# TUKALEIDOSCOPE ONLINE2020

7-11 December 2020

TOWARD A TYPOLOGY OF "GOING DIGITAL"

Cheng Gong and Vincent Ribiere IKI-SEA – Bangkok University - Thailand





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#### **Session 1:**

The path towards digital transformation

#### Paper S1.1









#### Pressing Issues of Digital Transformation

Through 2021, DT initiatives will take large traditional enterprises, on average twice as long and cost twice as much as anticipated (Gartner, 2019).
 DT spending will reach \$2.3 trillion by 2023 (IDC, 2020).

Success Rate
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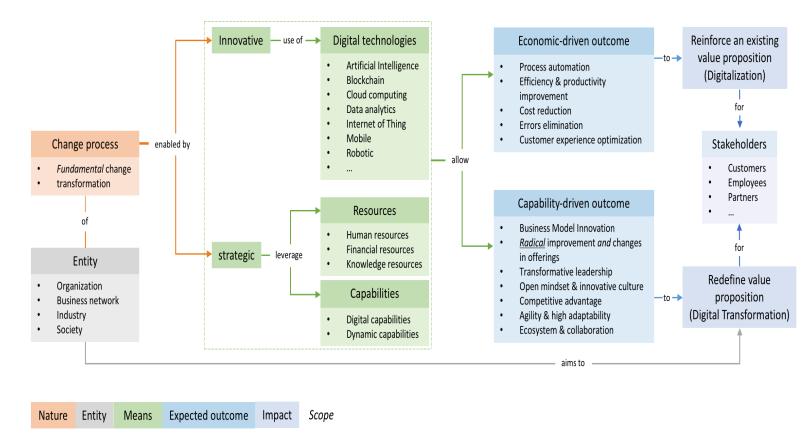


#### A Unified Definition of Digital Transformation (DT)

"A fundamental change process, enabled by the innovative use of digital technologies accompanied by the strategic leverage of key resources and capabilities, aiming to *radically* improve an entity\* and redefine its value proposition for its stakeholders."

\*An entity could be:

an organization, a business network, an industry, or society

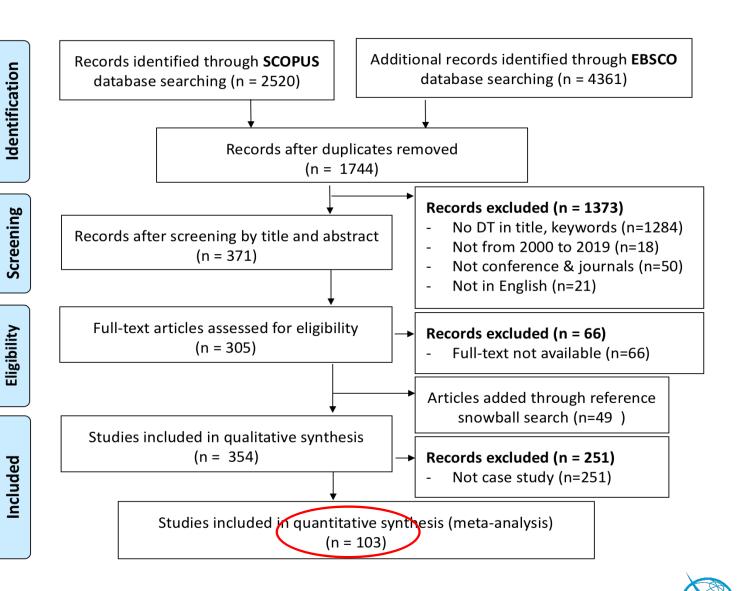






# Systematic Review Process (PRISMA)

- 103 DT case studies for a crosscase analysis
- Journal articles and conference proceedings
- Qualitative/quantitative methods
- SCOPUS & EBSCO databases
- "Digital Transformation"





## A Typology of "Going Digital"

			End Result of "Going Digital"		
			Realignment	Transformation	
External Reactive	of Change	Exogenous			
Internal Proactive	Sources	Endogenous			





## A Typology of "Going Digital"

		End Result of "Going Digital"			
		Realignment	Transformation		
of Change	Exogenous	Digitalization	Digital Transformation		
Sources c	Endogenous	Digital Mutation	Digital Metamorphosis		





### Digitalization

(Non-fundamental exogenous change)

- X Doing things in fundamentally different ways
- X Fundamentally different things
- ✓ Keeping pace with emergent digital technologies
- Reactive initiatives do not change the organization's identity
- ★ Economic-driven outcomes:
  - Digitize problematic processes in operations
  - Automation of inefficient processes
  - Optimize workflow efficiency & cost reduction & productivity

Adoption





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(Non-fundamental endogenous change)

- Proactive initiatives & Internal motivation
- ➤ Alter operational activities in the organization while maintaining alignment with its original identity
- ✓ No immediate requirement to change
- ✓ Most common, least intense, less risky
- ✓ Internally visible only in some cases
- ★ Critical success factors:
  - Training employees with required skills and competencies

**Tuning** 





#### Digital Mutation



(Non-fundamental endogenous change)

- Proactive initiatives & Internal motivation
- ➤ Alter operational activities in the organization while maintaining alignment with its original identity
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#### Tuning

Audi Business Innovation GmbH
Volvo Innovation Hub











(Fundamental endogenous change)

- Proactive initiatives & Internal motivation
- ✓ First-mover or early adopter advantages
- ✓ Redefine strategic vision
- ★ Critical success factors:
  - To actively sense & seize the opportunities associated with digital technologies
  - To avoid problems rather than passively waiting for things to go wrong or decline before taking action







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Conversion

Reorientation













### **Digital Transformation**

(Fundamental exogenous change)

- ✓ Redefine value proposition
- ✓ Organizational frame-breaking
- Reactive initiatives initiated after the improved performance is needed
- ★ Capability-driven outcomes:
  - Business model innovation
  - Produce dramatic changes in offerings
  - Achieve competitiveness
  - Radical performance

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Recreation



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#### Recreation







#### "Going Digital" Typology & Pathways

P0: Reproduction

P1: Adoption

P2: Reconstruction

P3: Tuning

P4: Conversion

P5: Reorientation

P6: Recreation

P7: Possible sequence

**Digitalization** *Adoption Reconstruction* 

**Digital Mutation** *Tuning* 

**Digital Transformation**Recreation

Digital Metamorphosis

Conversion

Reorientation





#### "Going Digital" Typology & Pathways

P0: Reproduction

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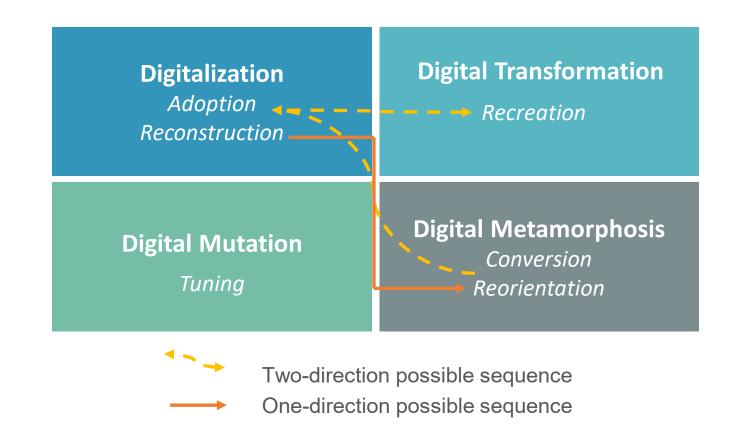
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Thank you!

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