Appendix - MAP 4.0 – Proposal of a prescriptive Maturity Model for assessing the Digitalization of Procurement

 Table 3. Evaluation of existing Maturity Models

Author(s)	Description	Applicabil- ity to pro- curement	Inclusion of all relevant Industry 4.0 technologies	Method		Definition of Target State
Asdecker & Felch (2018)	Three dimensions for assessing the maturity of delivery logistics in the context of Industry 4.0 in five levels.	×	×	\checkmark	\checkmark	\checkmark
Bibby & Dehe (2018)	Maturity levels of defense industry companies in the context of Industry 4.0 with 23 elements from 3 dimensions with 13 subcategories in four levels.	*	✓	×	*	✓
De Carolis et al.(2017)	Maturity model based on 18 elements from 5 company-wide dimensions in the context of Industry 4.0 in five levels.	*	*	*	\checkmark	*
Facchini et al. (2020) Maturity model for logistic companies in the context of Industry 4.0, based on seven logistics-specific dimensions in five levels.	✓	×	✓	✓	*
Ganzarain & Errasti (2016)	Maturity model for SMEs and deriving future needs for action in connection with Industry 4.0 in five levels.	\checkmark	*	*	\checkmark	×
Geissbauer et al. (2016)	Maturity model in the context of Procurement 4.0 based on six dimensions, 20 sub-components and eight additional environmental factors in four levels.	✓	✓	×	✓	*
Gökalp et al. (2017)	Extension of an existing Industry 4.0 maturity model in six levels.	×	×	×	*	\checkmark
Jæger & Halse (2017)	Model for the assessment of Internet of Things (IoT) with six dimensions in eight levels.	×	×	×	×	✓
Jodlbauer & Schager (2016)	rlMaturity levels based on data, intelligence, and digital trans- formation, including definition target states in ten levels.	✓	×	×	×	✓

<u> </u>						
Katsma et al. (2011)	A model that presents the advances of IoT in the field of logistics and utilities in four levels.	*	×	×	✓	✓
Kleemann & Glas (2017)	A model focusing on the degree of digitization of purchasing based on the scale value of a questionnaire with eight dimensions and three maturity criteria, each in five levels.	✓	×	✓	✓	×
Klötzer & Pflaum (2017)	Model for SCM companies based on smart product realization and smart product application in five levels.	×	×	*	\checkmark	✓
Kosmol et al. (2019)	Maturity model in the context of development towards Pro- curement 4.0 based on eight different dimensions in five lev- els.	✓	*	✓	*	*
Leineweber et al. (2018)	A model with any number of characteristics in 3 dimensions and relationships between corresponding characteristics in eight levels.	*	*	*	✓	✓
Leyh et al. (2016)	Model for assessing the IT architecture companies in 4 different dimensions (with seven guidelines) in eight levels.	×	✓	*	\checkmark	✓
Lichtblau et al.(2014	A)A model with a maturity level calculation within six different dimensions based on corresponding criteria matrices in six lev- els.	×	✓	✓	✓	*
Merz (2016)	Positioning of the company based on an alignment of corporate strategy & previous Industry 4.0 experience in a 4-part matrix utilizing 3C –analysis in five levels.	*	*	✓	✓	✓
Pacchini et al. (2019) Maturity levels based on the average assessment of eight dimensions with a focus on innovative technologies in six levels.	×	✓	*	\checkmark	\checkmark
Pellengahr et al. (2016)	A model for evaluating the maturity of procurement departments based on four different dimensions to 40 subcomponents in seven levels.	✓	×	✓	✓	×
Pessl et al. (2017)	A model evaluating the actual and target status in 13 dimensions for assessing one's own HRM's maturity level concerning Industry 4.0 in five levels.	×	×	✓	✓	✓

						3
Pirola et al. (2019)	Model for calculating the maturity level of SME in the context of Industry 4.0 based on an index of any number of elements from five dimensions in five levels.	×	×	✓	✓	✓
Pongsuwan (2016)	Maturity model procurement departments in the context of Industry 4.0 and e-procurement based on six dimensions and 22 subcomponents in four levels.	✓	×	×	*	×
Santos & Martinho (2019)	A model with an assessment of maturity level based on 34 evaluated elements from five different dimensions in six levels.	*	✓	✓	✓	×
Schuh et al. (2017)	Layer model with four dimensions for assessing the current and target states and comparison with competitors in six levels.	×	×	\checkmark	\checkmark	✓
Schumacher et al. (2016)	A model with a maturity level calculation based on weighted average using 62 different maturity items in nine dimensions in five levels.	*	×	✓	✓	×
Sternad et al. (2018)	Model for determining companies' maturity in the context of Logistics 4.0 based on four dimensions and a variable number of sub-components in five levels.	*	*	×	*	✓
Akdil et al. (2018)	A model with 13 different maturity elements from three dimensions (smart products and services, smart business processes, strategy and organization) in four levels.	*	*	✓	✓	✓
Wagire et al. (2020)	Model for the weighted calculation of the maturity level for seven dimensions in the context of Industry 4.0 employing 38 evaluated elements in four levels.	*	✓	✓	✓	✓
Watzlawek (2018)	Maturity model with eight dimensions for procurement departments in the context of Industry 4.0 in four levels.	✓	*	\checkmark	*	×
Weber et al. (2017)	A maturity model for data-driven manufacturing and the IT architecture in the company in the context of Industry 4.0 in six levels.	×	*	×	✓	✓

4						
Werner-Lewandow- ska & Kosacka- Olejnik (2019)	A maturity model for companies or industries based on their system landscape and structural adaptation in logistics as a service in six levels.	×	×	✓	✓	✓
Westermann et al. (2016)	A maturity model for cyber-physical systems in mechanical engineering and individual CPS components in five levels.	×	×	\checkmark	\checkmark	\checkmark

Table 4. Questionnaire 1

Dimension/ Question	0	1	2	3	4	5
	Disagree		Agree			
					0	•
Dimension Networking						
Purchasing has a system						
that seamlessly records						
the internal added value						
using data and enables it						
to be evaluated.						
Purchasing uses digital						
collaboration platforms						
internally and enables the						
mobile, proactive and						
structured exchange of						
knowledge.						
Digital collaboration plat-						
forms are used between						
purchasing and suppliers,						
reducing complexity and						
redundancies.						
Dimension Supplier Relation	onship					
There is a concept for dig-						
ital supplier integration.						
Supplier relationships are						
also differentiated and						
assessed with regard to						
their digital potential.						
When working with sup-						
pliers, there are stand-						
ards for digital forms of						
collaboration.						
Dimension Purchaser						

1	Ì	Ì	Ì	Ì	Ì	Ì
The development of func-						
tion-related digital exper-						
tise is a central part of						
employee development						
in purchasing.						
The purchaser is experi-						
enced in handling his/her						
own digital products and						
use them.						
When recruiting new pur-						
chasers, function-related						
digital skills are an im-						
portant selection crite-						
rion.						
Dimension Organization						
Digitalization in purchas-						
ing has operational man-						
agement (responsibili-						
ties).						
Digitization projects in						
purchasing are processed						
across functions and with						
partners (including con-						
sultants, start-ups, re-						
search).						
Purchasing has sufficient						
resources to be able to						
process digitalization/in-						
novative topics in normal						
business operations.						
Dimension Autonomous P	rocesse	es				
The workflow for regular						
orders is automated						
oracis is datornated		l	l	l	l	l

1 -	I	1	I	I		ı r
within certain specifica-						
tions - without human						
work (approval, control).						
Warehouse range, value,						
required quantity, order						
frequency and other pa-						
rameters are analyzed au-						
tomatically (big data).						
Automated analyzes of						
order data are used to in-						
itiate forecast-based or-						
ders (predictive analyt-						
ics).						
Dimension Product Group	Strate	зу				
Purchasing is proactive in						
searching for suppliers						
and products in the field						
of new, innovative tech-						
nologies to anticipate						
changing requirements.						
There are product groups						
(strategies) for purchas-						
ing digital services (soft-						
ware, licenses, CAD draw-						
ings, documentation,						
rights).						
Purchasing investigates						
the effects of 3D printing						
with regard to the make-						
or-buy question (insourc-						
ing options).						
Dimension (Digititalization	-) Stra	tegies				
There is a digitization						
strategy for your own						

company/organization as a whole.			
There are guidelines and			
priorities regarding what			
contribution digitized			
purchasing 4.0 has to			
make for the com-			
pany/organization.			
Purchasing brings its mar-			
ket and supplier know-			
how to the digitization			
strategy (purchasing in-			
novations and 4.0 tech-			
nologies).			
Dimension Company-IT			
The company's IT is regu-			
larly updated to meet			
new challenges.			
The in-house IT specialists			
advise purchasing on digi-			
talization.			
Data security and IT secu-			
rity, in general, are en-			
sured through risk ana-			
lyzes and measures.			

Table 5. Questionnaire 2

Dimension/ Question				High	est
Billiension, Question		est lev	el of	level of	
	matı			maturity	
	1	2	3	4	5
Dimension People and Culture		1	1	1	
Management supports Digitalization activities.					
The corporate culture of continuous adaptation to Industry 4.0					
The existence of special teams to advance digitization in the company.					
The company's orientation towards adapting and promoting the skills of its employees concerning Industry 4.0.					
Dimension Perception of Industry 4.0					
The familiarity of the term "Industry 4.0" in the company.					
The company's perception of the change brought about by Industry 4.0.					
The company's perception of the advantages of Industry 4.0					
The perception of the company's willingness to implement new technologies.					
Dimension Corporate Strategy					
The company's digital vision and roadmap for Industry 4.0					
The company's ability to integrate the customer's wishes into product development.					

1	ı	I	i	ı	1 '
The company's efforts to promote the					
transformation of Industry 4.0					
through external companies.					
The company's ability to ensure pa-					
per-free data storage.					
The company's investment in Industry					
4.0					
Dimension Value chain and processes				l	l
The degree of digitization from prod-					
uct development to the finished prod-					
uct.					
The ability of the company to display					
the production of the items in real-					
time and to react to changes.					
-					
The level of continuous technological					
support from planning to logistics.					
The technological level of the produc-					
tion equipment.					
The digitization of the value chain					
from the supplier to the end cus-					
tomer.					
Dimension Intelligent Manufacturing T	echno	ologie	S		
The use of advanced autonomous ro-					
bots.					
The use of digital software for collect-					
ing, processing and passing on infor-					
mation.					
The use of technical possibilities for					
the permanent location of compo-					
nents, machines and products.					
The use of intelligent sensors to moni-					
tor the production process.					

The use of communication technologies to pass information between machines.				
The provision of a digital platform for integrating suppliers.				
The provision of a digital platform for integrating customers.				
Dimension Product and Service-oriente	d Tec	hnolo	gies	
The use of technological devices to visualize product-dependent information (VR)				
The use of 3D printing in the company.				
The use of mobile devices to share information.				
The use of "blockchain technologies" in the company.				
The development of intelligent products that can perceive their surroundings using sensors.				
Dimension Basic Industry 4.0 Technolog	gies			
The use of "cloud computing" to share resources and information.				
The use of "cloud computing" to store information and data.				
The use of communication technologies for the wireless exchange of information between people, machines and systems (Internet of Things).				
The use of internet-based technologies for mutual value creation with others (internet of services).				

The company can store, analyze and process large amounts of data in real-time (big data).			
The use of simulation tools to generate potential scenarios.			
The use of technologies based on artificial intelligence (AI).			
The use of various IT security measures to ensure the security of data and information.			

Table 6. Questionnaire 3

Dimension/ Question	0	1	2	3	4	N
	Disagr	Disagree			Agree	
	+				\rightarrow	
	,					
Dimension Employee					<u>'</u>	
The employees in purchasing						
have the knowledge and un-						
derstanding of the basics of						
Procurement 4.0.						
The employees in purchasing						
know and understand the ad-						
vantages of Procurement 4.0						
for your department or your						
company.						
The employees actively sup-						
port the change towards Pro-						
curement 4.0.						
The employees have the nec-						
essary skills in dealing with						
new technologies.						
The employees are exten-						
sively trained in new systems						
and technologies.					1	
The employees are open to						
new technologies.						
The employees have an au-						
tonomous way of working.					<u></u>	
Flexible new work models are						
offered to employees.						
The employees are encour-						
aged to interact in an interdis-						
ciplinary manner.						

Dimension Corporate Strategy	and Cu	ılture		
The company management				
understands and recognizes				
the upcoming change through				
Industry 4.0 (Procurement				
4.0) and acts accordingly.				
The company has a clear digi-				
talization strategy for the				
change towards Industry 4.0				
(Procurement 4.0).				
The procurement department				
has sufficient defined re-				
sources available for the				
change.				
The company communicates				
the advantages of Industry 4.0				
(Procurement 4.0).				
The company continually				
monitors the progress of				
change and informs the or-				
ganization.				
The company adapts its busi-				
ness model to the require-				
ments of Industry 4.0 (Pro-				
curement 4.0).				
The company also involves ex-				
ternal partners in the imple-				
mentation of their change.				
The company involves the en-				
tire organization in the				
change.				
The company promotes open				
innovations.				

Dimension Organization and Pr	ocesse	es		
The regular order initiation is				
automated.				
The conclusion of sales con-				
tracts takes place based on				
automated decision support.				
The conclusion of sales con-				
tracts is done automatically by				
the system.				
The relevant key figures for				
procurement, such as ware-				
house coverage, supplier data				
and order processes are auto-				
matically collected.				
Future requirements are auto-				
matically calculated based on				
past data and other environ-				
mental influences.				
The relevant information from				
the procurement department				
is always available in real-				
time.				
The modeling of potential scenarios is automated based on				
digital data.				
The supplier evaluation takes				
place automatically based on historical data.				
The future value of suppliers				
is forecasted by the system.				
The integration of suppliers				
into existing systems is essen-				
tial for cooperation.				

l	I	Ī	I	I	I I	1 1
The organization of procure-						
ment is becoming increasingly						
decentralized.						
Cooperative collaboration						
both within and between the						
departments is encouraged.						
The implementation of Pro-						
curement 4.0 is accompanied						
and documented by a desig-						
nated person in the procure-						
ment department.						
The implementation of the						
concepts in the context of						
procurement 4.0 takes place						
with the support of external						
partners.						
Dimension IT Structure and Ind	ustry 4	1.0 Tec	hnolog	gies		
Digital security plays a key						
role in corporate IT.						
The networking and transfer						
of information within all de-						
partments are guaranteed						
continuously.						
Special software is available						
for procurement, which is						
geared to the processes of the						
department.						
The risk of system failure is						
low due to security measures.						
The use of mobile devices						
within the company is guaran-						
teed without any problems.						
The IT hardware is perma-						
nently able to operate at the						
highest level.						
	1	l	I	l	l	1 1

The IT staff permanently supports the procurement department in the change towards Procurement 4.0. The internal IT guarantees permanent access to all relevant data in real-time. The systems of procurement and suppliers can communicate with one another without any problems. Data collection and analysis in procurement are automated. The use of "cloud computing" enables the department to share resources and information and store data. Procurement recognizes the potential of Blockchain technology and is ready to use it. The new communication technologies for the wireless exchange of information between people, machines and systems are used (Internet of things). The shared value creation with others is partly based on internet-based technologies (Internet of Services). The company analyzes, stores and processes large amounts of data in real-time (Big Data & Web Analytics).				 	
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of data in real-time (Big Data	The company analyzes, stores				
of data in real-time (Big Data	and processes large amounts				
	of data in real-time (Big Data				
	& Web Analytics).				

The use of simulation tools enables the generation of potential scenarios for decision support.			
The use of technologies based			
on artificial intelligence sup-			
ports procurement in its activ-			
ities (Artificial Intelligence AI).			
Procurement recognizes the			
potential of 3D printing and is			
ready to use it.			

Please mark the actual status Please mark the target status in in blue red

In your opinion, which questionnaire is best suited to capture the relevant factors in the context of Procurement 4.0?