iJRASET
International Journal For Research in Applied Science and Engineering Technology



INTERNATIONAL JOURNAL FOR RESEARCH

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

Volume: 6 **Issue:** V **Month of publication:** May 2018

DOI: http://doi.org/10.22214/ijraset.2018.5438

www.ijraset.com

Call: 08813907089 | E-mail ID: ijraset@gmail.com

International Journal for Research in Applied Science & Engineering Technology (IJRASET)
ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 6.887
Volume 6 Issue V, May 2018- Available at www.ijraset.com

A Review Paper on Era of Digital

Tejinder Singh[1], Harmanjeet Singh[2], Er. C.K. Raina[3]
[1]*CSE Department, Adesh Institute of Technology, Gharuan, Punjab, India*
[2, 3]*HOD, CSE Department, Adesh Institute of Technology, Gharuan, Punjab, Indiia*

Abstract: As many organizations process strategies and transformation programmers to exploit ''digital', here is one prospective on simplifying this multifaceted agenda .we suggest six domains of digital that strategy should cover ,and five feature s of successful digital transformations.
Today most organizations have "all things digital' front of mind-both at board level and in their planning and operational teams .whilst the benefits might not always be quantifiable ,most executive are relying on their intuition to make investments to respond to this mega –trend. we think they are right to do so
Six domain of digital you need to address.
1) Customer experience &digital marketing
2) Digital business models
3) Digital organization
4) Analytics
5) Digital technology strategy
6) Governance ,risk &compliance
The objective of digital transformation span a avide spectrum ,including increased revenue, lost reduction, improved customer satisfaction, enhanced differentiation, and ultimately, mitigation of the risk of digital disruption. firms are investing heavily in customer experience as a of their digital transformation strategies.
Keywords: Adaptability, digital payment, user experience.

I. INTRODUCTION OF DIGITAL TANSFORMATION

Digital transformation is the process of shifting from traditional approach to new ways of working and thinking using digital, social, mobile and merging technologies.
Digital transformation may be thought of as the third stage of embracing digital technology :digital competence digital usage digital transformation , with usage and transformative ability informing digital literacy. The transformation stage means that digital usage inherently enable new type of innovation and creativity in a particular domain, rather than simply enhance and support the traditional method. In a narrower sense. "digital transformation" may refer to the concept of "going paperless " and effect both individual business and whole segment of the society such as government , mass communication ,art, medicine and science".
Digital transformation in enterprises is primarily about engaging with consumer using powerful digital services .This is now a consumer game where agility, ease of use , simplicity and the key element of design thinking critical success factors.
Digital transformations cut across customer experience, operation efficiency and the business model itself .

A. What is Digital Transformation

The term is very definitely being hyped by some ,and is danger of becoming as diluted in meaning as the ''cloud'' term as it becomes a catch all for almost anything associated with our new connected ,social media oriented world using emergent technology.
2017: strategy ,returns on investment and challenges .
Digital intelligence briefing: 2017 digital trends originally published: feb2017
It is the latest technology in computer science engineering. The 2017 digital trends report, based on the seventh annual trends survey conducted by adobe, highlights the digital trends.
Expert Christopher ward has done the research will help you convince the boss. Report Author Mary Shackled points out that what is fact has been happening in digital transformation initiatives.
With this technology, inserted at points with in the business where there are immediate needs for it.
During 2017, covering topics ranging from customer experience and mobiles of data driven marketing and personalization.

IJRASET: All Rights are Reserved

ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 6.887
Volume 6 Issue V, May 2018- Available at www.ijraset.com

The report is based on a global survey of more than 14,000 marketers and ecommerce professionals carried out at the end of 2016
A few months ago, tech pro research surveyed IT leaders about digital transformation in their organizations, only 20% said they had a comprehensive digital
Transformation strategy in place, but this does not mean digital transformation has not been happening

B. Digital Transformation Of Industries

The digital transformation of industries project, launched by the would economic in 2015 is a multiyear engagement with the aim to adjust the impact of digital technologies on business and society to better understand digital transformation opportunities and risks in industries and their related sectors and provide insights and required for business mode changes .
In2016-17 the project will focus on 8 further industries: chemicals, mining and metals, gas insurance , hospitality, professional services, telecoms and retail.
Object *The* goal of the project to generate insights into how digital technologies are changing individual industries how they lines between industries and the impact of these transformation on the wider society.

C. Object

The goal of project is to generate insights into how digital technologies are changing individual industries
How they blur the lines between industries, and the impact of these transformation on the wider society . it will be incumbents in successfully Tran staining from analogue to digital ,and entrants in identifying new market opportunities and competitive advantage enabled by digital.
The project has the following deliverables:
Industry deep dives documenting digital transformation in specific industries . case studies on how individual companies are successfully transitioning to digital workshops around the world to engage partners , sensitive them to our finding ,gather their insights on their most processing concern and porosities.
Session at forum event
A mini- site –digital we forum . out- that hosts our finding in a multimedia format.

II. THE PROJECT HAS THE FOLLOWING DELIVERABLES

Industry dives documenting digital transformation in specific industries .Case studies on how individual companies are successfully transitioning to digital workshops around the world to engage partners to our findings and priorities.

A. Opportunities

Today, digitally transformed organization are 26% more profitable than other competitor industries. All it organization now realize how transformative digital transformat as well. Global spending on digital transformation technologies is expected to cross $2.1 billion by 2019** .Thus, Indian & global it companies are investing heavily in building digital transformation skill to enable their client transform digitally However , 77% of companies considered lack of digital skills as the key hurdle to their digital transformation.

Demand

1) Efficiency
2) Quality
3) Reliability
4) Security
5) Time

Time

B. Digital Transformation Of Industries

The digital transformation of industries project, launched by the world economic in 2015 is a multiyear engagement with the aim to adjust the impact of digital technologies on business and society to better understand digital transformation opportunities and risks in industries and their related sectors and provide insights and required for business model changes.
In2016-17 the project will focus on 8 further industries chemicals mining and metals, gas, insurance, hospitality, professional services, telecoms and retail. The cross industry topic are: platform governance ,impact of policy regulation , social implication and impact of emerging technologies.

IJRASET: All Rights are Reserved

ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 6.887
Volume 6 Issue V, May 2018- Available at www.ijraset.com

C. Digital Transformation

Digital transformation is the change associated with the application of digital technology in all aspects of human society. The transformation stage mean that digital usage inherently enable new types of innovation and creativity in a particular domain , rather than simply enhance and support the traditional methods.

D. Devops

Devops (A clipped compound of "Software Developments" and "information technology operations") is a term used to refer to a set of practices that emphasize the collaboration and communication of both software developers and information technology(IT) professional while automating process of software delivery and infrastructure changes it aims at establishing a culture and environment where building and releasing software can happen rapidly , frequently and more reliably.

E. Overview

In traditional, functionality separated organization, there is really a cross departmental integration of these functions with it operation. But devops promotes a set of process and method. For thinking about communication and collaboration – between department s of development, QA(Quality Assurance) and IT operations . In some organizations, this collaboration involves embedding IT operations specialists within software development teams .Thus forming a cross –functional team- this may be combined with matrix management.

F. Goal

The specific goals of develops span the entire delivery pipeline. They include improved deployment frequency which can lead to:

1) Faster time to market;
2) Lower failure rate of new release;
3) Shortened lead time between fixes;
4) Faster mean time to recovery (in the event of a new release crashing or otherwise disabling the correct system).

Simple process become increasingly programmable and dynamic ,using a devops approach. Devops aim to maximize the predictability ,efficiency ,security and maintainability of operational processes. Very often ,automation supports their objective.

Devops integration targets product delivery, continuous testing, quality testing, feature development ,and maintenance release in order to improve reliability and security and provide faster development and deployment cycles. Many of the ideas (and people) involved in devops come from the enterprise system management and agile software development movements.

III. DEVOPS STRATEGY TO ENSURE SUCCESS IN THE CLOUD

Devops and cloud computing are linked. This fact is well understand by organization that seas cloud s or build application in the cloud.

The core component of this relationship is value through agility. Devops provides the automation behind agile methods. Traditional target platforms require week or months of planning for the hardware and software required.

Even with virtualization , the automated provisioning of those resources can't typically be done on demand.

When it comes to implementing devops in concept with the cloud , there a few core principles to understand the incorporate.

A. There should be a continuous process that include all aspect of development testing ,staging, deployment and operations. There should be no time where parts of the process can't be fully automated. This includes self or auto –provisioning target platform resources.

B. Major and minor changes to applications from development to operations, should typically occur in less than one day .moreover, the deployment platform should support almost unlimited provisioning of almost unlimited provisioning of resources.

C. The enterprises can exist on premises in the cloud ,or in hybrid configuration moreover, the use of multiple Cloud brands, such as AWS, Google and Microsoft, should be supported as well as public and private cloud models

IJRASET: All Rights are Reserved

Devops and cloud become the pged.

The Old Way	The New Way
(1)Software is build and shipped.	(1)Services are even and managed.
(2) Development Of feature is done.	(2) Services are never done until turned off.
(3)Product owner focus only on features.	(3)Product owners own operational results along with the product feature set.
(4)Each silo owns its own area.	(4) All user focus on end user satisfaction.
(5) Devs must go through ops to get work done.	(5) Ops enables dev to get work done.
(6) Ops monitor apps.	(6) Ops provides dev with tools to operate apps.
(7) Reactive monitoring /ops.	(7)Proactive monitoring/Dev.
(8) Customer are isolated from each other.	(8) Multi-tenancy and shared resources.
(9)Application services share common platform and infrastructure.	(9)Distributed services on isolated instances , hardware independence.

IV. BENEFITS OF DIGITAL TRANSFORMATION

The financial services industry, like many other, is experiencing rapid change particularly in the area of digital marketers are forging a path original and innovative ideas. As such ,business are starling to the potential of digital for engaging customer externally , but also for streamlining internal process.

This seismic digital transformation has the potential to integrate and streamline entire business processes in order to increase business performance

A better customer experience

1) A positive customer experience starts with every internal team with in yours business understanding their role in redelivering that experience. Put in place processes and tools to educate staff about your organizations most valuable marketing asset- your unique brand experience through your entries customer journey

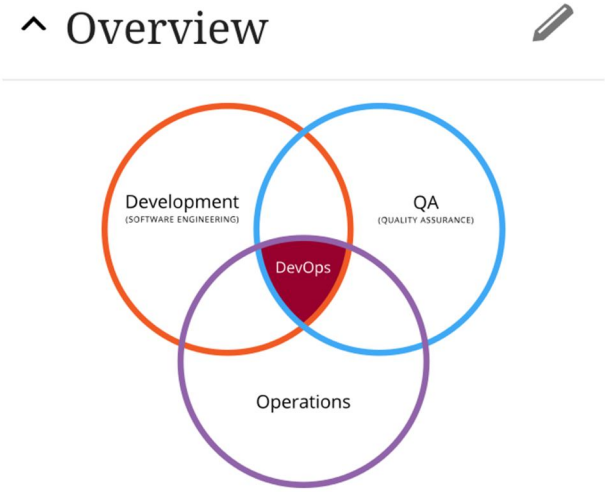
2) An enhance brand reputation Today, 81% of executing are placing the highest priority in actively managing their banks brand or reputation compared with 68% in 201.

3) Stream operation; 58% of organization have failed to adapt their internal process for digital. Streaming operations saves time money and allow to be more efficient with their time PA consulting, digital barometer.

4) Increase in sales.

IJRASET: All Rights are Reserved

Companies that have embraced digital transformation are 26% more profitable than average industry competitors and enjoy a 12% higher market valuation/MIT center of digital business.



Venn diagram showing DevOps as the intersection of development (software engineering), operations and quality assurance (QA)

A. (O) 5Tech Trends That Will Change The World In 2017

1) Internet of things (and the death of the hub).
2) The best a\v products.
3) The best smart home products.
4) Food industry expert predict a wild future for food.
5) 3d printing for all.

ALL SURVEY RESPONDENTS (96%) IN DIGITAL
DS FOR DIGITAL TRANSFORMATION..
DIGITAL TRANSFORMATION IN JAVAL ENTERPRISE WITH DEVOPS PROGRAM

B. How can you make or digital journey successful:

Successful digital transformation in our study used a common set of elements each is a lever executives can use to initial and device digital transformation in their organization. Leaders diagnose the potential value of existing corporate assets and build a transformative vision for the future. Then they invest in skills and initiatives to make the vision a reality. Fundamental to the transformation is effective communication and governance to ensure that the firm is manning in the right direction

The elements work together in an iterative approach constantly communicating and writing to re envision and further implement new types of digital transformation. Senior executives drive digital transformation through on iterative three step process.

1) Envision the digital future for your firm.
2) Invest in digital initiatives and skills.
3) Lead the change from the top.

V. CONCLUSIONS

We are in an era of digital disruption. Agile digital transformation is a way to bridge the gap globalization is commanding efficient integration of businesses which can only be achieved through digital processes and collaborative platforms. Customers are demanding new ways of engaging. As competitors and new players make digitally enabled practices a reality, businesses must harness the power of transformation to remain relevant and competitive

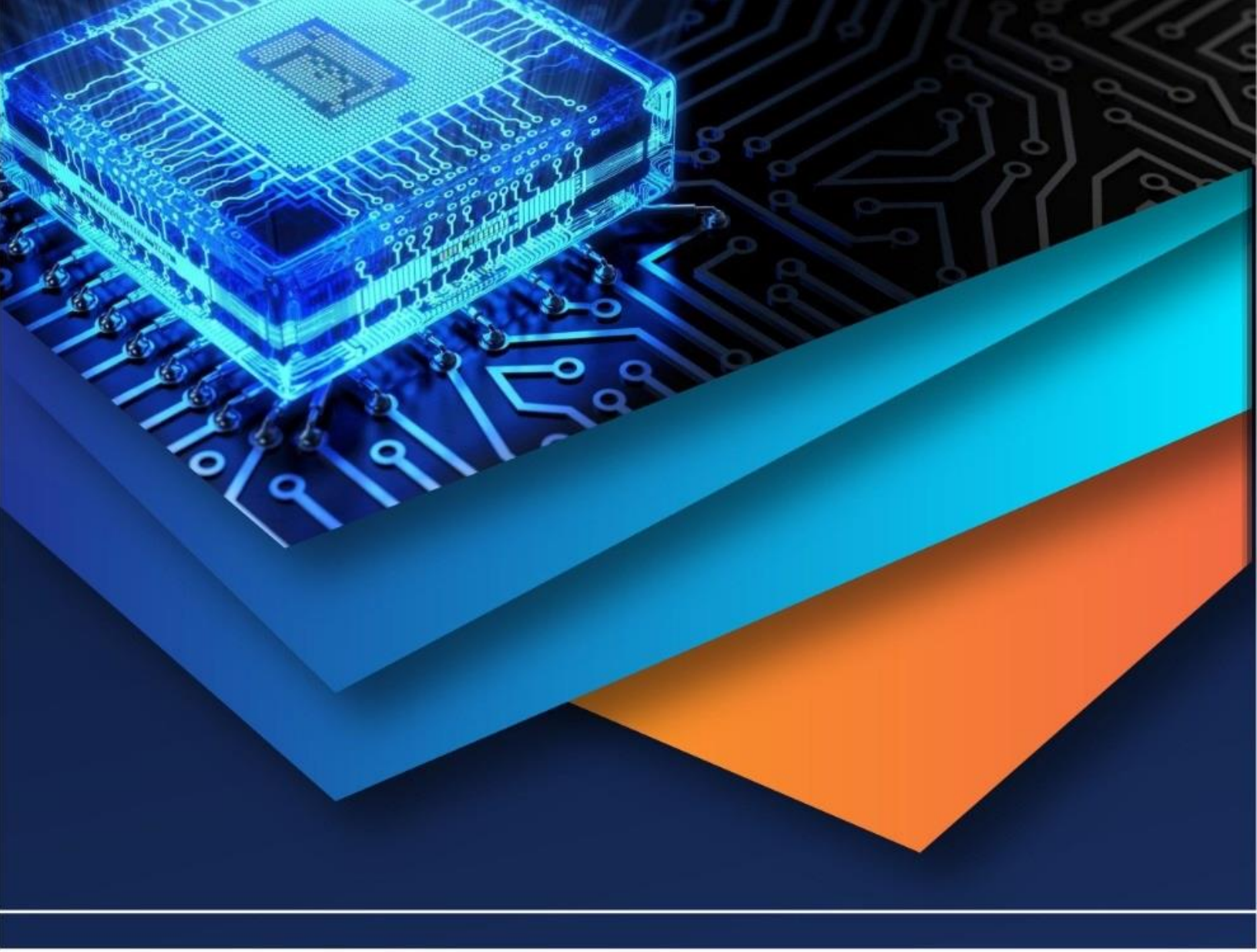
what benefits should a company expect to see from its transformations. The answer: increased revenue resulting from superior customer experiences, improved long. Term enterprise value through enhanced process agility, continuous innovation, and improved return on IT investments through best of breed platforms that reduce an organizations technology debt

IJRASET: All Rights are Reserved

REFERENCE

[1] ^Sto Hermon, Erik; croon Fors, Anna(2004) "information technology and the food life" information systems Re-search: relevant theory and informed practice p.689. ISBN 1-4020-8094-8.
[2] ^Digital transformation; the essentials of e- business leadership, by keyur patel, Mary Pat Mc Carthy, 2000, ISBN 0-07-136408-0
[3] E- government in Canada; transformation for the digital age by Jeffrey roy, 2006, ISBN 0-7766-0617-4
[4] ^Digitization for economic growth and job creation: regional and industry prospective".
[5] ^Digital transformation: A road map for billion – dollar organization copgemini consulting 2011.
[6] ^Shannon, C.E(1938).A symbolic analysis of relay and switching circuit trans.AIEE57(12):713-723.cambridge:massachusets institute of technology.
[7] ^Digital transformation by mark baker, 2014, ISBN 978-1500448486.
[8] ^Digital medicines: implication for healthcare leaders, by Jeff Charles goldsmith, 2003, isbn-1-56793-2011-8.
[9] ^von Leibniz, Gottfried (1703). Explication deI' Arithmetique Binaire, die science(thesis) academic royale des sciences.
[10] ^Khan, shahyan (2017-06-02). Leadership is the digital age-a study on the effect of digitalization on top management leadership (thesis). Stockhalm business school.

IJRASET: All Rights are Reserved



10.22214/IJRASET

45.98

IMPACT FACTOR: 7.129

IMPACT FACTOR: 7.429

INTERNATIONAL JOURNAL FOR RESEARCH

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

Call : 08813907089 (24*7 Support on Whatsapp)