

# OSDL and CELF: Building Bridges for Linux-based Mobile Handsets

---

Bill Weinberg, OS Architecture Specialist  
OSDL MLI Initiative Representative

## Market Overview

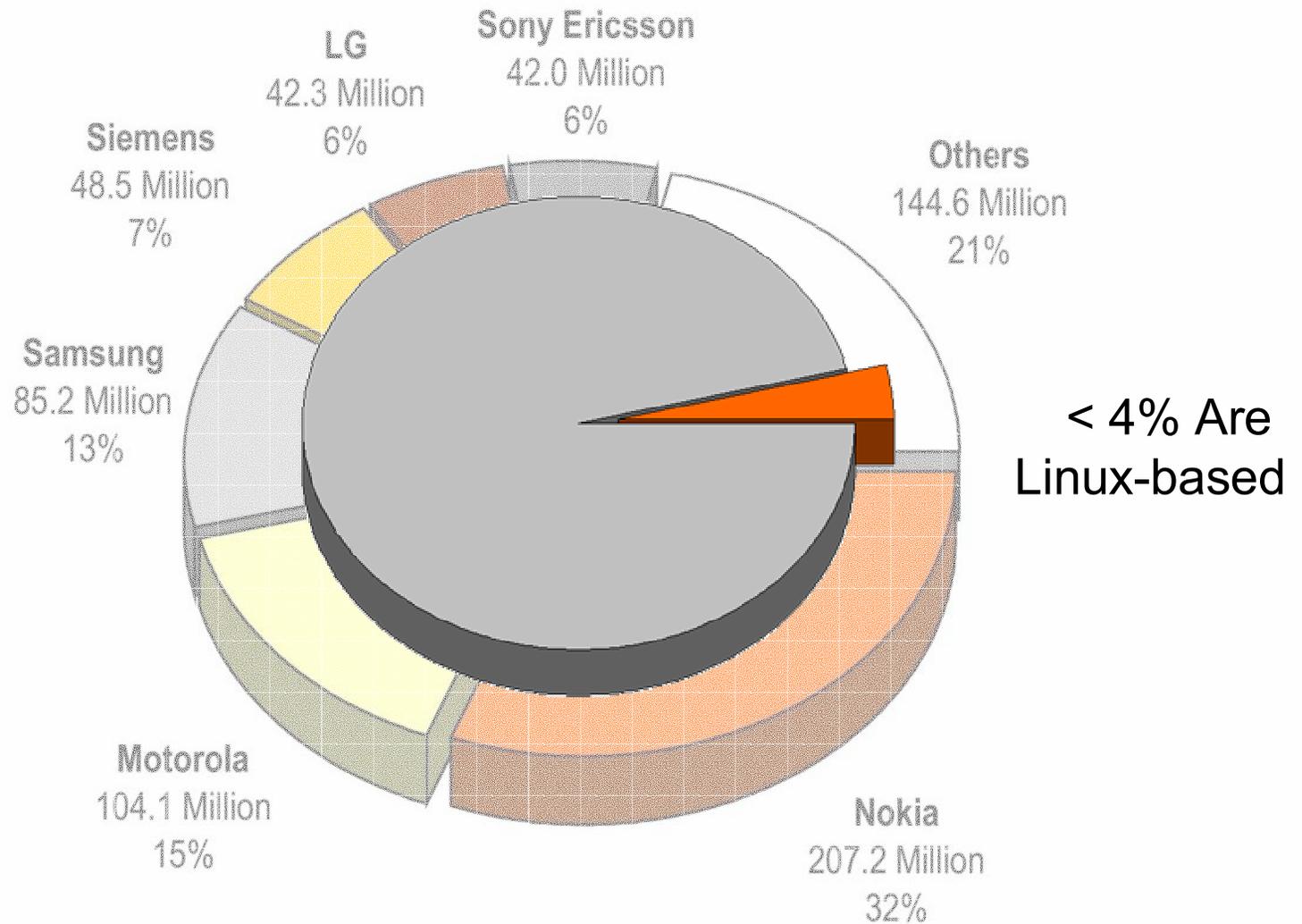
# Mobile Handset Market Continues to Grow

- Worldwide phone sales grew 34% to 693M Units in 2004 (IDC)
- 2.6 billion phones expected to be in use worldwide by 2009 (Gartner)
- SmartPhone market growing at a rate of 85 percent annually (IDC)
- Where is Linux in this marketplace?



## Market Overview

# Limitless Opportunity for Linux



Worldwide Unit Shipments 2004 – Source: Gartner

©Copyright 2005 OSDL, All rights reserved.



## Market Overview

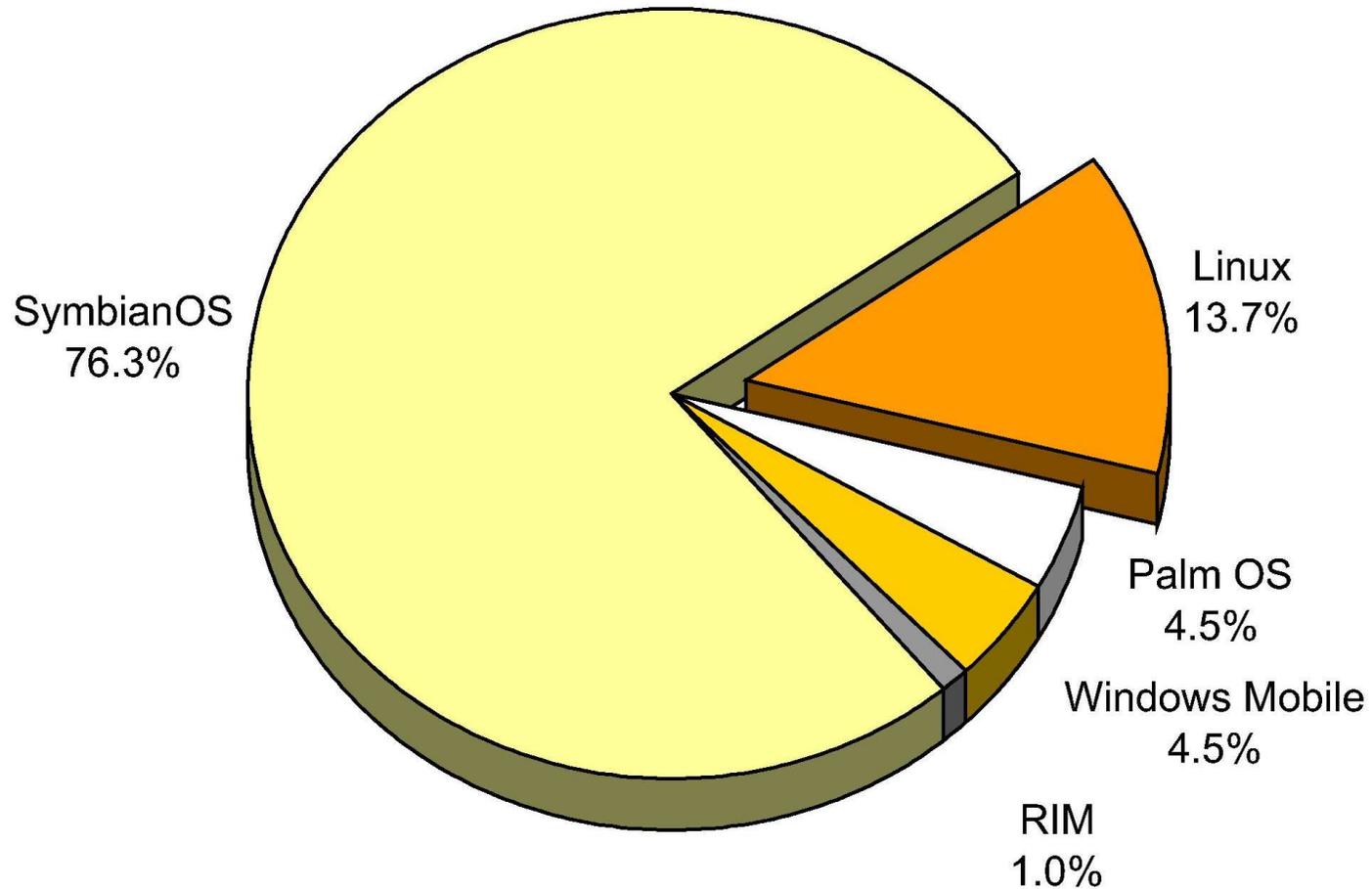
# Linux Strong in Smart Phones

- Gartner reports Linux growing 412% for Q105
- Total share of smart phone market 13.7%
  - More than 3x larger share than Microsoft
  - More than 3x larger share than PalmOS
- Q205 numbers reportedly even stronger
  - Strong overall smart phone growth
  - Linux share continuing to grow
  - Notable participation from Panasonic / NEC / NTT

## Market Overview

# Linux Position in Smart Phones - #2

Smartphone Marketshare – Q1 2005



Linux : 412% growth from 3.4% in 2004-1Q

Worldwide Unit Shipments 2005 1Q – Source: Gartner

©Copyright 2005 OSDL, All rights reserved.



# Unmet Requirements for Mobile Linux

### Technical

- Telephony Interface
- Real-time
- Power Management
- Security
- Memory Footprint
- Multimedia Framework
- aSMP Data Paths
- Integration

### Economic

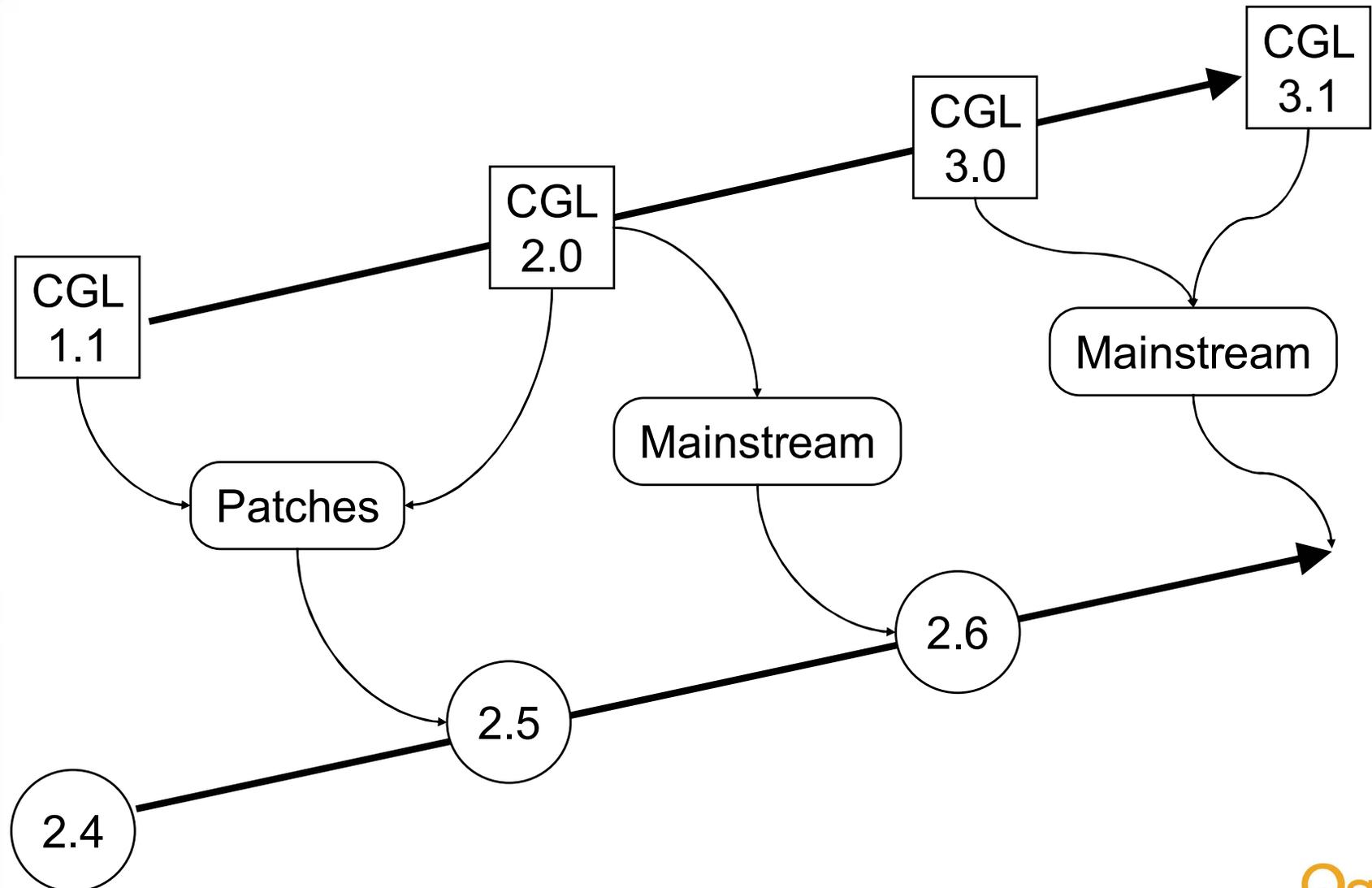
- Burdened IP
- Longer development cycle
- Exploded SBOM
- Supplier value-add
- Disjoint ecosystem
- Integration

# OSDL Mobile Linux Initiative

- Accelerate adoption of Linux in the mobile space
  - Help unify divergent efforts
  - Address Linux kernel technical challenges
  - Focus on applications for Linux based devices
- “Carrier Grade Linux” for Cell Phones
  - Work from kernel upwards to address multiple requirements
  - Common request of CGL working group members, others

## MLI Scope and Goals

### Carrier Grade Linux Analogy – Mainstreaming Requirements



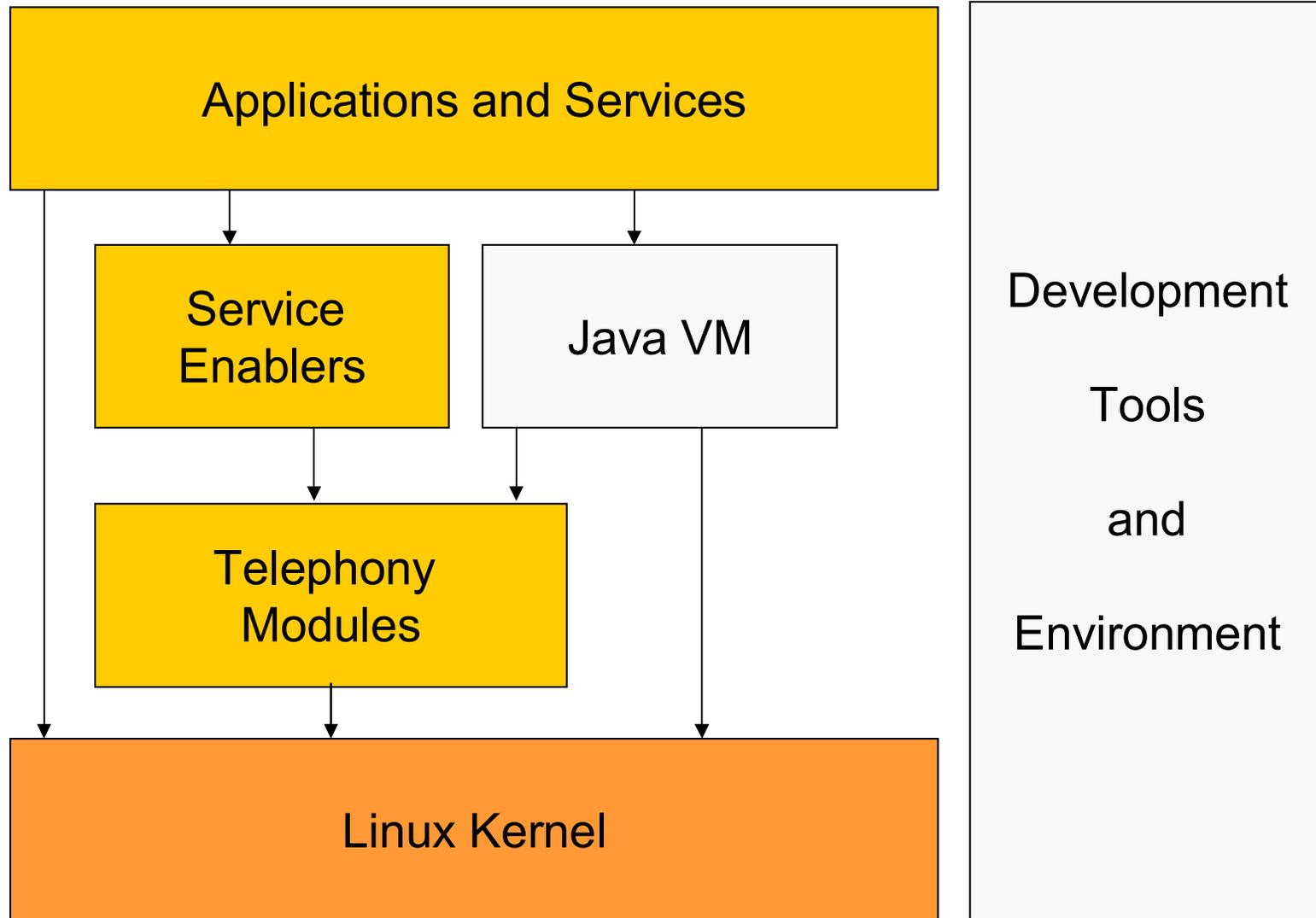
## MLI Scope

# Why are OSDL members targeting Mobile Linux?

- Recognized Center of Linux adoption
  - Employs Linus Torvalds, Andrew Morton and Andrew Tridgell
  - Host and facilitator for Carrier Grade, Desktop and Data Center Initiatives
  - Global presence: 70 members and offices in U.S., Asia, EMEA
  - Sponsor for legal funds, industry studies and conferences
  
- OSDL Provides Neutral Ground
  
- Differentiating Track Record

## MLI Scope

# Scope of the Mobile Linux Initiative



# Mobile Linux Initiative Deliverables

- Requirement Definition Document
- Use Cases
- Open Source projects to meet requirements

# MLI / CELF Call to Action

- Continue and expand joint testing efforts
- Organizational cross membership
- CELF public comment on MLI formation, launch

# OSDL and CELF - Membership in Common

- AMD
- ETRI
- Fujitsu
- HP
- Hitachi
- IBM
- Intel
- Mitsubishi Electric
- MontaVista
- NEC
- PalmSource
- Sun
- TimeSys
- Toshiba
- Trolltech
- Wind River

# Leading Participants

- New Members
  - Motorola
  - PalmSource
- Existing Members
  - British Telecom
  - Intel
  - MontaVista Software
  - Trolltech
  - Wind River

# MLI Process / Roadmap

- October 17, 2005:
  - Public Announcement
- October 17, 2005:
  - OSDL Face to Face Meeting with Carriers/NEPs in Beijing
- October 18-20, 2005:
  - OSDL Workgroup Meeting in Beijing
  - Appoint interim chairperson and milestones