



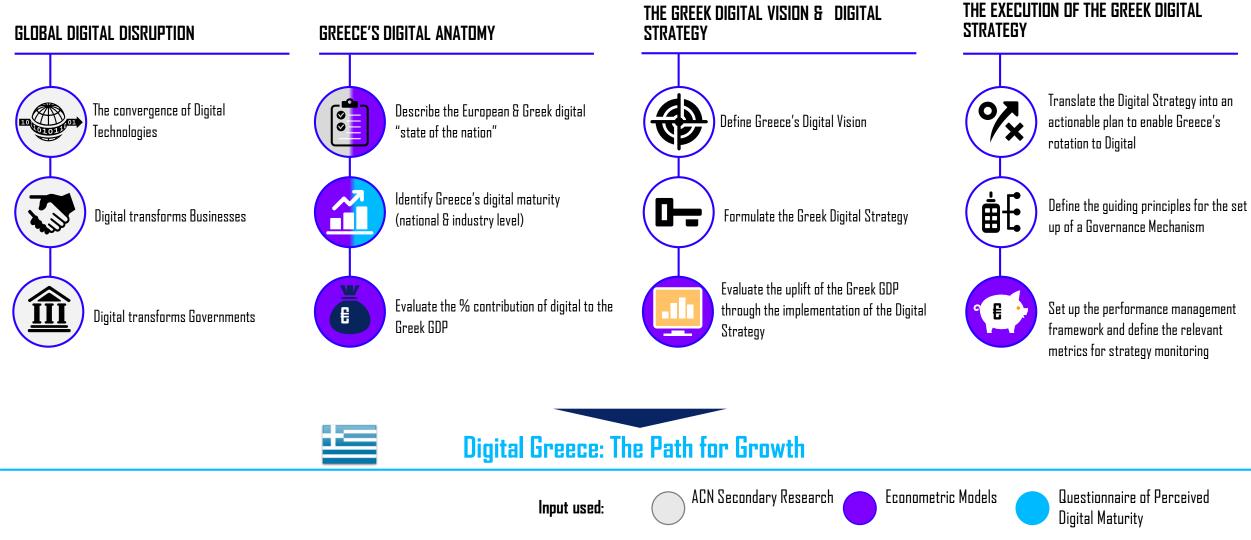
### DIGITAL GREECE: THE PATH TO GROWTH - SYNOPSIS

Athens, May 2017

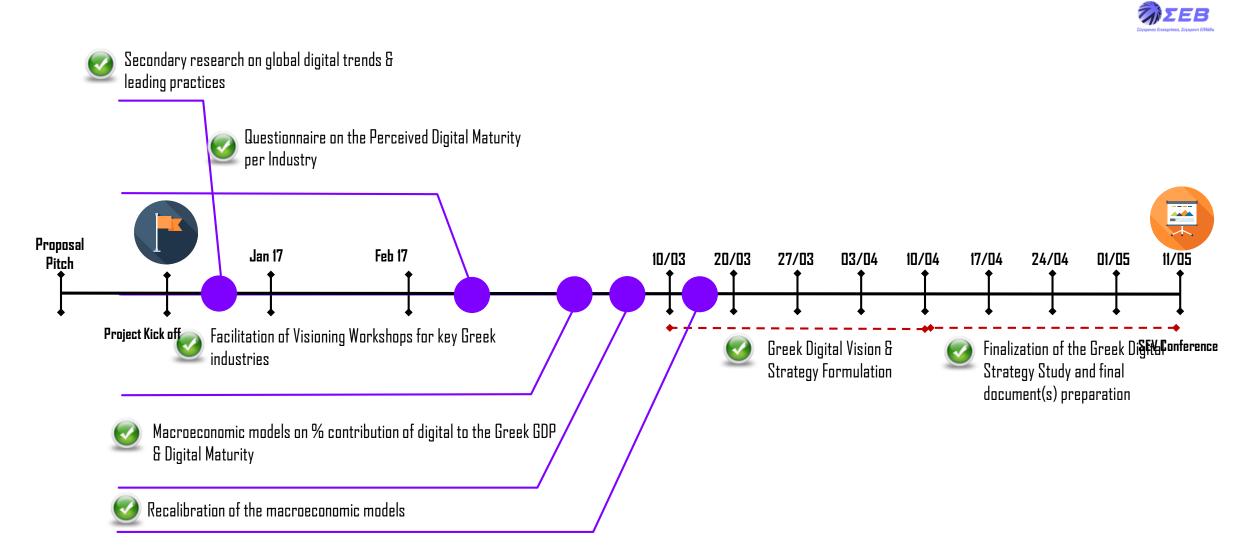
### PROJECT ON A PAGE

#### EVALUATION OF THE DIGITAL "STATE OF THE NATION" AND DESIGN OF THE WAY FORWARD





### PROJECT TIME PLAN AN AGGRESSIVE TIME PLAN WAS PUT IN PLACE IN ORDER TO MEET CLIENT accenture



# GLOBAL DIGITAL DISRUPTION





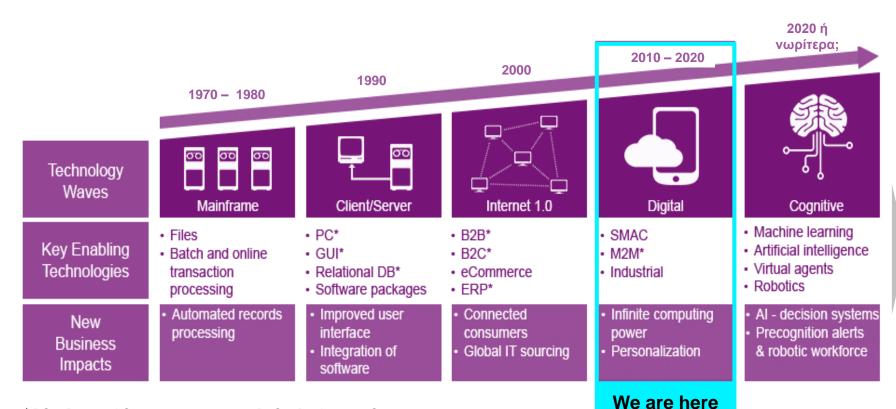
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### **THE EVOLUTION OF TECHNOLOGY**

#### **DIGITAL TECHNOLOGIES – THE "PRIME** SUSPECTS" OF THE DIGITAL REVOLUTION



ΏΣΕΒ



- After almost four decades of exponential increase, > the world is now doubling an immense amount of processing power, which is leading to astonishing leaps forward
- Technology is now more affordable, integrated and > smart. It accelerates our movement to digital
- Connectivity has become the "king" in this new > digital world, where we are all connected with everyone and everything
- Sophisticated smart devices are now mass-market > and better known as personal assistants by the names of Alexa. Siri and Cortana

\* PC – Personal Computers GUI - Graphic User interface DB – Data Base

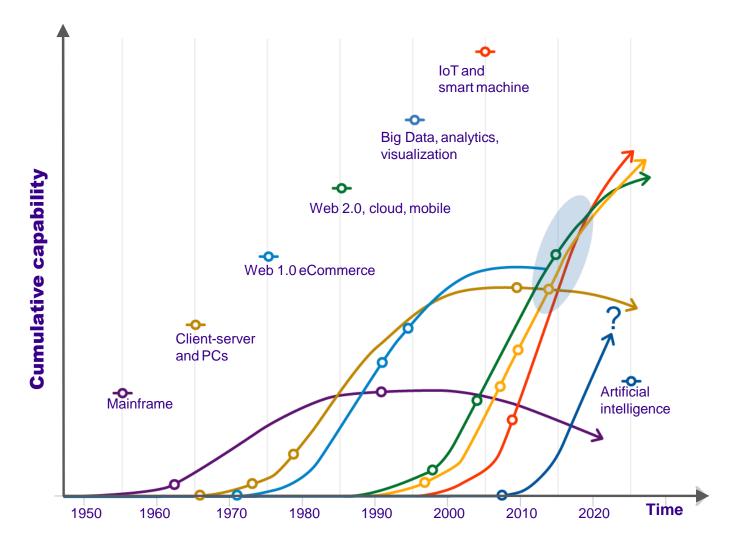
B2C – Business to Consumer

ERP - Enterprise Resource Planning M2M – Machine to Machine

B2B – Business to Business

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#### THE CONVERGENCE OF TECHNOLOGIES OF TECHNOLOGIES OF TECHNOLOGIES





- > Mobile, cloud, artificial intelligence, sensors and analytics, among others are the engines of our digital future
- > While each individual digital technology is a powerful means towards transformation, it is their combinatorial effect that accelerates progress, exponentially

### ACN TECHNOLOGY TRENDS 2017

WE SEE 5 TRENDS AS PART OF OUR TECHNOLOGY VISION 2017 THAT WILL DISRUPT THE WORLD AS WE KNOW IT WITHIN THE NEXT YEARS



AI IS THE NEW UI

### ecosystem Power plays

**BEYOND PLATFORMS** 

Workforce MARKET PLACE

**INVENT YOUR FUTURE** 

DESIGN For Humans

INSPIRE NEW BEHAVIORS

INVENT NEW INDUSTRIES, SET NEW STANDARDS

Simple and smart interactions, value at each connection made... resulting in Al coming of age to become the new user interface of every digital business brand

EXPERIENCE ABOVE ALL

Platform companies: completely breaking the rules on how to operate and compete ...companies now need more than just a platform strategy, they need a robust ecosystem approach On-demand labor platforms + surging online management solutions = talent marketplaces driving the most profound economic transformation since the Industrial Revolution

Technology design decisions are being made by humans, for humans...technology is adapting to how we behave to learn how to enhance our lives To succeed in today's ecosystemdriven digital economy, businesses must seize opportunities to establish rules and standards for entirely new industries

Source: Accenture Technology Vision 2017 Copyright © 2017 Accenture. All rights reserved.

### NEW RULES OF COMPETITIVENESS

#### DIGITAL RESHUFFLES THE FUNDAMENTALS OF INDUSTRIES AND CHANGES THE WAY WE DO BUSINESS



ΖΕΒ

**Disruptors** Industry Maps & dedicated GPS 🙂 Waze devices UR Side-car 💑 TAXI MAGIC **Taxi Services** airbnb **Hospitality – Hotels** Google PCs and Laptops Financial Services -**É**Pay **PayPal Payments** amazon.com Retail Alibaba Group U courserd Education UDACITY **Booking.com** -lotels.com **Travel agencies** expedia inc. yelp Yellow pages amazon instant video NETFLIX **Film rentals** 

**É** iPhone

**52%** 

Expect digital to cause significant change or complete transformation in their industries

**4** out of **5** 

State at least 30% of major business processes currently rely upon digital technologies

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Low-end digital cameras

### NEW BUSINESS MODELS

#### ESTABLISHED COMPANIES HAVE MANAGED TO REINVENT THEMSELVES EFFECTIVELY





#### From old business models

Near bankruptcy in 2004, LEGO underwent a restructuring, reducing the number of divisions they had and outsourcing unprofitable ones such as LEGO computer games

To new business models

accounts for more than 50% of revenues

LEGO's design capabilities are increasingly being handed over to its fans , e.g. LEGO Digital Designer. LEGO has set up new digital business: movies, LEGO Mindstorms, video games

Revenues from digital business surpassed print in 2012 and today

axel springer

ATH

Axel Springer struggled with its declining print business and in the early 2000s, its shift towards digital was perceived as chaotic

AUTODESK.

Autodesk, a leader in software solutions for 3D design and engineering, had a perpetual licensing model, that was faced with diminishing profits due to increasing digitalization In 2013, Autodesk made a swift toward recurring a subscription model. This move was widely appreciated by analysts, who projected an increase in operating margins from <u>13% to 30%</u>

HBO

HBO's subscription-based model was increasingly being challenged by new online content distribution models

HBO, to counter the challenge from digital natives, created its own distribution platforms HBO Now and HBO Go and licensed media to Amazon Prime and other streaming platforms

#### NEW CONSUMPTION FROM MASS CUSTOMIZED PRODUCTS TO INDIVIDUALLY TAILORED, ADJUSTED TO PARADIGM **OUR NEEDS**

#### What is bought?

Mass customized product

**Pre-produced product** 

**Ownership of a product** 

What the salesperson recommends

What is available and you are aware of

Individually tailored

**Created/ printed on demand** 

**Usage/ rental** 

What your peers like (via social media)

The best of/ exactly what we are looking for

#### How is it bought?

In a physical location

**Through distributors** 

Paid with currency

By a seller who knows a lot more about you than you about them and their financials

**Online, mobile, delivered today** 

**Directly from the producer** 

Also paid with information, attention, virtual currencies

With fairly symmetrical information

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### NEW WORKING ENVIRONMENT

#### HOW work is organized

WHAT work is performed

By 2025, 45% of workers will be contractors

Technology has made us five times more productive since 1972

#### WHD performs the work

80% of companies currently don't have the skills and capability to analyze and interpret big data HOW work is led and orchestrated

The average number of direct reports for CEOs has doubled in the last two decades

### DIGITAL IS DISRUPTING WORK AND THE WORKFORCE







### NEXT HORIZON SKILLS

#### IN SUCH A RAPIDLY EVOLVING LANDSCAPE, THE ABILITY TO ANTICIPATE AND PREPARE FOR FUTURE SKILLS REQUIREMENTS IS INCREASINGLY CRITICAL



TANEE



- Complex Problem Solving
- 2. Coordinating with Others
- 3. People Management
- 4. Critical Thinking
- 5. Negotiation
- 6. Quality Control
- 7. Service Orientation
- 8. Judgment & Decision Making
- 9. Active Listening
- 10. Creativity

## ln 2020 🏻 🔁

- 1. Complex Problem Solving
- 2. Critical Thinking
- 3. Creativity
- 4. People Management
- 5. Coordinating with Others
- 6. Emotional Intelligence
- 7. Judgment & Decision Making
- 8. Service Orientation
- 9. Negotiation
- 10. Cognitive Flexibility

### FROM AN ANALOGUE TO A DIGITAL GOVERNMENT

#### GOVERNMENTS HAVE EMBARKED ON THEIR DIGITAL JOURNEYS. THAT CONVERTS THEM FROM AN "ANALOGUE" STATE TO THEIR DIGITAL EQUIVALENTS



### FROM ANALOGUE

Government asks from citizens the same information multiple times

Government is the principal provider of public services

Uniform public services are provisioned by "siloed" departments and ministries

#### **TO DIGITAL**

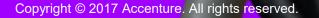
Government is transformed to a public service provider that recognizes each citizen through a single eID and provide citizen-centric services to them

Government facilitates and commissions public services

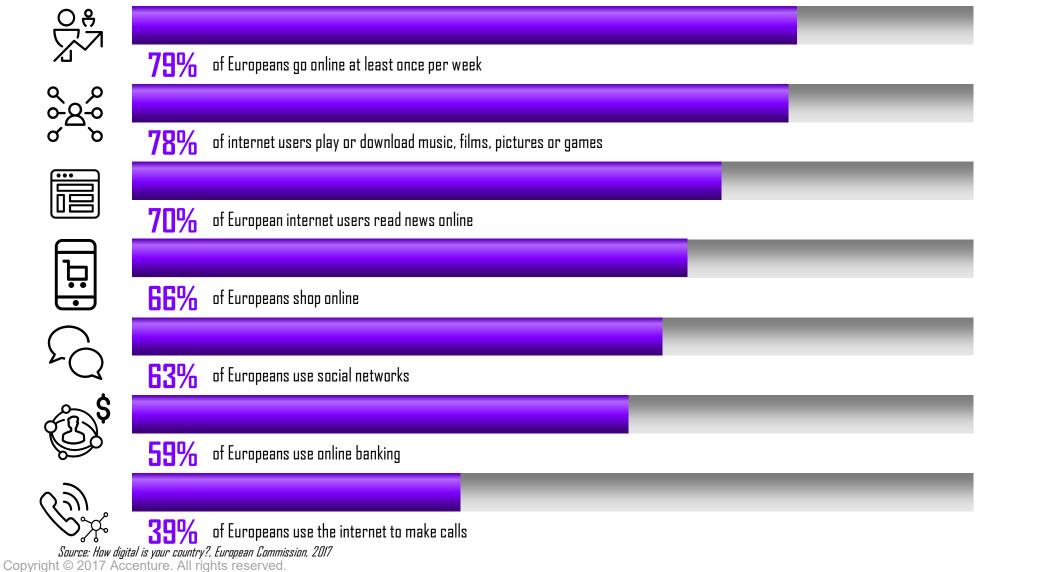
Public-sector organizations are flexible, networked, purpose driven entities

# THE DIGITAL STATE OF THE NATION





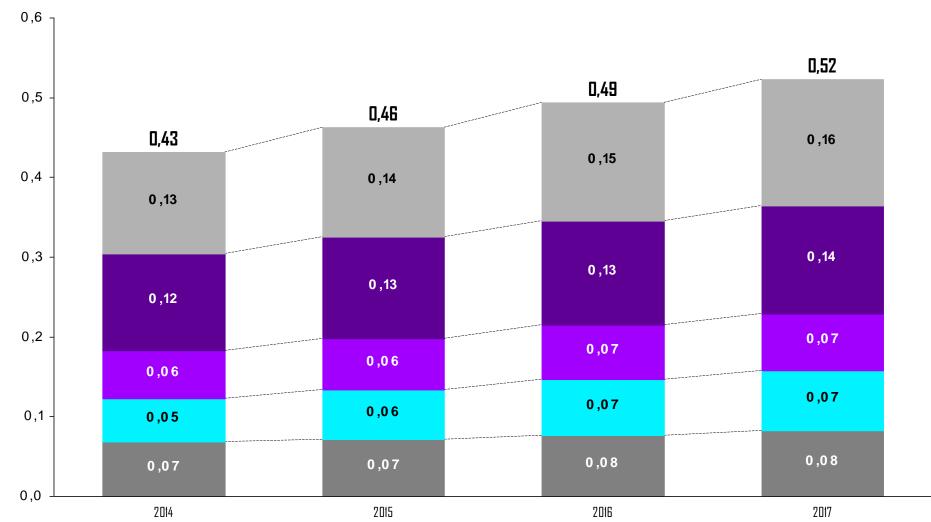
### PERVASIVENESS OF DIGITAL ACROSS EUROPE



### **THE DESI INDEX** 2014 – 2017

#### ACCORDING TO THE DESI INDEX FOR 2017, EUROPE AS A WHOLE HAS DIGITALLY PROGRESSED



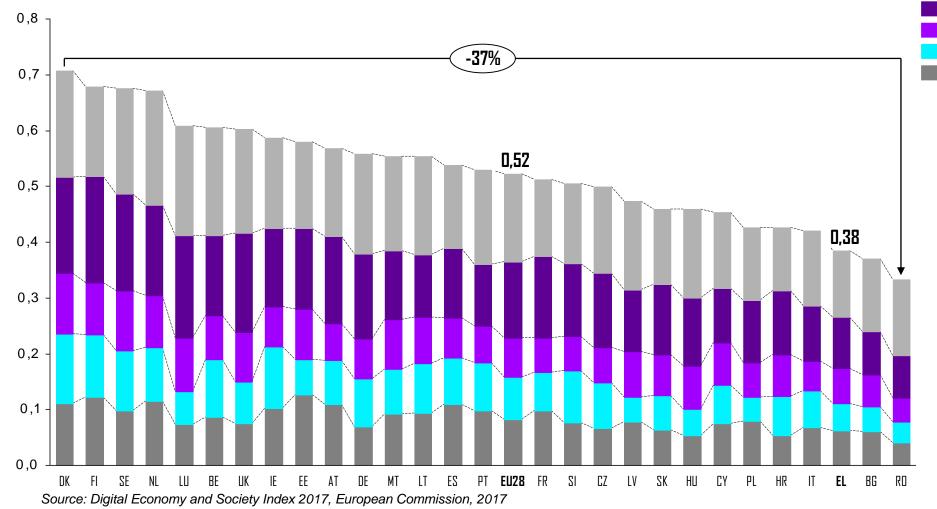


Source: Digital Economy and Society Index 2014-2017, European Commission



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### THE "DIGITAL RIFT" – THE DESI INDEX 2017





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Connectivity
Human Capital
Use of Internet
Integration of Digital Technology
Digital Public Services

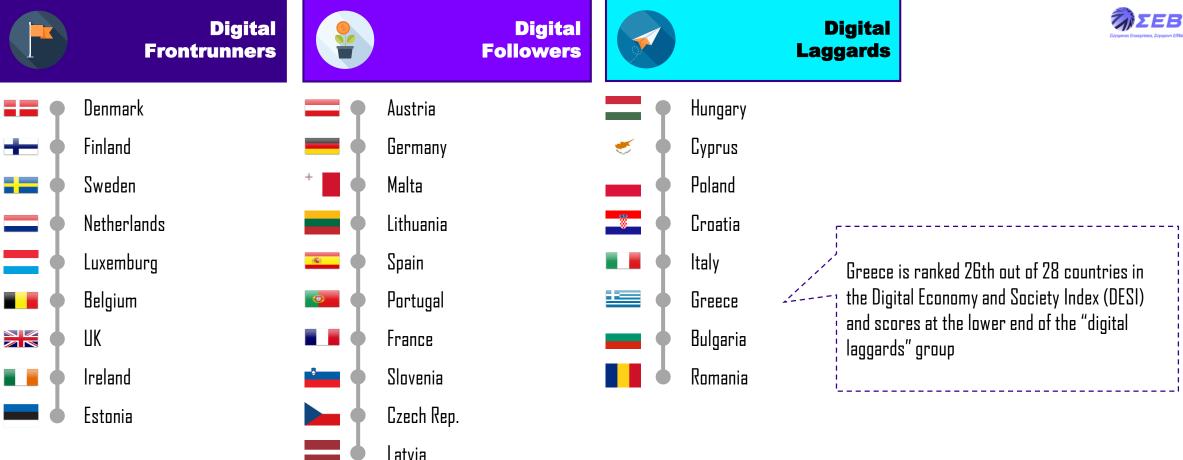
- Despite Europe's overall progress on the digital front, divergent country performances are increasingly evident
- > In fact, the "digital rift" between top performers and countries scoring near the bottom remains notably wide
- In 2017 the digital gap between the most and least digitally advanced countries was 37 percentage points

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### THE "DIGITAL RIFT" – 3 EUROPEAN GROUPS

Slovakia





Source: DESI Index, European Commission, 2017 Copyright © 2017 Accenture. All rights reserved.

### **COUNTRIES' COMPARISON (1/2)**

#### GREECE SCORES AT THE BOTTOM END AGAINST 31 OTHER COUNTRIES REGARDLESS OF THE INDEX



	Country	Digital Maturity Index (out of 100) <sup>1</sup>	NRI (out of 10) <sup>2</sup>	IDI 2016 (out of 10) <sup>3</sup>	EGDI 2016 (out of 1) <sup>4</sup>	DESI (out of 1) <sup>5</sup>	Avg. GDP growth 2014-2016f <sup>6</sup>	Per-capita GDP (USD), 2016f <sup>6</sup>	Budget surplus / deficit 2016f (% of GDP) <sup>6</sup>	Population 2016f (thousand) <sup>6</sup>
	USA	71,4	5,8	8,17	0,842	N/A	3,40%	\$ 57.705	-2,90%	321.601
	UK	67,9	5,7	8,57	0,9193	0,6	2,90%	\$ 42.106	-3,80%	65.097
	Sweden	66,2	5,8	8,45	0,8704	0,67	5,60%	\$ 51.137	-0,40%	9.879
	Denmark	65,9	5,6	8,74	0,851	0,71	2,20%	\$ 53.103	-2,50%	5.660
÷	Finland	64,8	6	8,08	0,8817	0,68	1,40%	\$ 42.651	-2,10%	5.472
•	Switzerland	64,1	5,8	8,68	0,7525	N/A	0,30%	\$ 78.178	0,40%	8.238
	New Zealand	61,6	5,5	8,29	0,8653	N/A	3,60%	\$ 36.542	0,30%	4.650
	Netherlands	60,8	5,8	8,43	0,8659	0,67	1,80%	\$ 44.828	-1,40%	16.935
	Norway	59,0	5,8	8,42	0,8117	0,69	0,40%	\$ 69.708	2,90%	5.205
<b>*</b> •*	Korea, Rep.	58,7	5,6	8,84	0,8915	N/A	4,10%	\$ 26.096	-1,20%	50.629
*	Canada	55,5	5,6	7,62	0,8285	N/A	1,20%	\$ 40.819	-2,50%	35.825
*	Australia	54,1	5,5	8,19	0,9143	N/A	2,70%	\$ 49.999	-2,10%	24.016
	Japan	50,2	5,6	8,37	0,844	N/A	2,00%	\$ 34.765	-5,00%	126.926
	Belgium	50,2	5,4	7,83	0,7874	0,61	2,30%	\$ 40.690	-2,70%	11.337
	Ireland	48,4	5,3	7,92	0,7689	0,59	10,20%	\$ 54.459	-0,80%	4.635
	France	47,5	5,3	8,11	0,8456	0,51	2,00%	\$ 38.173	-3,20%	64.275

1. "Digital Economic Opportunity Index", Dxford Economics, 2017 2. "World Economic Outlook Database", International Monetary Fund, April 2016 3. "Measuring the Information Society Report 2016", United Nations, 2016 4. "The Global Information Technology Report 2016", World Economic Forum, 2016 5. "World Economic Outlook Database", International Monetary Fund, April 2016 6. "The World Factbook", Central Intelligence Agency, 2016 7. DESI Results 2017, https://ec.europa.eu/digital-single-market/en/scoreboard/

### **COUNTRIES' COMPARISON (2/2)**

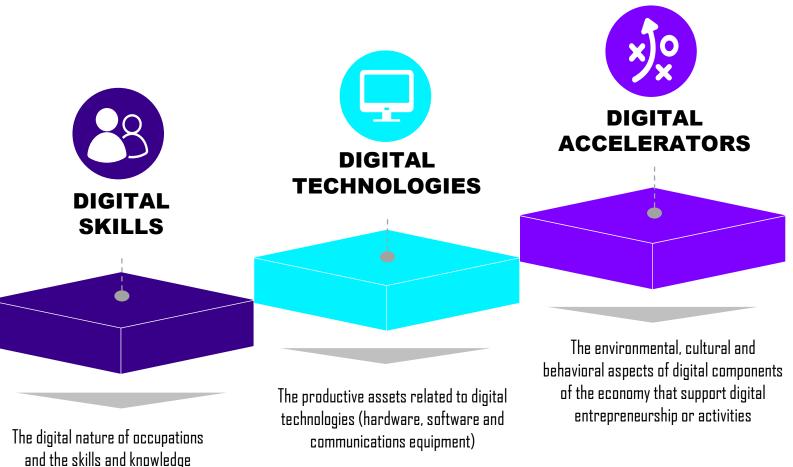
#### **GREECE SCORES AT THE BOTTOM END AGAINST 31 OTHER COUNTRIES REGARDLESS OF THE INDEX**



	Country	Digital Maturity Index (out of 100) <sup>5</sup>	NRI (out of 10) <sup>1</sup>	IDI 2016 (out of 10) <sup>2</sup>	EGDI 2016 (out of 1) <sup>3</sup>	DESI (out of 1) <sup>7</sup>	Avg. GDP growth 2014-2016f <sup>4</sup>	Per-capita GDP (USD), 2016f <sup>4</sup>	Budget surplus / deficit 2016f (% of GDP) <sup>6</sup>	<b>ΣΕΒ</b> Population 2016f (thousand) <sup>4</sup>
	Germany	46,2	5,6	8,31	0,821	0,56	3,50%	\$ 41.89	5 0,60%	81.900
	Austria	44,8	5,4	7,69	0,8208	0,57	2,60%	\$ 44.77	5 -1,40%	8.556
	Czech Rep.	39,8	4,7	7,25	0,6454	0,5	4,30%	\$ 17.54	3 -0,50%	10.538
O	Portugal	36,5	4,9	6,94	0,7144	0,53	3,20%	\$ 19.68	4 -2,40%	10.411
6	Spain	35,4	4,8	7,62	0,8135	0,54	3,60%	\$ 26.82	3 -4,10%	46.384
	Chile	33,1	4,6	6,35	0,6949	N/A	5,70%	\$ 13.07	5 -2,60%	18.006
	Italy	27,8	4,4	7,11	0,7764	0,42	1,60%	\$ 30.23	2 -2,60%	60.796
*)	China	27,2	4,2	5,19	0,6071	N/A	6,80%	\$ 8.28	1 -3,80%	1.374.620
	Poland	27,1	4,5	6,65	0,7211	0,43	4,20%	\$ 12.46	-2,80%	38.006
	Russia	25,4	4,5	6,95	0,7215	N/A	4,50%	\$ 7.74	3 -4,00%	146.300
	Brazil	25,4	4	5,99	0,6377	N/A	5,70%	\$ 7.50	7 -2,60%	204.451
	Hungary	23,6	4,4	6,72	0,6745	0,46	4,60%	\$ 11.97	) -2,40%	9.856
	Mexico	23,4	4	4,87	0,6195	N/A	6,20%	\$ 8.52	2 -3,00%	127.017
<b>C</b> *	Turkey	19,3	4,4	5,69	0,5900	N/A	14,70%	\$ 9.56	2 -2,00%	77.738
	Greece	17,8	4,1	7,13	0,6910	0,38	-0,70%	\$ 18.03	5 -4,50%	10.812
۲	India	17,5	3,8	2,69	0,4637	N/A	10,50%	\$ 1.77	1 -3,70%	1.292.707

1. "Digital Economic Opportunity Index", Dxford Economics, 2017 2. "World Economic Outlook Database", International Monetary Fund, April 2016, 4. "UN E-Government Survey 2016", United Nations, 2016 4. "The Global Information Technology Report 2016", World Economic Forum, 2016 5. "World Economic Outlook Database", International Monetary Fund, April 2016, 4. "UN E-Government Survey 2016", United Nations, 2016 4. "The Global Information Technology Report 2016", World Economic Forum, 2016 5. "World Economic Outlook Database", International Monetary Fund, April 2016, 4. "UN E-Government Survey 2016", United Nations, 2016 4. "The Global Information Technology Report 2016", World Economic Forum, 2016 5. "World Economic Outlook Database", International Monetary Fund, April 2016, 6. "The World Factbook", Central Intelligence Agency, 2016 7. DESI Results 2017, https://ec.europa.eu/digital-single-market/en/scoreboard/

### THE DIGITAL ECONOMIC OPPORTUNITY INDEX (DEOI)



WHY DEOI? (1) CONNECTION OF DIGITAL MATURITY WITH PRODUCED ECONOMIC VALUE

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ΏΣΕΒ

COMPARISON BETWEEN GREECE AND ITS GLOBAL PEERS WITH REGARDS TO VALUE CREATION

2

required for people to perform their

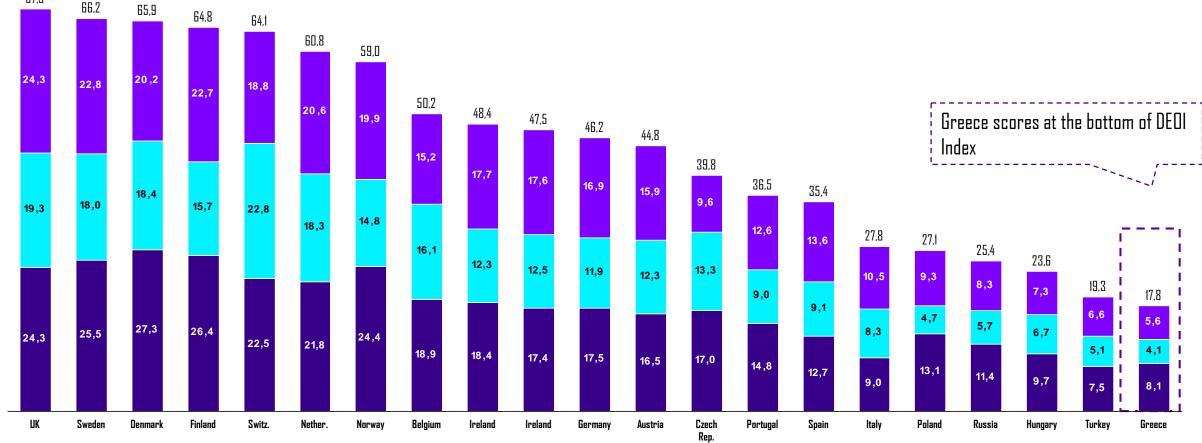
jobs

### **DEOI SCORES – EUROPEAN SAMPLE, 2016**



Digital Accelerators Digital Technologies Digital Skills





Source: Oxford Economics, Accenture analysis

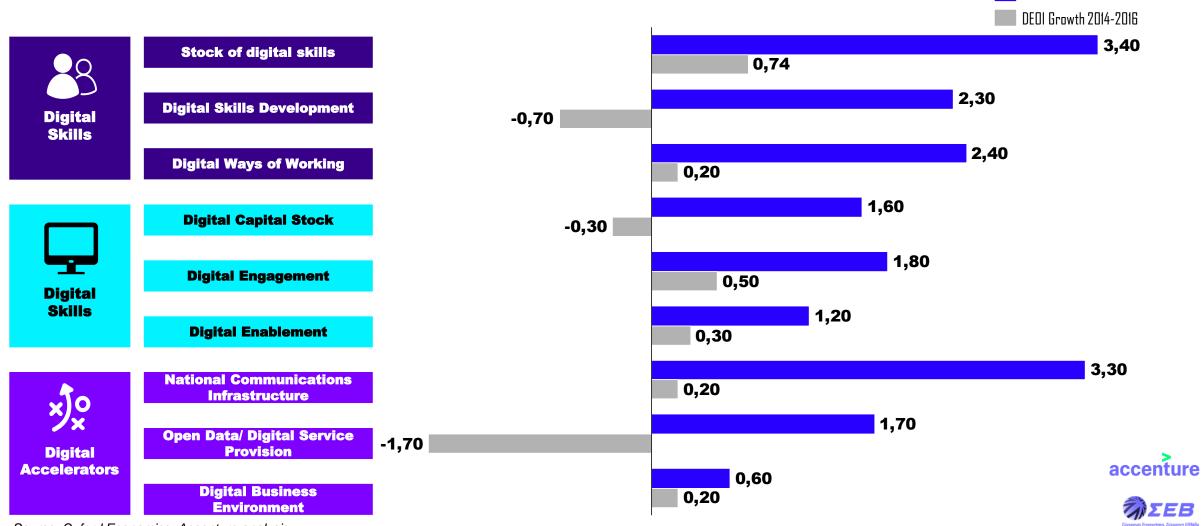
67.9

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### **DEOI COMPONENTS ANALYSIS** - GREECE, 2014 - 2016



DEDI Score 2016



Source: Oxford Economics, Accenture analysis

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### **GREECE SCORES AT THE** LOWER END WITH 17,8 POINTS

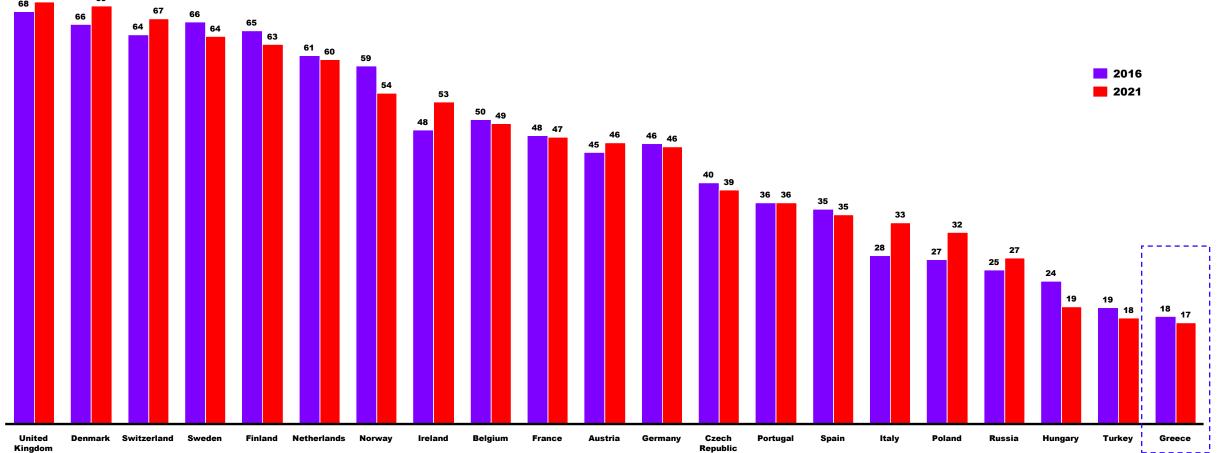
		Greece	
	Stock of digital skills	0,0 0,5 1,0 1,5 2,0 2,5 3,0 3,5 4,0 4,5 5,0 5,5 6,0 6,5 7,0 7,5 8,0 8,5 9,0 9,5 10,0	Se Austria
	Digital Skills Development		🏴 Belgium 🎽 Czech ru
Digital Skills		0,0 0,5 1,0 1,5 2,0 <b>2</b> ,5 3,0 3,5 4,0 4,5 5,0 5,5 6,0 6,5 7,0 7,5 8,0 8,5 9,0 9,5 10,0 Greece	Finland
	Digital Ways of Working		🄰 France 🏓 German
	Digital Capital Stack	0,0 0,5 1,0 1,5 2,0 2,5 3,0 3,5 4,0 4,5 5,0 5,5 6,0 6,5 7,0 7,5 8,0 8,5 9,0 9,5 10,0 Greece Greece Greece	🎉 Greece 🎽 Hungary
	Digital Capital Stock	0,0 0,5 1,0 1,5 2,0 2,5 3,0 3,5 4,0 4,5 5,0 5,5 6,0 6,5 7,0 7,5 8,0 8,5 9,0 9,5 10,0 Greece	Teland The Italy
	Digital Engagement		Netherl Norway
Digital Skills		0,0 0,5 1.0 1,5 2,0 2,5 3,0 3,5 4,0 4,5 5,0 5,5 6,0 6,5 7,0 7,5 8,0 8,5 9,0 9,5 10,0 Greece	Poland portuga
	Digital Enablement	0,0 0,5 1,0 1,5 2,0 2,5 3,0 3,5 4,0 4,5 5,0 5,5 6,0 6,5 7,0 7,5 8,0 8,5 9,0 9,5 10,0	鯶 Russia 📁 Spain
	National Communications Infrastructure		Sweden Switzer Turker
××		0,0 0,5 1,0 1,5 2,0 2,5 3,0 3,5 4,0 4,5 5,0 5,5 6,0 6,5 7,0 7,5 8,0 8,5 9,0 9,5 10,0 Greece	📷 Turkey 🎫 UK
Digital	Open Data/ Digital Service Provision		2
ccelerators	Digital Business Environment	0,0 0,5 1,0 1,5 2,0 2,5 3,0 3,5 4,0 4,5 5,0 5,5 6,0 6,5 7,0 7,5 8,0 8,5 9,0 9,5 10,0 Greece	accent
urce: Oxford Econd	omics, Accenture analysis	0,0 0,5 1,0 1,5 2,0 2,5 3,0 3,5 4,0 4,5 5,0 5,5 6,0 6,5 7,0 7,5 8,0 8,5 9,0 9,5 10,0	Εύγαρονες Εαυκαρήσεις,

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#### DIGITAL MATURITY OF EUROPEAN COUNTRIES, URRENT TRAJECTORY, IT SHALL CURRENT TRAJECTORY, IT SHALL CURRENT TRAJECTORY, IT SHALL CURRENT TRAJECTORY, IT SHALL DIGITAL MATURITY INDEX CONTINUES ON THE CURRENT TRAJECTORY, IT SHALL DIGITAL MATURITY INDEX

Digital Economic Opportunity Index, European Sample, 2016 & 2021f<sup>1</sup> (#, out of 100)

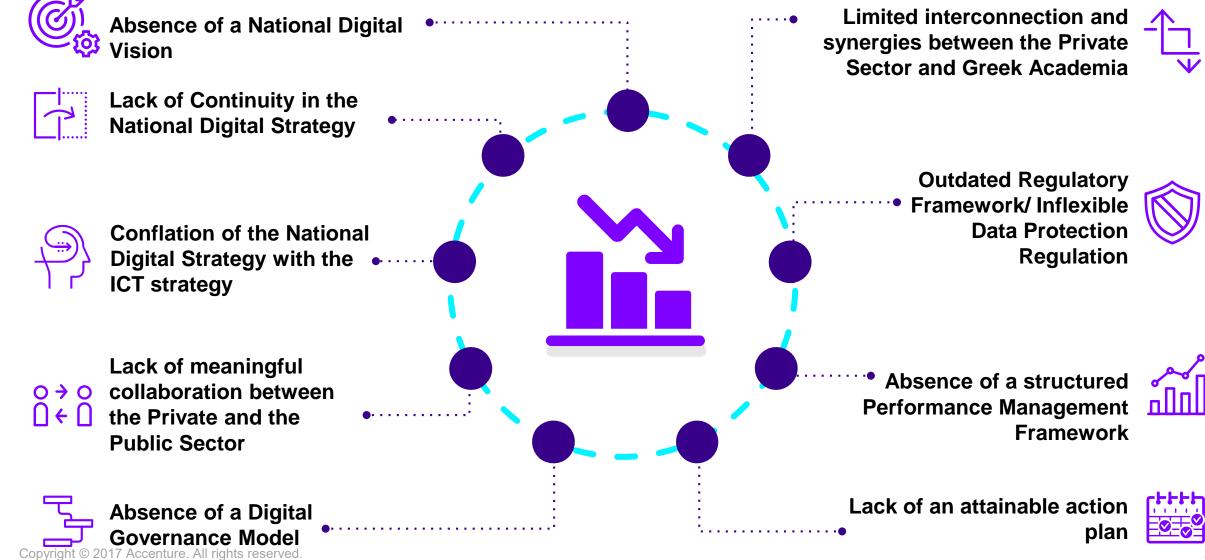


1. 2021 projections have been estimated using countries' CAGR for 2014-2016 digital maturities

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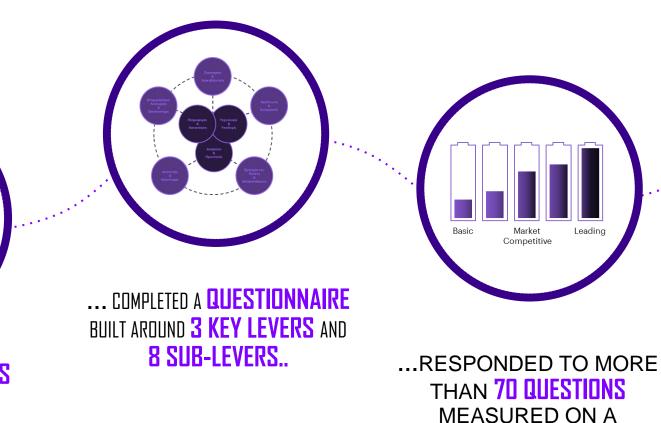
ΏΣΕΒ

# FACTORS CONTRIBUTING TO Contract of the GREECE'S LOW DIGITAL MATURITY



#### PERCEIVED DIGITAL THE GOAL WAS TO RECORD EXECUTIVES' PERCEPTION WITH REGARDS TO THEIR ORGANIZATIONS' DIGITAL MATURITY -CURRENT STATE VS AMBITION





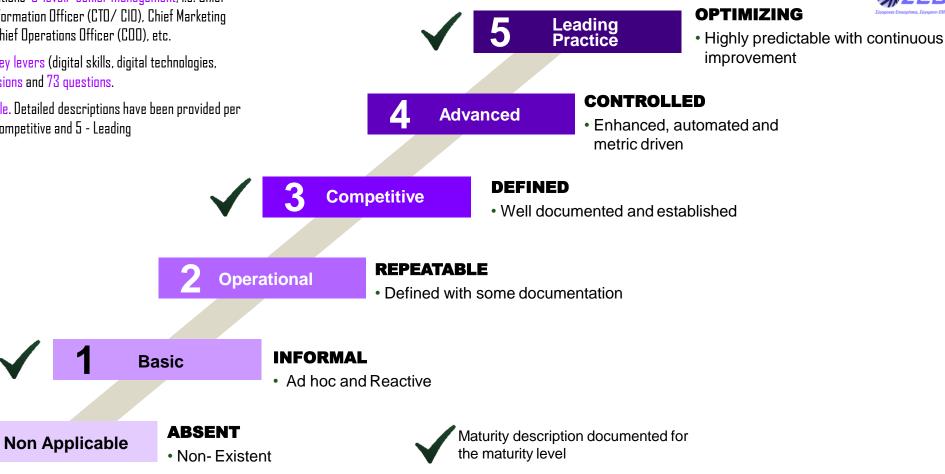
**5 LEVEL SCALE**...

MORE THAN **160 EXECUTIVES** ACROSS **12 INDUSTRIES...** 

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## STRUCTURE OF THE QUESTIONNAIRE

- > The performed analysis and the respective conclusions were based on data recorded through the Questionnaire of Perceived Digital Maturity that launched from 19/12/2016 to 30/01/2017
- > The Questionnaire was completed by organizations' C-level/ senior management, i.e. Chief Executive Officer (CEO), Chief Technology/ Information Officer (CTO/ CIO), Chief Marketing Officer (CMO), Chief Financial Officer (CFO), Chief Operations Officer (COO), etc.
- > The Questionnaire was structured around 3 key levers (digital skills, digital technologies, digital accelerators), 8 sub-levers, 30 dimensions and 73 questions.
- Each question was measured on a 5-level scale. Detailed descriptions have been provided per question for levels: 1- Basic, 3 Market Competitive and 5 Leading



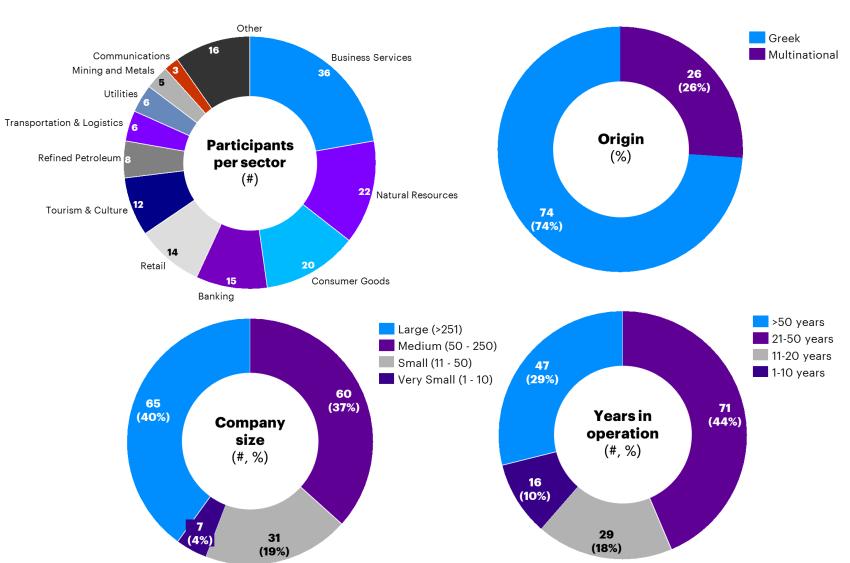
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## **QUESTIONNAIRE SAMPLE ANALYSIS**



TEB



#### QUESTIONNAIRE SAMPLE SIZE: 163 COMPANIES

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### PERCEIVED DIGITAL MATURITY – OVERALL RESULTS



#### OVERALL DIGITAL MATURITY



Currently, organizations across all surveyed Greek industries demonstrate at an aggregate level an intermediate digital maturity Within a 5 year period, organizations across all industries aim to adopt advanced digital practices on all capabilities and accelerate their rotation to digital



BasicCompetitiveLeadingCurrently, Greek companies exhibit a lower digital maturity than their multinational<br/>peers

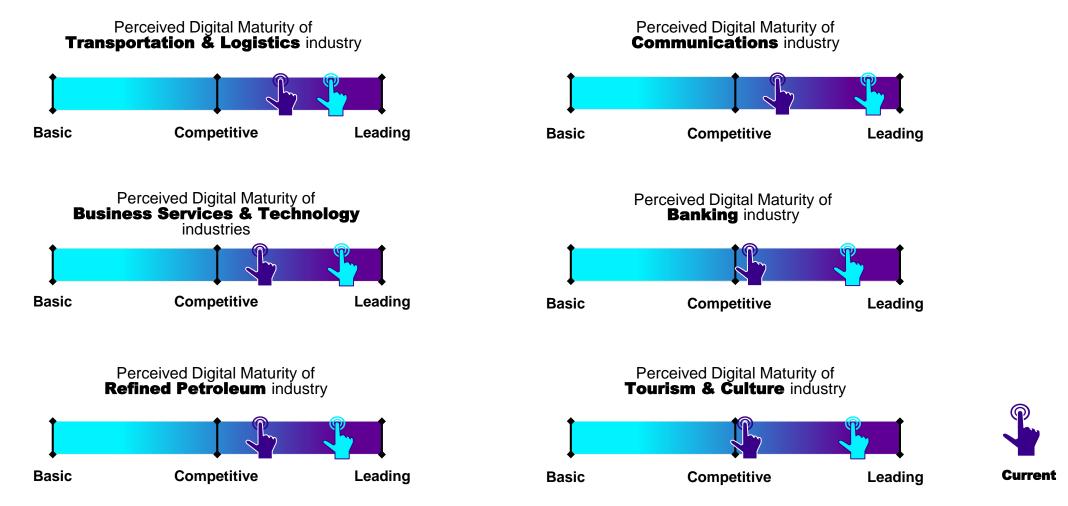


In the future, multinationals appear to remain more digitally advanced. However, Greek companies appear more ambitious in terms of their digital transformation



### PERCEIVED DIGITAL MATURITY – INDUSTRY RESULTS (1/3)



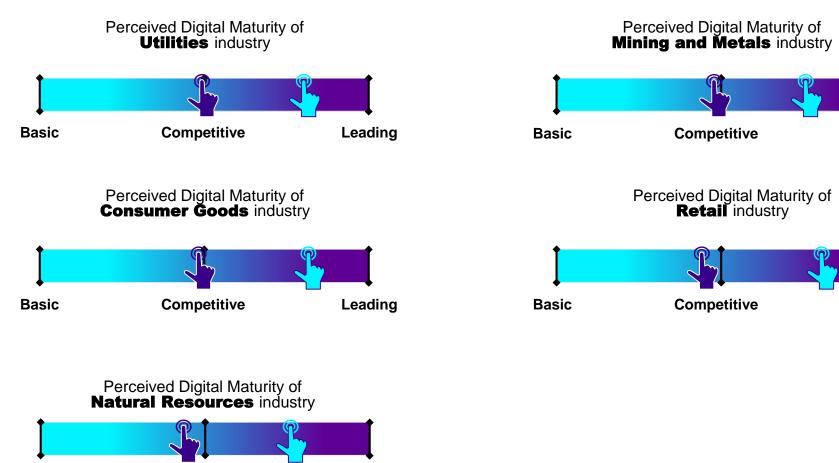


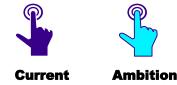
Source: Questionnaire of Perceived Digital Maturity, Accenture analysis

Ambition

### PERCEIVED DIGITAL MATURITY – INDUSTRY RESULTS (2/3)







Leading

Leading

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Leading

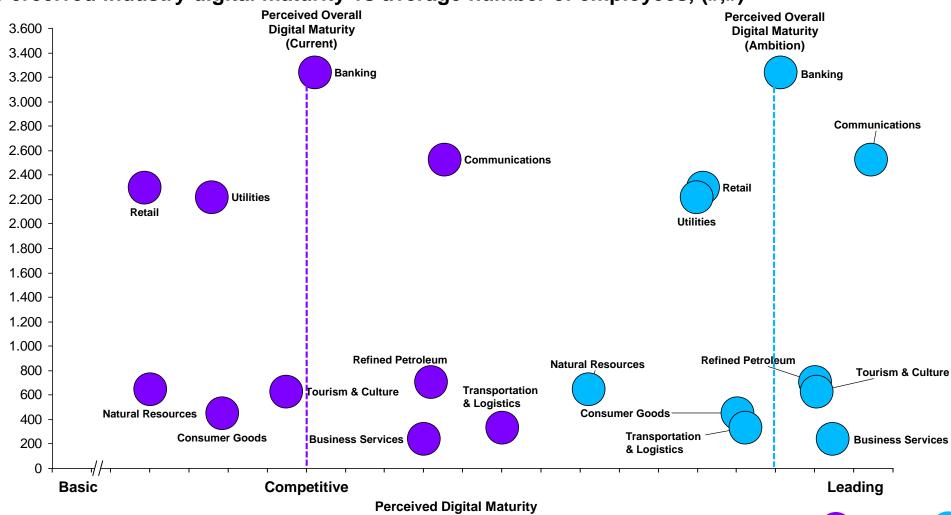
Competitive

Basic

Source: Questionnaire of Perceived Digital Maturity, Accenture analysis

### PERCEIVED DIGITAL MATURITY – INDUSTRY RESULTS (3/3)

#### Perceived industry digital maturity vs average number of employees, (#,#)





ZEB

> Currently, organizations that belong to the Transportation & Logistics industry are perceived to be the most digitally mature. On the contrary, companies that belong to the Natural Resources and Retail industries demonstrate the lowest score with regards to their digital maturity

- Communications and Business Services & Technology organizations appear determined to lead the digital transformation of all Greek industries within a 5 year horizon
- > Retail and Tourism & Culture organizations claim to be the most ambitious with regards to the leap they are ready to make and rotate to digital

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employees

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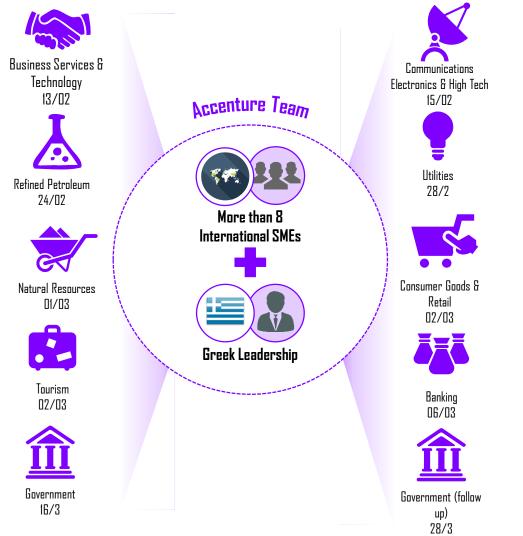
number

Average

Source: Questionnaire of Perceived Digital Maturity, Accenture analysis

Current

### INDUSTRY WORKSHOPS



#### TO VALIDATE THE FINDINGS, WE ORGANIZED A SET OF DEDICATED INDUSTRY WORKSHOPS



#### **Common Denominators**



- > Digital is a top priority for all organizations to maintain and extend their competitiveness
- > Each industry is impacted heavily by digital across different pivot point(s) on their value chain
- > Introduction of an actionable digital strategy and clear governance structure are prerequisites for a successful digital transformation
- > Customer Experience and Interaction is an area demonstrating further room for improvement across all industries
- > Digital upskilling of existing workforce and attracting young digitally savvy personnel are key enablers for rotating to digital
- > Key recorded inhibitors for the industries' digital transformation are: lack of digital public services, lack of tax incentives, strict regulations and restrictive laws on data protection and sharing, lack of a change mindset

## WORKSHOP SCOPE OUR OBJECTIVE WAS TO DISCUSS DIGITAL TRENDS AND ASSESS HOW THESE DISRUPT & AGENDA

#### **SCOPE OF WORKSHOP:**

- > Share and discuss initial takeaways of the Questionnaire for the Perceived Digital Maturity for the Greek industries
- > Introduce and discuss on the emerging digital trends that we see transforming the respective industries at a global scale
- > Evaluate the structural inhibitors that prevent the Greek industries from making the digital transformation a reality

DBJECTIVES

AGENDA

Questionnaire on Perceived Digital Maturity – Initial Takeaways



Emerging Digital Trends for the Greek industries



Discussion on industry themes & impact



Next Steps & Workshop Wrap Up



TEB

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### WORKSHOP POSTCARDS

#### FOR EACH WORKSHOP MOM'S AND POSTCARDS WITH KEY TAKEAWAYS WERE PREPARED & DELIVERED



0000 

- George Nathanail (SEV)
- Maggie Athanassiadi (SEV)
- Filippo Moroni (Accenture)
- Kyriacos Sabatakakis (Accenture)
- Jiorgis Kritsotakis (Accenture)
- Manthos Sarantos (Accenture)
- Valia Siakavella (Accenture)
- Lefteris Kororos (Intralot)
- Giannis Konstantinidis (OTE)
- Afrodyte Vamvakopoulou (EEKT)

boost the Greek economic growth

qovernment)

- Communications Workshop Participants
- Aristotelis Lekatsas (AUEB)
- Maria Skagou (Vodafone)
- Giorgos Stefanopoulos (EEKT)
- Antonis Tzortzakakis (Wind)
- Giorgos Tsakogiannis (Huawei)
- Maria Boura (Ericsson)
- Firini Nikolaidi (NTF)

Implement the National Broadband Next Generation Plan to provide broadband infrastructure and

Act as a digital evangelist both for the government and for the other Greek industries

Giorgos Pappas (Ericsson)



- Limited public private collaboration for infrastructural initiatives to enable national digitization
- Lack of a clear national digital strategy (until recently) and lack of political continuity

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penetration to a high percentage of the population

## INDUSTRY DEOI INDEX (1/2)

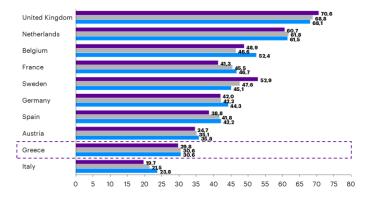
#### THE OVERLAY OF SECONDARY DATA ON EXECUTIVES' PERCEPTIONS ADDS AN OBJECTIVE LAYER OF GRANULARITY



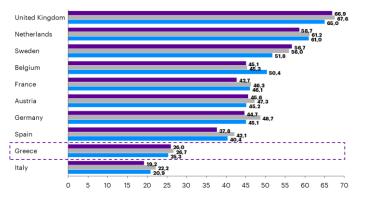


2014 2015 2016

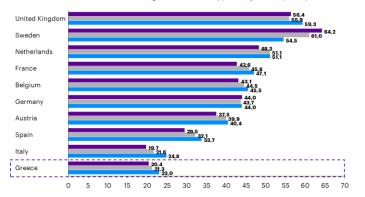
Transportation & Logistics Digital Economic Opportunity Index (DEOI)



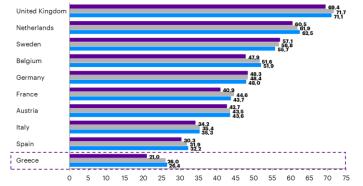




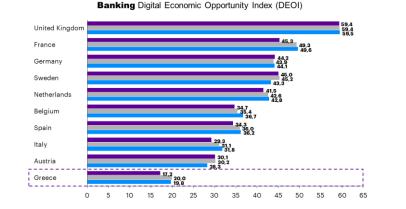
#### Refined Petroleum Digital Economic Opportunity Index (DEOI)



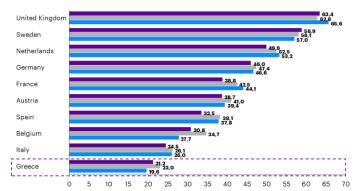
Communications Digital Economic Opportunity Index (DEOI)



bigital Economic Opportunity index (DEOI)



Tourism & Culture Digital Economic Opportunity Index (DEOI)



#### Source: Oxford Economics, Accenture analysis

## INDUSTRY DEOI INDEX (2/2)

#### THE OVERLAY OF SECONDARY DATA ON EXECUTIVES' PERCEPTIONS ADDS AN OBJECTIVE LAYER OF GRANULARITY

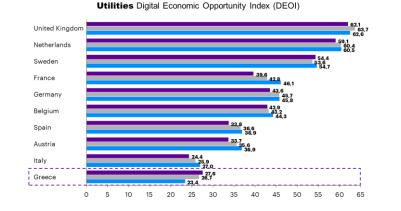


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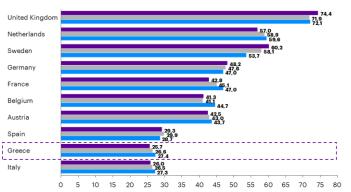
TEB







#### Consumer Goods Digital Economic Opportunity Index (DEOI)





20

25

30 35 40 45

50 55 60 65 70

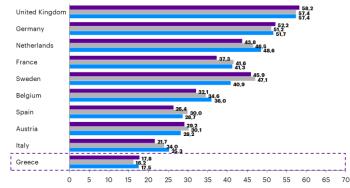
Spain

Greece

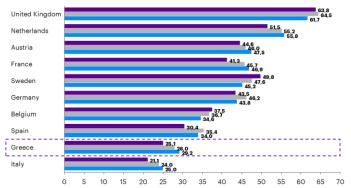
......

Italy

0 5 10 15



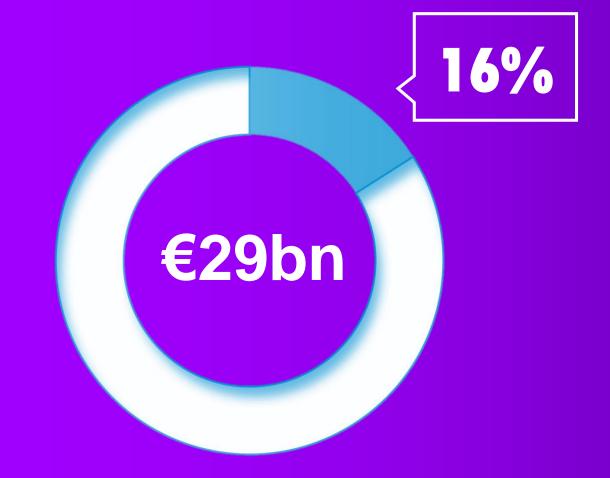




#### Source: Oxford Economics, Accenture analysis

# THE SIZE OF THE GREEK DIGITAL ECONOMY

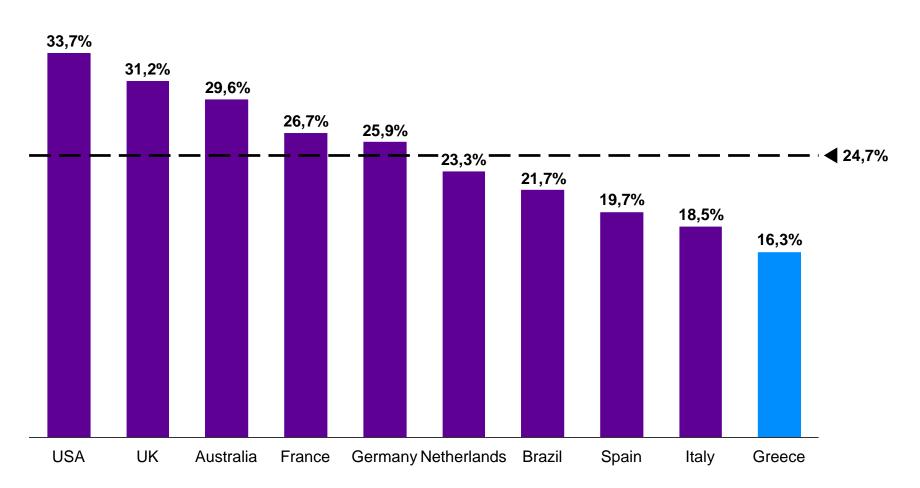




Greece's low digital maturity score, both at a national and at an industry level, results to a limited contribution to the Greek economy

The Greek digital economy is currently worth 16.3% of the Greek GDP. This is equivalent to contributing €29bn to Greek GDP each year

# THE SIZE OF DIGITAL ECONOMY FOR SELECTED COUNTRIES



If we juxtapose the Greek digital economy with the digital economies of a selected subset of 9 other countries (European and non-European), Greece's limited capacity to develop its digital economy is evident

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 The country operates at a moderate 16.3% of its digital potential, situated at the bottom of the study's sample

#### Source: Oxford Economics, Accenture analysis





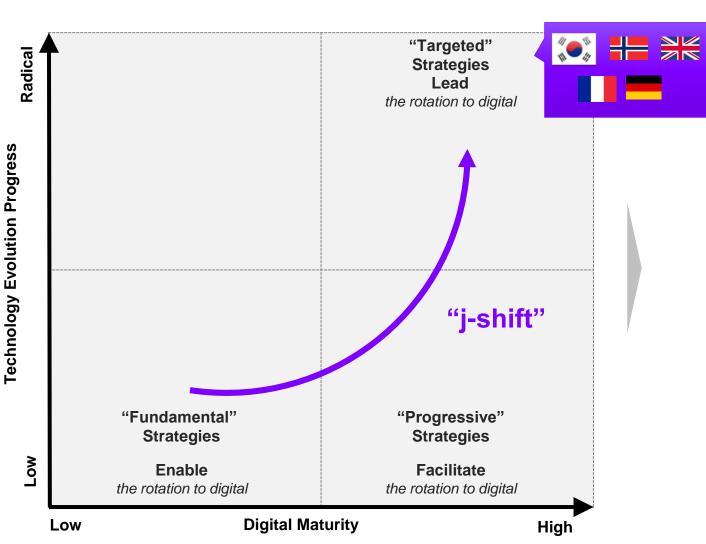
Greece's unfavorable position across all levers of its digital maturity creates a burning platform for the nation to identify an actionable digital strategy that will positively impact the growth of the country's economic output

# GREECE'S DIGITAL STRATEGY

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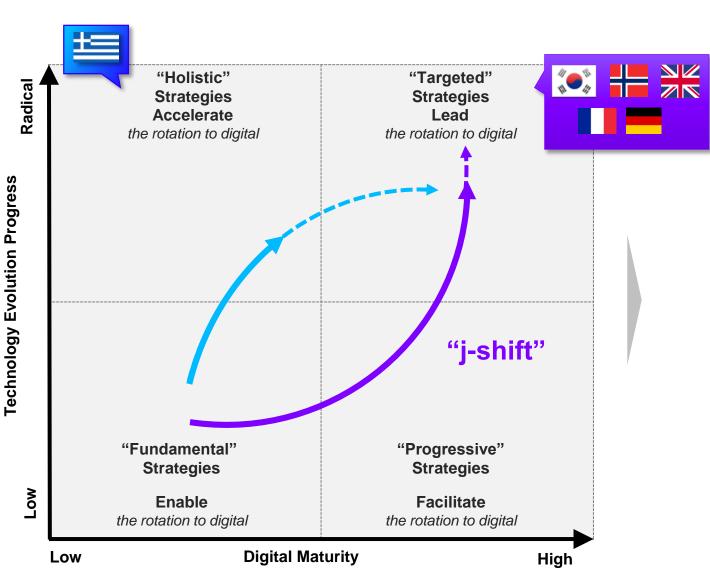
# THE "J-SHIFT" OF THE DIGITALLY ADVANCED COUNTRIES





- > The strategy adopted by each country for their rotation to digital significantly differs
- > Countries are building their strategies on the basis of their competitive advantages, their digital maturity levels, and in the backdrop of the continuous technology advancements that directly impact the markets and societies
- Digitally advanced countries did not achieve their digital transformation overnight
- > On the contrary, countries like the United Kingdom, South Korea and Norway have initiated their digital transformations several years ago, following a stepped approach
- > This approach has been continuously re-evaluated to meet the countries' changing strategic intents and embrace the latest digital technologies that refedine the global environment, in which their economies perform and compete

# **GREECE'S REQUIRED "I-LIFT"**







- Greece has already lost significant time with regards to its rotation to digital
- > The country does not have the luxury of time to follow the "j-shift" that its digitally advanced peers have followed
- > On the contrary, Greece's unfavorable position creates a burning platform for the nation to act fast, do many and perform them in sync within a tight timeframe
- > In order not to lose momentum, Greece needs to take a shortcut and adopt an "holistic" strategy that will "i-lift" the nation to its digital future and will positively impact the growth of the Greek economy

Our vision for Greece is to imminently harness the transformative power of digital to boost the Greek GDP by 4% (€ 7,6 bn) by 2021 and join the digitally advanced countries by 2030

# DIGITAL STRATEGY'S GUIDING PRINCIPLES



ΜΣΕΒ



Greece shall avoid single country imitation in setting its digital trajectory



Greece shall aim to achieve a progressive digital maturity instead of an unrealizable imminent digital transformation. No child grows up overnight - and no country can become digitally mature overnight, either

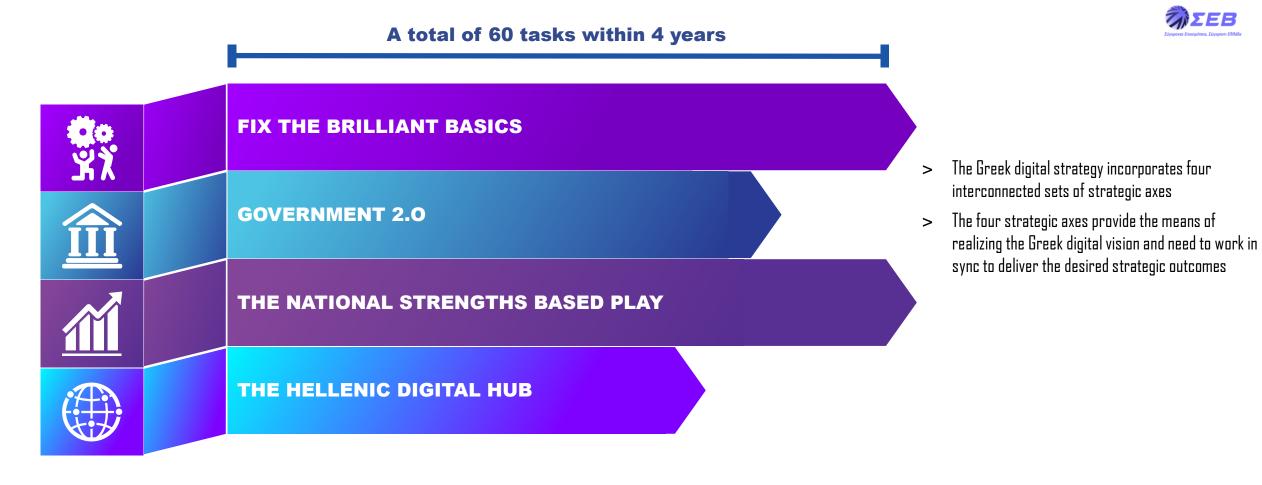


"Fixing the brilliant basics" (i.e. the governance setup, the deployment of highspeed communications infrastructure, the use of open data etc.) is a prerequisite for the initiation of Greece's digital transformation



Digital vision shall not focus on Greece's repositioning on the digital indexes' ranking. Instead it should focus on value creation as a function of the digital transformation

## **GREECE'S HOLISTIC DIGITAL STRATEGY**



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## THE 1<sup>ST</sup> STRATEGIC "FIX THE BRILLIANT BASICS" - MAIN **AXIS** accenture ΣEB **IMPROVE DIGITAL** GOVERNANCE **POLICIES & REGULATORY** INFRASTRUCTURE

Setup a governance model to monitor the implementation of Greece's Digital Strategy

MODEL

FRAMEWORK

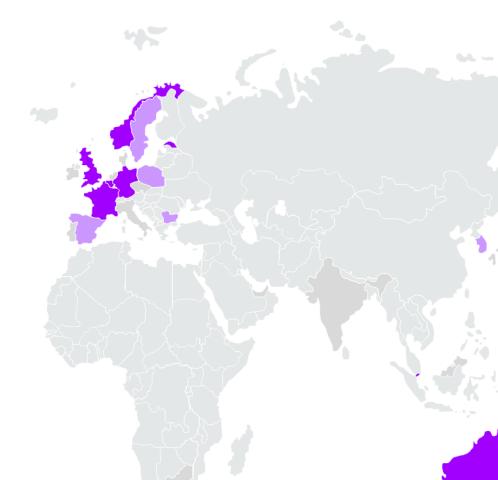
Update and enforce the required policies and regulatory framework for the provision of open data, the strengthening of digital trust, security and data protection and the safeguarding of online privacy

Rapid deployment of fiber optic broadband networks and wireless networks across the country that will enable ubiquitous and seamless high-speed connectivity

#### Increase the digital literacy within society through initiatives focused on education and lifelong learning, to enable society's connection with the digital world

**SKILLS** 

## THE 1<sup>ST</sup> STRATEGIC GLOBAL LEADING PRACTICES AXIS



#### United Kingdom

- Cabinet Office & GDS: Leads the governance of the UK's digital transformation agenda
- Cyber Security Strategy: The UK Cabinet Office drafted the Government Cyber Security Strategy in 2011, a five year plan backed by £860m of public funding
- London procurement program: In 2011, the City of London to transform its procurement processes by designing a digital marketplace and collaborating across an ecosystem of partners and suppliers

#### 🖬 Estonia

- e-Estonia Council: Directs the development of digital society and e-governance in the country
- NATO Cyber Defence CoE: seeks to enhance the capability and cooperation among NATO members and partners in cyber defense
- Government programme: contains strategic objectives for the government

#### 📕 Germany

 WiBe 4.0 Framework: Is the national e-government measurement framework to assess the economic efficiency of federal administrations

#### **Norway**

 ALTINN: is a 24/7 online portal that has eased the burden of public reporting for businesses, citizens and administrators



#### **France**

- PM & Digital Council, Prime Minister Manuel Valls has the vision to make France a 'digital republic' with the advisory of the French National Digital Council
- Chief Digital Officer: Appointed the first European CDO in September 2014

#### Singapore

 Online OBLS: Singapore government has partnered with the private sector to develop the Online Business Licensing Services

#### 🗮 🔁 Australia

 Smart Grid, Smart City: is a trial deployment of smart grid infrastructure with government specified activities and outcomes

# THE 2<sup>ND</sup> STRATEGIC GOVERNMENT 2.0 - GUIDING PRINCIPLES AXIS



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#### **Digital by default**

In any interaction between the government and the users of a given service, the user is obliged to use the digital channel. Progressively, all public services should be available in digital form

# User friendliness and inclusiveness

The principle of digital by default implies that digital public services should be available for everyone, not only for selected digitally savvy population groups

#### **Once-only**

This means eliminating the unnecessary administrative burden that occurs when users are required to supply the same information more than once to public administrations

#### **No legacy**

This principle requires the Government to renew all state information technology systems after a certain amount of time to keep in line with the ever-changing environment and technological developments



24/7

Technology allows the delivery of public services in real time around the clock



#### Single point of entry

For user convenience, public services should be accessible from one portal through single identification



5

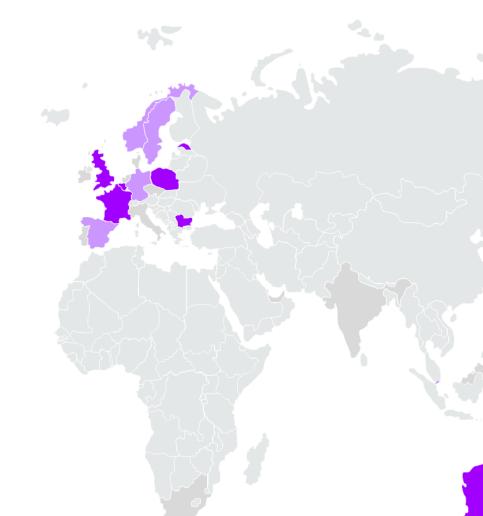
#### **Omni-channel services**

The user should be provided with a seamless digital public services experience no matter what device – a desktop or a mobile device – is being used to access the portal

#### **Open standards**

Service-oriented architecture of user-centric public services is underpinned by open standards and opensource technologies, enabling digital collaboration

## THE 2<sup>ND</sup> STRATEGIC <sup>GLOBAL LEADING PRACTICES</sup> AXIS



#### 📥 Estonia

- e-Business Register: Center of Registers and Information Systems' e-Business Register is a secure one-stop shop for business registration
- Look@World Foundation: equip schools with computers and provided training in ICT user skills to the population
- Samsung Digi Pass: Free of charge digital and life-skills training program for vocational school students aged 14 to 19 in Estonia

#### 💼 Bulgaria

 e-skills for jobs: Labor offices throughout Bulgaria provide information about all current training sessions and courses in the field of ICT, conducted by the leading companies in the sector

#### United Kingdom

- GaaP Strategy: GDS is rationalizing public services by transitioning to 'Government as a Platform' (GaaP) approach, with services built upon a shared core to streamline processes and maximize public IT resources
- GDS User Experience: GDS
   has a dedicated User
   Research Team conducting
   in-depth user-research on
   public services

#### 💮 EU member States

- Growth Engine for Europe: Google's program designed to help individuals and businesses succeed online
- #SuperCoders: is a programme organized by Orange Group to introduce coding to children aged 9 to 13



#### Public Consultations: 26 public consultations across four main themes were held by the French Digital Council (CNN) to engage the public in co-developing France's Digital Goals

#### 🍖 South Korea

France

 GEA: The Ministry of Public Administration and Security's Government-wide Enterprise Architecture (GEA) provides integrated services to citizens, businesses

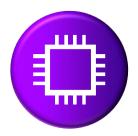
#### 🍀 🔁 Australia

Better Together: The South Australia state government's "Better Together" engages citizens in its decision making through the YourSAY portal

#### Poland

**DigComping:** contributes to building the digital society by developing and validating the digital competences of Polish citizens

## THE 2<sup>ND</sup> STRATEGIC GOVERNMENT 2.0 - KEY INTERVENTION AXIS



#### DIGITALIZE THE PROVIDED PUBLIC SERVICES

The provided public services shall be digitalized, following a user-centric approach. In addition, emphasis should be put on the digitalization of public services that will improve the ease of doing business



LAUNCH A DEDICATED CROSS-GOVERNMENT SERVICE-DESIGN TEAM

The team will be responsible for the design of integrated digital public government services through the application of service design methodologies and will support the different government departments



#### **RE-ENGINEER AND SIMPLIFY THE INTERNAL PUBLIC SECTOR PROCESSES**

These new, user-centric, digital services will by necessity trigger the automation of their supporting internal public sector processes



#### UPDATE THE DELIVERY AND SOURCING MODELS

Government 2.0 shall increasingly move away from the traditional emphasis on fragmented procurement services run by siloed functions and leverage new delivery methodologies such as agile software development



#### DEVELOP OPEN STANDARDS AND INTEROPERABILITY POLICIES TO ENABLE FREE DATA SHARING AND SMASH PUBLIC SECTOR "SILOS"

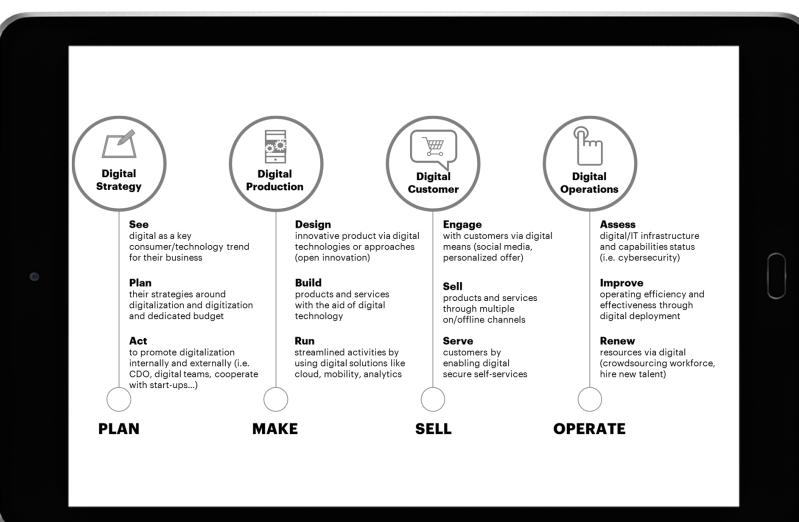
The implementation of open standards is expected to further accelerate Government 2.D towards the design of user-centric and integrated services



#### DIGITALLY UPSKILL AND RESKILL THE PUBLIC SECTOR WORKFORCE

Key prerequisite for the provision of user-centric digital services is the increase of the digital literacy within the public administration. This will be achieved through the design and implementation of mandatory reskilling and upskilling initiatives for all Public Sector employees

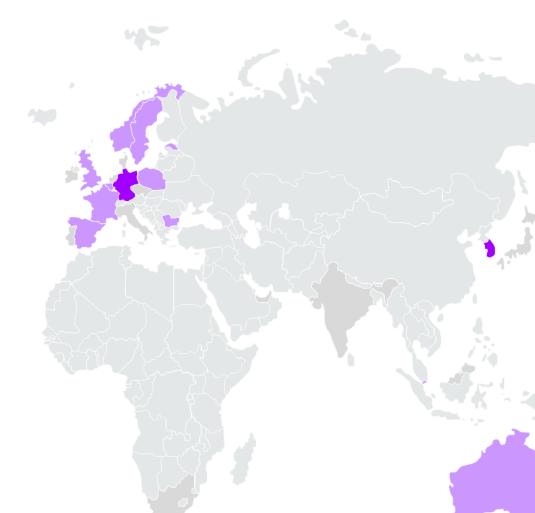
# THE 3<sup>RD</sup> STRATEGIC NATIONAL STRENGTHS BASED PLAY -AXIS



#### What are the "digital pivot points"?

- Companies organize their business activities against value chains that typically consist of strategy, production, customers and operations
- > There is widespread evidence that all industries are impacted by digital. However, as each industry is also quite unique, its respective digital rotation places the emphasis on different areas of the value chain
- > These areas are referred to as "digital pivot points"

## THE 3<sup>RD</sup> STRATEGIC <sup>GLOBAL LEADING PRACTICES</sup> AXIS



#### 🚾 Germany

#### Industry 4.0, High Tech:

- The Federal Government's New High Tech Strategy is an interdepartmental innovation strategy built on 5 pillars to establish Germany as a prosperous world-leading innovation leader and find answers to future challenges
- Industry 4.0 is one of the "Future Projects" of the strategy backed by €200M funding and is Germany's vision for the future of manufacturing
- The industrial Internet of Things strategy plans to develop "smart factories", leveraging IT to digitize processes and improve efficiency

#### South Korea

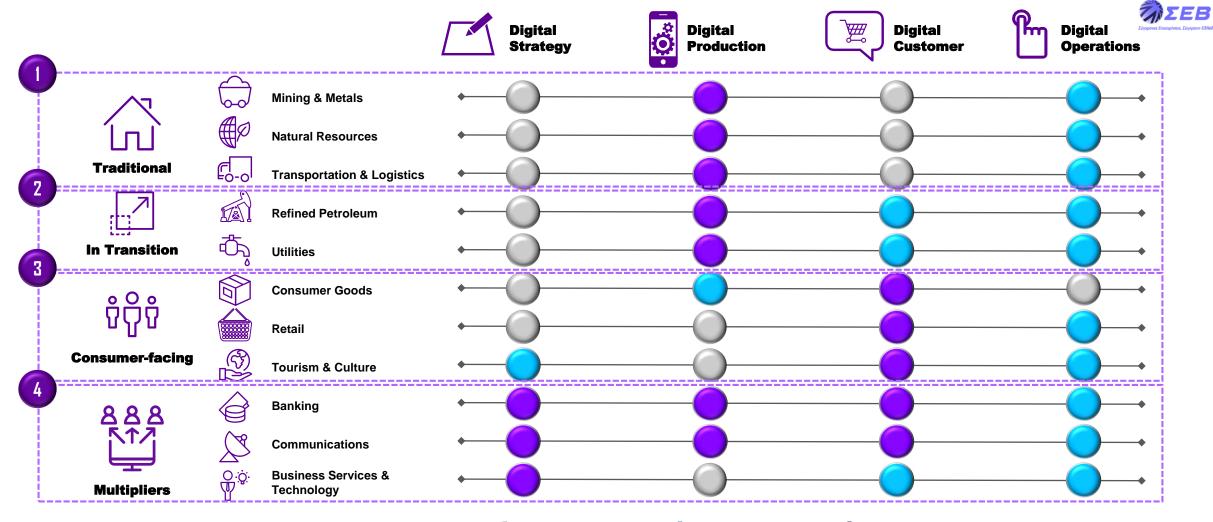


#### Big Data Strategy Center:

- National Information Society Agency's Korea Big Data Strategy Centre (KBiG) uses big data to gain insights on country's social issues and boost competitiveness of businesses through analytics
- KBiG has approximately 100 analysis servers with around 500 terabytes installed with open source software
- KBiG has 21.712 data providers from medical, government, IT and media industries

Source: Accenture Research Copyright © 2017 Accenture. All rights reserved.

## THE 3<sup>RD</sup> STRATEGIC - INDUSTRY CLUSTERING AXIS



Medium Focus

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## THE 3<sup>RD</sup> STRATEGIC - KEY DIGITAL THEMES (1/2) AXIS





#### The Digital Strategy Office

The Digital Strategy Office will be established to serve as a sponsor and ambassador of the digitalization, drive the digital agenda across business units and organizational layers and provide the required oversight to operationalize the digital strategy



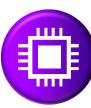
#### The Smart Plant

Digitally-enabled plants will leverage capabilities provided by the combination of software and hardware to automate primarily human-driven tasks, drive down costs, provide visibility across all production lines and elements and allow for greater and more in-depth control of all production operations



#### Integrated Customer Services

Using the increasing volumes of customer data to better understand behavior, a number of "traditional" companies will move from being "product-centric" to "customer-centric"



#### The Digital Enterprise

In the future, back-office functions will work autonomously, with minimal human intervention thus empowering the rest of the organization to focus their efforts on front-line activities



#### Personalization (of products and services)

Today, offering a product that is generic and cannot answer a specific requirement is not enough. Customers increasingly expect to experience interactions that are personalized, relevant and contextualized



#### Physical Store Transformation

Companies with physical stores and other points of sale must leverage digital capabilities within the complex store environment to transform their stores, making the experience more personalized and interactive

## THE 3<sup>RD</sup> STRATEGIC - KEY DIGITAL THEMES (2/2) AXIS





#### The Connected Supply Chain

A data-driven, insight-powered supply chain network will lead the way to the operations of the future. Supply chain analytics paves the path for generating strong business insights that enable better decision-making



#### The Digital Worker

Digitally-equipped workers can benefit from on-demand, real-time push and pull information and use mobile and wearable technologies (e.g. tablets, wearable glasses, watches, and vital trackers) to interact with sensors, robots and other systems around them, improving operational efficiency



#### The Cyber Security

Asset cybersecurity is the collection of tools, policies, concepts, safeguards, guidelines, risk management approaches, actions, training, best practices, assurance and technologies that can be used to protect the cyber environment, and an organization's or user's assets within



#### **Customers' Omni-channel Experience**

Being able to engage with customers across all online and offline channels is critical for modern organizations. Organizations must break down internal siloes that offer rigid, onedimensional experiences and change the underlying capabilities of each touchpoint to engage in a customer-focused and holistic approach



#### From Products to Experiences

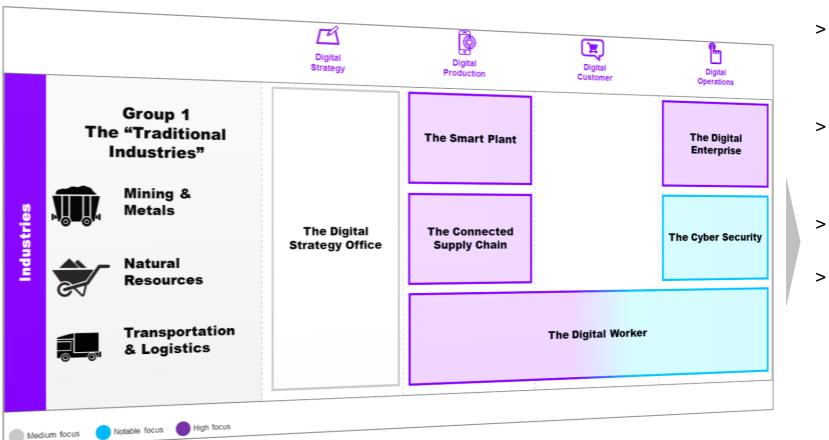
Products and services must turn into experiences that deliver some of the fundamental elements that create value for their customers, by appealing to their emotions, achieving positive impact on society or functionally improving their lives by saving time, simplifying or organizing various tasks and activities



#### Digital Sales Force

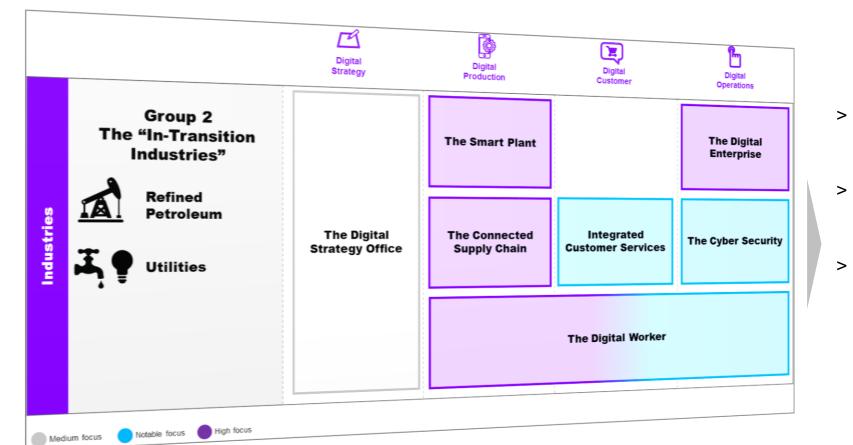
Companies are leveraging technologies such as big data, advanced analytics and digital points of sale like tablets to facilitate the selling process and improve their efficiency

# THE 3<sup>RD</sup> STRATEGIC THE NATIONAL STRENGTH BASED PLAY - 1<sup>ST</sup> GROUP: THE "TRADITIONAL NDUSTRIES"



- Enterprises that belong to this group, are typically asset-heavy
- organizations, require large amounts of capital to establish and operate and their production is dependent on heavy industrial machinery
- Their workforce demonstrates a different composition and set of characteristics from that across the other industry groups. Their production and operations are heavily dependent on a large number of field workers
- > The focus of their digitalization is primarily targeting production and operations
- > 6 digital themes are evident for the 1st group.

## THE 3<sup>RD</sup> STRATEGIC THE NATIONAL STRENGTH BASED PLAY - 2<sup>ND</sup> GROUP: THE "INDUSTRIES IN-TRANSITION"

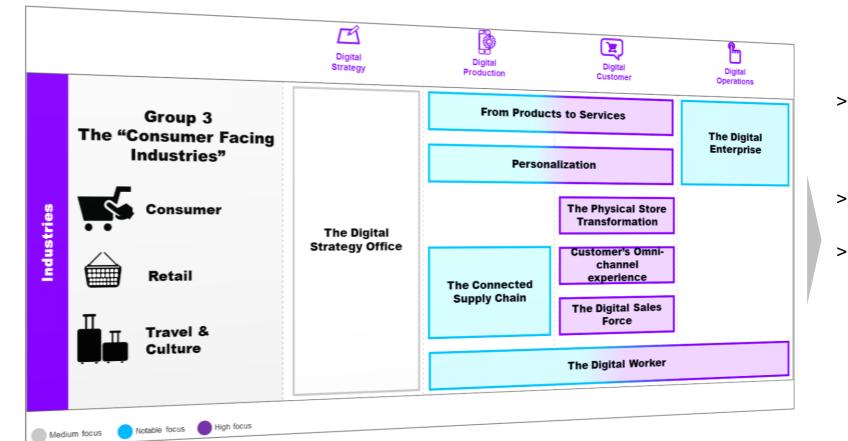


- They have similar characteristics with the "Traditional" group, but we observe an additional theme, that of "Integrated Services to Final Consumers"
- In parallel with focusing on the digitalization of their production, these industries are starting to place significant emphasis and become more involved with their end-customers
- > 7 digital themes influence the 2nd group

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# THE 3<sup>RD</sup> STRATEGIC THE NATIONAL STRENGTH BASED PLAY - 3<sup>RD</sup> GROUP: THE "CONSUMER-FACING INDUSTRIES"

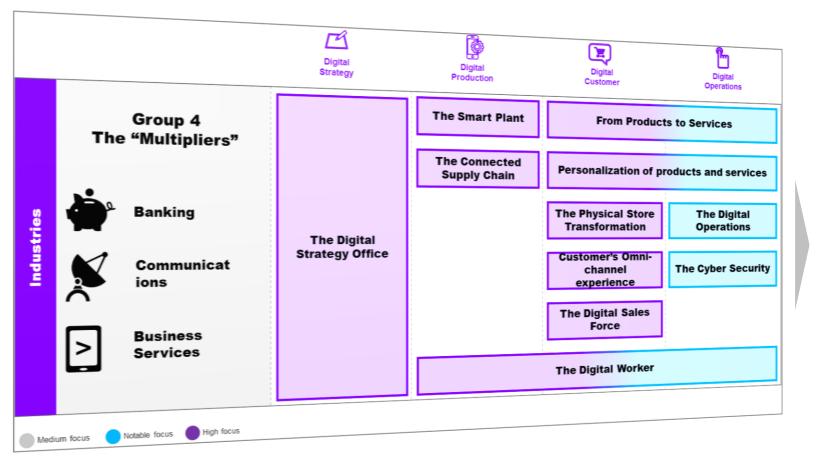


- > Organizations that belong to this group demonstrate predominantly a Business to Consumer market orientation and focus primarily on the provision of both products and services to the end consumer
- Digital affects all areas of the value chain, with particular emphasis situated at the front end – client interaction
- > 9 digital themes impact the 3<sup>rd</sup> group

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# THE 3<sup>RD</sup> STRATEGIC THE NATIONAL STRENGTH BASED PLAY - 4<sup>TH</sup> GROUP: THE "MULTIPLIERS INDUSTRIES"



- These industries are primarily service oriented, they demonstrate a double market orientation (both Business to Business and Business to Consumer)
- "Multiplier" organizations shall have a double role with regards to Greece's digital transformation: they shall progress their own digital transformation and to that end, increase their maturity. At the same time, they shall act as the national "multipliers", in order to accelerate "Traditional" and "Customer facing" industries' rotation to digital
- > Digital technologies have a significant impact across the "Multipliers" value chain, resulting into 11 digital themes

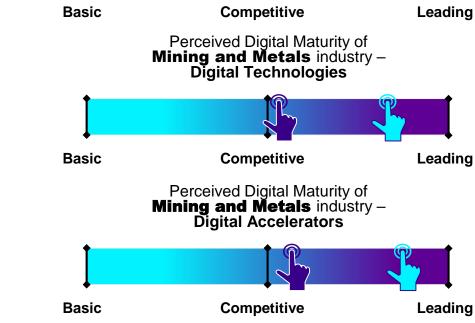
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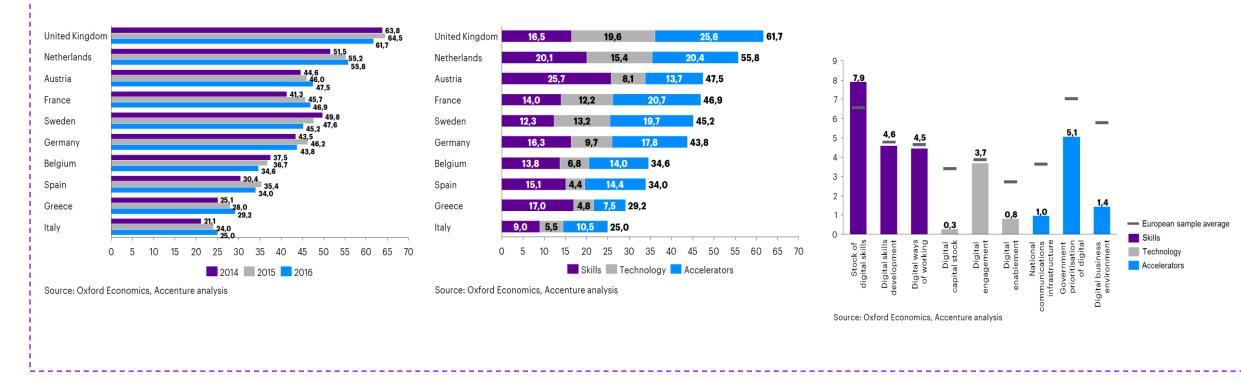
# THE SRD STRATEGIC EACH INDUSTRY'S PERCEIVED DIGITAL MATURITY... Maturity... Vereived Digital Maturity of Maturity of Overall Perceived Digital Maturity of Maturity of Mining and Metals industry Leading Easic Competitive Leading Leading

Zooming into the Greek metals and mining industries, surveyed executives appear to acknowledge the role of digital and perceive themselves to perform on par with their respective global market and have clear ambitions to increase their digital maturity the future



#### Source: Accenture Analysis

# THE SRA STRATEGIC --ITS CALCULATED DIGITAL MATURITY AS Decenture Image: Calculated Digital Maturity Perceived Digital Maturity Calculated Digital Maturity Digital Priority Digital Priority Digital Initiatives Di



#### Source: Accenture Analysis

#### THE 3<sup>RD</sup> STRATEGIC II THE DIGITAL PIVOT POINTS OF THE INDUSTRIES... **AXIS** accenture **Digital Pivot Points** Indicative Mining & Metals Industries - Digital Pivot Points Contextualizing this with industries' executives, we have identified ٥Ö > <del>کی</del> m the internal operations automation and the value chain integration as the primary areas for digital attention. A conclusion that is Digital Digital Digital Digital supported by our analysis as well Production Strategy Customer Operations The improvement of their customers' experience is another area > of focus; primarily enabled via the deployment of data analytics in the area of digital production. The figure illustrates the emphasis on the different pivot points for the mining and metals industries

**OPERATE** 

High focus

SELL

Notable focus

#### Source: Accenture Analysis

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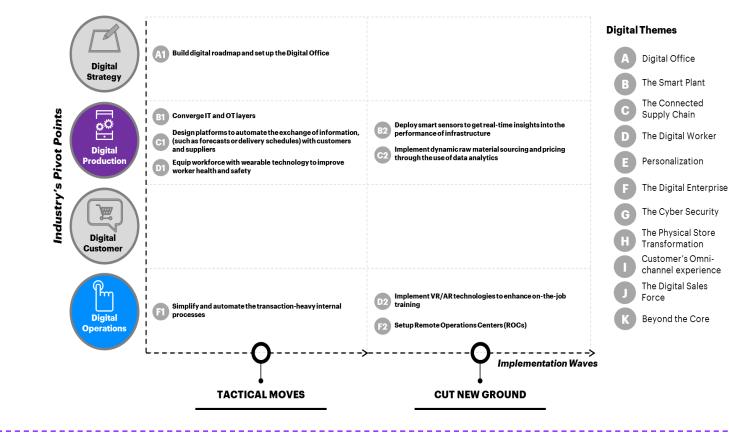
PLAN

MAKE

Medium focus

# THE 3RD STRATEGIC THE RESPECTIVE SET OF PROPOSED AXIS Digital Initiatives...

#### **Classification of Suggested Initiatives**



 With global best practices as our reference point, we propose a set of initiatives that will accelerate the industries' digital rotation

It is evident that not all initiatives may be applicable for all organizations within these industries; indeed, digital initiatives are recommended to be selected in accordance to the different strategy, business model, size, available budget and most importantly, each company's own digital aspirations and vision

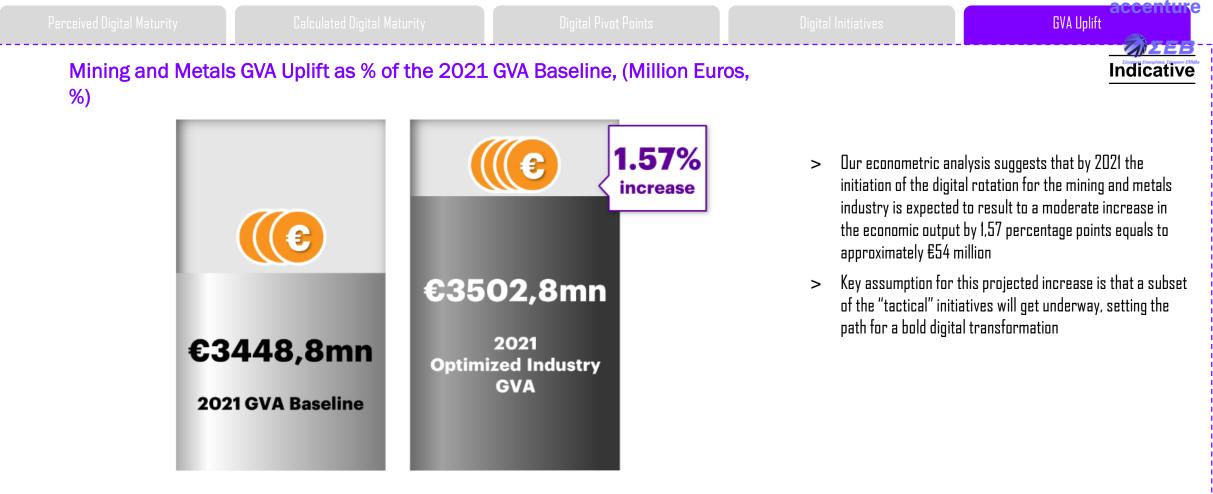
> The mentioned initiatives are broken down into tactical, which we call "tactical moves" and disruptive, which we call "cut new ground"

#### Source: Accenture Analysis

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Indicative

# THE 3<sup>RD</sup> STRATEGIC "AND THE CALCULATED INDUSTRY GVA' AXIS

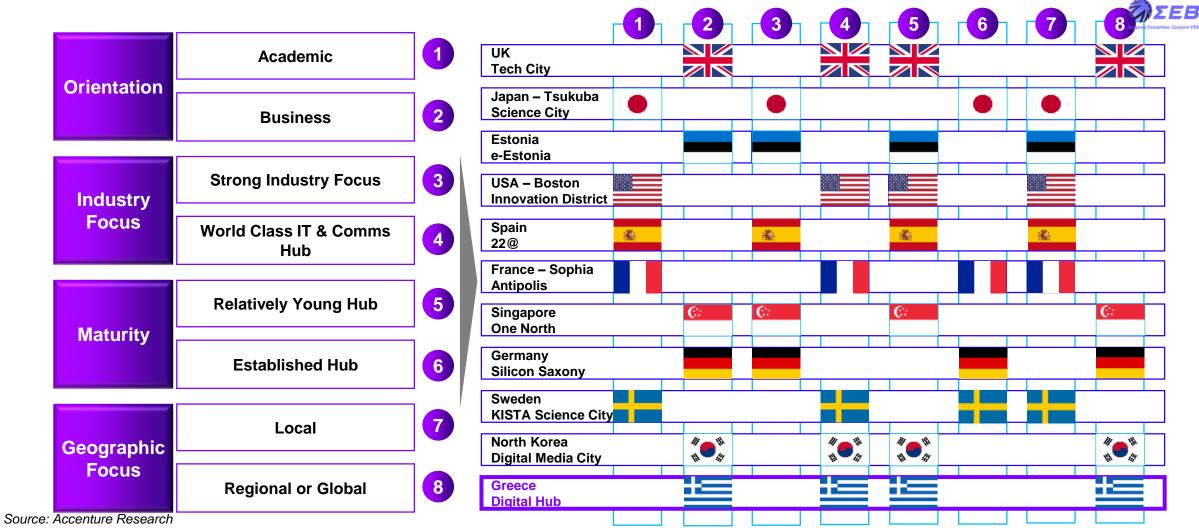


Source: Oxford Economics, Accenture analysis

1. Gross Value Added Source: Accenture Analysis

# THE 4<sup>TH</sup> STRATEGIC THE HELLENIC DIGITAL HUB - COMPARISON OF THE PROPOSED HELLENIC DIGITAL HUB AXIS





# THE HELLENIC DIGITAL HUB - ACCELERATOR THE 4TH STRATEGIC AXIS

Design of smart products and services through multiple channels, interconnected, expanding the user experience, interactive, intuitive, personalized

Enable the rapid prototyping and piloting of new smart products and services

Offer targeted digital training to the Greek industries

Consolidate funding resources both from the private and the public sector to achieve the abovementioned

Propose institutional interventions to strengthen the national digital economy



The Hellenic Digital Hub will act as the accelerator of Greece's digital transformation via the development of digital ecosystems within and across Greek industries

# THE 4<sup>TH</sup> STRATEGIC THE HELLENIC DIGITAL HUB - THE AXIS

#### THE PARTICIPANTS

- > Organizations and institutions of the Greek industries, as well as Greek academia
- > The initiation of the Hellenic Digital Hub will be based on attraction of high caliber ICT organizations
- > The geographical proximity of the hub members will facilitate the seamless flow and continuous exchange of information, experiences and know-how amongst them
- > As a next step, the hub is proposed to adopt a decentralized structure that will allow the creation of digital "nuclei" across Greece
- > Potential areas, in which these "nuclei" could be set up, shall be geographical regions with strong economic activity in industries of national competitive advantage and/or areas, in which innovation is already being generated (i.e. areas hosting research led active academic institutions, etc.)

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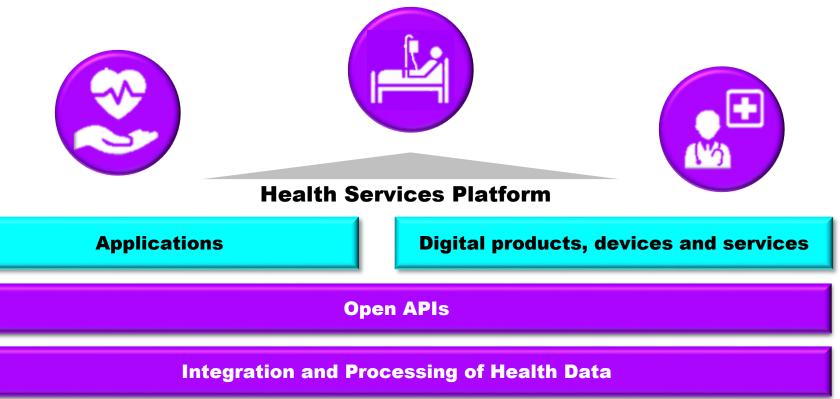
# THE 4<sup>TH</sup> STRATEGIC AXIS

#### **GOVERNANCE STRUCTURE**



- Prerequisite for the establishment, development and efficient steering of the Hellenic Digital Hub is the set up of a governance model with senior Government backing and engagement from leading industry stakeholders
- > Leading practices indicate that hubs with role model stewards can attract more easily businesses and partners, increase their visibility and build entrepreneurial communities
- > Within the Governance Structure we propose the set up of a digital council that will be responsible for the monitoring and supervision of all hub activities. In more detail, the council will:
  - > serve as an ambassador of the hub
  - > create a compelling vision, enhance the credibility of the hub and support the attraction of new hub members
  - > establish a communication channel with the Greek Government and the Greek academia
  - > be responsible for advertising the newly-established hub within Greece and abroad and contacting foreign companies and agencies that could invest in the hub

# THE 4<sup>TH</sup> STRATEGIC EXAMPLE - THE CREATION OF A DIGITAL AXIS





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ZEB

- Health data are collected by sensors and smart devices, rendered anonymous and processed by the platform
- Combined with the provision of APIs, they offer the ability to develop new digital applications, products and services

#### Digital Platform based on cloud computing



### THE 4<sup>TH</sup> STRATEGIC THE HELLENIC DIGITAL HUB -BIG DATA ANALYTICS: THE DIGITAL HUB'S DNA





At the heart of the Digital Hub we place big data analytics, which play the role of the "mediator" between the new smart products and humans 2

Big data analytics are responsible for processing data collected from the Internet of Things (IoT), sensors and intelligent/smart machines and for incorporating them into meaningful conclusions and suggestions



The initiation of the Digital Hub will be assisted by the application of the new rules on free movement of data. The hub will be responsible to structure and format them prior to their mass release



**Έλοροντα Επιχαρήσεια, Σύγχοροντη Ελλάξ** 

The added value produced will act as a center of attraction for enterprises across industries, which will bring new data to the ecosystem. This data will either be sold or leveraged by the Digital Hub



## THE 4<sup>TH</sup> STRATEGIC FAVORABLE CONDITIONS UNDERPINNING AXIS





Big Data & Analytics combined with cognitive computing, artificial intelligence and the Internet of Things (IoT) establish themselves as the dominant enablers of the digital marketplace



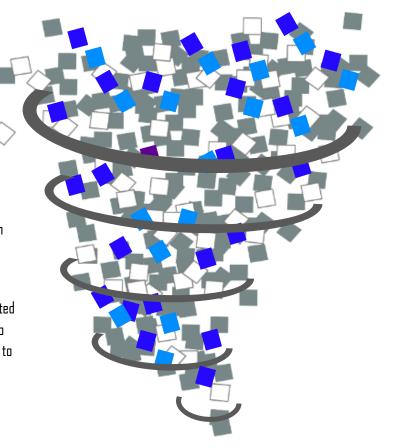
3

Relevant European Commission initiatives create a favorable regulatory and policy framework for the creation of digital hubs

Greece is required to transpose into its national law by 6 May 2018 the new General Data Protection Regulation that has been approved by the European Parliament in 2016

The majority of the polled and interviewed Greek industry players have stated the widely accepted reality; Greek industries are far behind with regards to leveraging digital technologies and there is an absolute necessity for them to start exploiting their data

### DATA THE NEW DIGITAL CAPITAL



### Favorable conditions from the supposed

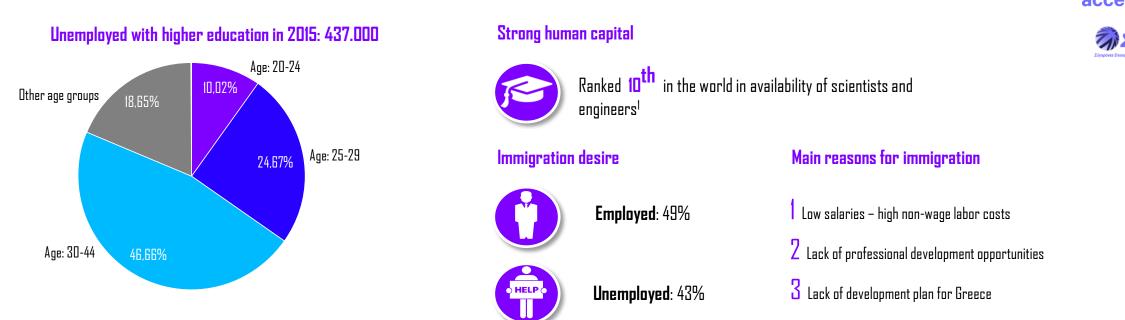


Our analysis indicated that Greece appears to perform better across its digital skills lever. This is further validated by WEF's Global Competitiveness report for 2017, in which Greece ranks 10th in the world in terms of availability of scientists and engineers



Testament of Greece's large talent pool of STEM resources, stand the increasing investments that global Technology leaders make in Greece for the creation of global Digital Centers of Excellence. Accenture, Cosmote on behalf of DT, SAP, Nokia, Microsoft and IBM are just some of the biggest global players that have selected the country to establish digital Centers of Excellence that diffuse digital expertise to their global clients

# THE 4<sup>TH</sup> STRATEGIC GR ENJOYS AN UNPARALLELED ADVANTAGE BASED ON THE "LIQUIDITY" & AVAILABILITY & AVAILABILITY OF A HIGHLY EDUCATED WORKFORCE THAT OF A HIGHLY EDUCATED WORKFORCE THAT OF A HIGHLY EDUCATED TO GREECE



Freshmen in 2015 per field of studies, #	Informatics Science subjects <sup>1</sup>		Economics/ Management	Other	Total freshmen	
Universities and Technical Universities	4.155	9.400	5.895	24.750	44.200	
Technological Educational Institutes	2.285	6.660	7.160	8.040	24.145	
Total	6.440	16.060	13.055	32.790	68.345	

Includes Engineering, Mathematics, Physics,

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### THE 4<sup>TH</sup> STRATEGIC THE HELLENIC DIGITAL HUB - KEY AXIS



Establish a clear mandate for policy renewal, update and open the procurement process to support the hub's digital growth



Prerequisite for the establishment, development and efficient steering of the Hellenic Digital Hub is the development of a governance model with senior Government backing and engagement from leading industry stakeholders





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The long-term growth of the Hellenic Digital Hub will be driven by its ability to attract and nurture the relevant digital skills and capabilities. Therefore, the design of a talent acquisition and development plan will be key to attract and grow the necessary IT and digital skill



Imminently introduce national programs and policies for the repatriation and rapid onboarding of Greek digital talent into the digital hub Introduce financial instruments & provide access to capital

Public sector investment shall be complemented with a strong private sector effort that will provide investment, mentorship, experience and a set of more rigorous processes to monitor and drive the growth of the hub members



The design of a targeted brand image supported by exposure achieved through industry and global events, can further help to attract talent and to support the growth of hub members

## THE 4<sup>TH</sup> STRATEGIC THE HELLENIC DIGITAL HUB ENABLES THE ALLENIC DIGITAL HUB ENABLES THE BIGITAL TECHNOLOGIES

- It will increase the productivity and growth of the technology companies based within the digital hub through leveraging the network multiplier effect. Members will digitally tap into the hub's networks and leverage them to gain better and faster access to employees and suppliers and to exploit accumulated expertise

• It will stimulate the formation of new businesses, expected to expand and strengthen the digital hub itself and create a value add ecosystem



lt will act as an innovation sandbox. It will drive the direction and pace of disruptive innovation that will subsequently enhance the country's digital maturity and will uplift Greece's productivity growth through its transition to digital products

It will incubate and build the critical "digital mass" and diffuse this both within the Technology sector and across the Greek economy and society

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## **GREECE'S ESTIMATED DIGITAL MATURITY IN 2021**

### **2016** CURRENT SITUATION

### 2021

**"BUSINESS AS USUAL" SCENARIO** 

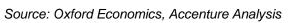
### 2021

INCREASE OF DIGITAL MATURITY THROUGH THE IMPLEMENTATION OF THE HOLISTIC DIGITAL STRATEGY









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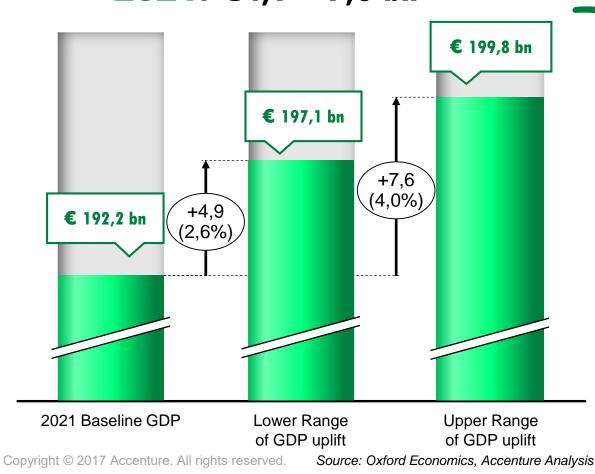
TEB

## THE UPLIFT OF THE GREEK GDP & THE BRAIN DRAIN REVERSAL





## Additional GDP Growth by 2021: €4,9 – 7,6 bn



Brain drain reversal and creation of at least 50,000 jobs



## **ESTIMATED ADDITIONAL DIGITAL** INVESTMENTS

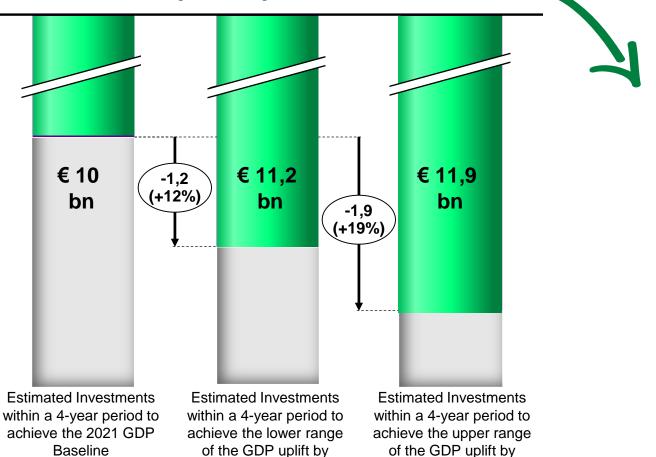
2021





Additional digital investments by

2021: **€1,2 – 1,9** bn



Baseline

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2021

In order for Greece to achieve the 2021 GDP > baseline, the country is required to invest approximately € 10 bn. over a four-year horizon (2018-2021)

- GDP's additional uplift by  $\in$  4,9 bn  $\in$  7,6 bn > requires additional digital investments from €1.2 bn to €1.9 bn over the next four years
- These digital investments include both public and private investments

# THE EXECUTION **OF GREECE'S** DIGITAL STRATEGY

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ΣΕΒ

## THE GUIDING PRINCIPLES FOR THE SUCCESSFUL EXECUTION



### "TRANSLATION" OF THE DIGITAL STRATEGY

The implementation of the Greek digital strategy through a structured action plan



### CLEAR SEGREGATION OF RESPONSIBILITIES

The introduction of a Governance model, responsible for implementing and managing the digital strategy and ensuring its continuity



### DISCIPLINE DURING THE IMPLEMENTATION

The design of a performance management system that interconnects the strategic axes to a set of quantitative and qualitative indicators and sets measurable targets for each indicator





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## DIGITAL STRATEGY – ACTION PLAN

	Years				
Axes of Interdependent Digital Strategy	1	2	3	4	5
1. Fix the brilliant basics					>
1.1 Establish and implement a Digital Governance model					
1.2 Update policy and regulatory framework regarding open data, ePrivacy and cyber security					
1.3 Develop a national communications infrastructure					>
1.4 Strengthen digital skills in primary, secondary and tertiary education					
1.5 Emphasize lifelong learning and improvement of digital skills					
2. Government 2.0					
2.1 Digitalize public services for citizens & business					
2.2 Reengineer and simplify Internal public sector processes					
2.3 Adopt an agile environment					
2.4 Digitally upskill and reskill the public sector workforce					
3. The National Strengths Based Play					>
3.1 Implement a bundle of digital actions by companies in the Greek economy					
4. The Hellenic Digital Hub					·>
4.1 Renew and update relevant regulatory policies and frameworks					   
4.2 Introduce a structured governance and collaboration model					
4.3 Design of a targeted strategy to attract, repatriate and develop talent					
4.4 Meet basic physical infrastructure requirements for the establishment of the hub				I I I	   





The proposed initiatives per strategic axis are categorized into two distinct groups:

- > Actions with a short-term implementation horizon, which are considered a priority for the initiation of the strategy execution. The end of the short-term implementation horizon is set to two years from start
- > Actions with a medium-term

implementation horizon, need more time, and on a case-by-case basis require the completion of the first horizon actions as a prerequisite. The completion of the medium-term implementation horizon is set at the end of the four-years

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## **ACTION PLAN OUTCOMES**



The "Fixing the Brilliant Basics" strategic axis acts as the starting point of the overall Action Plan. Its initiation consists the prerequisite for the initiation of all other strategic axes	<b>2</b> The setup of the Governance model is a critical milestone for the successful implementation of the overall action plan	3 The design and enforcement of a favorable regulations and policies framework is another critical milestone for the overall action plan's success
4 Infrastructure activities (including the national communications infrastructure and open data/ interoperability initiatives) are also set to be critical and must be implemented as a first priority	5 The "National Strengths Based" strategic axis will run independently of all other strategic axes; this is due to the fact that this consists of a set of initiatives to be undertaken individually by Greek industries	6 The Digital Hub shall be set up within the first two years of the action plan. After the end of the setup period, we assume that the hub will perform independently. However, active monitoring and continuous encouragement is required

## **GOVERNANCE PRINCIPLES**



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Role	Responsibilities	<b>ANSER</b>
Ministry of Digital Policy, Telecommunications and Information	• Shall set out the overall strategic direction, work as a digital ambassador and demonstrate a high level supervision of the implementation of the Greek digita	Lipport Envertine, Exposite Ethilde
Digital Strategy Office / General Secretariat of Digital Policy	<ul> <li>Shall formulate the interdependent digital strategy, establish collaboration mechanisms among the involved stakeholders, monitor the implementation progr and publish periodic progress reports</li> </ul>	ress of the digital strategy
National Council of Digital Strategy	<ul> <li>Shall include the Minister of Digital Policy, Public Sector organizations, Political Parties and Private Sector representatives. The members of the National Co shall co-design the national digital strategy and monitor its implementation</li> </ul>	uncil of Digital Strategy
Implementation Office (War Room) / General Secretariat for Digital Policy	<ul> <li>Shall identify the set of bundles of actions associated with the implementation of the Digital Strategy and manage the budget and the centralized planning of Digital Strategy</li> </ul>	the implementation of the
Chief Digital Officer (per Ministry)	<ul> <li>Shall head the project team per Ministry. Their main responsibility is the successful completion of digital activities under the responsibility of the Ministry will budget constraints</li> </ul>	ithin the specified time and
Policy Formulation Council	<ul> <li>Shall maintain channels of communication with external bodies (academics, private sector stakeholders, etc.) to formulate effective regulations and policies transformation at a national and industry level and support their legislation</li> </ul>	regarding the digital
Digital Project Teams (per Ministry)	• Shall implement digital initiatives per ministry. Each project team is managed by the respective Chief Digital Officer	

## THE PERFORMANCE MANAGEMENT SYSTEM (1/2)



Digital Opportunity Economic Index (DEOI) Lever	Digital Opportunity Economic Index (DEOI) Indicator	Digital Opportunity Economic Index (DEOI) Sub-Indicator	Key Performance Indicator	As-Is Value	Recommended To-Be Value	Source	Stra
	National Communications Infrastructure	Broadband Speed	NGA broadband coverage/availability (as a % of households)	36,3%	100%	Eurostat	Axis I
	Government Prioritization of Digital	Open Data	Open Data Index (O-100)	38,4	45,1	Open data barometer	Axes I, 2
		E-participation	Online Service Completion (% of steps in a Public Service life event that can be completed online)	53,90%	65.40%	Eurostat	Axis 2
x)o	Digital Business Environment	Ease of Business	Ease of Doing Business index	68,67%	76,80%	World Bank	Axes 1, 2
X		Access to Venture Capital	Venture capital availability index based on WEF Executive Opinion Survey	1,81	2,41	WEF / GCI (2016- 2017)	Axes 3, 4
		Ecommerce	Ecommerce turnover as a percentage of total turnover	6,00%	12,00%	Eurostat	Axes 3, 4
Divite to a		Cyber Security	Percentage of enterprises whose ICT security policy was defined or most recently reviewed within the last 12 months	8.00%	11.44%	Eurostat	Axes 2.3.4
Digital Accelerators		ICT Patents	Patents per capita	0,004%	0,01%	World Bank	Axes 3, 4
	Digital Capital Stock	Hardware	Percentage of real capital stock in hardware	0,17%	0,24%	EU KLEMS	Axes 2,3,4
	Digital Capital Stock	Software	Percentage of real capital stock in software	0,55%	1,05%	EU KLEMS	Axes 2,3,4
	Digital Engagement	Online Advertising	Percentage of advertising that is digital	13,60%	18,70%	eMarketer	Axes 3, 4
-	Digital Technologies	Cloud	Percentage of enterprises/government bodies buying cloud computing services	9,00%	14,97%	Eurostat	Axes 2,3,4
Digital Technologies		Analytics	Percentage of enterprises using CRM to analyze information about clients for marketing purposes	15,00%	20,12%	Eurostat	Axes 2,3,4

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## THE PERFORMANCE MANAGEMENT SYSTEM (2/2)



Digital Opportunity Economic Index (DEOI) Lever	Digital Opportunity Economic Index (DEOI) Indicator	Digital Opportunity Economic Index (DEOI) Sub-Indicator	Key Performance Indicator	As-Is Value	Recommended To-Be Value	Source	Stra
	Carl of Dirital Chills	ICT Sector Employment	Percentage of enterprises that recruited/tried to recruit personnel for jobs requiring ICT specialist skills	7,00%	11,03%	Eurostat	Axes 2,3,4
	Stock of Digital Skills	Digital Workers	Percentage of workforce basic ICT skills	22,01%	28,02%	Digital Economy Project	Axes 2,3,4
8	Digital Skills Development	Computing Graduates	Percentage of individuals who have obtained ICT skills through formal educational institutions (school, college, university, etc.)	21,83%	22,36%	Eurostat	Axes 2,3,4
		ICT Training	Percentage of enterprises providing training of ICT skills to personnel	10,00%	18,34%	Eurostat	Axes 2,3,4
		Impact of ICT on Organization Models	Index measured from qualitative executive opinions on the impact of ICT to Organization Models	3,61	3,9	WEF / NRI	Axes 2,3,4
	Digital Ways of Working	Digital Conferencing	Percentage of enterprises providing persons employed a remote access to the enterprise's applications	48,00%	59,70%	Eurostat	Axes 2,3,4
Digital Skills		R&D Employment	R&D employment as a percentage of total employment	1,07%	1,89%	DECD	Axes 3, 4

## 01



The support for the execution of the digital The Greek digital vision shall strategy shall be bipartisan to ensure continuity



 $\mathbf{03}$ 



The active monitoring of EB Greece's digital transformation shall be performed via the application of a dedicated digital dashboard

 $\mathbf{06}$ 

The deployment of nationwide, up-to-date infrastructure is the "utility" for Greece's rotation to digital

 $\left( \right)$ 

The setup of the Digital Hub will act as a national digital "accelerator"

### leadership must be secured **KEY SUCCESS FACTORS**

The available public funds shall be the means and not the end of the Greek digital strategy

become an integral part of

and commitment from the

highest level of political

the national economic policy

The design and enforcement of a favorable regulatory framework is a critical milestone

07

 $\mathbf{08}$ 

The digital upskilling and reskilling of Greece's workforce are the "fuel" for digital rotation

The Greek industries have a major role to play in the country's rotation to digital and shall embrace this digital opportunity

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# LIST OF DIGITAL INITIATIVES PER STRATEGIC AXIS

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SUGGESTED SHORT-TERM TASKS (1/3)





#### **1.1 GOVERNANCE**

DIGITAL TECHNOLOGIES

Setup a dedicated Governance body to lead the end-to-end operationalization of the National Digital Strategy

Introduce a structured performance management framework to interlock entities on digital initiative outcomes

Design a communications strategy to inform and educate stakeholders about changes to processes, policies, standards and requirements

Establish a mechanism to efficiently collaborate with government entities, private sector, advisory boards, and international experts

### **1.2 POLICIES (OPEN DATA, E-PRIVACY, CYBERSECURITY)**



DIGITAL ACCELERATORS

Enforce the adoption of data openness and reusability standards (PSI) and of the General Data Protection Regulation (GDPR) to enable greater transparency and allow for the reusability of public sector data

Introduce a structured Open data strategy to be adopted and followed across the Public Sector

Introduce a common interface of the main registries to achieve continuous updating of data (i.e., demographic, tax, insurance data) and unique entry of new records

Implement the electronic identification (eID) initiative to ensure the ubiquitous identification of a person across all digital channels

Enforce the application of electronic signatures and certifications is vital for safe digital services

Collaborate with the private sector and academia to develop innovative cyber security solutions

Collaborate with the European Network and Information Security Agency, the Computer Emergency Response Team for the EU institutions (CERT-EU) and other EU member states to exchange information on good practices with regards to cyber resilience

SUGGESTED SHORT-TERM TASKS (2/3)





#### **1.3 INFRASTRUCTURE**



DIGITAL TECHNOLOGIES & DIGITAL ACCELERATORS

Set up and enforce a favorable regulatory framework that will enable the simplification and acceleration of the licensing processes for the deployment of NGA networks

The private sector to rapidly deploy integrated nation-wide fiber and wireless networks to enable ubiquitous and seamless high-speed connectivity

Government to invest public resources to expand the next generation broadband infrastructure across the "White NGA areas"

Initiatives (e.g. subsidies) to boost the demand for broadband services and to bridge the digital gap

Reevalution of the necessity for special taxes that burden each citizen for the consumption and usage of Fixed, Mobile and TV services, as those work towards a completely opposite direction with regards to the goals of the interdependent digital strategy and may negate any multiplier effects

1.4 INCREASE OF DIGITAL LITERACY IN PRIMARY, SECONDARY AND TERTIARY EDUCATION



DIGITAL SKILLS

Incorporation of digital technologies (e.g. through the promotion of program in support of the "Digital School", etc.) in the primary, secondary and tertiary education

Provision of specialized incentives for professors to improve their digital literacy and facilitate their usage of new digital technologies and to modernized their teaching standards and methods

Establishment of a digital and ICT skills certification system for professors, in cooperation with respective certification authorities, for example the Institute of Training (INEΠ) of the National Center of Public Administration and Local Government

Partnership between government and ICT industry players for the evolution of the educational material in primary, secondary and tertiary education through the incorporation of technology disciplines

### SUGGESTED SHORT-TERM TASKS (3/3)





1.5 EMPHASIS ON LIFELONG LEARNING AND ON IMPROVING DIGITAL SKILLS



DIGITAL

SKILLS

Design targeted communication initiatives and educational programs with regards to the digital public services that are currently being provided

Design massive open online courses (MOOCs) focused on digital technology themes

Design industry specific training courses focused on digital technologies and skills

Design and implement specific training programs regarding the usage of digital technologies for small and medium enterprises as well as for citizen groups that exhibit limited familiarity with digital technologies

Specialized analysis and design of a selected set of digital services so that these can be accessed and used by disabled people

Setup local teams responsible for handling communications, training and provide support to specific demographic groups and small enterprises with regards to accessing and using the internet

Provide incentives to specific demographics groups (like the elderly and/or low income citizens) that exhibit high levels of digital illiteracy

### SUGGESTED MEDIUM-TERM TASKS





1.3 INFRASTRUCTURE FOR HIGH SPEED BROADBAND NETWORKS



DIGITAL ACCELERATORS

Action plan for the harmonization of Greece with the European Radio Spectrum Policy Program and the coordinated use of the 700 MHz band for mobile services. This is expected to improve internet access for all Europeans and facilitate the development of cross-border applications

Develop an action plan to facilitate and accelerate the deployment of 5G networks, including the provision of the required spectrum, in cooperation with the private sector and their respective linkages

Prepare a set of future initiatives beyond the current national NGA plan to meet the EU's new long-term objectives and cover the period up to 2025 for the Gigabit Society

## **GOVERNMENT 2.0**

### SUGGESTED SHORT-TERM TASKS





### **2.1 DIGITALIZATION OF SERVICES FOR CITIZENS & ENTERPRISES**



DIGITAL

Establish a dedicated service-design team that will be responsible for working across the government entities to design integrated digital public services

Update the IT Delivery and Sourcing Models to accommodate agile methodologies

**2.4 DIGITAL UPSKILLING AND RESKILLING OF THE PUBLIC SECTOR WORKFORCE** 



DIGITAL SKILLS

Assess the training requirements of different public administration workforce regularly on new digital technologies

Design specialized, mandatory programs for digital upskilling and provision of respective certification, in collaboration with certification bodies i.e. The Institute for Training (INEII) of the National Center for Public Administration and Local Government

Develop a national program that will allow top graduates with relevant technical know how to complete a one-year internship in public administration and support the government's digital transformation

## **GOVERNMENT 2.0**

### SUGGESTED MEDIUM-TERM TASKS





### 2.1 DIGITALIZATION OF SERVICES FOR CITIZENS & BUSINESSES



DIGITAL TECHNOLOGIES

Design a detailed process map with all services provided to businesses and citizens that need to be digitalized, accompanied by a detailed timeline and segregation of responsibilities

Digitalize prioritized services to businesses and citizens (e-procurement extension, elicensing, e-invoicing / payments, start-up, online interconnection of cash registers)

2.2 INTERNAL PUBLIC SECTOR PROCESSES REENGINEERING AND SIMPLIFICATION



DIGITAL TECHNOLOGIES

Reengineer and simplify (and automate where possible) internal Public Sector processes

Selectively outsource transactional low value activities to the Private Sector

### 2.3 AGILE ENVIRONMENT ADOPTION



DIGITAL TECHNOLOGIES

Enforce interoperability through the establishment of common standards

Implement an integrated electronic document management platform across public sector entities

Deploy a single Public Administration Human Resources Management solution (HRMS)

Establish a unified and integrated management platform for all transactions between citizens and public services, independent of citizens' access mode (online, physical present or via call center)

Implement digital solutions, leveraging cloud and software as a service capabilities

Design and manage a multi-speed IT infrastructure

Develop a government marketplace, starting with a centralized government procurement portal in order to significantly reduce costs and accelerate the procure-to-pay process

## THE GREEK DIGITAL HUB

### SUGGESTED SHORT-TERM TASKS (1/2)





#### **4.1 POLICY RENEWAL & UPDATE**



### DIGITAL ACCELERATORS

Establish an open dialogue with businesses, public agencies, the Greek academia and other key stakeholders to create the foundation for the design of effective policies and regulations with regards to the hub's setup and operation

Provide targeted tax incentives to attract large leading companies to join the hub; this will create a more viable hub ecosystem for start-ups, supporting business and SMEs to thrive. For example, the introduction of 200% horizontal over-depreciation as a tax incentive to promote productive investment capex, especially with regards to the digital upgrading of enterprises

Provide customs duty suspensions for import of raw materials, components, or finished products into free industrial zones/ licensed manufacturing warehouses/ free commercial zones/ bonded warehouses

Provide relevant incentives, such as tax or patent programs to attract businesses to develop and commercialize their research

Simplify and digitalize the public tender process and remove pre-qualification inhibitors to support innovation and SMEs inclusion (small, medium enterprises)

Make the use of digital technologies a mandatory part of the bidding conditions to become a strong lever to stimulate demand

4.2 GOVERNANCE & COLLABORATION

x)°

DIGITAL ACCELERATORS

Develop a governance model with senior Government backing and direct engagement from leading ICT industry stakeholders

## THE GREEK DIGITAL HUB

### SUGGESTED SHORT-TERM TASKS (2/2)





#### **4.3 ACCESS TO SKILLS**



DIGITAL SKILLS

Introduce national programs and policies for repatriating and rapid onboarding of digital talent into the "digital hub"

Hub tenants to fund research grants, logistical support, public recognition, etc. to create a favorable environment for expatriates

Hub tenants to design targeted programs for accelerated career paths within the hub

Design a services platform at the hub level to link fresh graduates and academic institutes with the job market

Launch open e-Learning platform to provide startup courses and online support for business founders

4.4 INFRASTRUCTURE



DIGITAL ACCELERATORS

Collaborate with all appropriate government entities to develop comprehensive business startup packages to provide businesses with fast IT and Communications service

Design of the physical estate of the Hellenic Digital Hub. It is recommended to adopt a decentralized structure that will allow the creation of digital "satellites" across Greece. The main areas to be examined will be marked by strong economic activity in sectors of national competitive advantage or will be areas where innovation is generated or constitute future free trade areas