Working in the Software Industry

UCC Computer Science, Feb 2016

Agenda

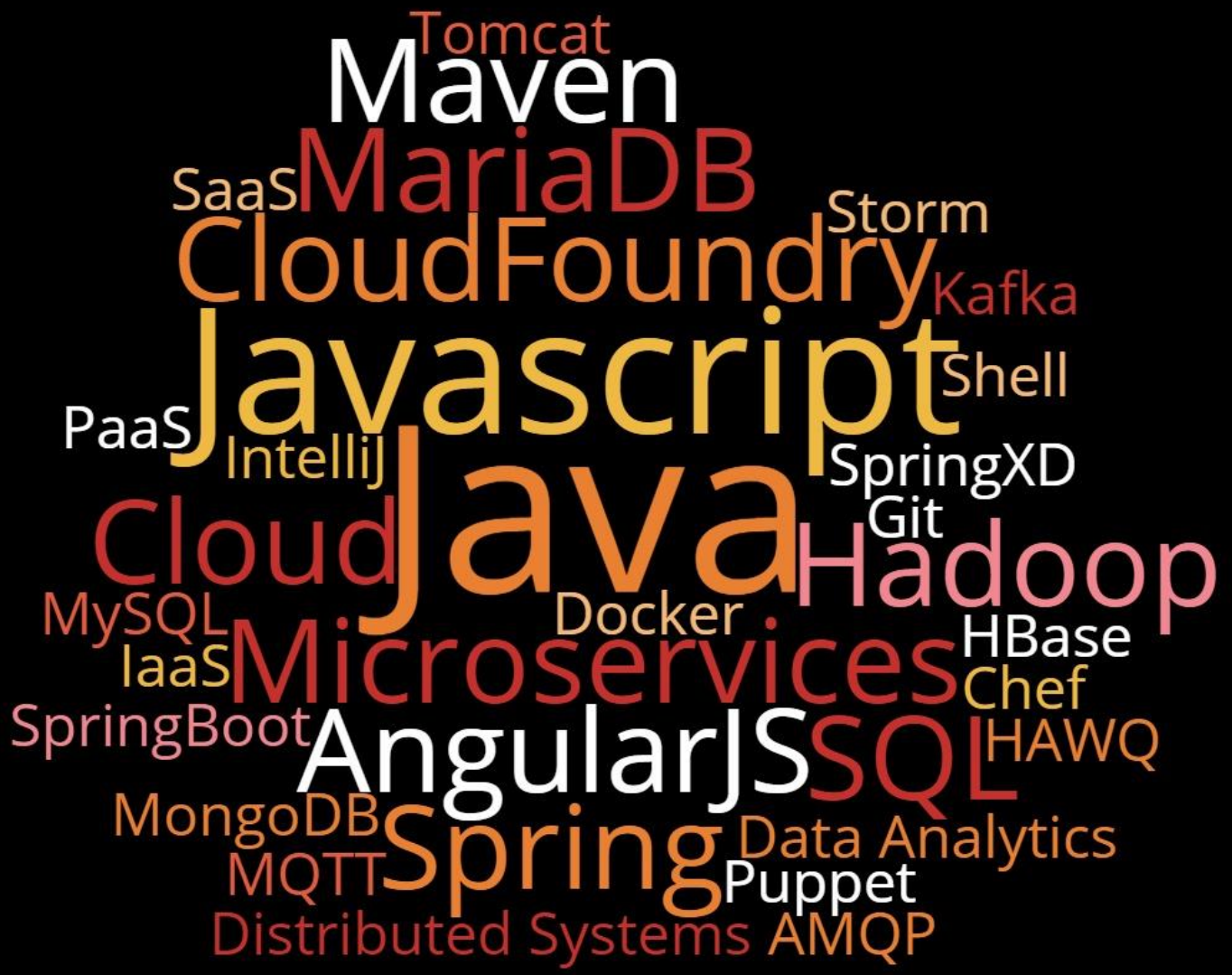
- Roles in Software Engineering
- Skills as Software Engineers
- Industry Trends
- How/Where we work - Our Office
- Q&A

New

Roles
in the
Software Industry

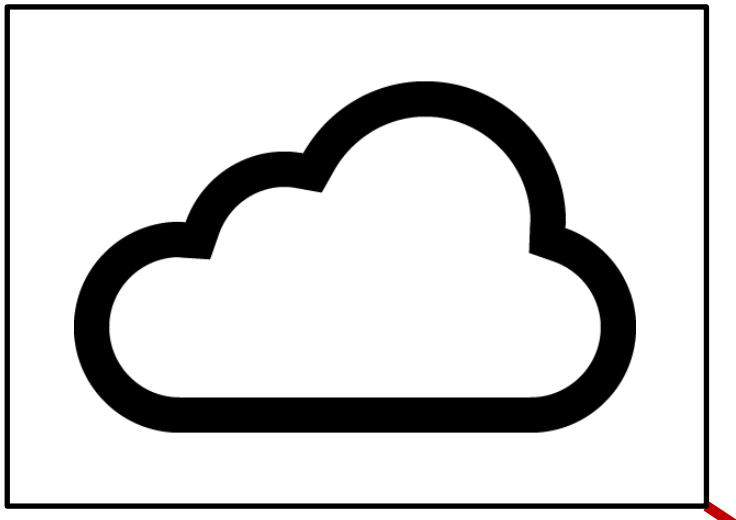
Embedded Engineer
UI Infrastructure Engineer
UI Developer
Project Manager
Systems Programmer
Business Analyst
Architect
Front-end Developer
Back-end Developer
Database Programmer
Software Director
Development Manager
UI Engineer
Data Analyst
Test Engineer
Software Engineer
Quality Assurance
DBA
Systems Analyst
Quality Engineer
Firmware Developer
Application Programmer
Programme Manager
Data Scientist
UX Designer
Graphic Designer

Skills
as
Software Engineers

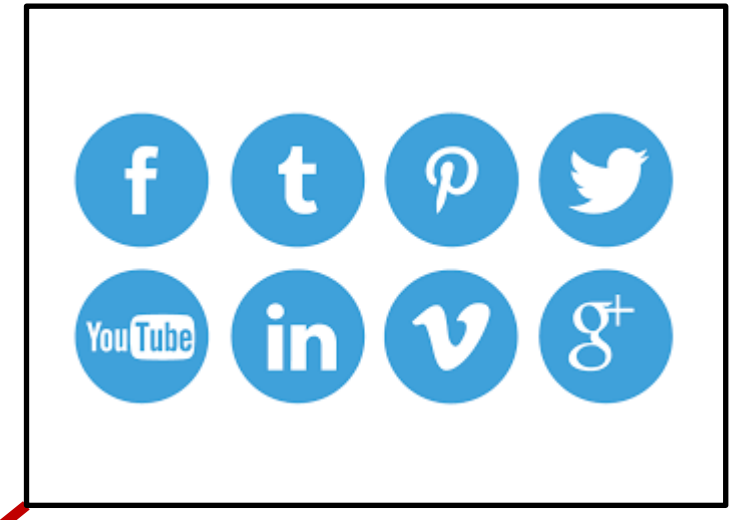

Tomcat
Maven
MariaDB
SaaS
Storm
CloudFoundry
Kafka
Javascript
Shell
PaaS
IntelliJ
Java
SpringXD
Git
Cloud
Hadoop
MySQL
Docker
HBase
IaaS
Microservices
Chef
SpringBoot
AngularJS
SQL
HAWQ
MongoDB
Spring
Data Analytics
MQTT
Puppet
Distributed Systems
AMQP

Assertiveness
Team Communications
Essential Leadership Skills
Influencing Skills
Presentation Skills
Strategic Decision Making
Time Management
Technical Writing
Emotional Intelligence
Interviewing Techniques
Negotiation Skills

Industry Trends

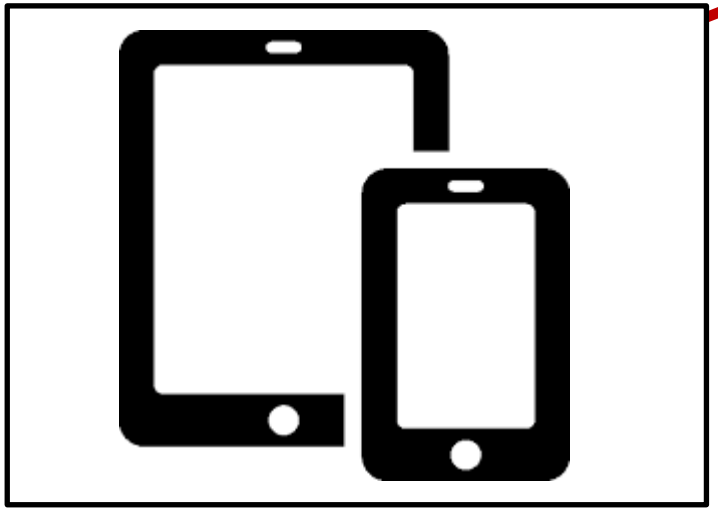


Cloud



Social

Mobile



Big Data

BILLIONS
OF USERS

3RD PLATFORM

MILLIONS
OF APPS

Mobile Cloud Big Data Social

Mobile Devices

HUNDREDS OF MILLIONS
OF USERS

2ND PLATFORM

TENS OF THOUSANDS
OF APPS

LAN/Internet Client/Server

PC

MILLIONS
OF USERS

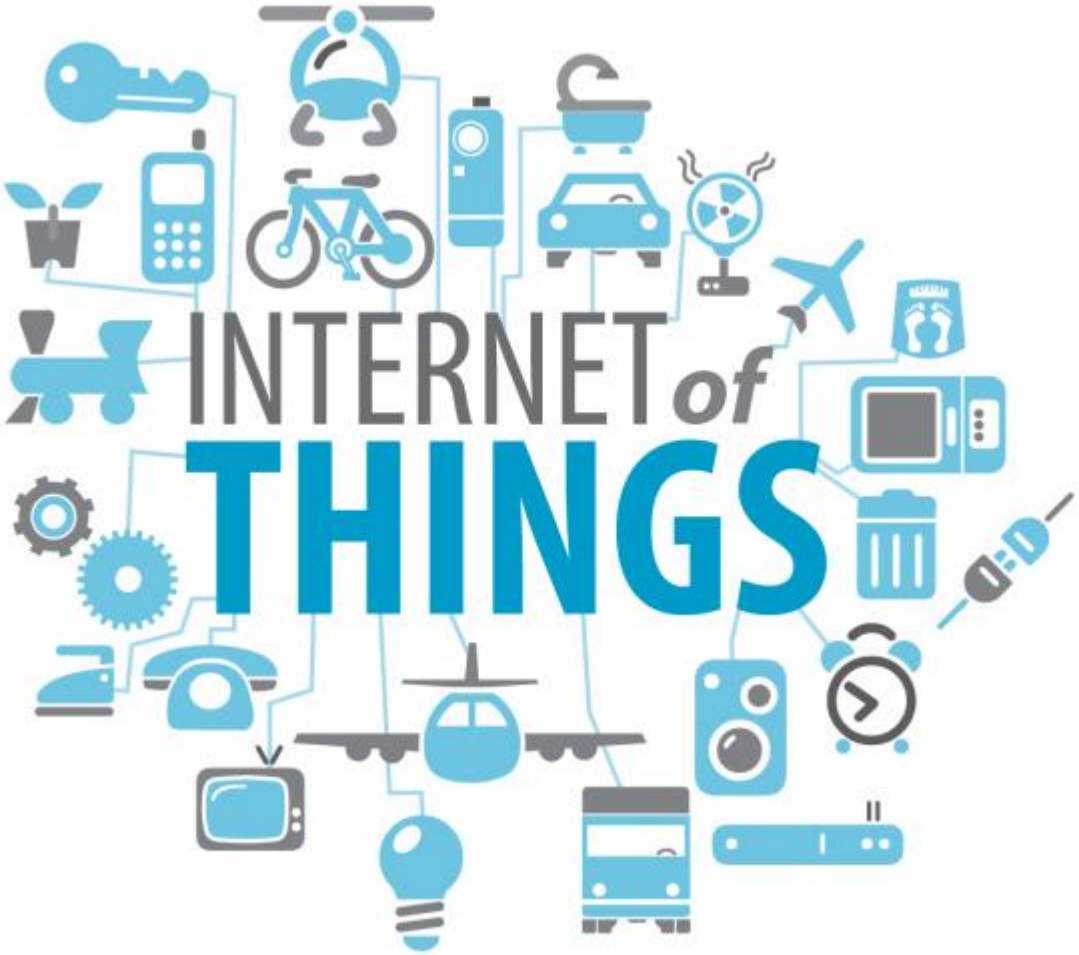
1ST PLATFORM

THOUSANDS
OF APPS

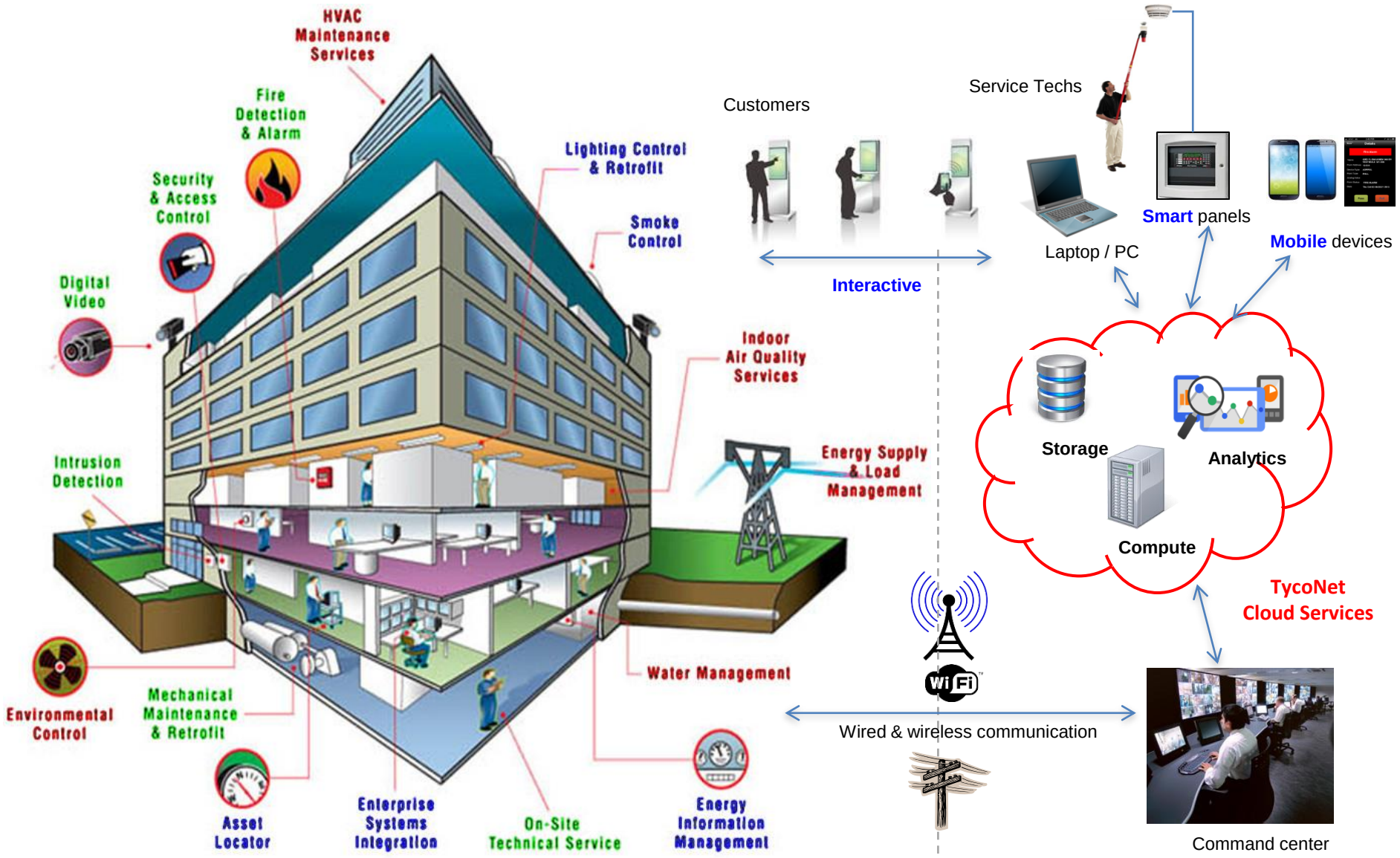
Mainframe, Mini Computer

Terminals

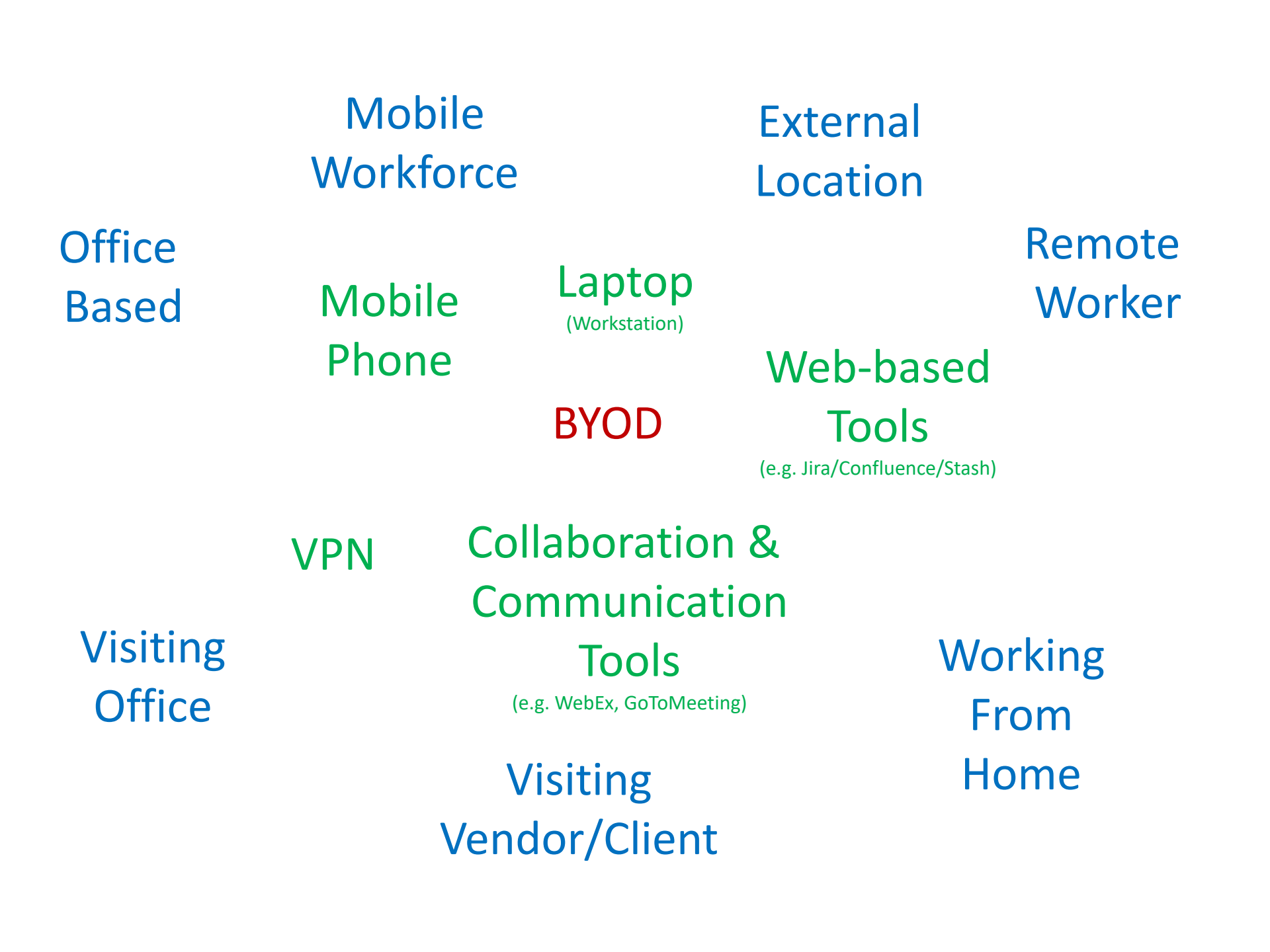
Source: IDC, 2013


INTERNET of
THINGS

// Smart Buildings



How we work


Mobile Workforce
External Location
Office Based
Remote Worker
Laptop
(Workstation)
Mobile Phone
Web-based Tools
(e.g. Jira/Confluence/Stash)
BYOD
VPN
Collaboration & Communication Tools
(e.g. WebEx, GoToMeeting)
Visiting Office
Working From Home
Visiting Vendor/Client

Where we work

onealbertquay

TYCO

Safer. Smarter. Tyco.

/ Safer. Sma

Q&A

Do you like building User Interfaces?

Are you good at debugging?

Are you a systems programmer or an application programmer?

Do you like testing?

Are you an architect or coder?

Questions for you

Do you want long-term or short-term projects?

Does management interest you?

Do you want to work for a big company?

Do you want to work on open-source projects?

Do you want to work for a small company?

Thank You