

Arthur D Little

Digital Transformation – How to Become Digital Leader

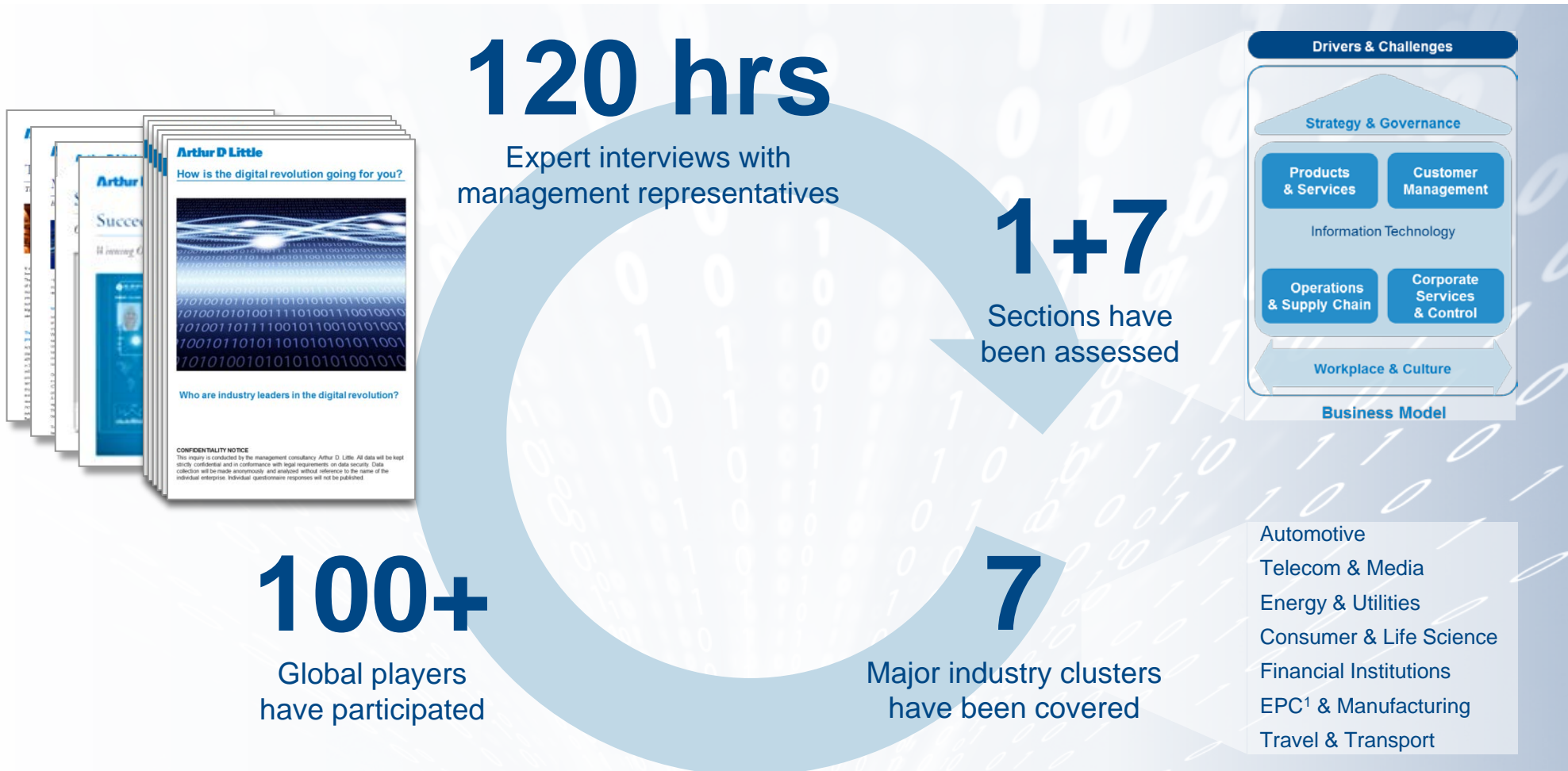
Study Results – Overview

August 2015

Arthur D. Little
www.adlittle.com



Arthur D. Little conducted the Digital Transformation Study globally and cross-industry. The key findings are summarized in this document.



Source: Arthur D. Little Digital Transformation Study 2015

1) EPC = Engineering, Procurement & Construction

Turning Digital has become a well-understood imperative. Although Digital has commonly found its way into corporate strategies, the path to transforming adequately remains unspecified



60% of surveyed companies are digital adaptive only

Digital Strategies

are defined but not yet drilled down to implementable plans or implemented in the Product Portfolio, Operations and Supply Chain

Progress in Digital Transformation is measured via the Digital Transformation Index (DTI)¹ **3.92 DTI**

15% have dedicated central units for Digital strategy development and implementation

50% perceive lack of digital knowledge across the value chain as their major challenge to overcome

Some of the below key findings we anticipated beforehand, whereas others have been surprising and astonishing

1. Digitization will change the competitive environment **of all industries** significantly
2. Most industries are **already affected by digital disruption** or realize that they will be soon
3. Few companies yet follow a **consistent digitization approach** for their whole business model
4. Companies **underestimate opportunities** in Operations and in Business Model Redesign
5. A **huge backlog demand** for the majority of participating companies is observed
6. No industry can claim to be a **digital front-runner**; however, each industry has its outperformers
7. Most companies are **either not aware of or ignore potential threats** from digital disruptors¹
8. Companies are **too slow in transformation**, though facing rapidly evolving digital competition
9. Third-party **integration is often underrated** as companies still try to solve problems on their own
10. The **usage of “smart data”**, and thus also **personalized offerings**, lag behind

Arthur D. Little conducted this cross-industry study with the ambition to identify the areas “where to transform” and to provide inspiration on “how to transform”



Digital Transformation is everywhere and impacts everything and everyone



Our biggest challenge is to understand the customer and his **new behaviors**.

Clients are **pushing** us towards digital transformation: If we don't transform they will move to our competitors.

The market is changing: **partners are becoming competitors**.

Products and services need to undergo a digital transformation: we cannot just take **physical** products and put them **online**.

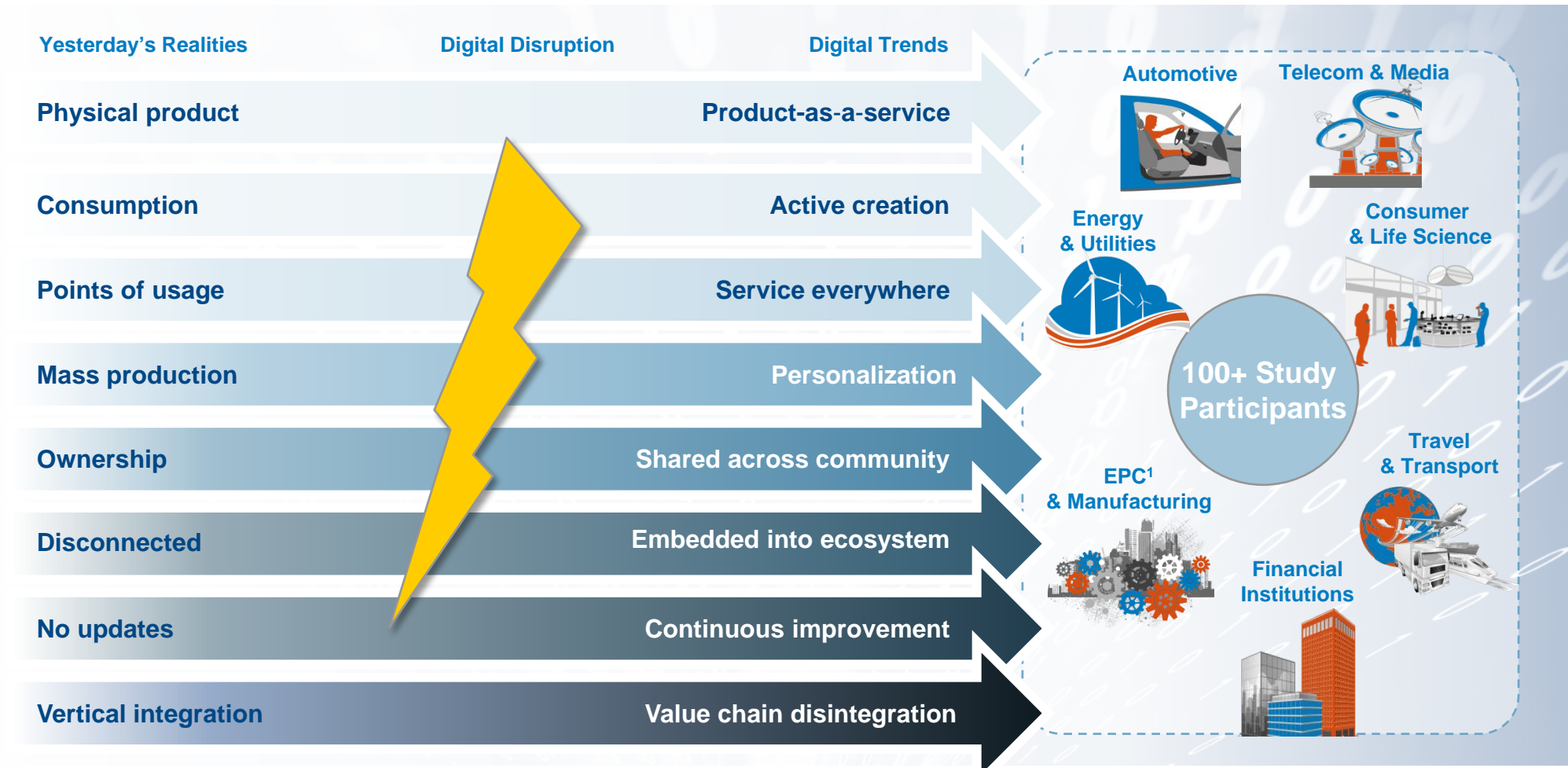
New entrants and fast-moving competitors increasingly capture **digital opportunities**, indicating the potential of “digital” in the market.

Productivity related to new technologies such as cobots, predictive analytics and additive manufacturing will increase by a factor of 100 over the next 5–8 years, while **costs** will be reduced by a factor of 100.

Our world has been changed by the expectations of our customers, while our basic service continues to be the same: **We need to transform** in order to maintain customer satisfaction.



Some major digital trends change yesterday's realities – these “game changers” facilitate great opportunities and will inevitably generate some highly digitized champions



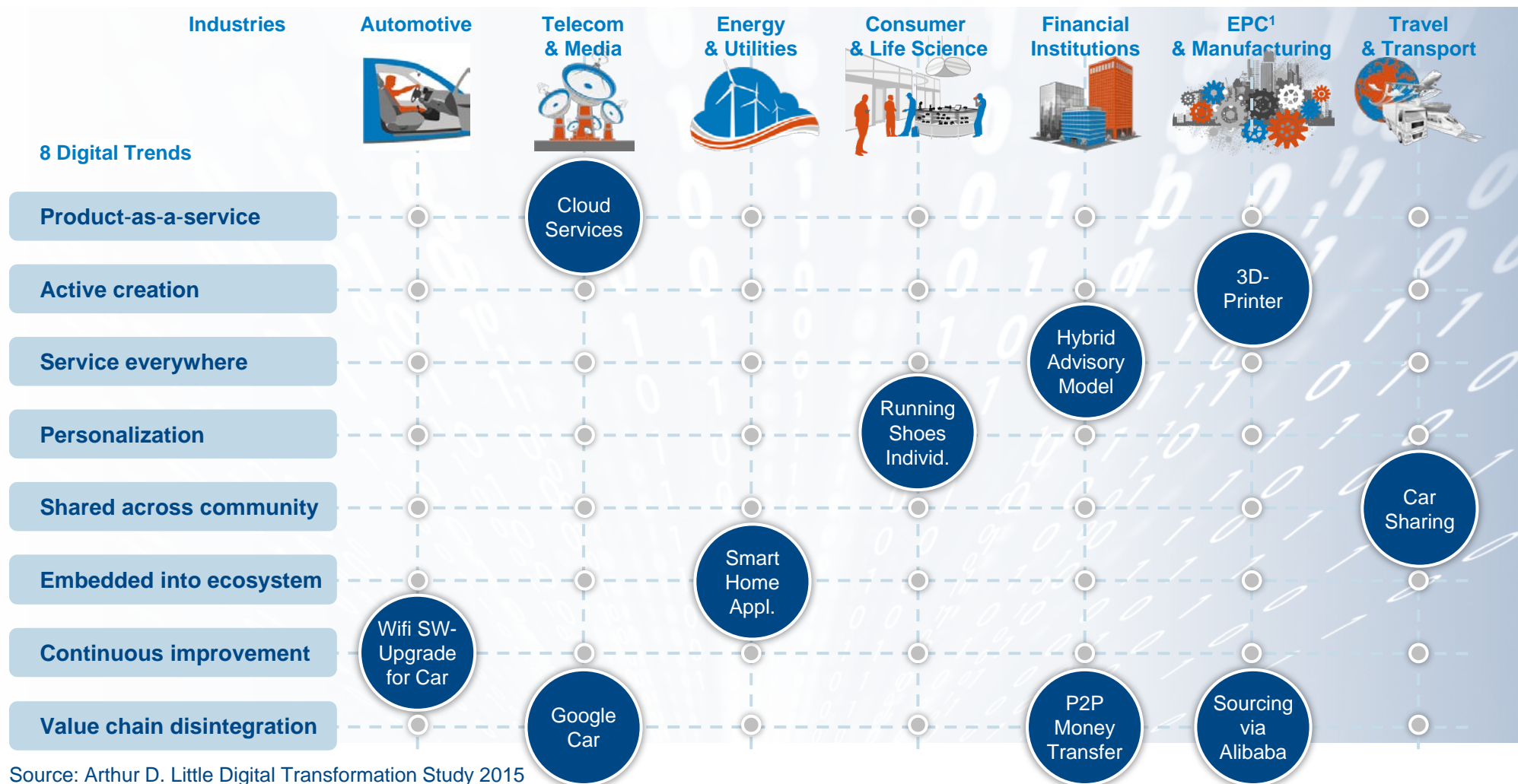
Source: Arthur D. Little Digital Transformation Study 2015

¹ EPC = Engineering, Procurement & Construction

The Arthur D. Little Digital Transformation study covers leading companies across all industry segments

				
				
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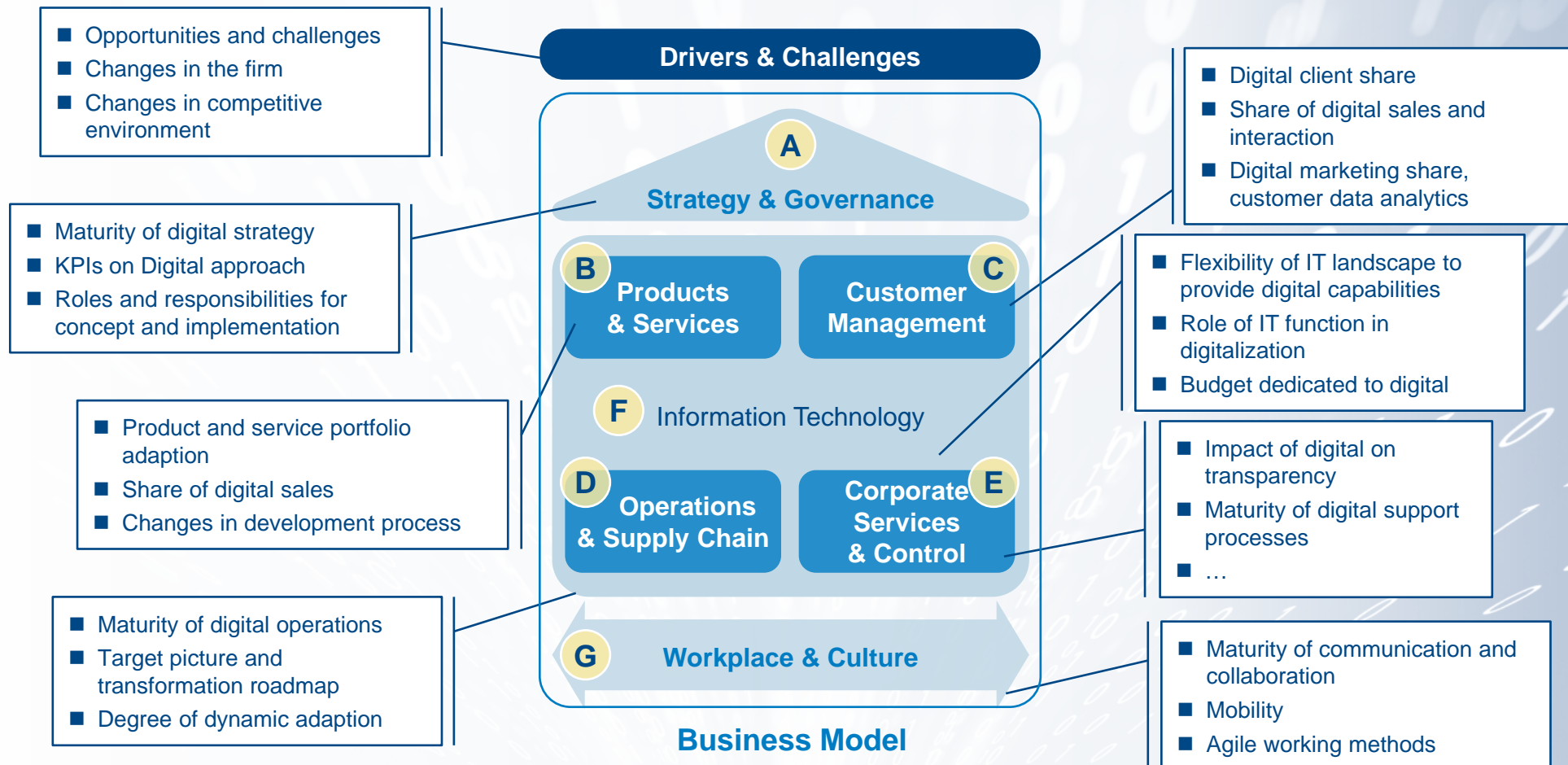
Prominent examples of digitalization can be found in every industry. By nature, each trend's impact varies and so does the industry-specific progress on digital transformation



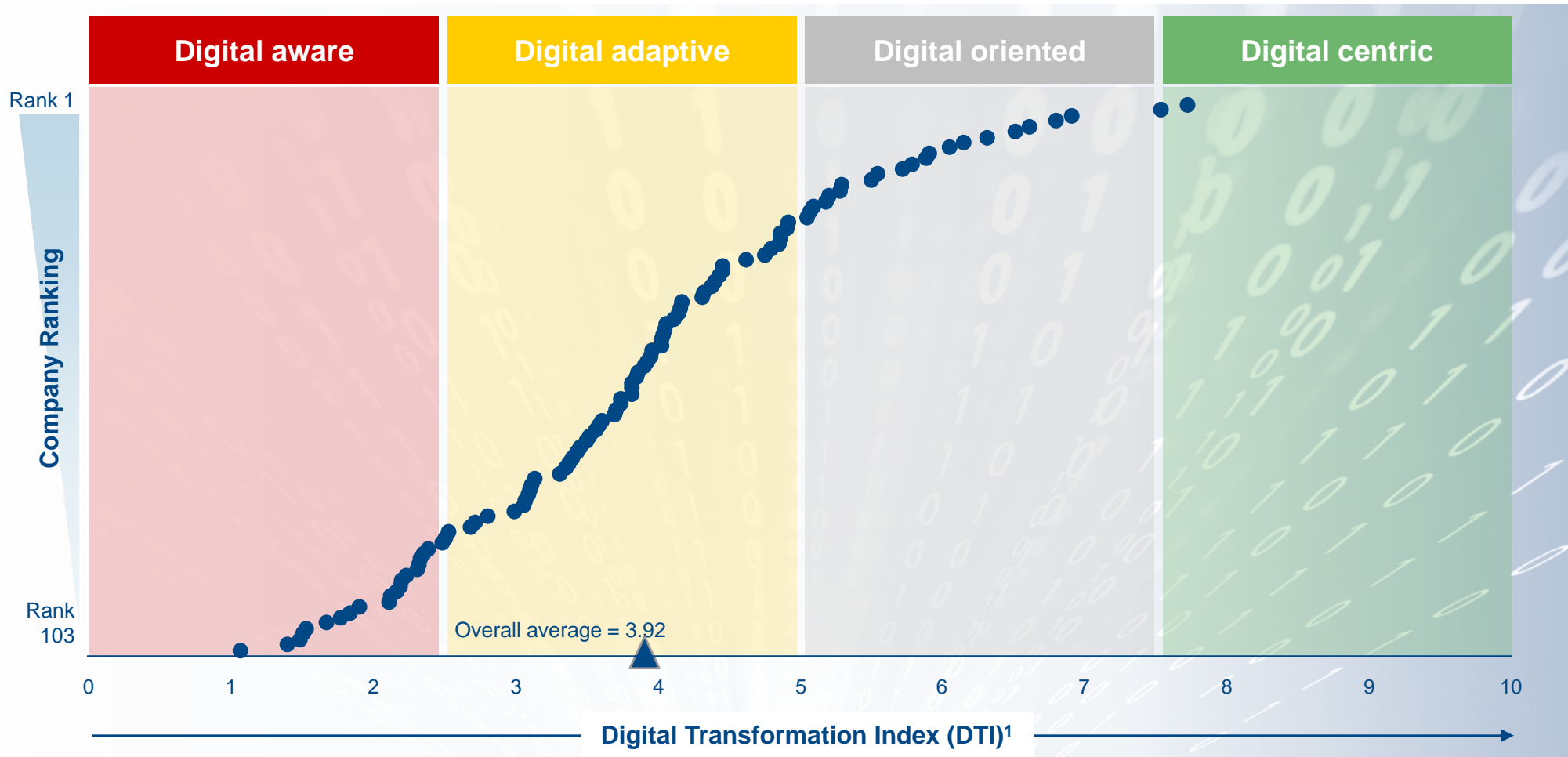
Source: Arthur D. Little Digital Transformation Study 2015

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The survey followed a holistic approach to analyze the relevant sections for digitalization; the questions raised have been mapped to these sections



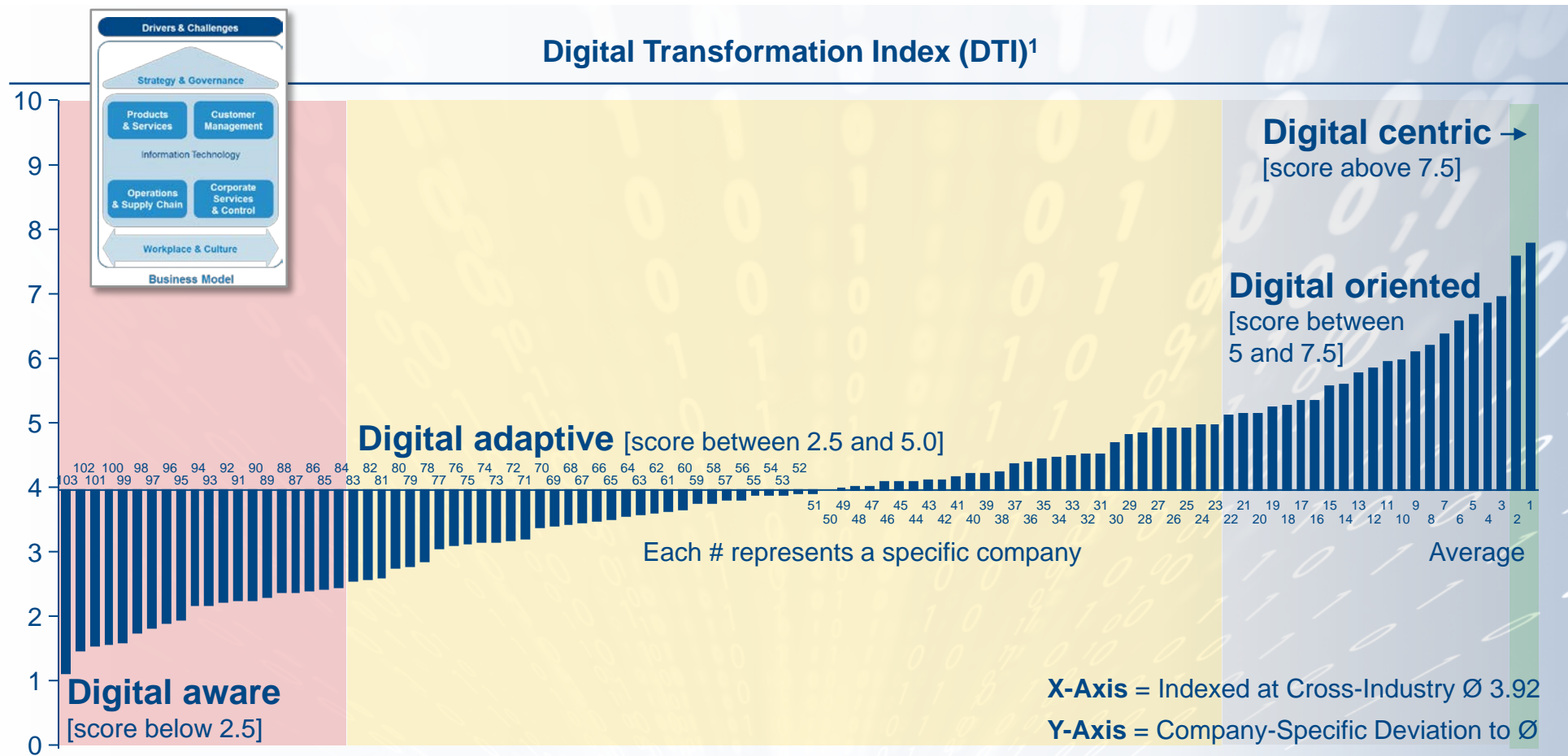
The majority of participating companies are digital adaptive only



Source: Arthur D. Little Digital Transformation Study 2015

1 DTI calculated as average of scores for each section

The Arthur D. Little Digital Transformation Index (DTI) shows that today few firms can be considered “digital oriented” or “digital centric”

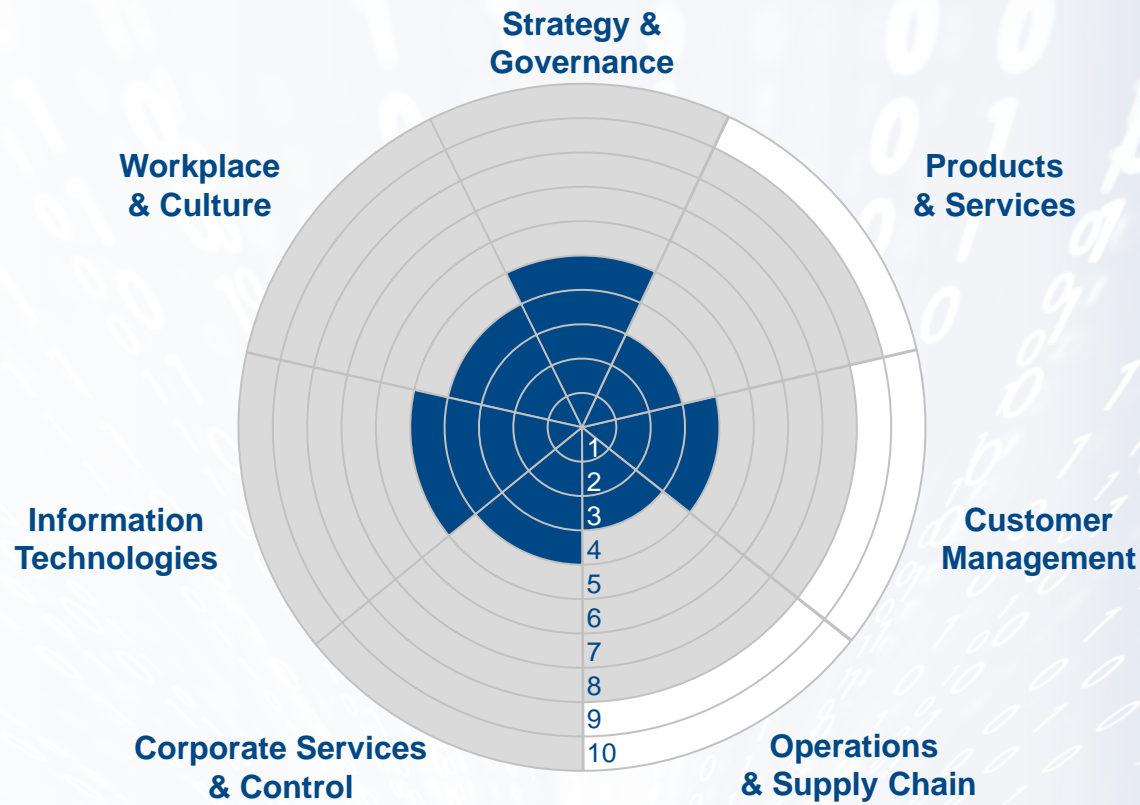


Source: Arthur D. Little Digital Transformation Study 2015

¹ DTI calculated as average of scores for each section

Average DTI is most advanced in the section “Strategy & Governance” as well as “Information Technology”, with a score of 5 – however, it still lags behind the virtual star performance

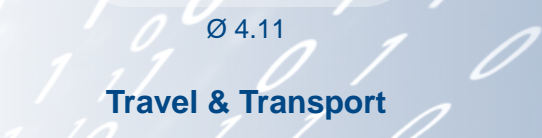
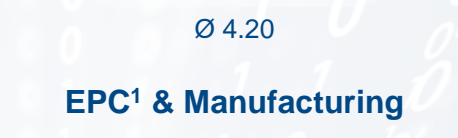
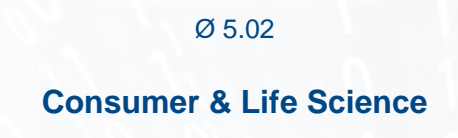
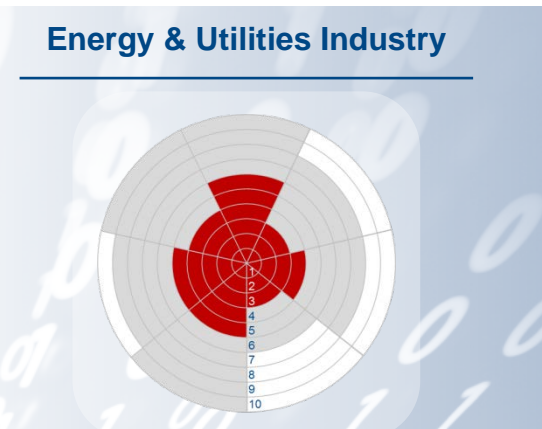
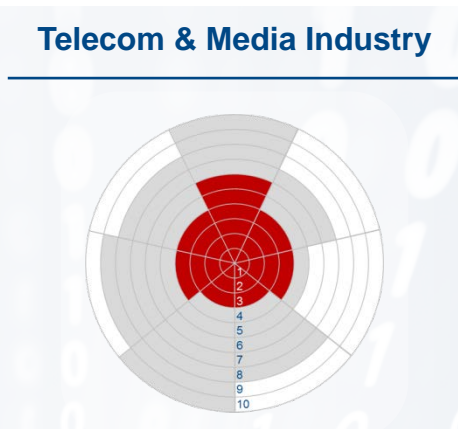
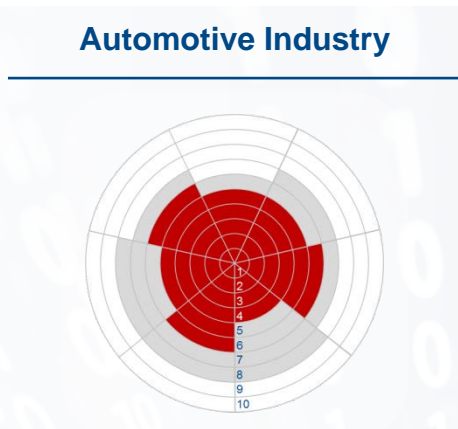
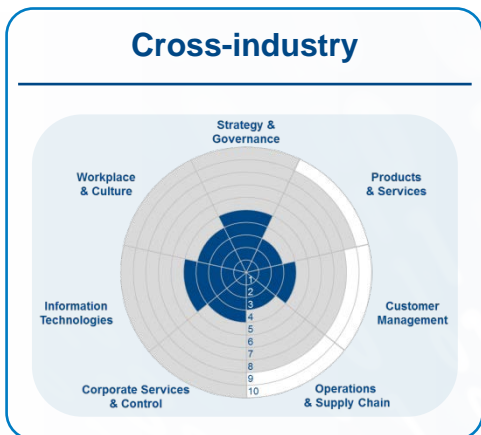
Digital Transformation Index (DTI) per Section



■ = Cross-Industry Virtual Star ■ = Cross-Industry Average

Source: Arthur D. Little Digital Transformation Study 2015

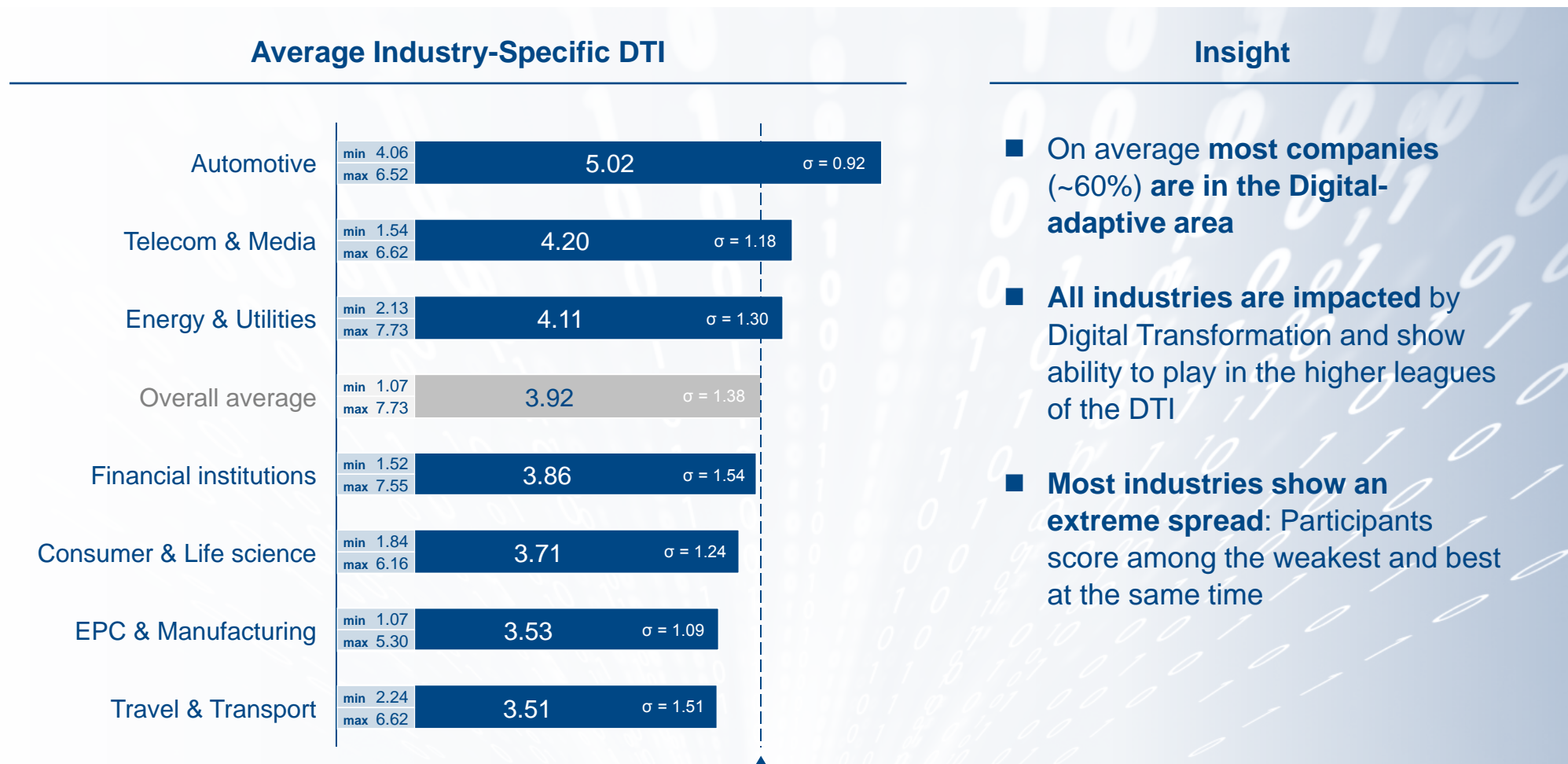
The different progresses of industries in Digital Transformation can be investigated when looking at the radar charts, reflecting the 7 sections of the model



Source: Arthur D. Little Digital Transformation Study 2015
 1) EPC = Engineering, Procurement & Construction

■ = (Cross-) Industry Virtual Star ■ = Cross-industry average ■ = Industry average

On average, all industries are “digital adaptive” only; however, each industry contains “digital-oriented” companies, whereas two industries contain one “digital-centric” company



Insight

- On average most companies (~60%) are in the Digital-adaptive area
- All industries are impacted by Digital Transformation and show ability to play in the higher leagues of the DTI
- Most industries show an extreme spread: Participants score among the weakest and best at the same time

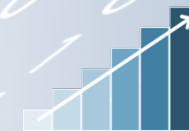
Source: Arthur D. Little Digital Transformation Study 2015
 σ = Standard Deviation; Ø = Average

Ø 3.92

Examples from failures as well as success stories show: Some key rules help to navigate through the digitalization journey

Five Core Messages to Benefit from Digital Disruption

- 1 Today, Digitalization is a strategic imperative** for corporates: It cannot be avoided!
- 2 Digitalization** is not the final goal, but a **capability** and a **way to achieve business objectives**
- The **Digital Transformation** entails challenges and opportunities for **all parts of the company**
- Every company needs to find its own ideal **Digital Transformation approach**
- For a **proper Digital Transformation** a company has to be aware of its **own capabilities and competences**; new models of sourcing evolve



Please let us know which case examples you would like to learn more about

