

IDC

SUSTAINABLE EDUCATION MEETING 2018

EDUCATION DATA GOVERNANCE MATURITY ASSESSMENT MODEL

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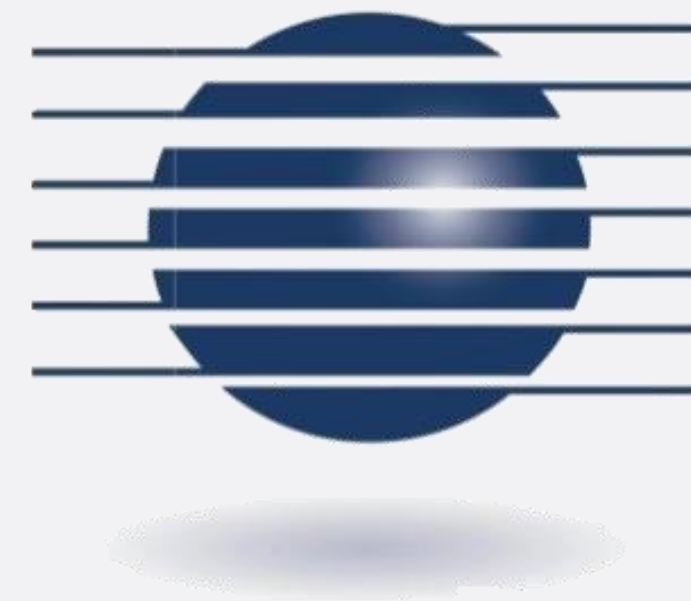
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About us

International Data Corporation (IDC)

Is the premier global provider of market intelligence, advisory services, and events for the information technology, telecommunications, and consumer technology markets. With more than 1,100 analysts worldwide, IDC offers global, regional, and local expertise on technology and industry opportunities and trends in over 110 countries.

IDC's analysis and insight helps IT professionals, business executives, and the investment community to make fact-based technology decisions and to achieve their key business objectives.



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Analyze the Future

welcome message



Link:

<https://www.youtube.com/watch?v=0MUsvCvYhERY>

Welcome.

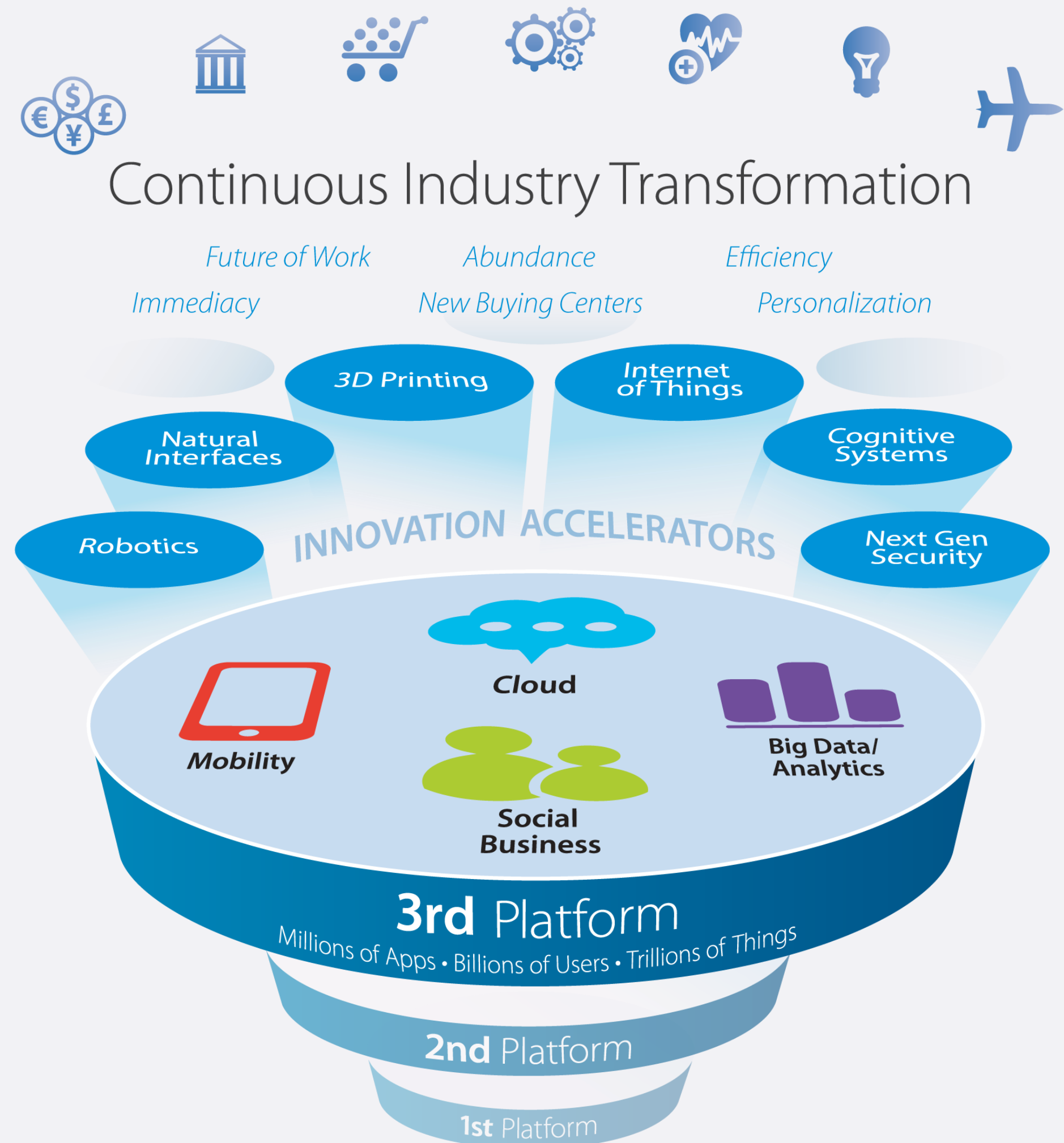
“The **information revolution** is sweeping through our economy. No company can escape its effects.”

- How Information Gives You
Competitive Advantage, Michael E.
Porter Victor E. Millar



“IDC defines Digital Transformation as the continuous process by which enterprises **ADAPT TO OR DRIVE DISRUPTIVE CHANGES** in their customers and markets (external ecosystem) by **LEVERAGING DIGITAL COMPETENCIES** to innovate **NEW BUSINESS MODELS, PRODUCTS, AND SERVICES** that seamlessly blend digital and physical and business and customer experiences while improving operational efficiencies and organizational performance”

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32 digital transformation essential themes

Business Transformation

Digital Transformation

Leadership Transformation	Omni-experience Transformation	Worksource Transformation	Operating Model Transformation	Information Transformation
<ul style="list-style-type: none"> <input type="checkbox"/> IT Strategy and Governance <input type="checkbox"/> Leading in 3D <input type="checkbox"/> Strategic architecture <input type="checkbox"/> Services transformation <input type="checkbox"/> Innovation Strategies 	<ul style="list-style-type: none"> <input type="checkbox"/> Customer Experience <input type="checkbox"/> Mobility strategies <input type="checkbox"/> Devices: PCs, Mobility, Wearables and Augmented reality/Virtual Reality <input type="checkbox"/> Social Business <input type="checkbox"/> eCommerce 	<ul style="list-style-type: none"> <input type="checkbox"/> Vendor Sourcing and Management <input type="checkbox"/> IT Talent and Skills Management <input type="checkbox"/> Outsourcing Services <input type="checkbox"/> Organizational Development and Work Optimization <input type="checkbox"/> Technology Training 	<ul style="list-style-type: none"> <input type="checkbox"/> Enterprise Infrastructure <input type="checkbox"/> AppDev and App Provisioning <input type="checkbox"/> DevOps <input type="checkbox"/> Cloud Strategies <input type="checkbox"/> Transformative Tech: IoT, Robotics and 3D Printing 	<ul style="list-style-type: none"> <input type="checkbox"/> Enterprise/ NextGen Security <input type="checkbox"/> Enterprise Applications <input type="checkbox"/> Information and Data Transformation <input type="checkbox"/> Big Data and Analytics <input type="checkbox"/> Cognitive Computing

Enterprise IT Transformation

DX

External Drivers



SENSE, COMPUTE, ACTUATE

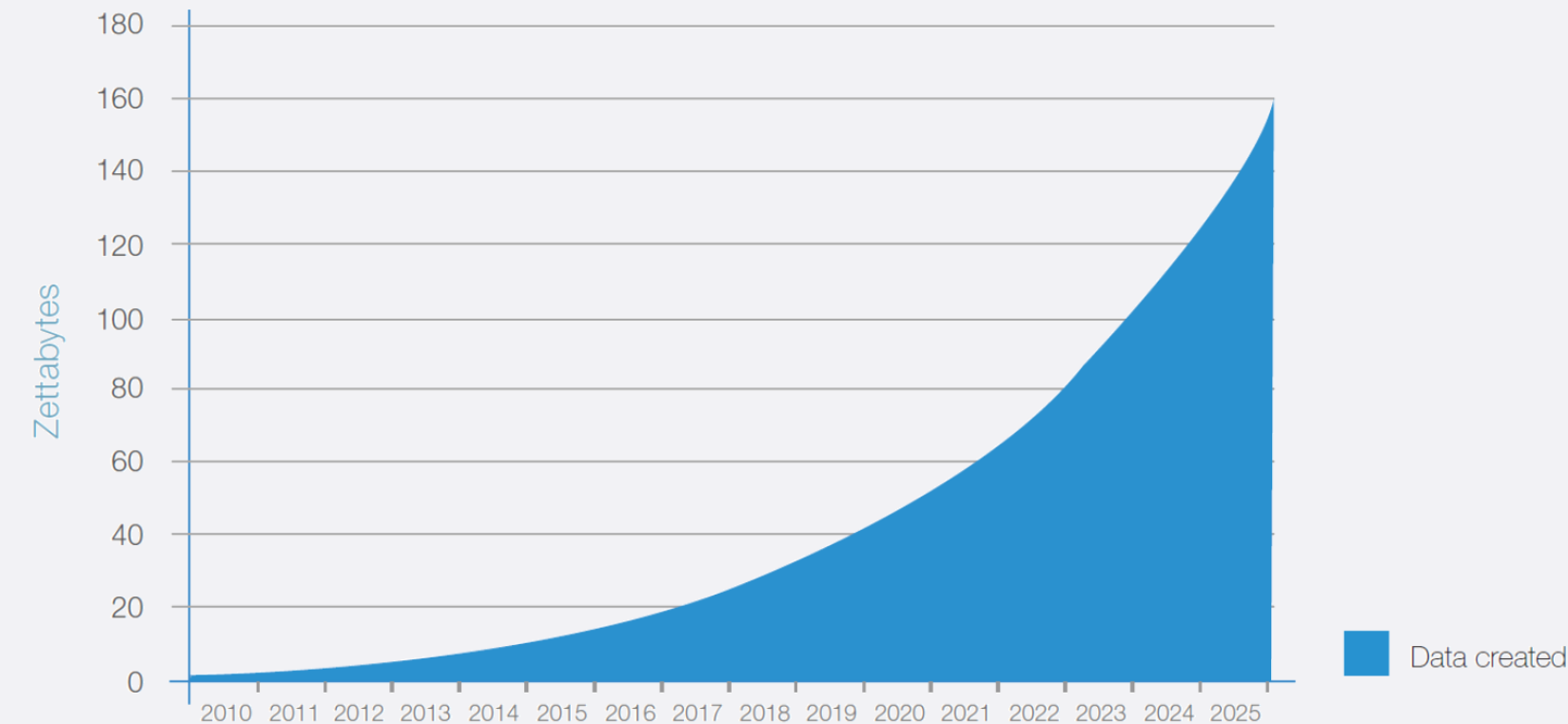
The new data-centric paradigm

*“While data is at the core of the new digital economy, **IT'S ABOUT HOW YOU SENSE THE ENVIRONMENT AND MANAGE THE DATA FROM EDGE TO CORE TO CLOUD AND HOW YOU ANALYZE IT IN NEAR REAL TIME, LEARN FROM IT, AND THEN ACT ON IT TO AFFECT OUTCOMES.** IoT, mobile devices, big data, machine learning, and cognitive/AI all combine to continually sense and collectively learn from an environment. What differentiates winners is how they leverage that to deliver meaningful, value-added predictions and actions for personalized life efficiency/convenience, improving industrial processes, healthcare, experiential engagement, or any enterprise decision making.”*

Digital transformation Global Datasphere*



“By 2025, approximately **80 billion devices** will be connected to internet (today ~13b). Approximately 4.800 devices are being connected to the network as we speak. Ten years from now, the figure will mushroom to **152.000 a minute**. IDC forecasts that by 2025 the global datasphere will grow to **163 ZETTABYTES!**”



Source: IDC's Data Age 2025 study, sponsored by Seagate, April 2017

DATA ETHNOGRAPHERS



“By 2021, 25% of Large Enterprises Will Have Supplemented Internal and External Data Scientists with Data Ethnographers to **Provide Contextual Interpretations of Data** by Using Qualitative Research Methods That Uncover People's Emotions, Stories, and Perceptions of Their World”



FROM BUSINESS BACKGROUND TO LIFE-CRITICAL

“IDC estimates that by 2025, **nearly 20% of the data in the global datasphere will be critical** to our daily lives and nearly 10% of that will be hypercritical.”

Source: IDC FutureScape: Worldwide Analytics and Information Management 2018 Predictions



ANALYZE THE FUTURE



millenniumedu
sustainable education
Making a difference for 21st century students

EMBEDDED SYSTEMS AND THE INTERNET OF THINGS (IOT)

“By 2025, an average connected person anywhere in the world will **interact with connected devices nearly 4,800 times per day** — basically one interaction every 18 seconds.”



“By 2025, connected users will number 75% of the world’s population. More than **a quarter of data created in the global datasphere will be real time in nature**, and real-time IoT data will make up more than 95% of this.”

MOBILE AND REAL-TIME DATA

DON'T PUSH ME...



COGNITIVE/ARTIFICIAL INTELLIGENCE (AI) SYSTEMS THAT CHANGE THE LANDSCAPE



“IDC estimates that the amount of the global datasphere subject to data analysis will grow by a factor of 50 to 5.2ZB in 2025; **the amount of analyzed data that is “touched” by cognitive systems will grow by a factor of 100 to 1.4ZB in 2025!**”

SECURITY AS A CRITICAL FOUNDATION

“In 2015, enterprises created less than 30% of data, while this figure will be nearly 60% in 2025. By 2025, almost 90% of all data created in the global datasphere will require some level of security, but **less than 50% will be secured.**”

**KEEP
CALM
AND
GET
DIGITAL**

“In less than a decade, new digital entrants have already seized a significant share of revenue across regions and industries — 17% on average, according to our findings, leaving only 83% to the incumbents. ... **While digital entrants hold "only" 17% of total global revenue, they own 47% of digital revenue.**”

McKinsey

Data Value

End-to-end approach



Stakeholders Needs

Data STRATEGY

Are we doing the right things?



01
Data Governance



Data VALUE

Are we getting the benefits?

Data ARCHITECTURE

Are we doing them right way?



02
Data Management



Data DELIVERY

Are we getting it done well?

Data OPERATIONS

Are we doing?



03
Data Operations



Data OPERATIONS

Is it working?

#SECURITY #PRIVACY #COMPLIANCE



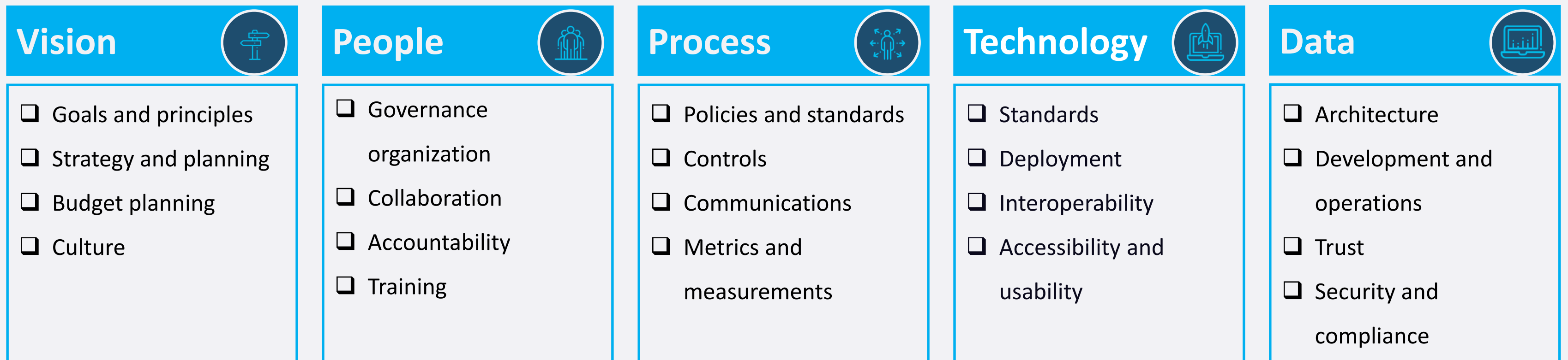
“ If you don't know where you want to go, then it **DOESN'T MATTER WHICH PATH YOU TAKE!**”

Cheshire Cat

Education Data Governance Maturity Assessment Model

Education Transformation

Education Data Governance Transformation



“Successful deployment and use of education data governance depends on a multipronged approach guided by a **strategy that accounts for not only technology but also human and capital resources, business and IT processes, and the data.**”

5

STRATEGIC

Organizationwide balance of planning and control activities, operationalized and optimized with process and activity automation, implemented with executive-level visibility and oversight.

4

PRACTICAL

Balance of planning and control activities is implemented with clear mandates, accountability, and oversight across one or more Education core areas within an Organization.

3

COORDINATED

Control activities outweigh planning, but mandates, accountability, education core areas collaboration, and oversight of operations begin to take shape.

2

TACTICAL

Control activities are done in silos, reactive in nature, and implemented without clear mandates, accountability, or oversight plans.

1

HAPHAZARD

No planning or control activities, no defined processes and no collaboration with education core areas, individual projects, and efforts.

EDUCATION DATA GOVERNANCE MATURITY ASSESSMENT MODEL



The Education Data Governance Maturity Assessment Model was developed by IDC in collaboration with Millennium@EDU SUSTAINABLE EDUCATION. More information at: <http://www.idcdx.pt/insights/education/>

“Is not about a Education Data Strategy, It’s about a new comprehensive Education Strategy in a **DATA-DRIVEN WORLD!**”

obrigado.

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