



How COVID-19 has Impacted Digital Transformation

Views From the Perspective of C-Suite Professionals

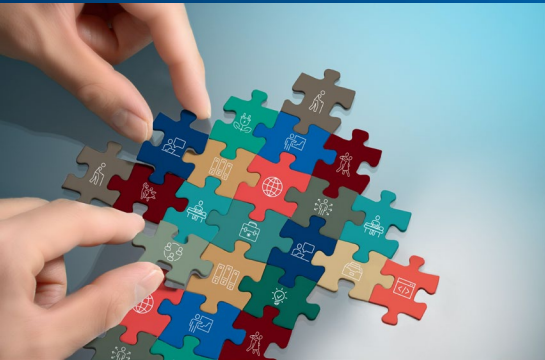
Helmut Schindlwick
19th March 2021



ALMA MATER
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Agenda

- Brief Introduction
 - About the author
 - Problem Statement
 - The Rationale of the Study
 - Research Methods & Objectives
- Results and Analysis
 - Inclination of businesses towards digital transformation – Pre and post-Corona
 - Key drivers and pitfalls – Pre and Post Corona
- Conclusion and Q&A



Brief Introduction



- About the Author: [LinkedIn](#), [ResearchGate](#), [Amazon](#)
 - Helmut Schindlwick, CIO, Experienced Transformation Manager, Enthusiastic Lifelong Learner and Author
- Problem Statement:
 - Although extensive research on digital transformation very less research on the impact of COVID-19 concerning the importance of digital transformation.
- The Rationale of the Study:
 - Based on qualitative research with in-depth interviews (1h, 12 manager, 5 Countries) and using coding for analysis.
 - SRQ1a: What is the inclination of businesses towards opting specific digital technologies?
 - SRQ1b: What are the key drivers and pitfalls of digital transformation?
 - SRQ1c: How has COVID-19 impacted the digital transformation of businesses?
- Research Objectives:
 - Inclination of businesses towards digital transformation - Pre and post-Corona
 - Key drivers and pitfalls – Pre and Post Corona

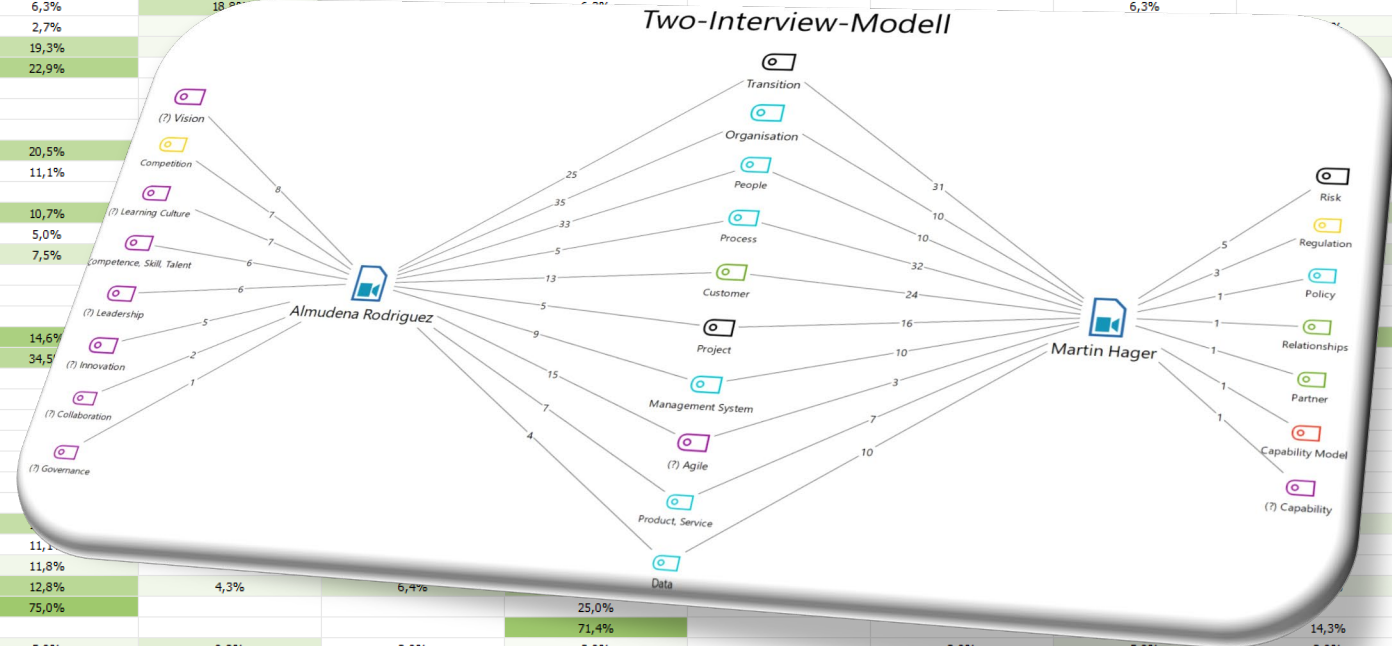


TESy vs Interview coding

<https://tesy-framework.com/>



	Daniel Lambert	Thiagarajan Venkatramani	Almudena Rodriguez	Jürgen Horak	Chantal Paquin	Peter Bergmann GERMAN	Mathias Traugott	Thomas Pränger GERMAN	Lars Wentorp	Martin Hager	Fernando Scheeps	Christoph Pirringer	Total
TESy Framework	18,4%	9,2%	11,8%	5,3%	9,2%	15,8%	2,6%	9,2%	6,6%	2,6%	6,6%	2,6%	100,0%
External Factors				20,0%					40,0%			40,0%	100,0%
Competition			63,6%	27,3%			9,1%						100,0%
Requirements		10,0%		20,0%	20,0%		30,0%				10,0%	10,0%	100,0%
Disaster	2,8%	16,7%	11,1%	2,8%	11,1%	8,3%	16,7%	8,3%		2,8%	5,6%	13,9%	100,0%
Trends											100,0%		100,0%
Regulation										100,0%			100,0%
Technology (Ex)	9,1%	1,8%	5,5%	5,5%	3,6%		5,5%		21,8%	12,7%	30,9%	3,6%	100,0%
Organisation	7,5%	2,5%	17,6%	15,6%	4,0%	1,0%	9,5%	2,5%	16,1%	5,0%	13,1%	5,5%	100,0%
Technology (Org)	10,9%		6,5%	4,3%	4,3%		6,5%	2,2%	13,0%	10,9%	34,8%	6,5%	100,0%
People	8,3%	9,4%	18,2%	4,4%	8,3%		20,4%		13,3%	5,5%	6,6%	5,5%	100,0%
Process	3,1%	5,2%	5,2%	7,3%	4,2%		13,5%		10,4%		15,6%	2,1%	100,0%
Knowledge		6,3%	25,0%	6,3%	18,2%					6,3%		31,3%	100,0%
Management System	17,3%	10,7%	12,0%	2,7%								2,7%	100,0%
Product, Service	3,7%	6,4%	6,4%	19,3%								1,8%	100,0%
Data	14,3%		11,4%	22,9%									100,0%
Information	11,1%	5,6%	33,3%									5,6%	100,0%
Policy	28,6%	42,9%										14,3%	100,0%
Relationships												66,7%	100,0%
Customer	10,3%	5,1%	16,7%	20,5%									100,0%
Partner				11,1%									100,0%
Vendor		11,1%											100,0%
Transition	4,4%	6,3%	9,2%	10,7%									100,0%
Strategy	60,0%		10,0%	5,0%									100,0%
Management	5,7%	15,1%	18,9%	7,5%									100,0%
Board			11,1%										100,0%
Goal			30,8%										100,0%
Risk													100,0%
Project	13,5%	3,1%	5,2%	14,6%									100,0%
Enterprise Architecture	50,0%		1,7%	34,5%									100,0%
Process Model													100,0%
Organisational Model													100,0%
GRC Model			11,1%										100,0%
Capability Model													100,0%
Topology Model													100,0%
(?) Learning Culture	4,0%	20,0%	28,0%										100,0%
(?) Design Thinking													100,0%
(?) Culture		7,1%	21,4%										100,0%
(?) Competence, Skill, Talent			66,7%	11,1%									100,0%
(?) Innovation			29,4%	11,8%									100,0%
(?) Method, Tool	12,8%	10,6%	2,1%	12,8%	4,3%	6,4%	25,0%						100,0%
(?) Maturity				75,0%									100,0%
(?) Governance			14,3%				71,4%				14,3%		100,0%
(?) Agile	15,7%	21,6%	29,4%	5,9%		2,0%	3,9%		2,0%	5,9%		2,0%	100,0%
(?) Leadership		25,6%	15,4%	17,9%			23,1%		2,6%			7,7%	100,0%
(?) Vision		18,2%	36,4%	9,1%			36,4%						100,0%
(?) KPI			37,5%	25,0%					12,5%	25,0%			100,0%
(?) Collaboration		33,3%	22,2%		33,3%						11,1%		100,0%
(?) Capability										50,0%		50,0%	100,0%
SUMME	9,2%	7,1%	13,4%	11,1%	6,4%	2,9%	10,8%	6,3%	8,4%	10,8%	8,4%	5,2%	100,0%
# N = Dokumente	1 (8,3%)	1 (8,3%)	1 (8,3%)	1 (8,3%)	1 (8,3%)	1 (8,3%)	1 (8,3%)	1 (8,3%)	1 (8,3%)	1 (8,3%)	1 (8,3%)	1 (8,3%)	12 (100,0%)



Results and Analysis: Inclination of businesses towards digital transformation – Pre and post-Corona



- Results of the study highlighted the fact that although a large number of businesses were opting for digitized solutions before the occurrence of the pandemic, the prevalence of COVID-19 **increased the pace of digital adoption** and subsequently **authenticated the validity of digital transformation** of businesses when considering their industrial **competitiveness and sustainability** in the market. Cloud computing, artificial intelligence, and machine learning were identified to be the **critical transformational constructs**.
- Considering the impact of COVID-19, the concept of digital transformation was categorized as an **evolution of businesses** revealing that the transformation is not confined to merely technical change, but also includes **altering the thought patterns and business structures**, while ensuring the **training and development of employees** to capacitate them to master new technological interventions.



Results and Analysis: Key drivers and pitfalls – Pre and Post Corona



- The influence of **customers**, changing industrial **trends**, **cost efficiency**, and **competition** were identified as the **generic drivers**, whereas **COVID-19** was identified as the **primary influencer**, leaving a direct impact on production capacity, operational efficacy, success, and the **competitive advantage** of a business to a great extent.
- Although the participants were **convinced on the effectiveness of digital transformation** facilitating virtual working environments, another stance that was quite evident from the research results was that **developing the coherence of people to work from home** added to the existing operational struggles of both employees and managers.
- In addition to that, the study results confirmed that digital transformation **required the integration of technology with people and society**.



Conclusion and Q&A



- COVID-19 has, **undoubtedly, had a significant impact** on the digital transformation of businesses.
- Despite an increasing interest of businesses towards implementing digital technologies into several business units, the prevalence of COVID-19 has changed the working environment's dynamic, **mandating digital transformation** as a **contributor to the success, competitive advantage, and sustainability of businesses**.
- The study results have also identified COVID-19 as the **most significant challenging factor** for the transformation of businesses where **lack of coherence among employees** and **people's inability to adapt** to the technological interventions **might demotivate them and cause disrupted operational activities**.
- The study's results also suggested the **benefits of focusing on the training and development of employees** to capacitate them to adapt to the new normal working environment.





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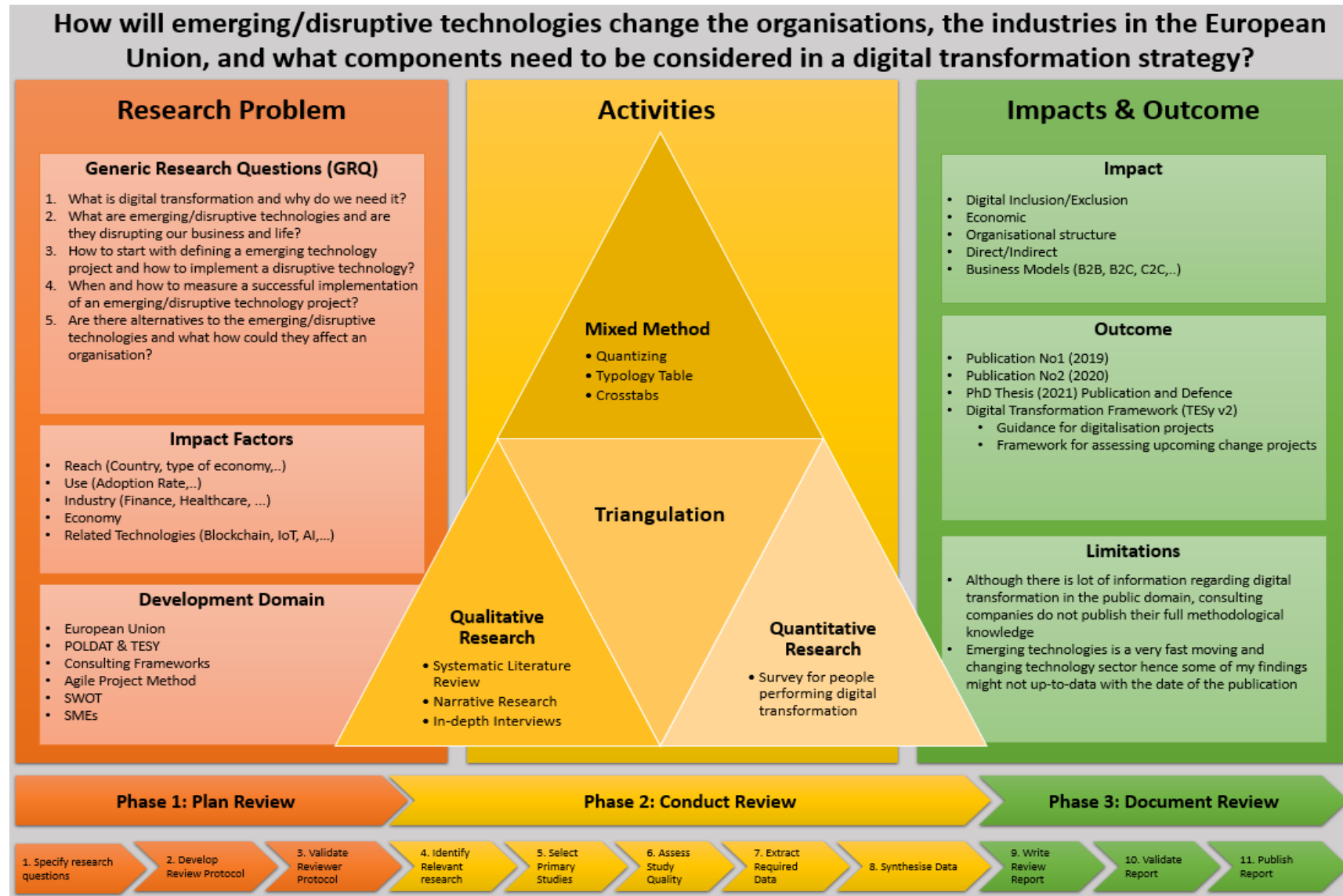
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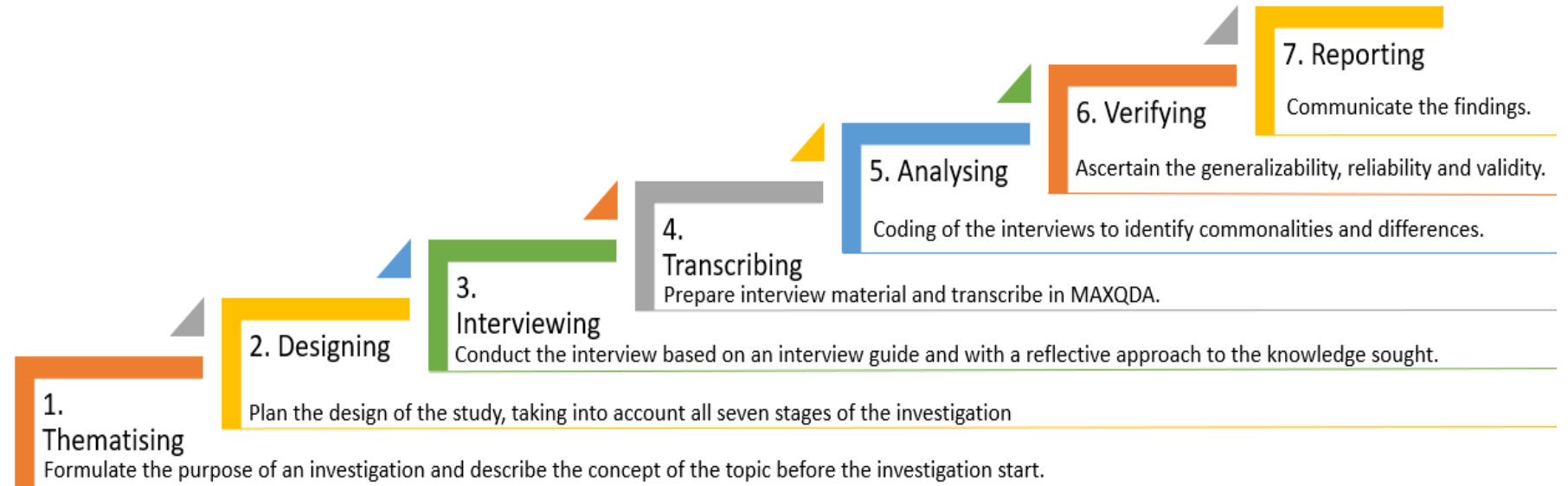
The overall Research Framework for the Thesis



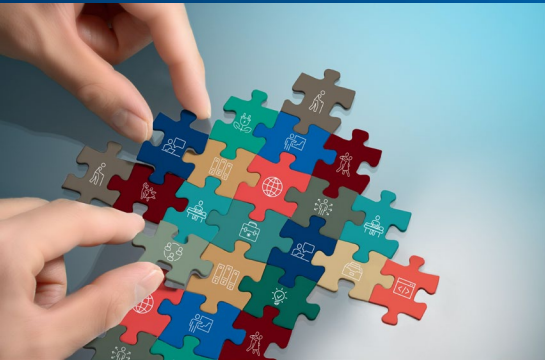
Research Framework for the thesis, where the presented qualitative research and the in-depth interview is shown.



In-Depth Interview Research Method



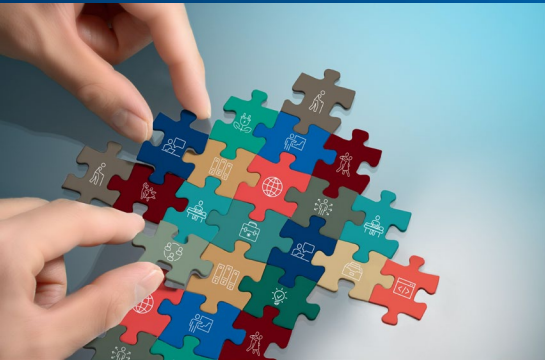
The seven stages of an interview investigation (Kvale 1996) used in this research for managing the in-depth interview process.



Interview Partner for
this study. Many
thanks for their
contribution!

As all participants signed the GDPR consent to use their personal data and publicly release the interview content, below are their details to express gratitude for participating in this research.

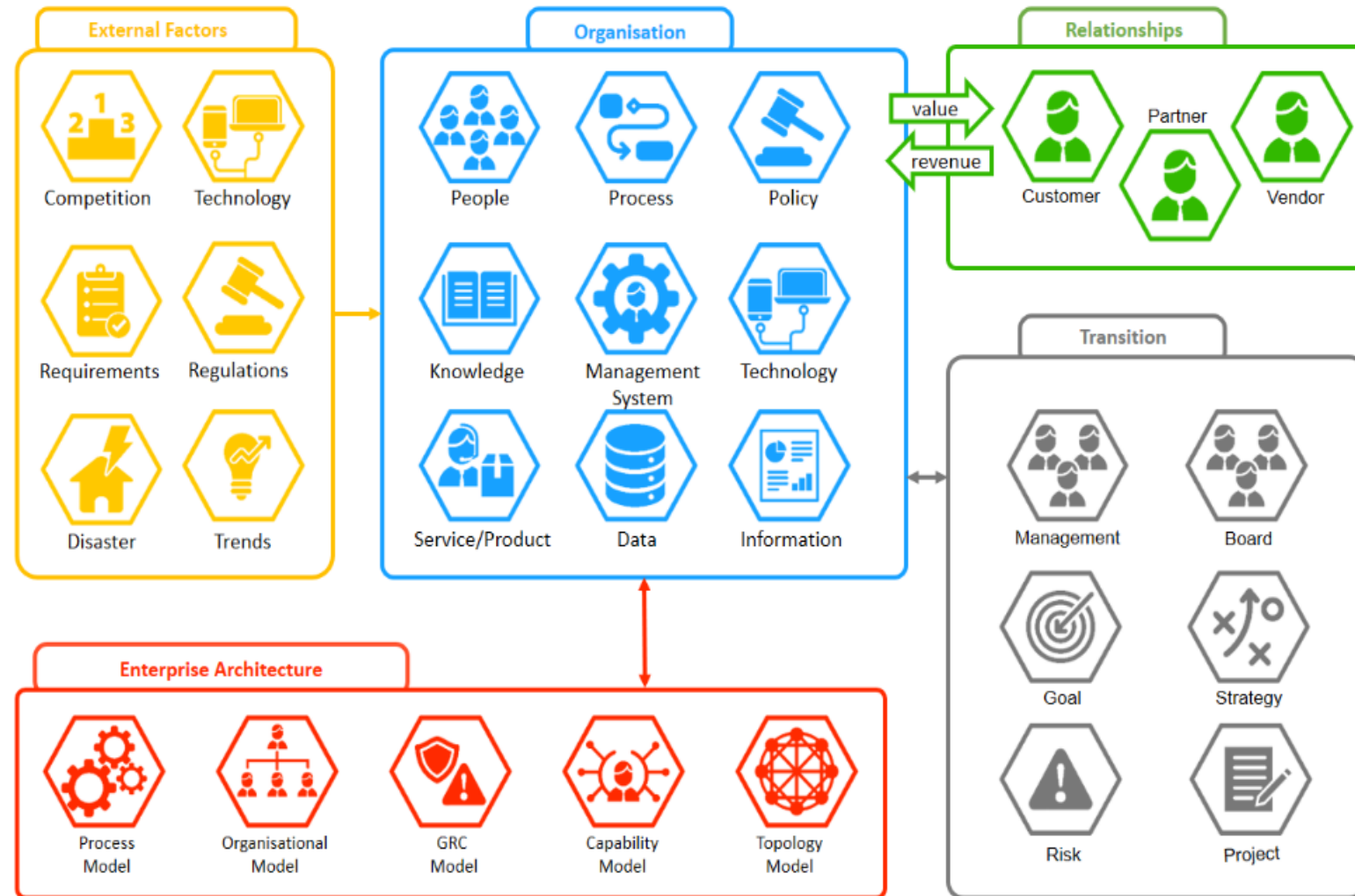
First/Second Name	LinkedIn Profile
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Jürgen Horak	https://www.linkedin.com/in/juergenhorak/
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Fernando Scheps	https://www.linkedin.com/in/fscheps/
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Transformation Eco System – TESy Framework v 1.0

<https://tesy-framework.com/>

Transformation Eco System (TESy)



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