

TIZEN



OPERATING SYSTEM

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UNDER GUIDANCE OF:

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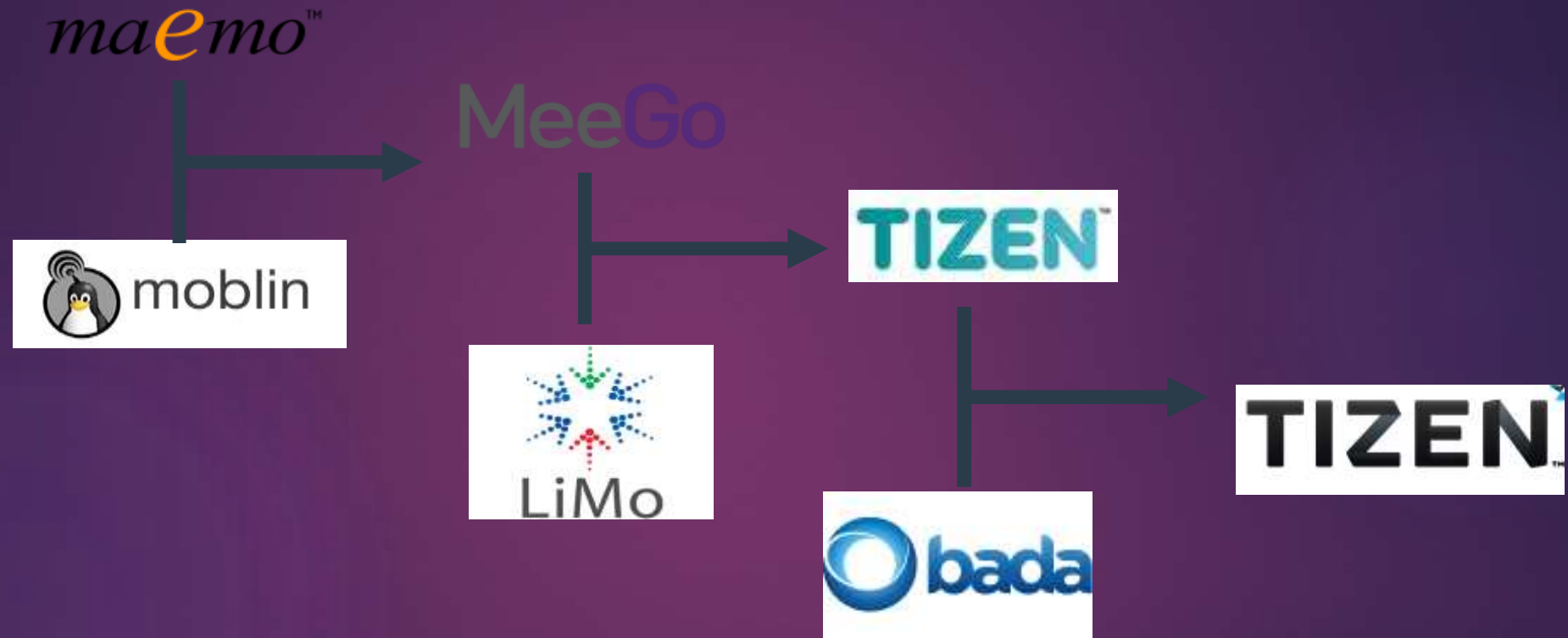
Introduction

What is Tizen?

- Tizen is a cross-architecture, open source software platform.
- Tizen is a Linux-based operating system with Linux kernel and the GNU-C library.
- Tizen is a project within the Linux Foundation and is governed by a Technical Steering Group (TSG) and The Tizen Association.
- Tizen provides application development tools based on jQuery and jQuery Mobile

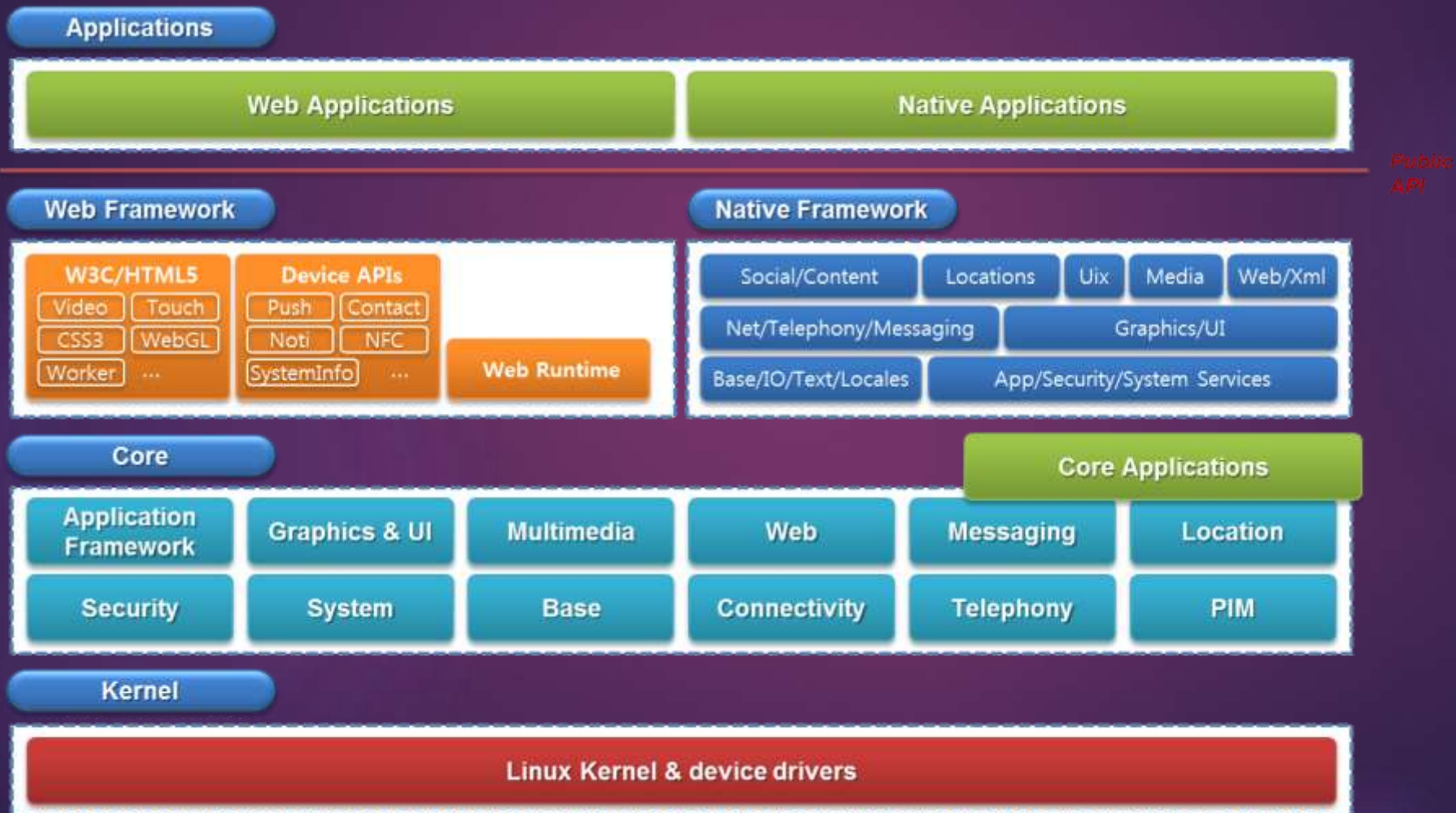
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- The software development kit (SDK) allows developers to use HTML5 and related Web technologies to write applications that run on supported devices.
 - Virtually everything newly developed for Tizen has been open-sourced under Apache 2.0 License.

Evolution of Tizen



Architecture

Tizen Architecture



Applications



Tizen Mobile Profile Release History

Tizen 1.0

Apr. 2012

Web-centric platform

- Highest HTML5 coverage
- Tizen Device Web API
- Web UI framework (jQueryMobile based Extension)

Tizen 2.0

Feb. 2013

Web/native dual framework

- Native API
- Unified SDK for Web and native
- Web Runtime based on WebKit2
- Web Audio, HTML Media Capture
- HTML Drag & Drop, Clipboard

Tizen 2.1

May 2013

Hybrid Web/Native, Enhanced Security, and Optimized Perf.

- Hybrid Web and native app support
- Content security policy
- Trusted inter-app sharing
- Account management
- QR code and image recognition
- Systemd replacing init daemon

Tizen 2.2

July 2013

Commercial Ready w/ Enhanced UX

- H/W Menu & Back key
- Better Font Legibility
- H/W LED Notification
- Integration of Apps w/ Contact
- Native API for Secure Element
- UI Customizer
- Live Web App. Editing

Features

❖ Flexibility

❖ Versatility

❖ Personalization and customization

Advantages

- ❖ Compatibility with multiple mobile platforms
- ❖ Extensive personalisation capabilities
- ❖ Tizen OS was able to run android application which has a base of HTML5
- ❖ Tizen operating system has support for a variety of other devices such as a TV, a camera, or a PC.

Limitations

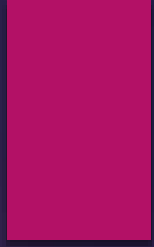
- ❖ Tizen is still not too familiar
- ❖ Tizen is still a second choice after the Android OS
- ❖ Device performance is not maximized

Conclusion

- ❖ Standard-based, Open Source software platform under Linux Foundation
- ❖ Offering an industry leading HTML5-based application APIs for various categories of smart devices
- ❖ Updates in Tizen SDK 2.0 Alpha
- ❖ Architecture
- ❖ Kernel
- ❖ Web Framework
- ❖ Core Subsystems
- ❖ Continuously evolving platform

References

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- ❖ Tizen SDK download and Events checking.
- ❖ mailing list&IRC
- ❖ IRC: discussion, troubleshooting, collaboration, chatting with other contributors
- ❖ source code: <https://review.tizen.org/git/>
- ❖ code review: <https://review.tizen.org/gerrit/>
- ❖ wiki: <https://wiki.tizen.org>



Questions?



Thank You !