BRIEF TECH REPORT

CONTENTS

▶ **SYSTEM ARCHITECTURE**

▶ **DEVELOPING FRAMEWORK**

▶ **TECH HIGHLIGHTS**

SYSTEM ARCHITECTURE

SERVER
PROVIDE SERVICE VIA HTTP API

CLIENT [1]
FOR DWELLERS

CLIENT [2]
FOR COMMUNITY GUARDS

CLIENT [3]
FOR SYSTEM SUPERVISORS
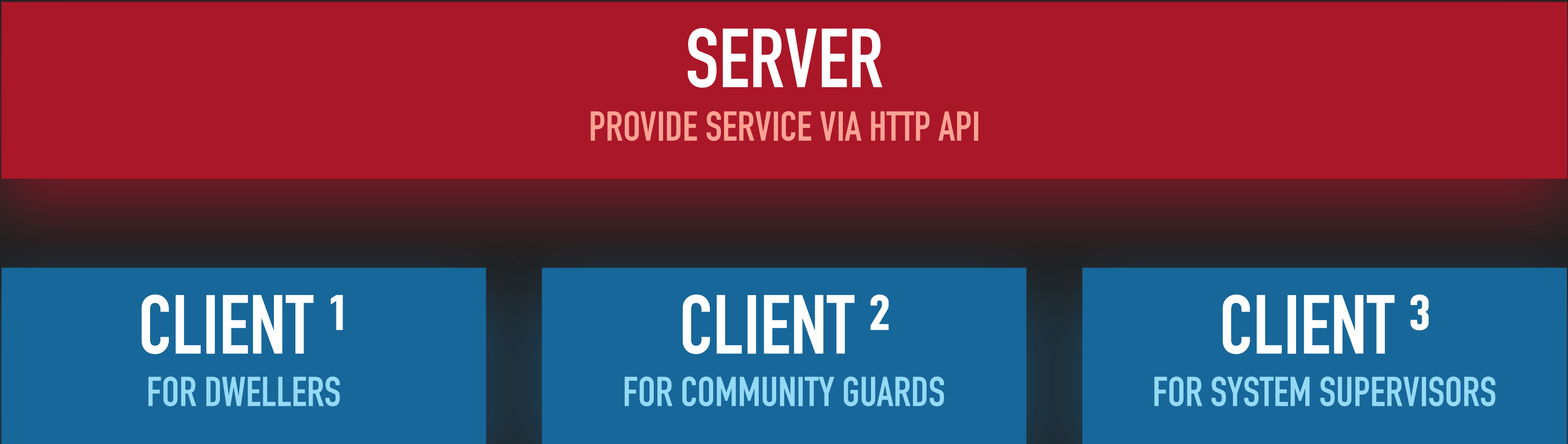
CLIENT FOR COMMUNITY DWELLERS & GUARDS

PC?

Mobi Mobile?
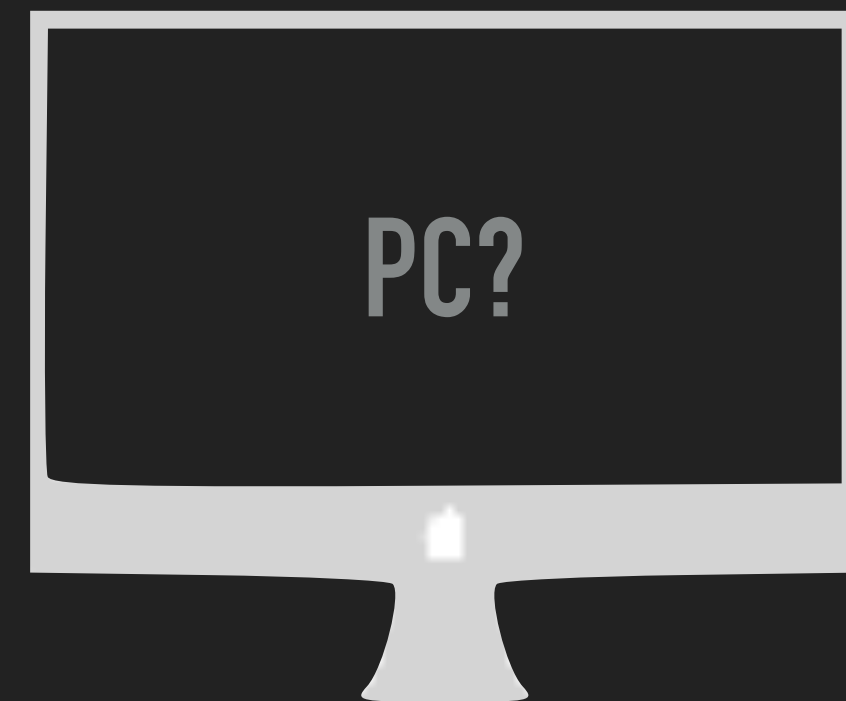
MOBILE OS MARKET SHARE IN 2019

KaiOS
0.2%

Windows Phone
0.1%

Others
0.3%

iOS
25.9%

Android
73.4%

- Android
- iOS
- Windows Phone
- KaiOS
- Others

DATA SOURCE: STATCOUNTER.COM
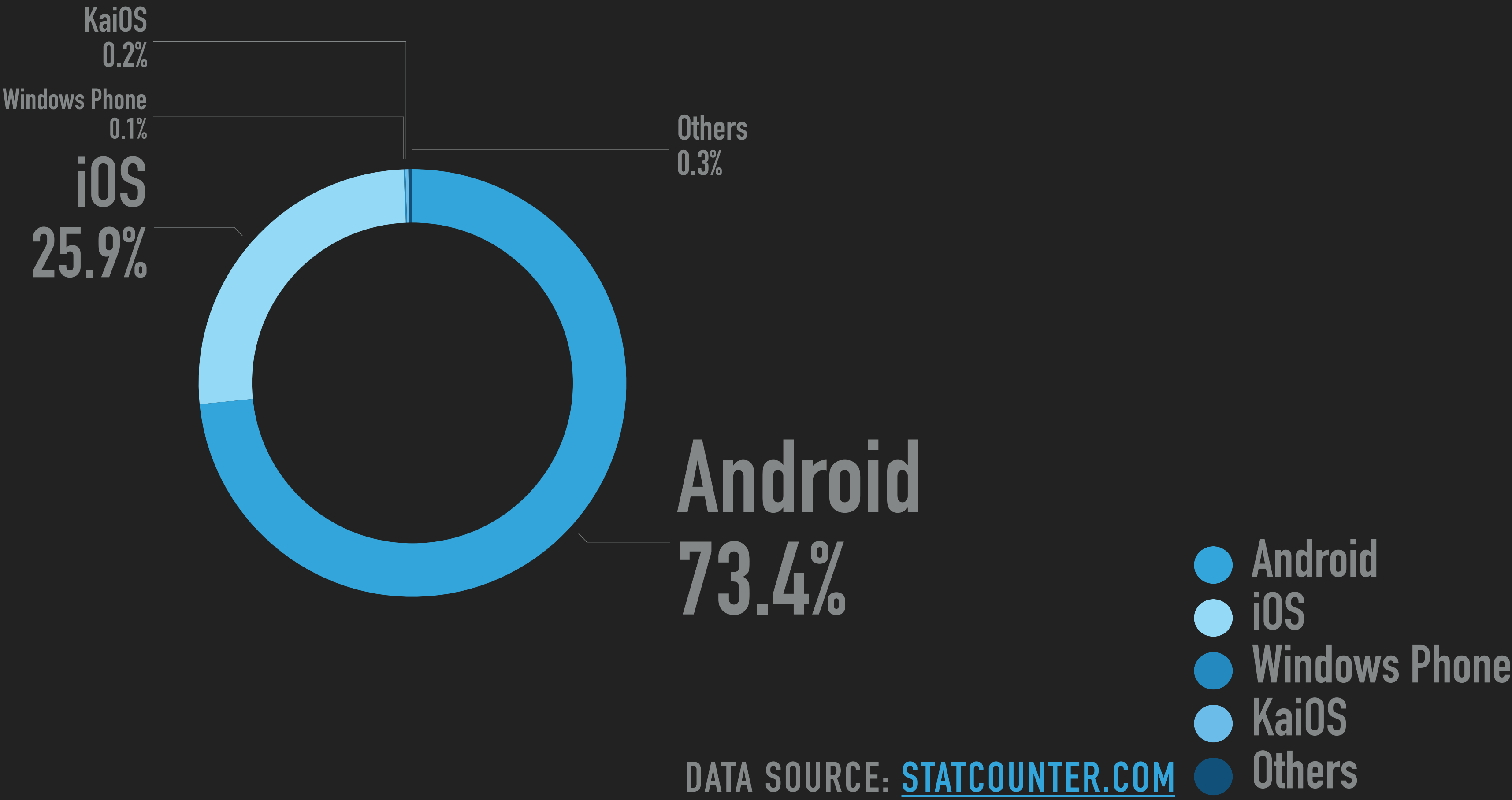
NATIVE DEVELOPING

Android
Studio
Android SDK
Kotlin / Java

Xcode
Cocoa Touch
Swift / Objective-C

CROSS-PLATFORM FRAMEWORKS
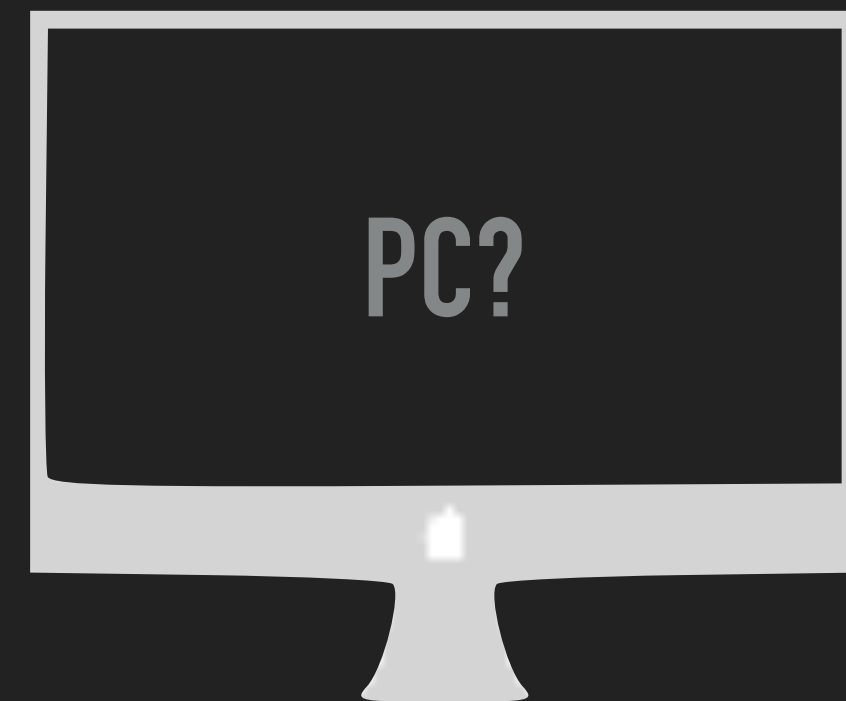
Flutter

React Native

MINI APPS

WeChat Mini-Apps

Alipay Mini-Apps

CLIENT FOR SUPERVISORS

PC?

Mobile? Mobile?

WEB FRONT-END FRAMEWORK

TypeScript + Angular React Native

BACK-END FRAMEWORK

Python

Flask

Tornado

...

Java / Kotlin

SpringBoot

SE-340 GROUP WORK

THE END