



# Project Management In Digital Age

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If you don't **innovate fast**, disrupt your industry, disrupt yourself, you'll be **left behind**.

John Chambers  
Chairman and Chief Executive Officer, Cisco, USA



## What is Digital Age?

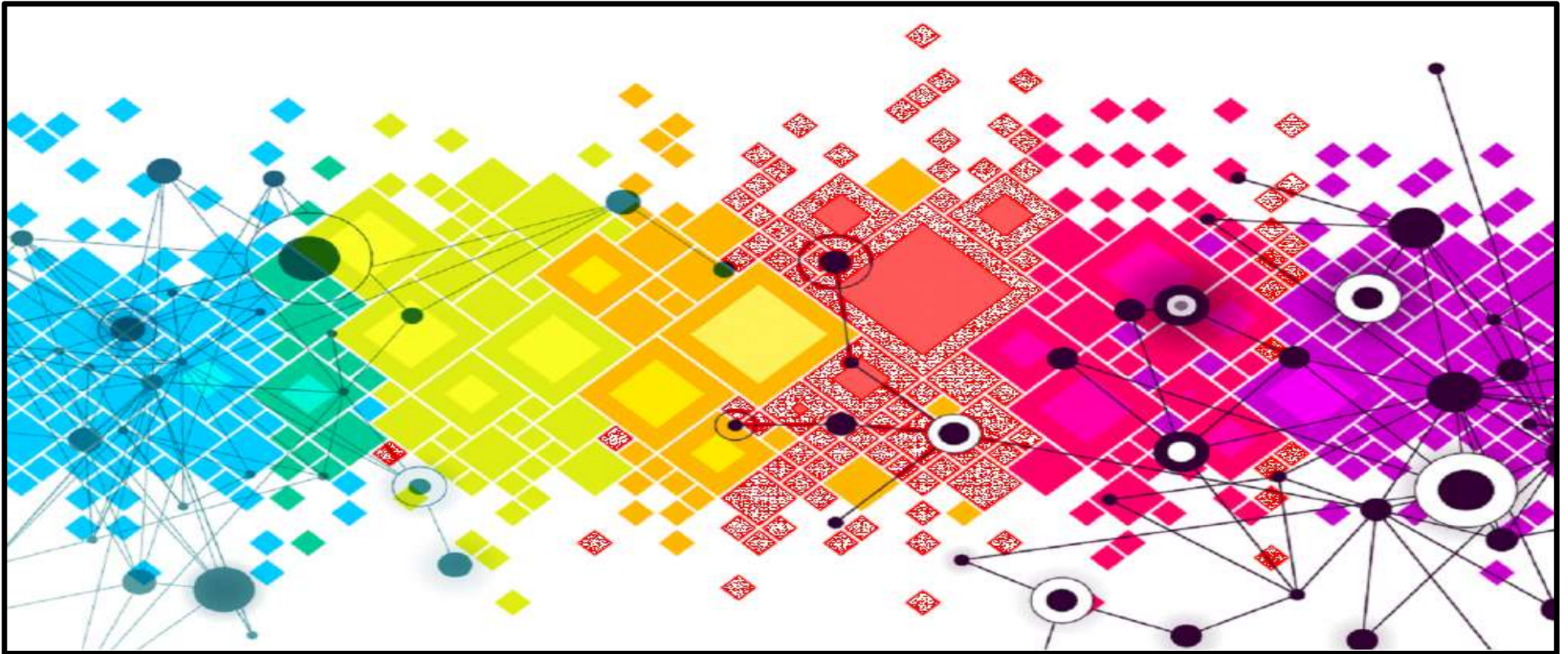
Time Frame in History That The Use of Digital Technology Became Prevalent & of Common Use Throughout The World.





## Digital Age (Information Age)

Characterized By The Shift From Traditional Industry That The Industrial Revolution Brought, To An Economy Based On Digital Revolution



## Typology of Digital Technologies

Common Technologies (From 1980)

Disruptive Technologies (From 2005)

## Common Technologies



Internet



Smart Phones



GPS



Email



RFID



Multimedia



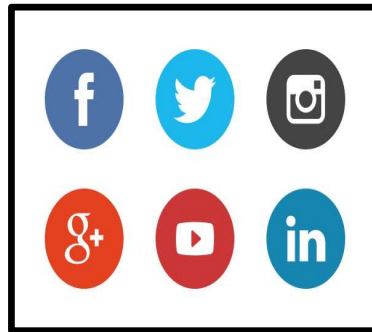
Pocket PCs



## Disruptive Technologies



Mobile Applications



Social Media



Cloud Computing



Data Analytics





# Disruptive Technologies

## Data Analytics



Better Forecasting, Judging & Decision Making in Key Areas

# Disruptive Technologies

## Social Media



Hear The Voice of Stakeholders & Escape The Narrow Lenses of Surveys and Focus Groups

# Disruptive Technologies

## Cloud Computing



Set Up What Is Essentially A Virtual Office To Give Flexibility Of Connecting To Business Anywhere At Any Time





## **Digital Project Management**

**Integrating Digital Technologies into Project Management**

**Use Digital Technologies to Drive Significantly Higher Levels of  
Project Management Performance & Success**



## **Digital Project Management Main Pillars**

**Social Project Management**

**Mobile Project Management**

**Analytical Project Management**

**Cloud Based Project Management**







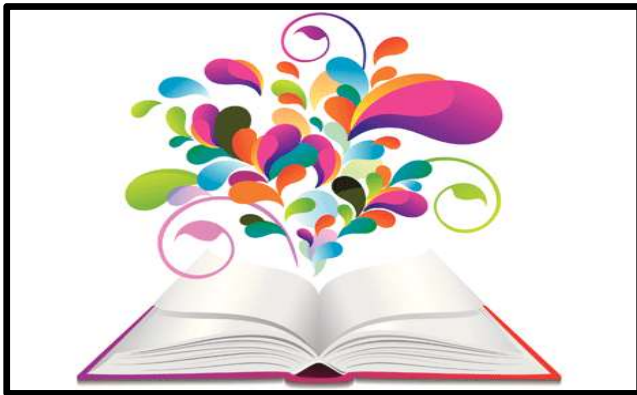
## Erik Qualman

American author of *Socialnomics*

*We Don't Have a Choice On Whether We Do Social Media.  
The Question Is How Well We Do It?*



# How Can Social Media Improve Project Management?



Learning Opportunity & Knowledge Sharing



Document Sharing



Developing Relationships & Group Communication



Team Building & Talent Acquisition



# How Can Social Media Improve Project Management?



Online Meeting



Real Time Information for Stakeholders



Reduction in Social Isolation of Remote Team Work



Participate in PM Community

## Major Social Platforms for Project Management

- **Linkedin**
- **YouTube / Aparat**
- **GOOGLE+**
- **Blogs**
- **WiKis**
- **SKYPE**
- **Telegram**
- **Twitter**
- **Instagram**
- **Slide Share**

# Online Project Management Communities

**6500+ LinkedIn PM Groups**

**8.5 Million PM Professionals on LinkedIn**

**+ one million YouTube Videos on PM**

**PMI's Online Communities of Practice**





# Benefits of Mobile Project Management



**Constant Connectivity**



**Better Communication**



**More Transparency**

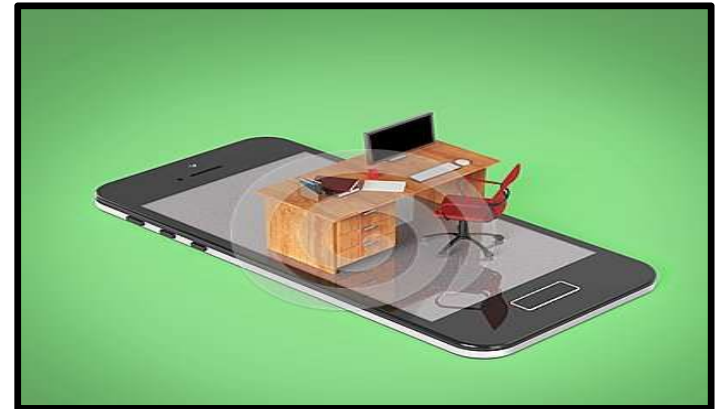


**Real Time Project Status**

# Benefits of Mobile Project Management



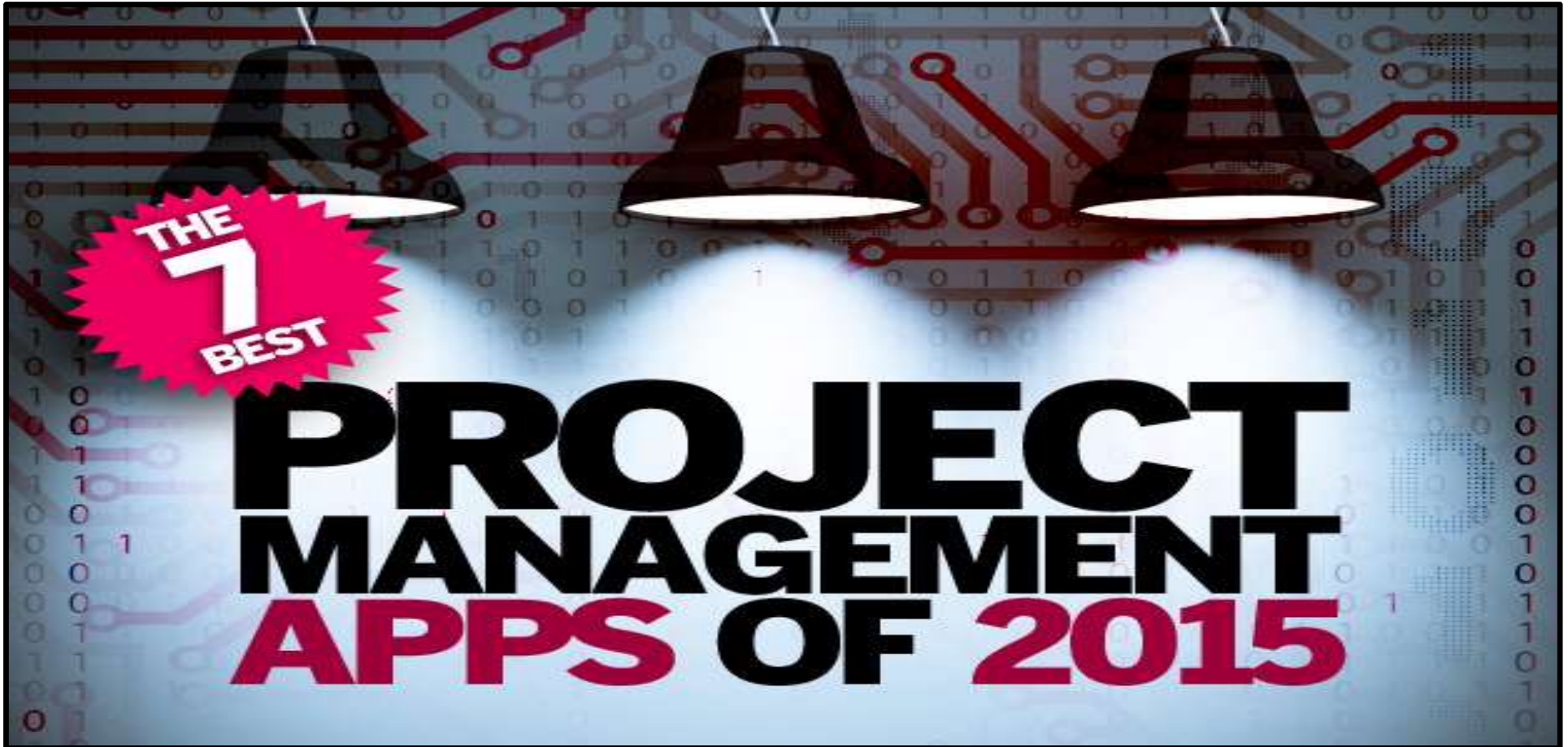
**Richer Learning & Knowledge Sharing**



**Suitable for Projects with Remote Offices**



**Suitable for Mobile Team Members**



## The 7 Best Project Management Mobile Apps of 2015 (cio.com)

## The 7 Best Project Management Mobile Apps of 2015 (cio.com)



Asana



ZOHO Projects



Trello



Clarizen



Liquid Planner

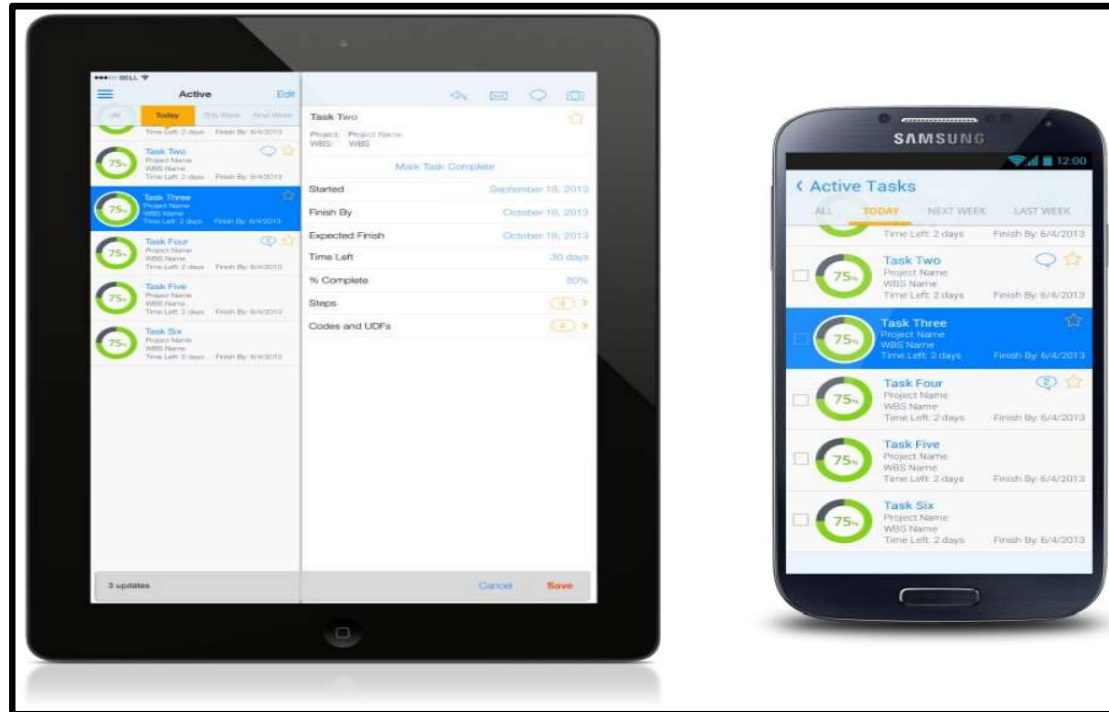


Podio



Mavenlink





## Primavera Mobile Solutions

### P6 EPPM (Enterprise Project Portfolio Management)

### Primavera P6 Team Member

## Mobile apps for Microsoft Project Server

Connect to Project Online Office365 (iPhone), Microsoft Project 2013, 2010, or 2007 from your phone and keep your project information up to date. This is Microsoft Project Server at your fingertips!



## Mobile Apps for MS Project Server

The screenshot displays the Microsoft Planner interface for a plan named "Sales Pipeline". The interface includes a left-hand navigation pane with options like "New plan", "Planner hub", "My tasks", and "Favorite plans". The main area shows a "Status" donut chart indicating 6 tasks left, categorized by status: 4 Not started, 1 Late, 1 In progress, and 1 Completed. A "Members" section shows workload bars for Unassigned, Robert Cowan, Chris Williamson, Ian Loman, and Julia Newman. A right-hand "Tasks" pane lists tasks such as "Send Latest Mailout stats", "Send Meeting Notes", "Follow up last week's message stats", "Add Google Adwords Conversions", "Send Sales Pipeline Figures", and "Invite new members".

# Microsoft Planner

**Microsoft SharePoint** Top Developer

Microsoft Corporation Productivity ★★★★☆ 141

3+ ✕ This app is incompatible with your device.

[Add to Wishlist](#) [Install](#)

**Sites**

Frequent sites

- TT Tailspin Toys innovation Team site
- PH Partner hub Team site
- SM Sales and Marketing Team site
- WT Wingtip Toys Group
- JV Jeff's VP blog Blog

SHOW MORE

Sites you follow

**Sales and Marketing**

ACTIVITY FILES LISTS SITE NAVIGATION

Wingtip Toys 2016-2017 marketing initiatives  
Adriana Case Shared 13 minutes ago

Tailspin Toys quarterly production update  
Joe Perrod Edited 1 hour ago

WT concepts research results  
Yara Modified 1 hour ago

ACTIVITY FILES LISTS SITE NAVIGATION

Recent

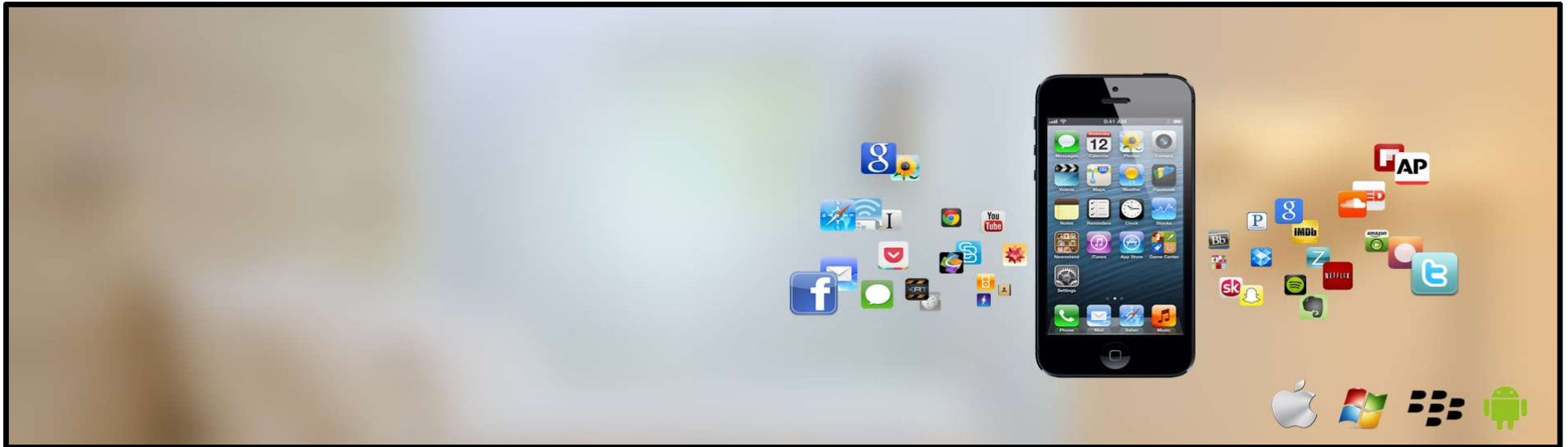
- New product sales guidelines.docx  
Last modified 11:30 AM by Torrenie Bryant
- WT concepts research results.xlsx  
Last modified 11:30 AM by You
- Tailspin Toys quarterly production...  
Last modified 10:18 AM by Joe Perrod
- Q3 Marketing plan.one  
Last modified 7:5 by Adriana Case
- Q2 Research update.pptx  
Last modified 7:5 by Sheri Stark
- WT concept illustrations.ai  
Last modified 7:2 by Cara Hobbs

Popular

- Q3 Product lineup one  
Last modified 11:35 AM by You

## SharePoint Mobile App





## **Mobile Learning Apps**

(A Special Case for Project Management)

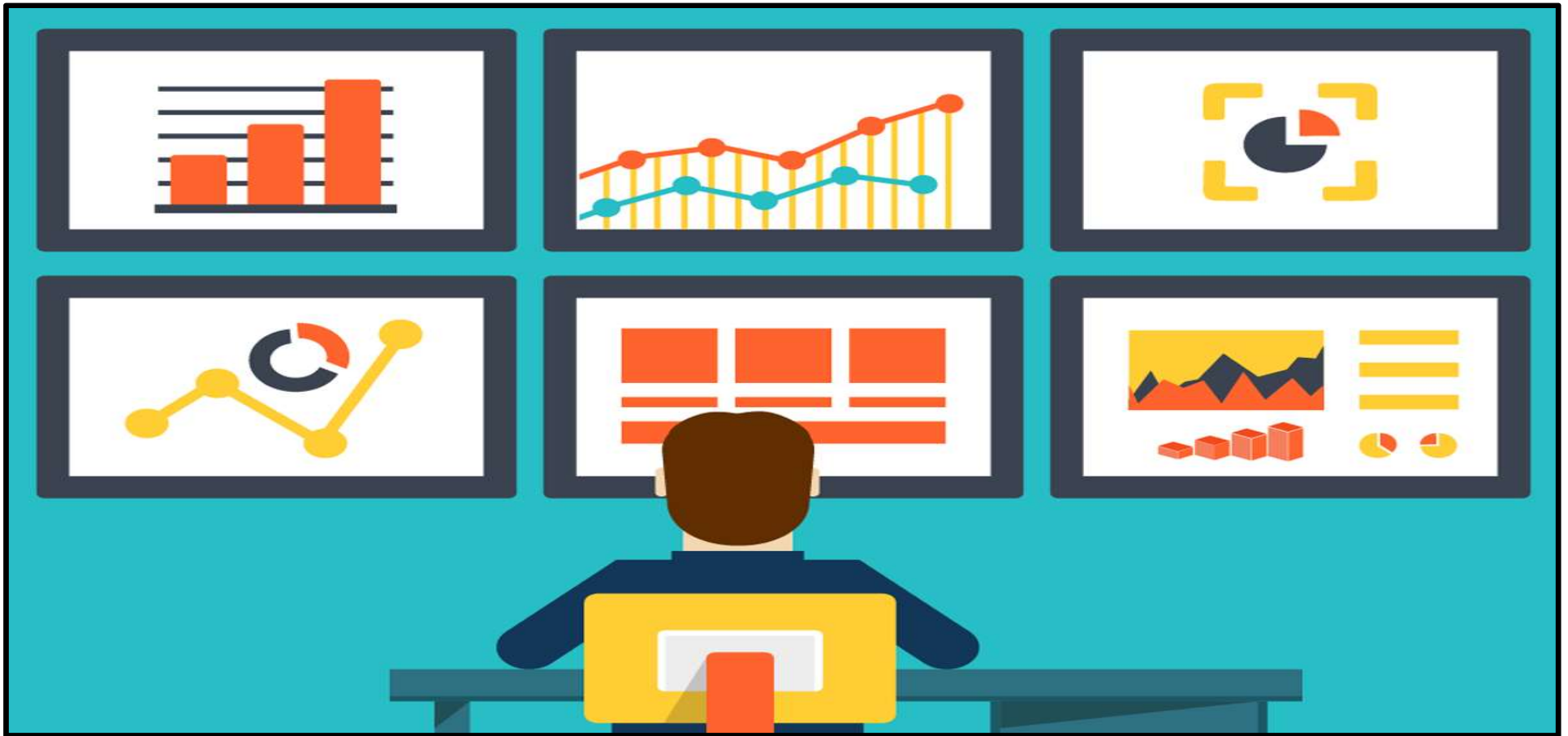
**Mobile Content**

**Mobile Discussion Forums**

**Mobile Webinars**

**Mobile Storytelling & Experience Sharing**

**Mobile Exams**

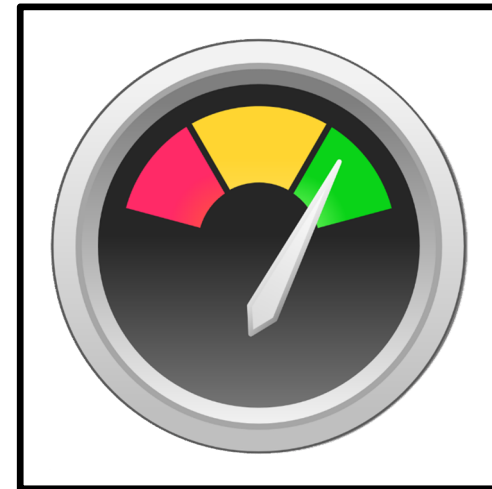


### 3. Analytical Project Management

## Difference Between Project Data Analytics & Project Dashboard

**Project Data Analytics is Semi-Structured (Ad hoc) Analytics**

**Project Dashboard is Structured (Pre-Determined) Analytics**





## **Data Analytics in Project Management**

**Project Management Analytics VS. Project Analytics**

**Project Level Analytics VS. Enterprise Level Analytics**

# Why Analytics are Vital to Project Management

Show How A Project Relates To & Impacts The Rest of The Organization

How Much Key Performance Indicators (KPI) Are Met & Provide Progress Updates To Stakeholders

See How a Change Made In Project A, Impacts Projects B, C & D

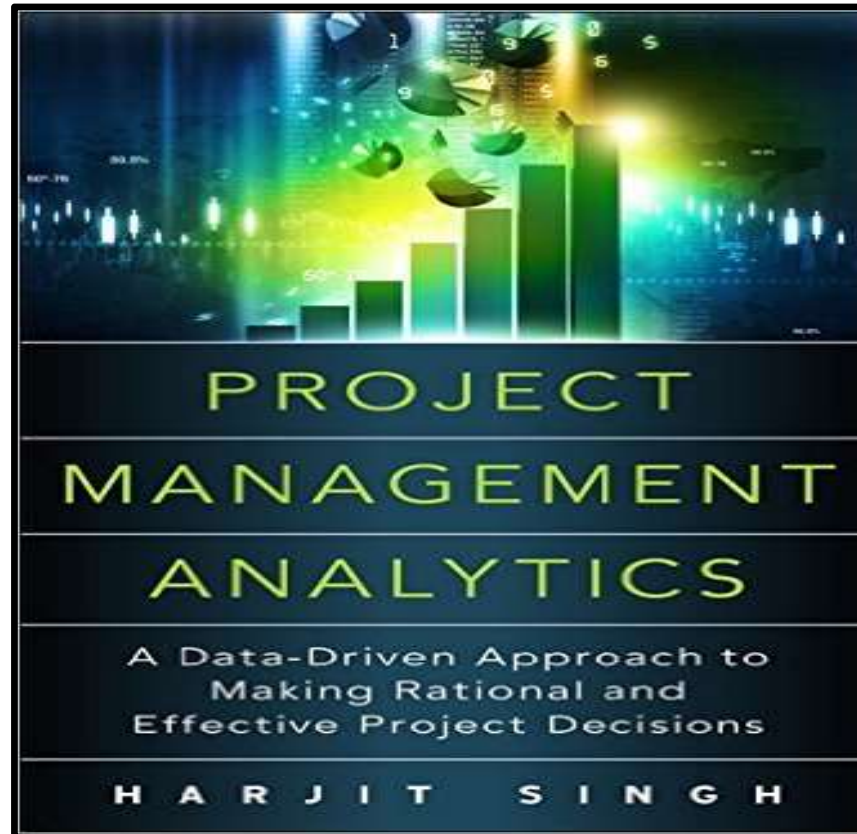
Tell How Each Day of Delay in Delivering The Product To Consumers Will Impact The Company's Profits

Predicting Customer Responses To Various Product Offerings, Pricing & Delivery Methods



# The 18 Best Analytics Tools for Project Management

- Business Experiments
- Visual Analytics
- Correlation Analysis
- Regression Analysis
- Scenario Analysis
- Forecasting/Time Series Analysis
- Monte Carlo Simulation
- Linear Programming
- Cohort Analysis
- Factor Analysis
- Neural Network Analysis
- Meta Analytics/Literature Analysis
- Data Mining
- Text Analytics
- Sentiment Analysis
- Image Analytics
- Video Analytics
- Voice Analytics



## New Book (2016)



## 4. Cloud Based Project Management



## **What Is Cloud Computing?**

**Delivery of On Demand Computing Resources (Everything From Applications To Data Centers)**

**Over The Internet On a Pay For Use Basis (IBM)**

**Storing & Accessing Data & Programs Over The Internet instead of Computer**

**Reversal of Traditional Business Case: “Buy Before You Try”**





**Project Management Software “As A Product”**  
**Change To Project Management Software “As A Service”**





## **Benefits of Cloud Based Project Management**

### **On Demand Self Service**

**Broad Network Access** (Project Data Accessible from Anywhere, Anytime)

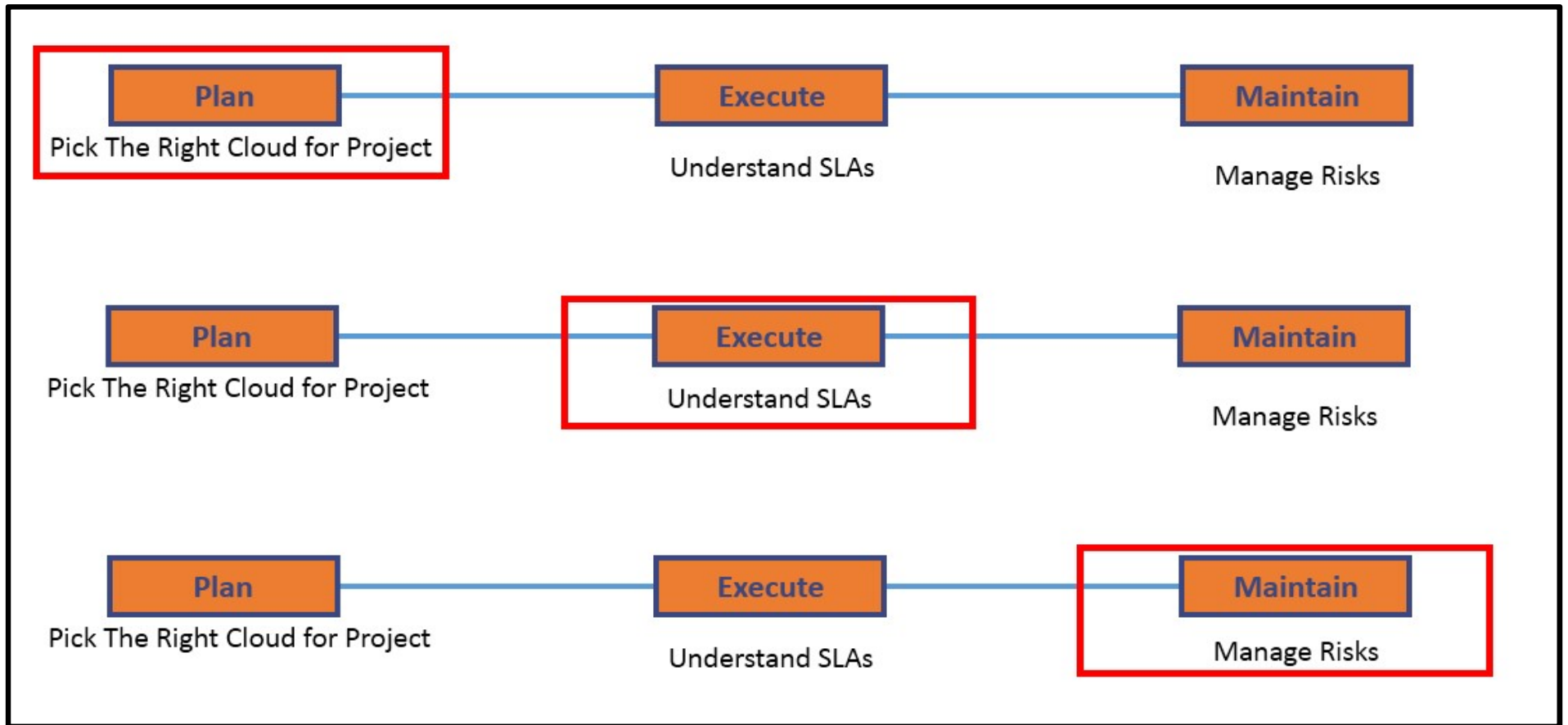
**More Remote Management**

**Lower costs**

**Incredible Scalability**

**Provides Instant Access To Dashboard To Overview Project Portfolio**

# How To Migrate?



## Some Key Considerations of Cloud Computing



**Security**



**Privacy**



**Contract**



**Governance**

# New Trend of Cloud Based Concepts

## PMO As A Service



## Conclusion & Some Recommendations

- ✓ **Don't Ignore The Power & Capabilities Of Social Media. Have A Well Defined Strategy For It.**
- ✓ **Mobile Apps Can Have Valuable Contributions To Project Management.**
- ✓ **Define Your Project Critical Decisions, Analytics Needed For Them, and Then Select Appropriate Analytical Tools & Techniques**
- ✓ **Try "PM Software As A Service" & "PMO As A Service". You Deserve Faster, Cheaper & Better PM Solutions**
- ✓ **Pay Attention To Emerging Technologies: Internet of Things (IOT), Virtual & Augmented Reality, Wearable Devices & Cognitive Computing.**
- ✓ **At The End, Don't Forget Brilliant Quote Of Jack Welch: "Change, Before You Have To"**



# Thanks For Your Attention



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