

## **How Is The Mobile Space Different?**

## **Mobile App Testing Requirements**

### **Functional**

- · Validation of Functionality
- Smoke / Regressions Testing Offline access testing
- Negative Testing

### Non Functional

- Network Strength / Outage / Recovery
- Different NW Types
- Peripheral Testing

### Interoperability (IOP)

- · Voice / SMS interrupts
- Notifications
- Battery /Cable Removal

### **Memory Leak**

- Memory Usage
- Memory Leaks Garbage Collection

### **Performance Testing**

- CPU Usage testing
- Network Usage
- Page Render time or activity Render time

### **Usability Testing**

- User Experience
- · Competitive Analysis Expert Review

### **Installation Testing**

- New App Install
- Uninstall and Reinstall
- · Upgrade testing

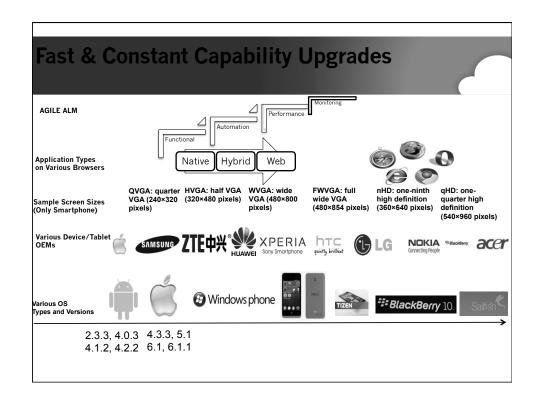
### **Security Testing**

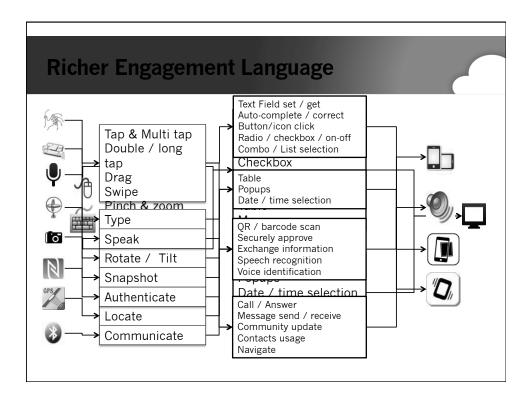
- OWASP Vulnerabilities
- Dynamic Testing
- Static Code Analysis Data Encryption

#### **Language Testing** Validation for Locales

- · Images and Text
- Currencies, time zones etc.
- Context

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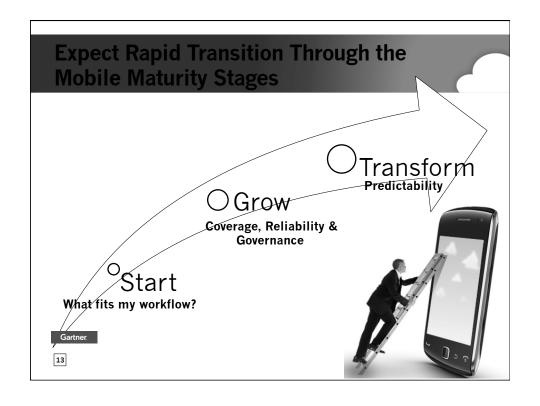
## **Near Insatiable Appetite**

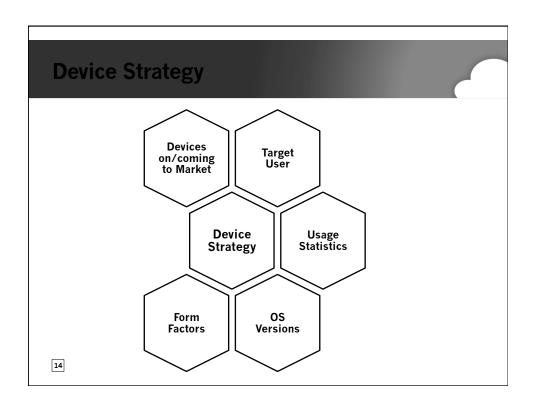


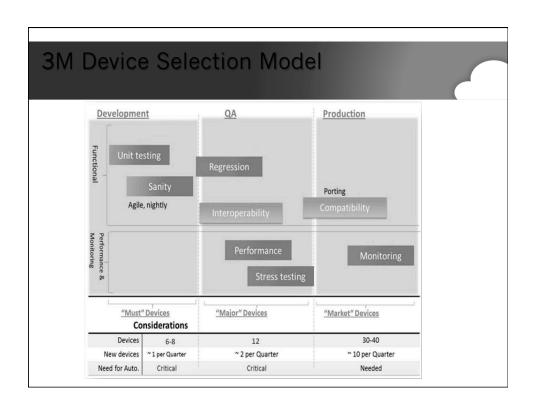
- Do more
- Expect more
- Express more

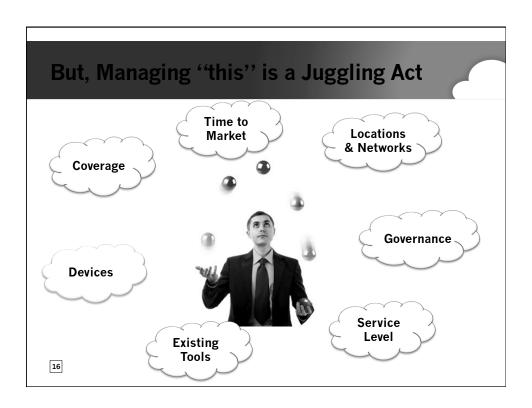
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# **Building an Enterprise Grade Mobile Testing Strategy**







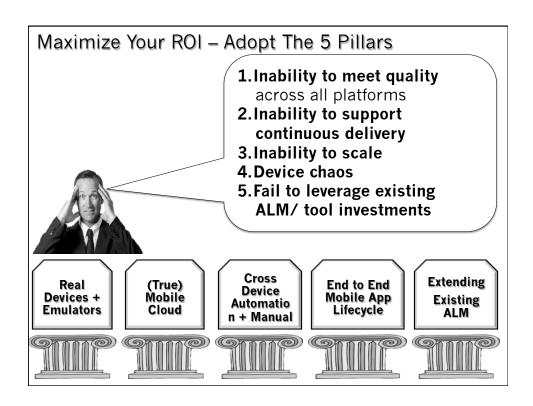


# The Importance of Mobile Test Automation In An Enterprise ALM

## **Suggested Tips**

- ✓ Install, Uninstall, Upgrades (With and W/O SD Card)
- ✓ Test for incoming events while your app is running
- ✓ Check for the clarity of your app error messages
- ✓ Check for Android and iOS UI Guidelines compliance
- ✓ Test network loss & transition, low battery and other device constraints
- ✓ Localization Test with different languages (for relevant apps)
- ✓ Include HW during your app run (GPS, Camera)
- ✓ Think with the end in mind develop automation anchors for repetitive executions (Back to App Home i.e.)

## What An Enterprise-Grade Mobile Testing Strategy Consists Of



## **Building Mobile Application Quality**

## Business challenges

- experience
- Lowering delivery cost
- Accelerated delivery models
- Market dynamics

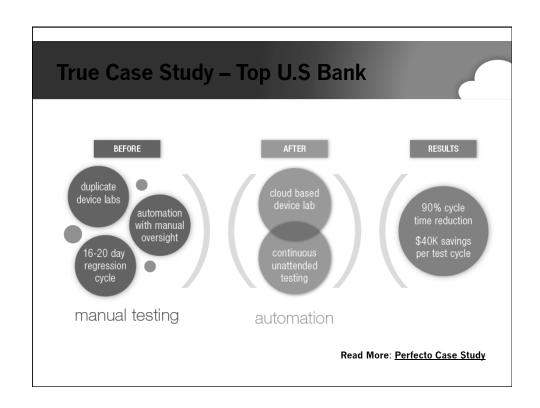
### **Solutions**

- managed device clouds
- Use real devices under real conditions
- Enable unattended continuous testing
- Extend ALM investment

### **Business value**

- Raise quality
- Faster delivery
- Support current processes
- Optimize performance
- Shrink MTTR

Aligning strategy, organization, processes & tools



## **Friendly Tips**

Choose the right devices

Define your test coverage goals

Use both Visual and Real Objects

Test your mobile app (native, web) across different networks

Performance test high value transactions

Don't forget interoperability (IOP) testing

Monitor the end users are experience

Plan and measure reuse

### **How We Do it Differently**

- True Integrated Quality platform: The Mobile Cloud
  - ✓ Distributed
- ✓ Secure
- ✓ Scalable

- ✓ Sharable
- ✓ Administration ✓ Assured & managed
- **Best** in class automation (patented ScriptOnce®)
- **Broad** use case support
- **Choice** Local, private and public deployment options
- A market leaders ecosystem designed for your workflow
- Field Proven! Operating +70K hours of monthly usage
- Complete end-to-end solution



### **Questions**

## Q & A& A

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