



# Linaro™ Update

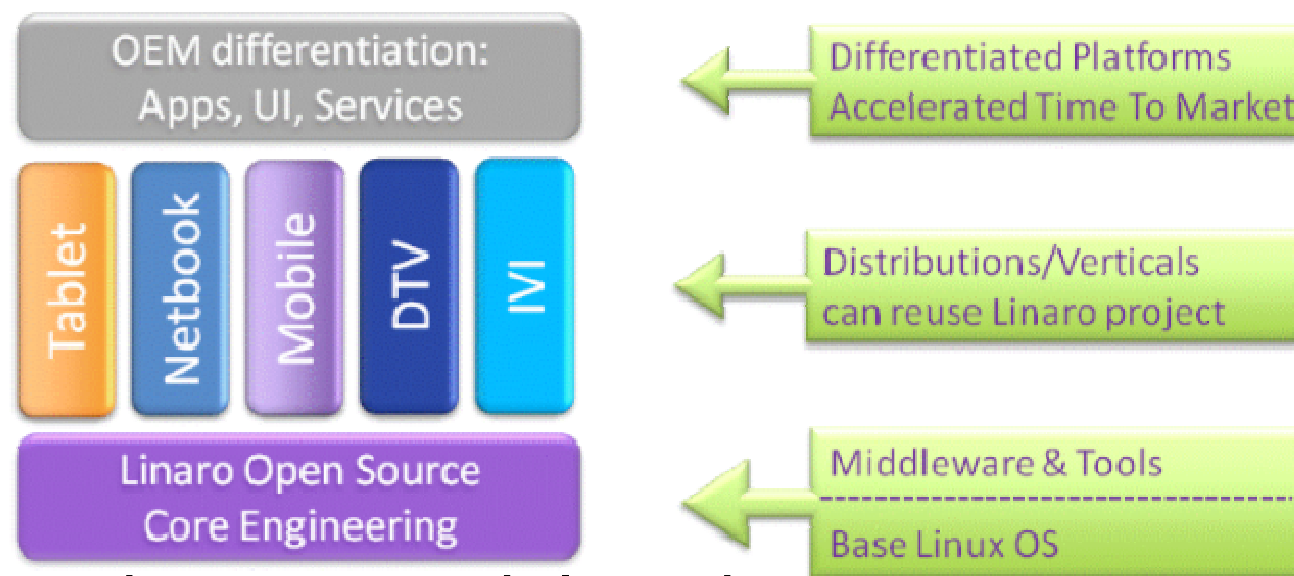
Software Solutions for an Open Digital World



# About Linaro

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- Our purpose is to:
  - “Make it easier for ARM partners to deploy the latest, optimized technology into Linux based products”



- Linaro does essential engineering
  - Relevant to multiple verticals markets
  - Relevant to multiple distributions



# Linaro launch

- Industry leaders creating the future
  - Launch at Computex created significant global news
  - ~150 News article with positive sentiment to Linaro (incl WSJ, FT, nationals)
  - Key message: ARM, IBM, Freescale, Samsung, ST-Ericsson and TI investing to deliver the best Linux on ARM and reduce low level fragmentation



ARM

freescale  
semiconductor

IBM

SAMSUNG

ST  
ERICSSON

TEXAS  
INSTRUMENTS

Linaro

# Linux-based Distributions and SoCs



palm webOS

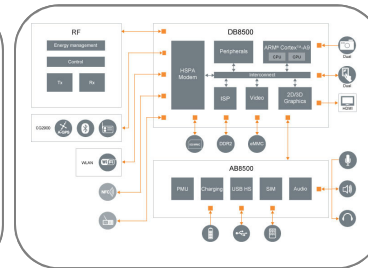
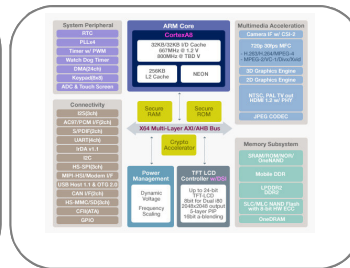
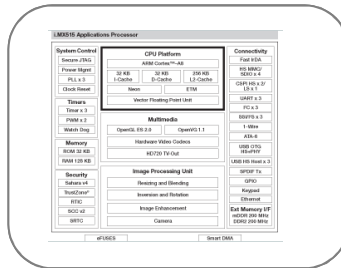
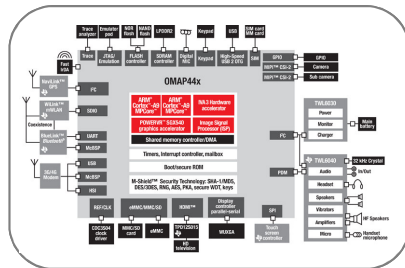
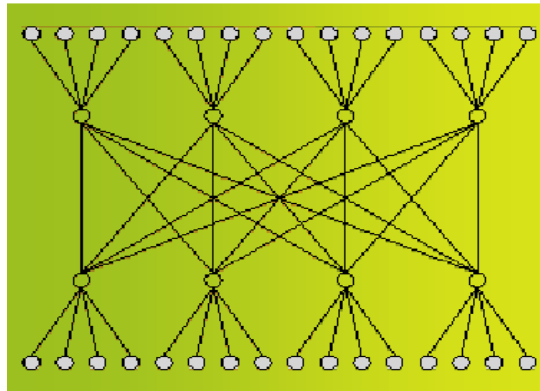


LiMo Foundation

MeeGo



Dozens of Linux-based stacks



Advanced SoCs

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TEXAS  
INSTRUMENTS

freescale  
semiconductor

SAMSUNG

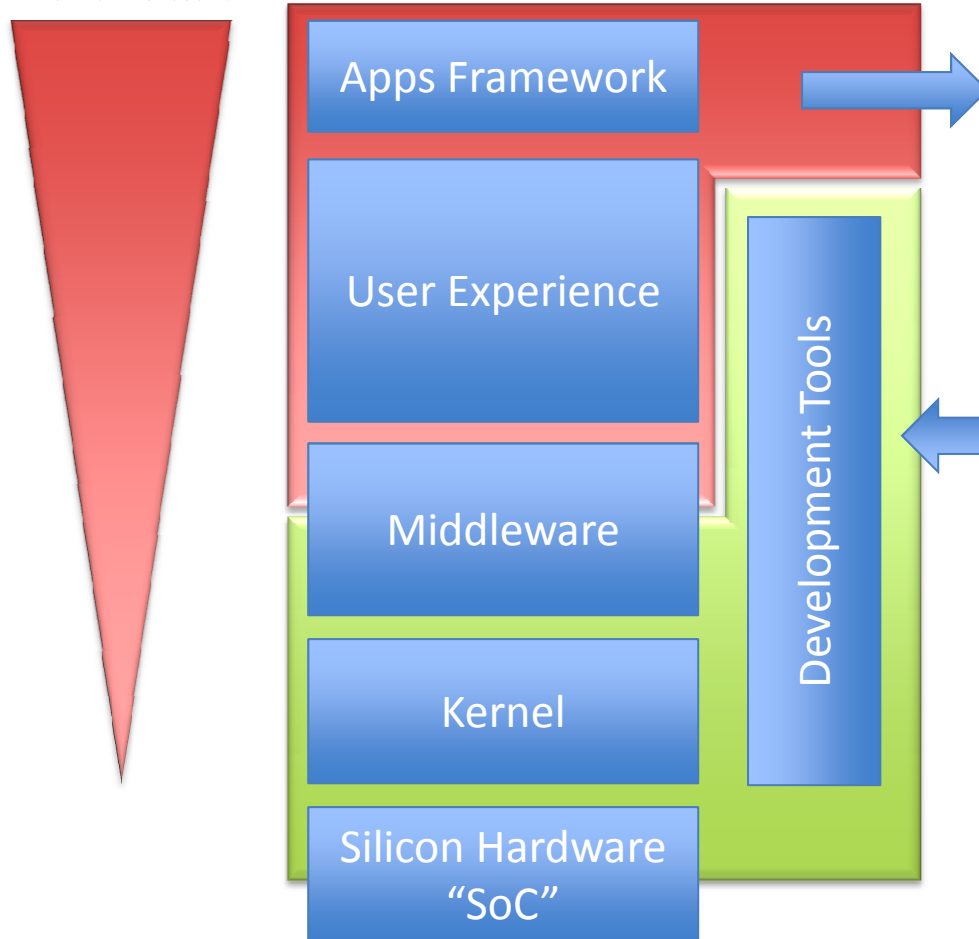
ST  
ERICSSON



Linaro

# Where Linaro Adds Value

Software  
Differentiation



palm webOS



MeeGo



LiMo Foundation



Dozens of  
..... Linux-based stacks

## Linaro Helps Distribution Creators

- Get a better base to start from
- Enabled on multiple ARM platforms
- More commonality, less fragmentation

## Linaro Helps Down Here

- Better tools to build optimal software
  - Used at all levels of the OS
  - Crucial to achieving best PPA
- Move toward a common kernel
- ARM optimized kernel & middleware
- Enabled on multiple silicon platforms

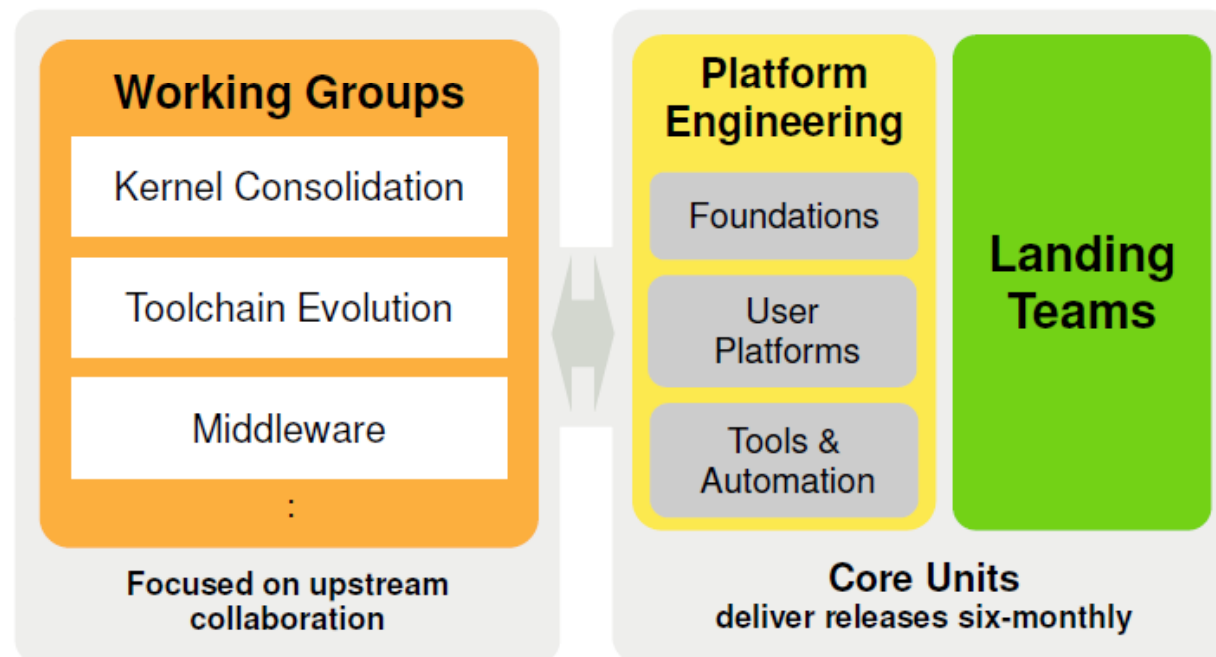
 Linaro scope

 Not Linaro



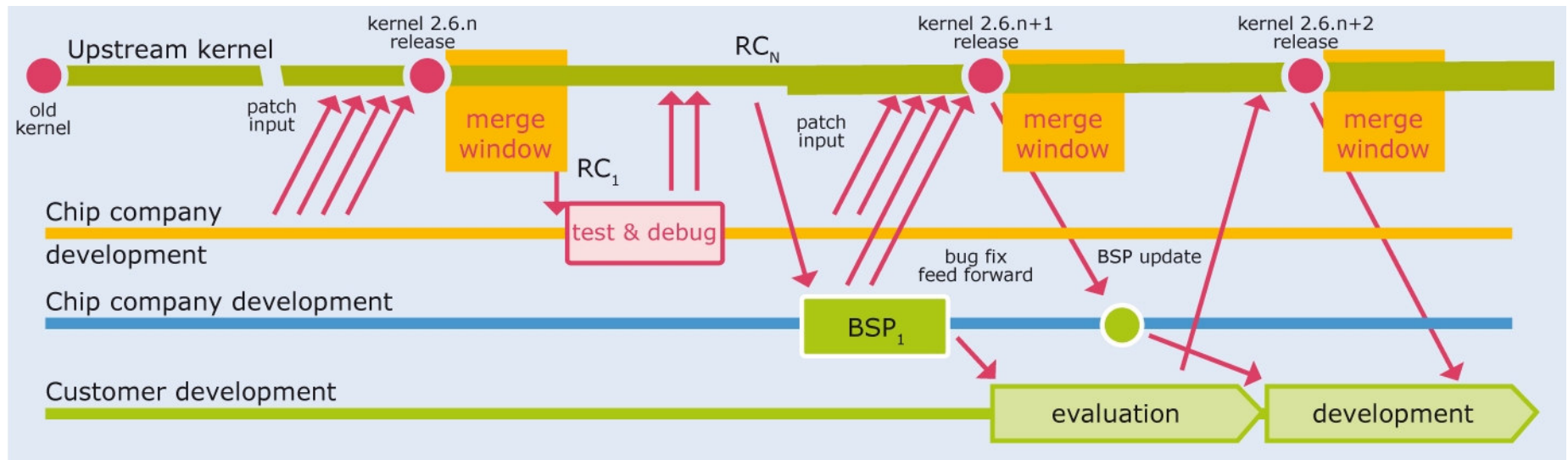
# What does Linaro do?

- Aligned investment in upstream WGs – Solving problems
- Staging tree/release every six months – Early access to good code/tools
- Assist ARM SoC vendors to leading edge of open source & landing Linaro software on latest SoCs



# Keeping up with open source

- Kernel and tools versions increment every few months
- Linaro can help Silicon partners upstream software support for latest SoCs
- Having good support at leading edge of Upstream makes it easier for device manufacturers (Better BSP shorter TTM)



# Developing Thought Leadership

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- Working groups drive content innovation
- Six working strategic WG's
  - Kernel consolidation
  - Multimedia & graphics
  - Power management
  - Toolchain
  - Infrastructure
- [More at https://wiki.linaro.org/FrontPage](https://wiki.linaro.org/FrontPage)





# Downstream Distributions

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- Linaro wants distributions to:
  - Influence Linaro deliverables
  - Include Linaro deliverables in products and services
- This can be achieved in a variety of ways
  - Loosely coupled [Advisory member]
  - Tightly coupled [Official launching partner]



# Distribution Involvement

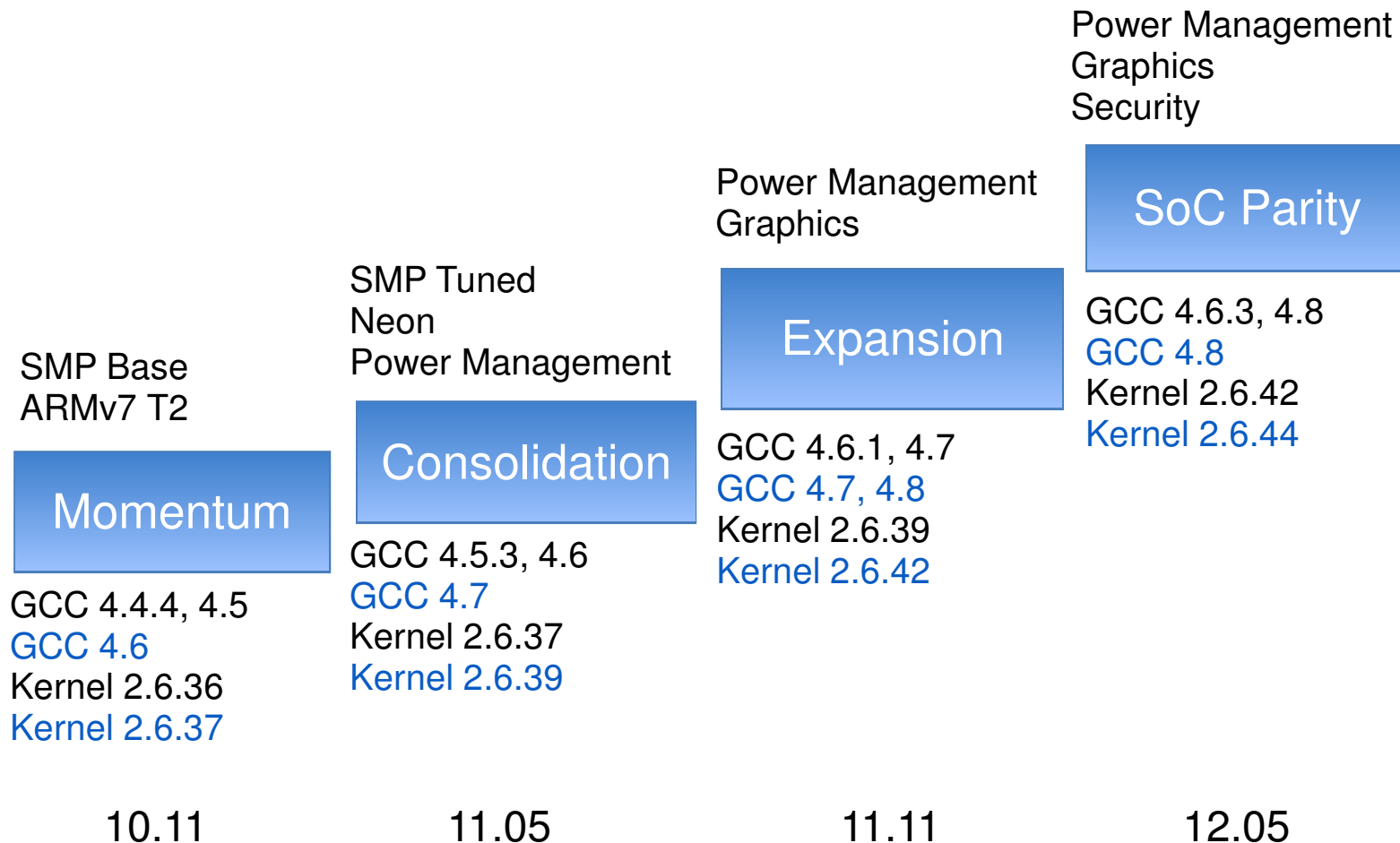
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- Loosely coupled
  - Take outputs from upstream or from Linaro
  - Influence technical direction via advisory role
- Closely coupled
  - Dedicated Launching team
    - Alignment of deliverable dates and content
    - De-risk implementation, prioritise bug fixes etc.
    - Develop infrastructure to link environments
  - Engineers participate in Linaro working groups



# Roadmap

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# Linaro for complete value chain

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- We want MNOs, OEMs and Silicon partners to use Linaro's engineering to make products that are faster and easier with better optimization
- Linaro is free expert OSS engineering
  - Leverage it by aligning and getting involved in WGs
  - Linaro members can steer the technical direction
- Linaro provides a common base of tools, kernel and middleware for multiple distributions



# Summary

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- Linaro is investing in upstream, creating alignment and stable releases of tools and kernel
- Execution is our focus
  - Great code, delivered dependably
  - 10.11 release focus is mobile & mobile computing



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# Linaro

