

#### **Planning and Running Digital Transformation Programs**



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What is Digital Transformation?

# **Digital Business Transformation is a Journey** to Adopt and Deploy **Digital Technologies and Business Models** to Quantifiably Improve Business Performance

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Project Management Institute, Kingdom of Saudi Arabia

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### The 10<sup>th</sup> Digital Transformation Report by DGA



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### The 10<sup>th</sup> Digital Transformation Report by DGA



مفهوم التحول الرقمي

تحويل نماذج الأعمال وتطويرها بشكل استراتيجي، لتكون نماذج رقمية مستندة على بيانات وتقنيات وشبكات الاتصال.



#### **Digital Transformation is Blurring the Lines**



## Digital

Technologies based on computer, electronics and communication sciences, which make use of the increasing volume of information and connectedness of physical resources.

## Physical

Technologies based on basic properties of materials, energy, forces of nature and their interactions. A Biological

Technologies based on biological aspects, including, but not limited to: biological systems and living organisms (or derivatives thereof), to make products and processes for specific uses.









#### **The Technology Challange**

- Innovative projects may be the first to deploy certain technology in specific field.
- Partnership is required to enhance revenue generation streams and system usability.

#### Financing the Journey (REVOPS and DEVOPS Cycles)

# Difficulty to monetize the benefits of some transformation projects

DEV: Development OPS: Operations REV: Revenue Generation

#### **Short Term Products**

- The short-term nature of technology-related projects can be outside remit
- Additional risk and challenges of transformation projects need to be considered.

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Projects might not have a clear path to steady revenue

A WEIGHER BUSINESS

**REVOPS** 



DEV



### The Inception Phase

O A https://www.pmi.org/disciplined-agile/inception-goals

**PM** Disciplined ::: X Agile

Welcome \ Mindset People

Process v Resources v Training \ Certify ~ **Business Solution**  Q

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#### The Inception Phase

The Disciplined Agile® Delivery (DAD) portion of the DA™ process tool kit includes an explicit Inception phase - sometimes called a project initiation phase, start-up phase, or itera 0 p/sprin zero – which is conducted before Construction. The primary purpose of this phase is to do just enough work to get your team going in the right direction. You will likely need to grown so initial requirements modeling, some initial architecture modeling, some initial 20 organizational activities to do this. An Inception effort is required when:

- You are initiating a product team.
- · You are taking a project-based approach.
- Your existing team has pivoted in a significantly different direction than the they when sking before and need to come to a common vision as to where they are now heading.
   Inception process goals are:

   m Team
   with Enterprise Direction
   Scope
   Vrchitecture Strategy
   elease
   t Strategy

#### The Inception process goals are:

- Develop Test Strategy
- Develop Common Vision

Secure Funding

Relate Resources Delivery Life Cycles

Process Goals

Process Goals

- The Construction Phase
- The Transition Phase







Identifying The Journey's Vision and Mission

#### Vision: To rebuild "Jeddah" city as the Third best smart city in the "Kingdom"

Mission: Re-plan and Develop "Jeddah" as a smart resilient city using the relevant emerging technologies to build a renewed city that will achieve the major goals of all stakeholders



ALL DISTRICTIONS







### Defining the Strategic Objectives (Long and Short)



#### Identify Areas that can be upgraded as a smart districts

- Work on relevant infrastructure
- Establish solid engagements with the Saudi Vision team

#### (Short Term)

01

02

03

(Short Term)

#### Ensure high-value deliverables and financially-sustainable Funding

- Integrate with Financial Institutes who are willing to participate
- Attract, upskill, and retain employees with required competencies & capabilities

#### (Short Term)

#### Build the right engagement model

- From Emerging Technology perspective
- From Stakeholders expectations and involvement

#### (Long Term)

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#### Define the operation model for the smart city

- Augment planning, collaboration and financing options with all stakeholders
- Define sustainability mechanism to satisfy ESG goals with smooth operations







#### **Building the Strategic Map Pictorials**

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#### Stakeholders Identifications





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# **Emerging technologies**





## **Emerging Technologies (1)**



https://www.raghwendra.com/blog/emerging-technologies-2019-2020-and-forever/

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## **Emerging Technologies (2)**



https://www.raghwendra.com/blog/emerging-technologies-2019-2020-and-forever/







### Challenge Cards

Challenge Subject									
Sector		Department/Function							
Ν	/lain Challenges	Suggested Resolutions							
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#### **Strategic Pictorials**

Well defined and Sufficient resources can be

- Initiatives
- Projects
- **Enterprise Architecture**
- Prioritizations

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Awarness, rsearch and selection

Identified and prioritized









### **Project Cards**

	Project Card					
	Initiative					
	Project #		Project Name			
			Project Owner			
	Ohiostive		Link with Goals			
Objective	Objective		Link with KPIs			
			Additional Services			
	Time Frame		Budget			

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### **Initiative Cards**

**Details** 

**PO** 

Time Table Status : New

% of completion : % \*

Start Date : Q1 2023

Finish Date: Q2 2025

Finan cing



Total Budget :SAR

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#### Initiative Name:

Initiative Goals:

• 1

• 2

• 3

Initiative Description



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### Preparing the list of Prioritized Initiatives and Projects



Initiative	Focus Domain	Associated KPI's	Objective	Duration	Resolved Challenge	Additional Info
Building a smart parking solution	Transportation	% of congestion reduced	Enhance the quality of life	1 Year	Congestion and Frustration	N/A
Mile Stones						d









**Enterprise Architecture** 

- There are different types of EA frameworks, such as Zachman, FEAF (Federal EA Framework) and TOGAF (The Open Group Architecture Framework).
- The Saudi DGA (Digital Government Authority) has developed NORA (National Overall Reference Architecture)



https://dga.gov.sa/sites/default/files/2022-08/Enterprise%20Architecture%20Establishment%20for%20Government%20Entities.pdf

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### **Enterprise Architecture**

#### **Governance & Enablers**









**No One Size** 

# One size does NOT fit all

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#### **Organizational Structure**

Expert panel to support strategic, technical and functional topics



**Business** Owner

1/41/2023



#### **Prioritized Projects and Distribution**

#### **Prioritized Projects and Distribution**

Initiative	Project	Q4-25	Q3-25	Q2-25	Q1-25	Q4-24	Q3-24	Q2-24	Q1-24	Q4-23	Q3-23	Q2-23	Q1-2
Initiative AA	Project A											1	
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## Digital Transformation



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