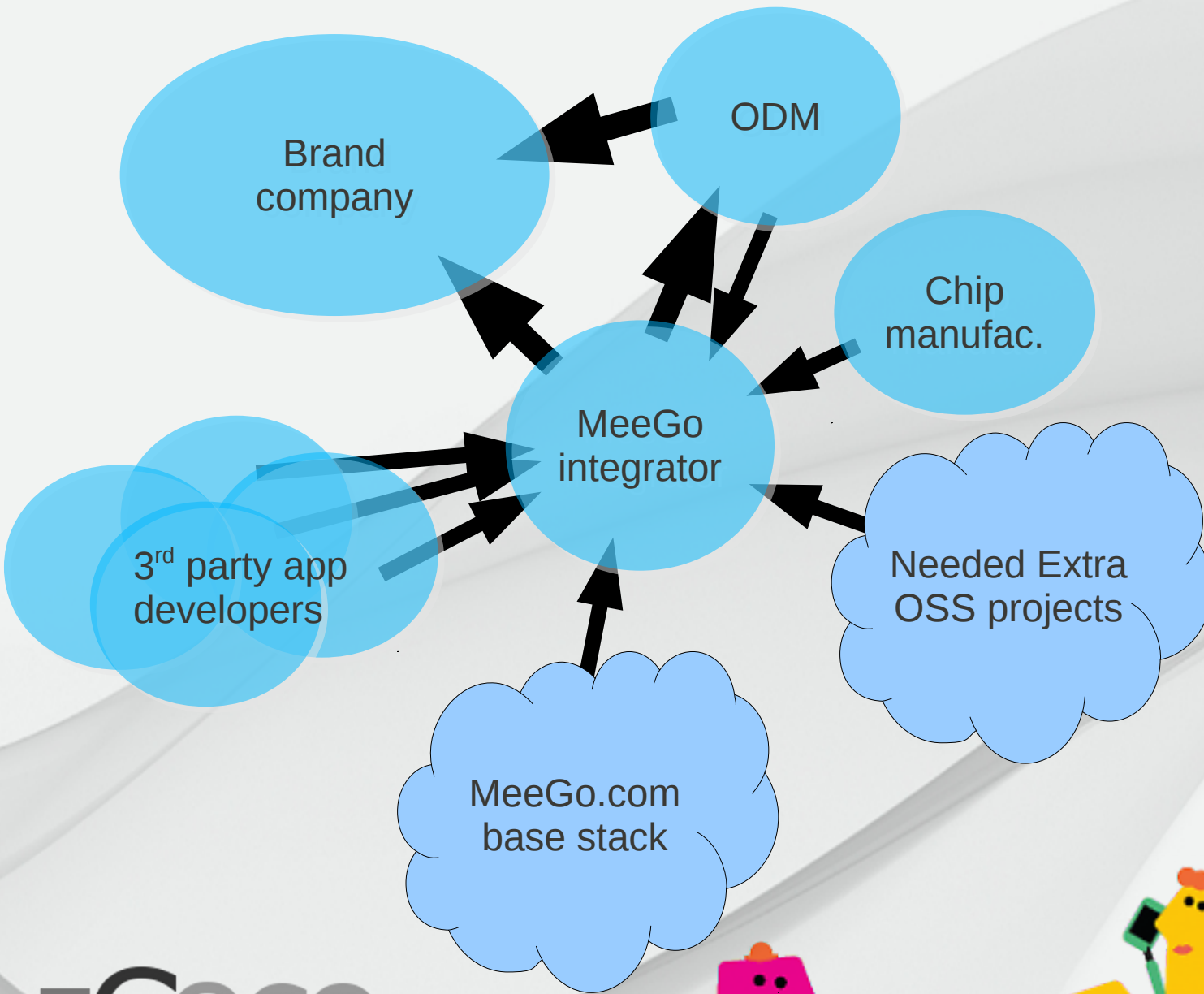
Nice
prototype!

We build
the factory

First release

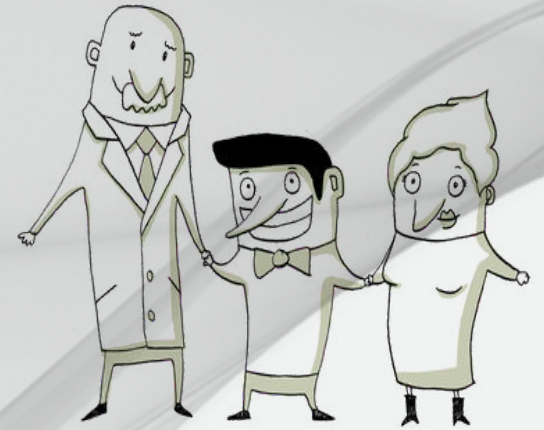
This is our chipset.

Stakeholders and practical relations



Summary

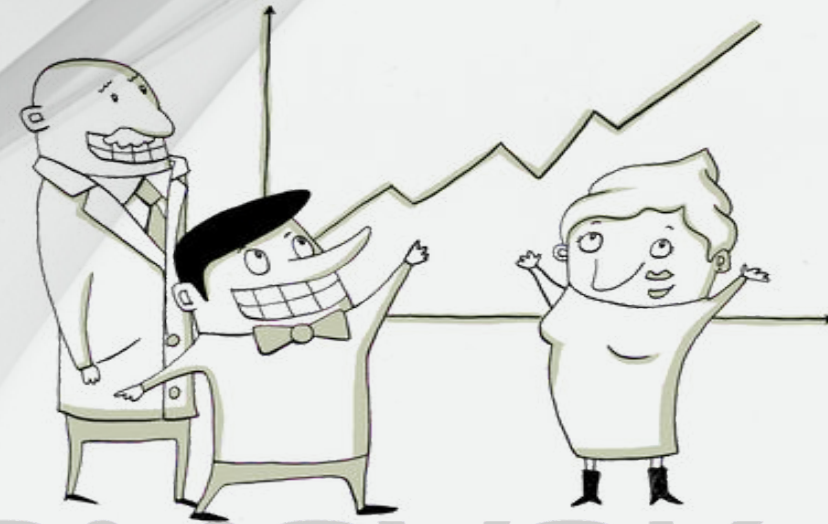
- MeeGo device creation closer to traditional Linux product than Android
- Most products built with custom integration
- App level work focus solely on QML

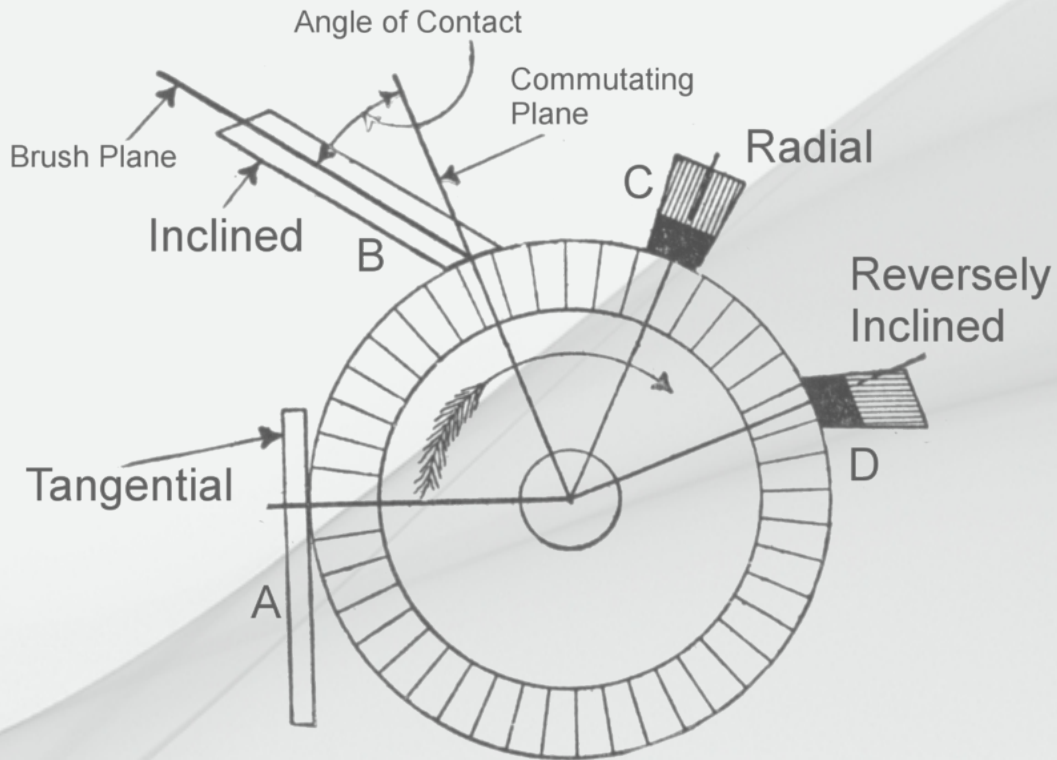


Next: The Future

MeeGo Future – 2011

- More companies participating
- More focus on common services
- New profiles
- Establishment on developer community
- More involvement from ARM / MIPS communities





Thank you!

For more information, please contact:

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