Discussing a strategy for developing mobile Domino Apps

Richard Sharpe – Tech Director, Teamstudio
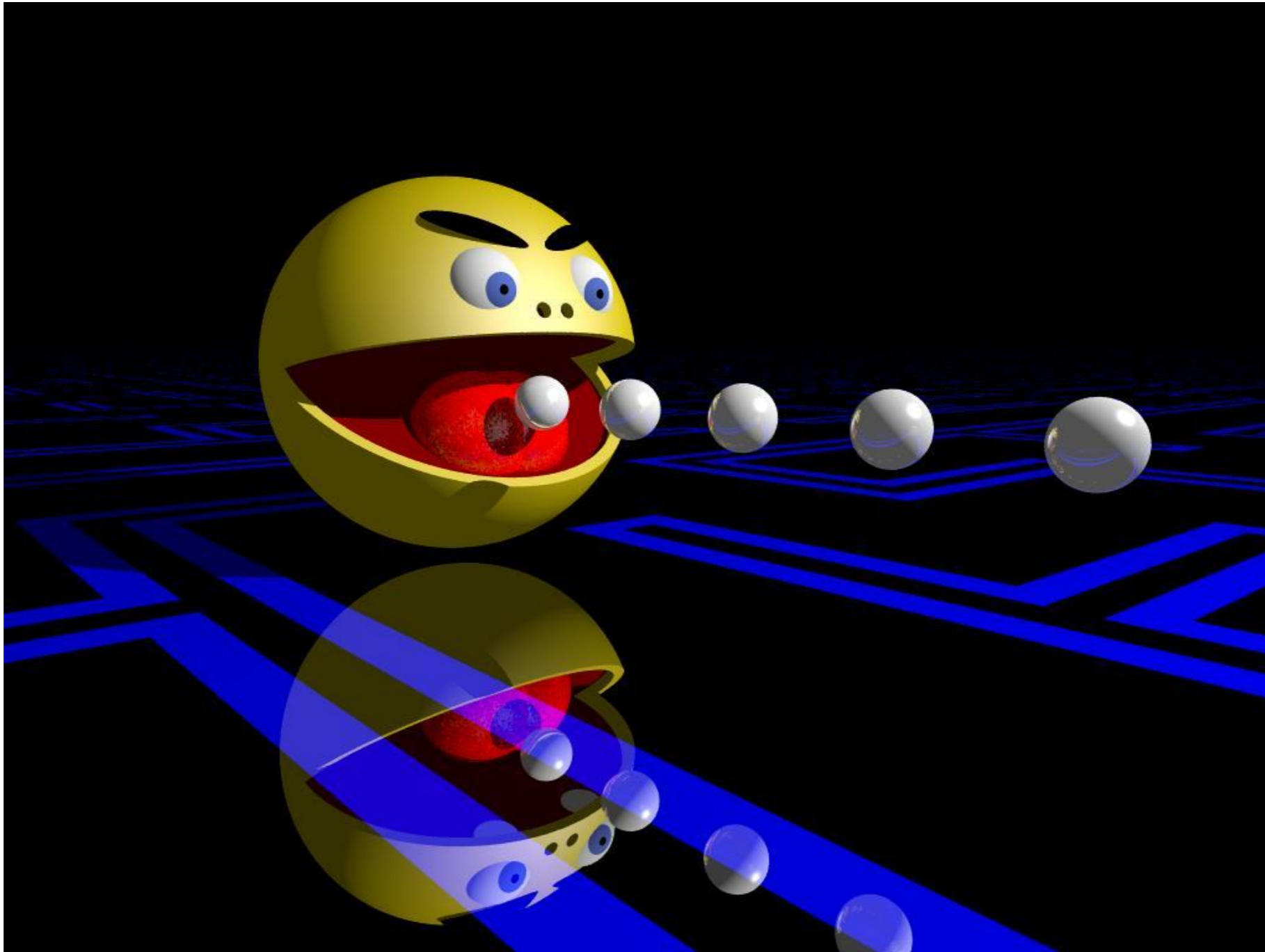
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Why You Are Here

- You have been told your are adopting a mobile strategy

- You want to know how other companies deal with mobilization

- You want to know how companies are dealing with devices not owned by the business

- You want to discover ways of developing or extending Domino apps to mobile devices
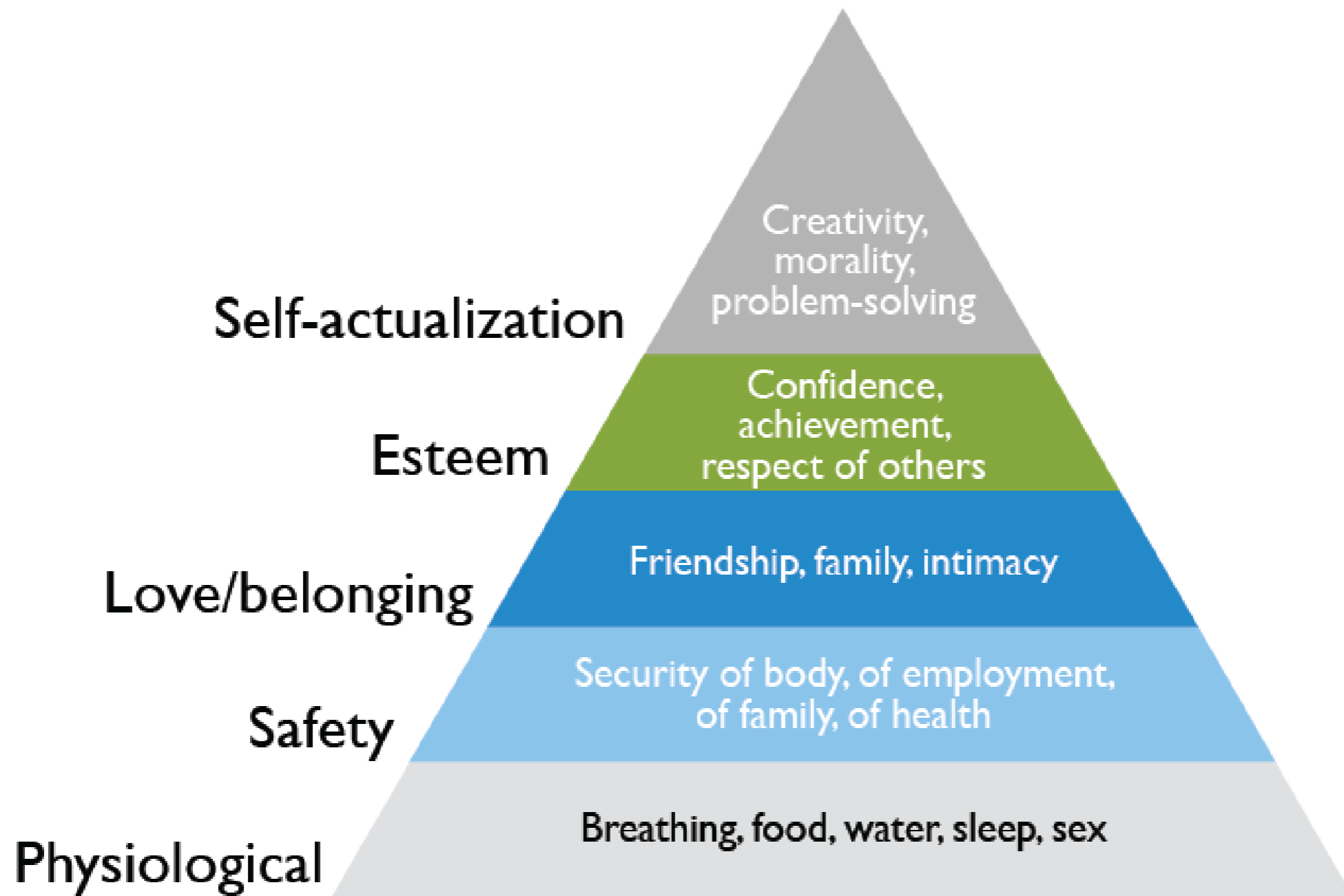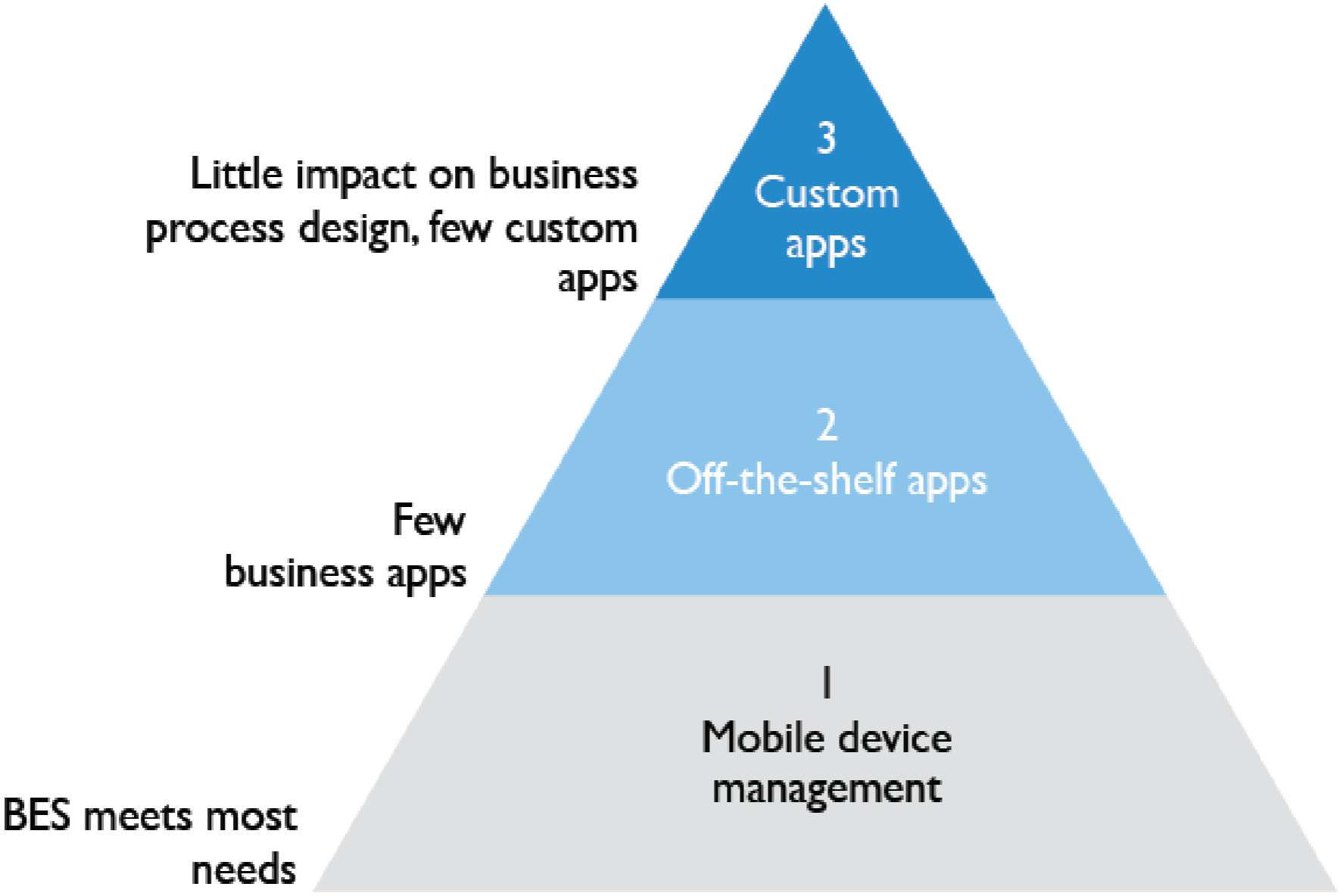
We Are Supposed To Be Mobile

Consumers in the Enterprise

Maslow's Hierarchy of Needs

Self-actualization

Creativity, morality, problem-solving

Esteem

Confidence, achievement, respect of others

Love/belonging

Friendship, family, intimacy

Safety

Security of body, of employment, of family, of health

Physiological

Breathing, food, water, sleep, sex

Pre 2011 Mobilization Challenges

Little impact on business process design, few custom apps

3 Custom apps

Few business apps

2 Off-the-shelf apps

BES meets most needs

1 Mobile device management

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Consumers in the Enterprise

2010 Enterprise   2010 Consumer 2011 Enterprise

Post 2011 Mobilization Challenges

3 Custom apps
In-house application support
Enterprise Lifecycle support
Profile based deployment

2 Off-the-shelf apps
Application support
Provisioning applications

1 Mobile device management
Enterprise access, basic
PIM, security
Multiple device support
Self service

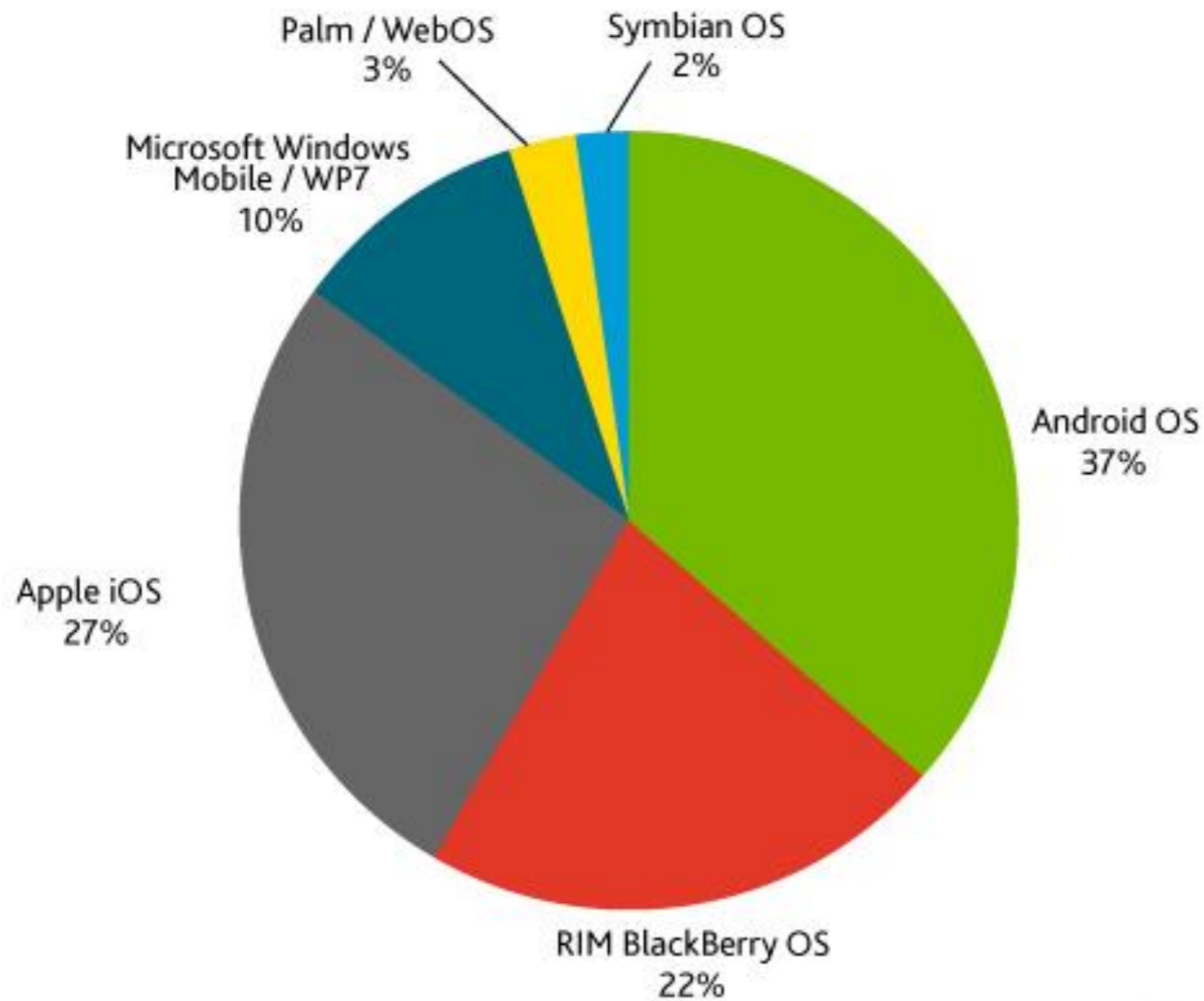IamLUG
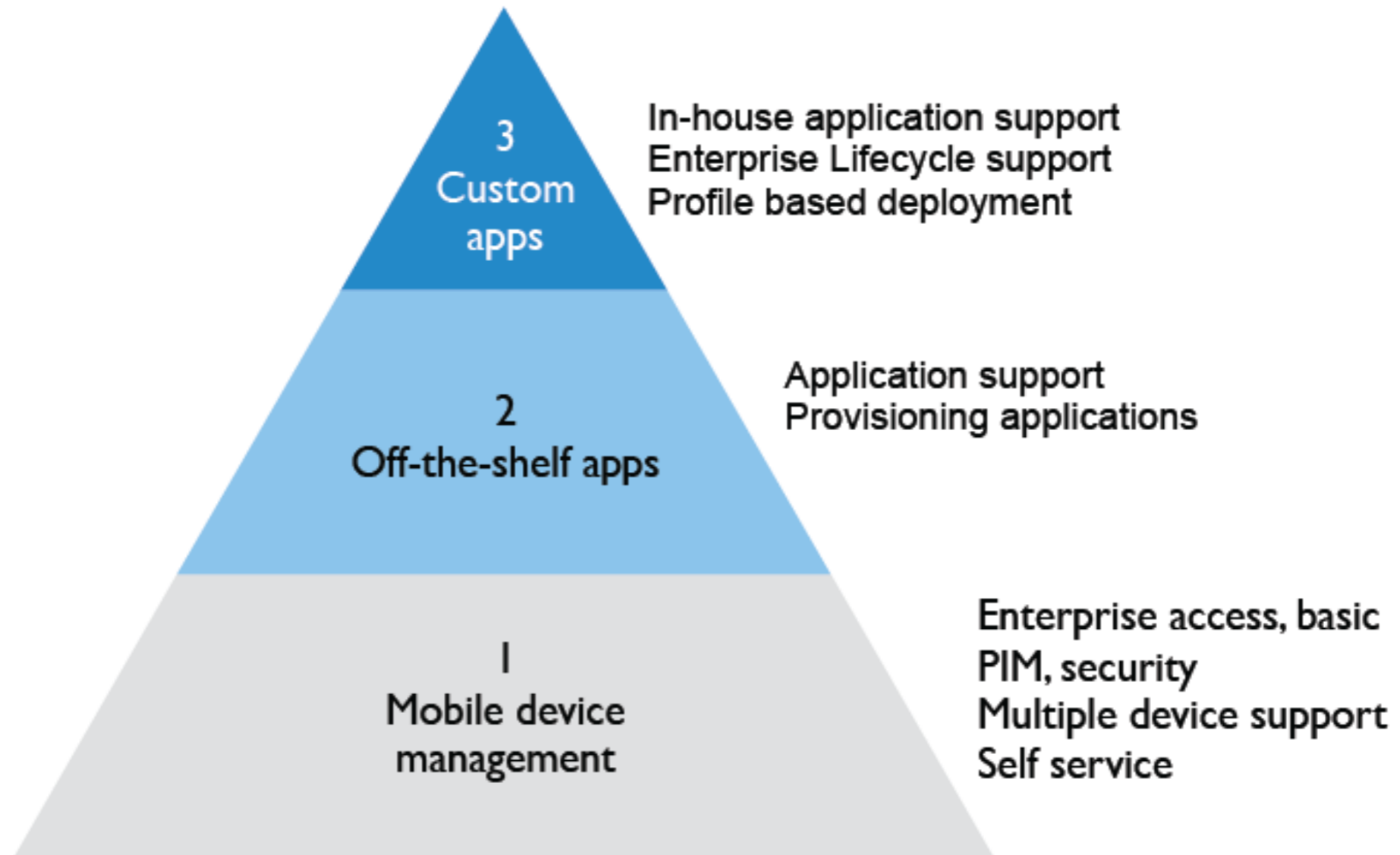
Android – The Second Disruptor

Canalys figures for Worldwide smartphone shipments (millions per quarter)
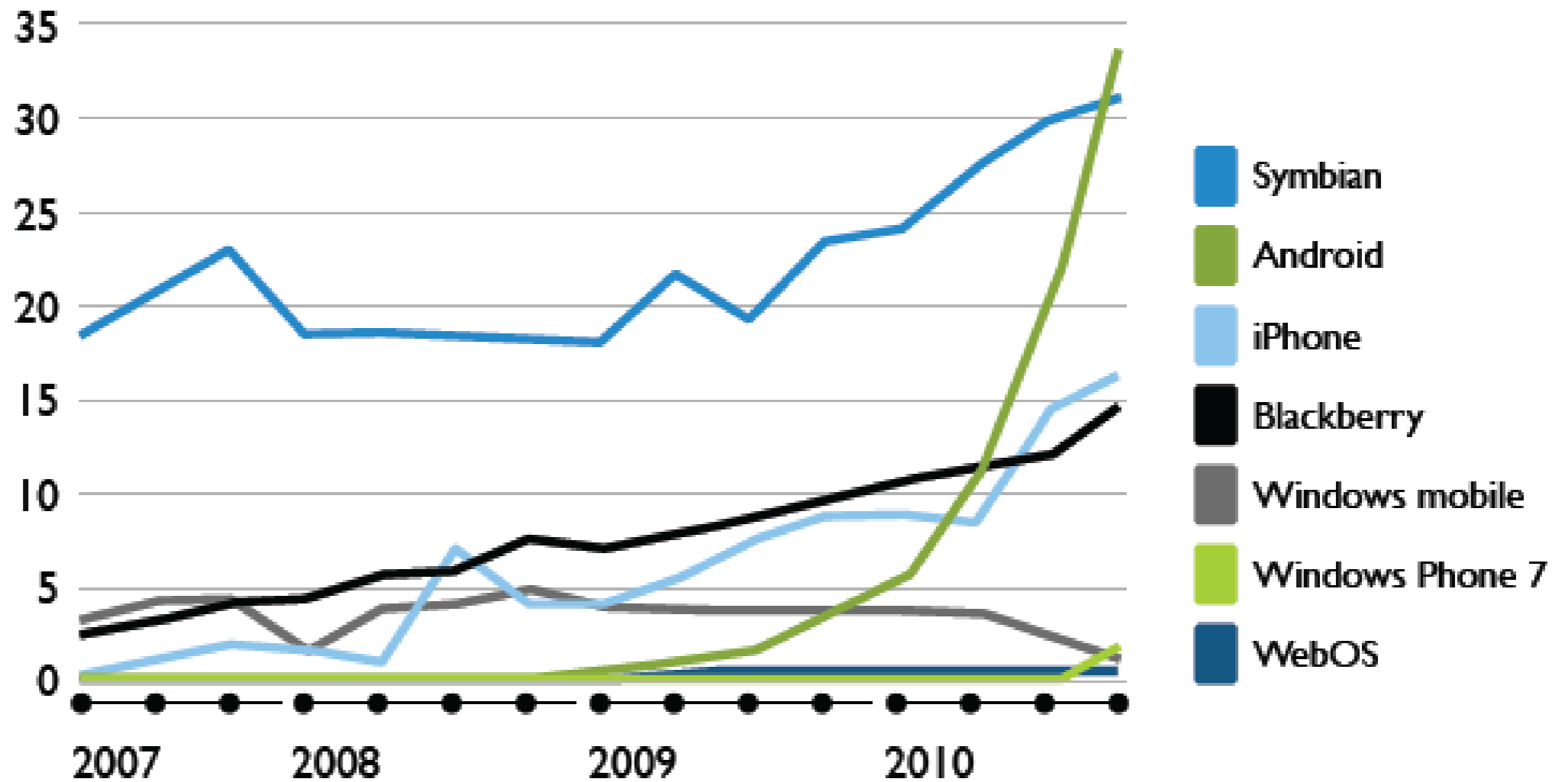
Share of Smartphones in Business

Smartphone market share
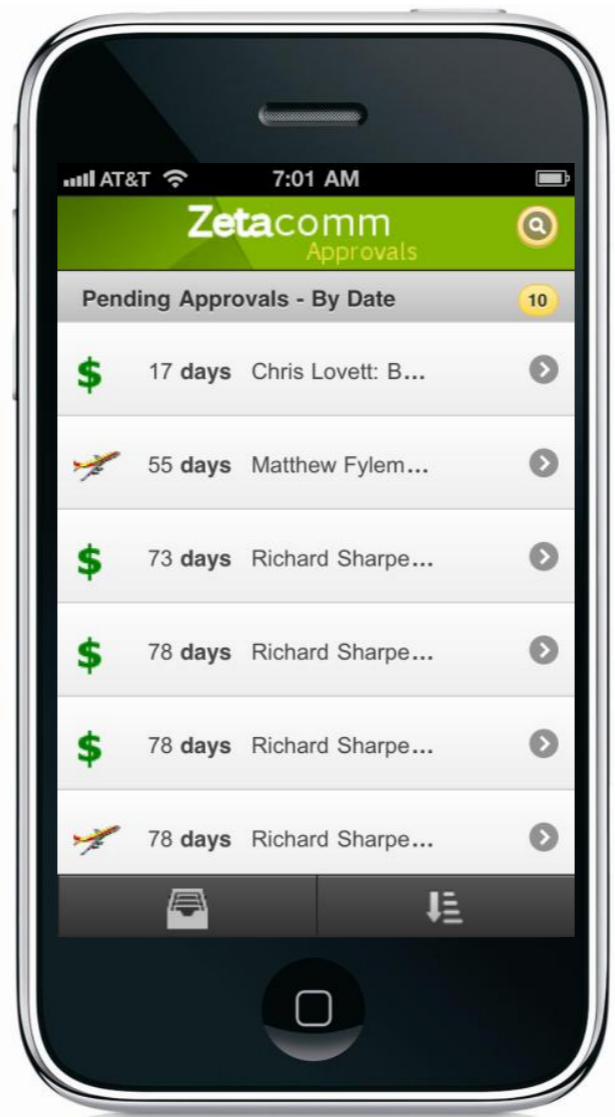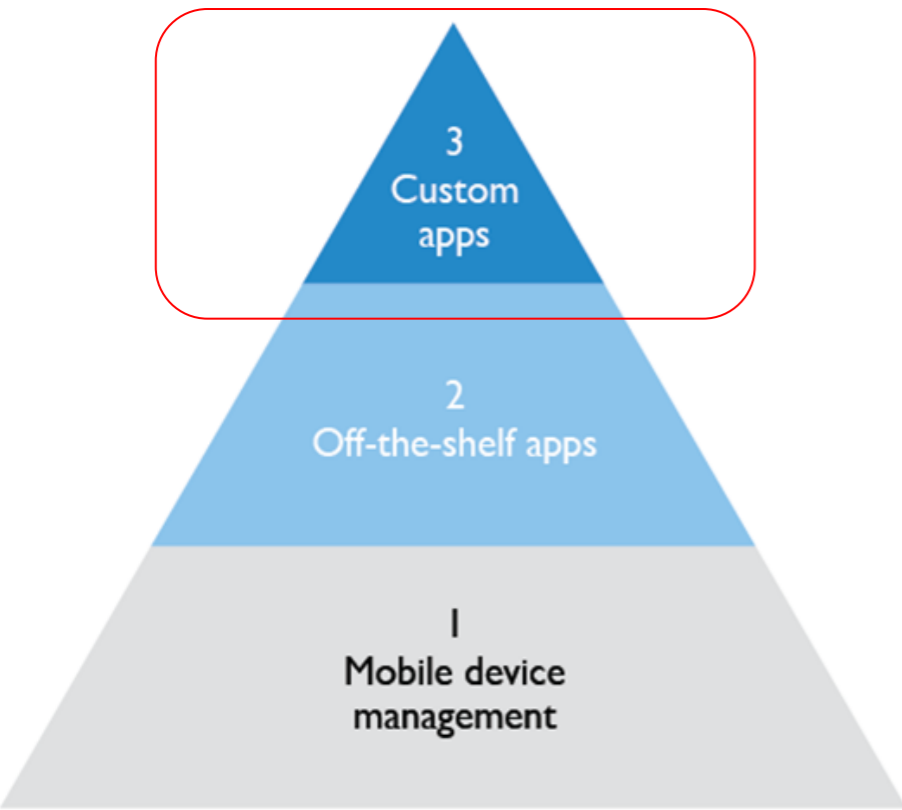
March '11, Nielsen Mobile Insights, National

Palm / WebOS 3%

Symbian OS 2%

Microsoft Windows Mobile / WP7 10%

Android OS 37%

Apple iOS 27%

RIM BlackBerry OS 22%
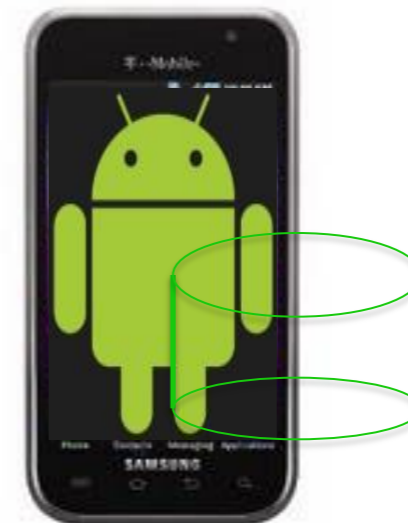
Source: The Nielsen Company.

nielsen

2011 Application Development

2011 Enterprise

Users Demands

- Secure data

- Great looking UI

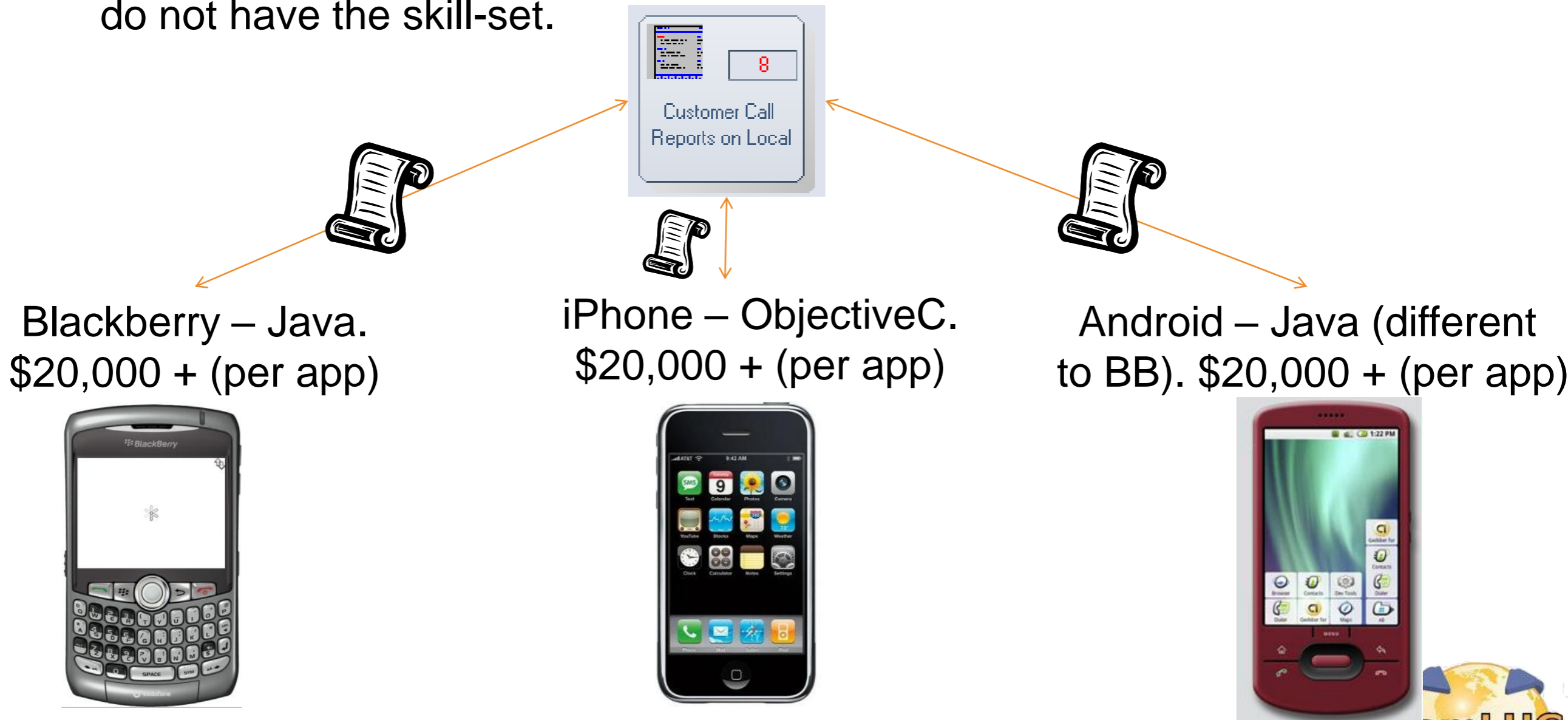- Intuitive to use

- Off-line capability

So, choices…

| Native	Web	Framework
Full Functionality of device	Free	Less new skills to learn
Local data storage and network access	Standards based (HTML/CSS/JavaScript)	Faster to get something working
Established deployment procedures (e.g. app stores)	Can deploy from existing web server	Heavy lifting done for you
Per device implementation	Harder to implement off-line storage (JSON)	Not full device functionality
Expensive	Interface not standardized for touch or native controls	Infrastructure requirements

Relative Costs - Native

- Current scenario:- Application needs mobilizing to various devices but we do not have the skill-set.

Customer Call Reports on Local

Blackberry – Java.
$20,000 + (per app)

iPhone – ObjectiveC.
$20,000 + (per app)

Android – Java (different to BB). $20,000 + (per app)

- Maintenance:- Bug fixes; Feature Requests; New device O/S compatibility.
    - Every time changes to 3 applications MUST be made!
- Tablets have different O/S so again more versions for iPad, BB Playbook, HP Slate

Relative Costs - XPages

- Current scenario:- Using Unplugged you have the skills - XPages

Xpage for BB

Xpage for Android

Customer Call Reports on Local

8

Xpage for iPhone
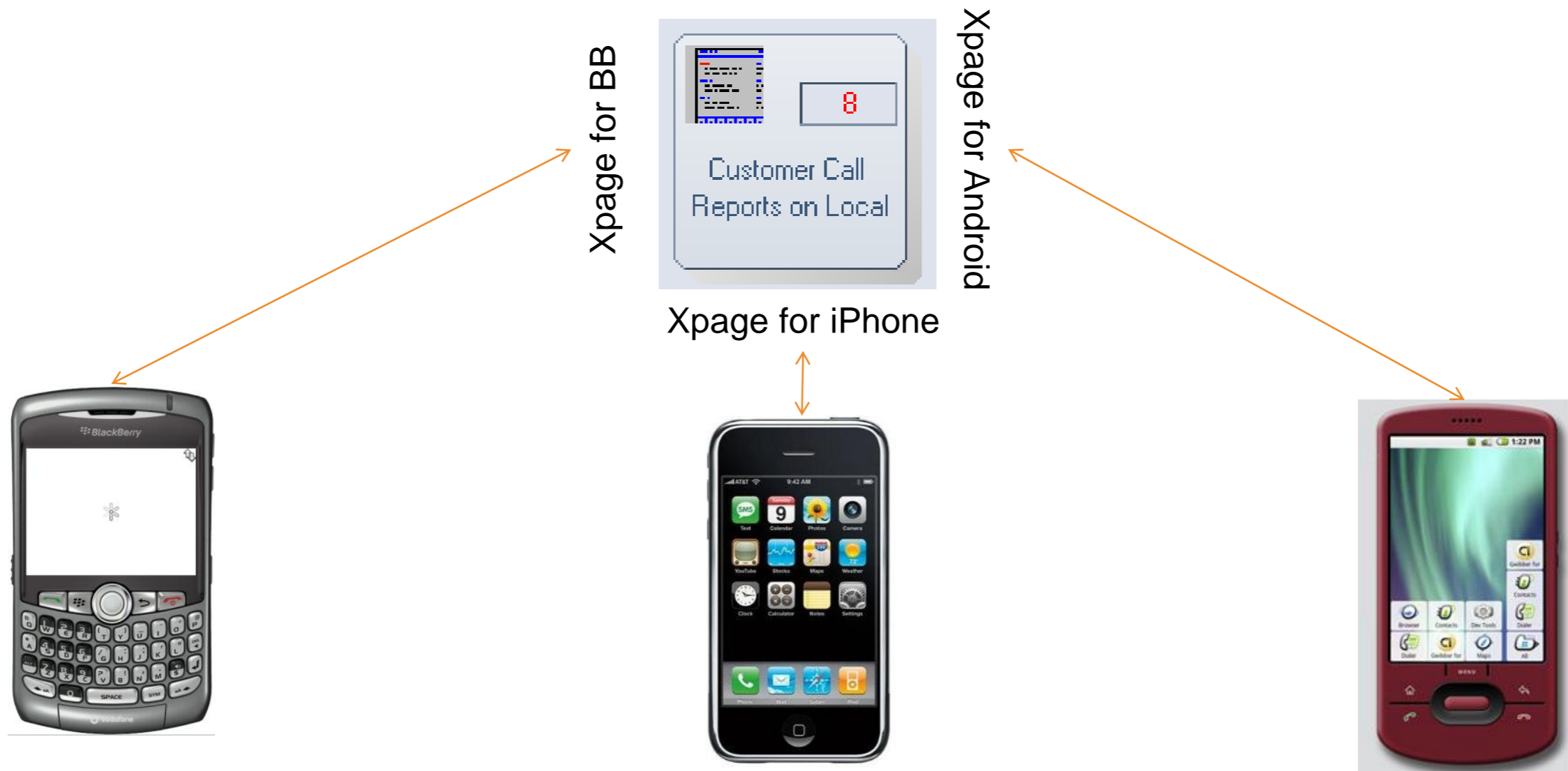
- Maintenance:- Bug fixes; Feature Requests; New device O/S compatibility. *Teamstudio* provides releases of Unplugged platform *you* update the apps
- Tablets will be supported from Unplugged 2.0 (Summer 2011)
- Pricing starts at $7,000 with NO limit to the number of applications

Mobile Controls Project – Open NTF

- Created by Niklas Heidloff early 2010

- Set of custom controls that allow the developer to drop data bindings in and create simple mobile apps

- Great for prototyping

- Provides native looking controls such as:

    - Slide in/out transitions

    - Spinning date pickers

    - Native menus

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Demo

Framework Types

- Considerations:

  - Integrates with existing architecture? Or additional servers/cloud?

  - Utilizes DDE or proprietary IDE?

  - UI Flexibility?

  - Code standardization?

  - Drag and Drop?

  - Deployment procedures

  - Skills acquisition and transfer?

  - Offline data store?

  - Integrate with native email?

Frameworks Do the Boring Stuff

HTML5
Browser Control
XSP Engine
Javascript Engine
Datastore

UI

Unplugged

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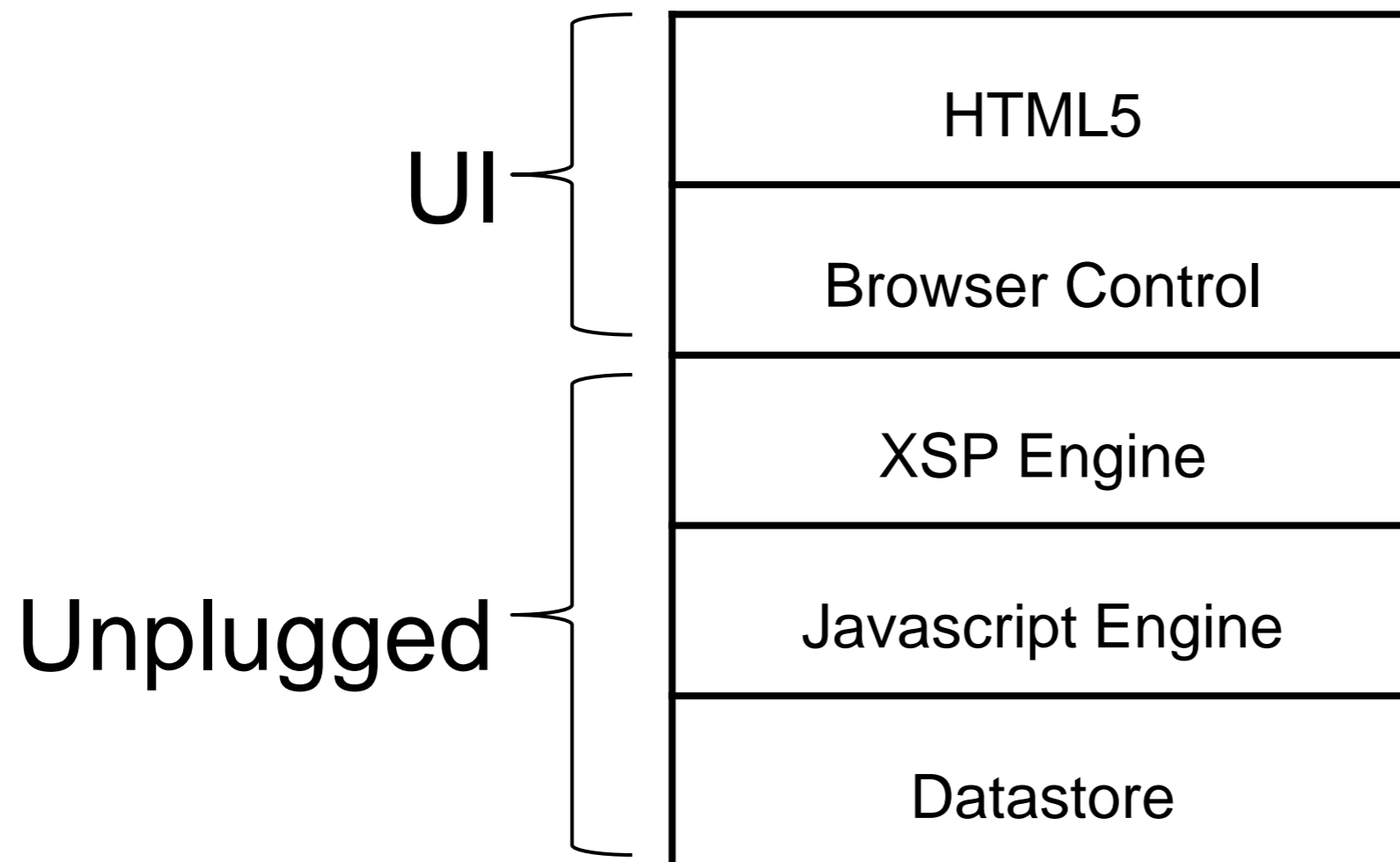
Demo

Applications in Current Demand

- 95% of people want approval workflow apps

- Mobile corporate address book would be beneficial

- Data/Informational document library

- Data entry reporting

No Silver Bullet

- Dependent on type of application as well as cost, devices, etc…

- Real time apps and large data quantities are best suited to web-apps

- Internal vs external applications – do you know your users device?

- Internal device policy – BYOD?

- A lightweight Notes® client where data is stored locally on the BlackBerry® for immediate response times
- Improve efficiency by working remotely, with or without Internet connectivity
- Guaranteed delivery of data using proven secure protocols
- Integrate with existing back-end systems like IBM DB2®, Oracle, SAP and others

"[With Teamstudio Unplugged] there are no more process interruptions if an approving manager is out of the office or offline… So far, I've been happy with everything." – SMC Global

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