Factors	Elements	Definition/ Example	Maturity Stages Initial ! Rudimentary ! Standalone ! Systematic ! Optimizing				
mining		organization, as well as the long-term strategies and vision	No specific use case has been defined yet	A first use case for process mining exists in the	A vision is written down, supported by	The application of process mining is continuously expanded based on a roadmap with regard to	<u> </u>
	Purpose	A use case contains a process mining technique, a process and an expected benefit				new techniques or processes	
ess ess		Bundles the effort for process mining in the organization, thus accelerating the adoption	process mining	One unit deals with process mining with focus on one specific use case		A (centralized or hybrid) Center of excellence guides role assignment, tasks, and duties for	Process mining is established and anchored it in the organizational structure
Organization enables significant proc	Center of excellence for process mining	- Leadership and managerial support - Technical support and trainings - Methodological support, best practices	اا	•			Time horizons are visionary and future-oriented
	Process centricity	The organizations aspiration is to think and work cross-	No process awareness (functional divisions act and optimize for themselves)	functional process oriented thinking			Continuous optimization of end-to-end processes
	Evidence centricity	Data is generally used to base decisions in the organization		decision support	Data is actively collected, but not actively used to support decisions (i.e. there is no need to view the data)		Data-based standard solutions are established in relevant business areas and account for the main source of information
	Change centricity	Culture and organization is open for change	Corporate culture is rigid		employees, especially in the form of an active	Mistakes are seen as a chance for improvement	Change is considered natural at all levels
	Methods of process mining project phases	Maturity of methods in the organization to structure tasks of process mining project phases - Workshops or structuring templates - Data map	No supporting methods in use				Methods are bundled and further developed in one place
		- Process models like CRISP-DM or PM'2	Data is mainly recorded by hand	The regionity of data is recorded automatically as	Deta is sufamatically recorded by IT-systems	Data is automatically recorded by IT-systems	In addition, data protection, security, and
on ufficient	Process-oriented IT-systems	Describes the maturity of used IT-systems regarding completeness and reliability for event logs		1 -	Data is automatically recorded by II-systems and the data in the system is reliable, but there is Ino claim to completeness	: · · · · · · · · · · · · · · · · · · ·	In addition, data protection, security, and security and
ation es suff		T	1	First business units develop a strategy to increase accessibility			Data is directly accessible at any time according to the analysis questions without additional IT
founda enables ess mini	Data accessibility	- Reduction of datasilos - Uniform and optimal format - Reduction of access time			Data is only extracted on demand, but in a fixed procedure		leffort I
ta l		Data is annotated , transformed and enriched with further	<u>-</u>	Limited data scope, with manual extensions and	Functional data scope, with first automated	Advanced data scope, through corporate	Data is automatically extended by its context
Da Environm P	Scope of the data	information according to its process-specific context - Meta data - Additional attributes like resource, order size, type of product etc.		itesting I I I I I I I I I I	contextualization for specific application scenarios	istandards for contextualization I I I I I I I I I I I I	i ! ! ! !
F		- Completeness of contextualization The ability to use suitable tools independently at the right	No knowledge exists in handling process mining	Relevant business units have unpracticed	Operational, autonomous knowledge of	Relevant business areas have routinized	A knowledge management , carried out by a
	Handling process mining tools	time - Knowledge of functional scope - Knowledge about tool limitations		knowledge about process mining tools	process mining tools available in relevant	knowledge in the use of tools and can solve complex tasks autonomously	separate unit, is implemented to facilitate knowledge externalization and networking across business areas
		General knowledge of IT topics		Relevant business units have theoretical knowledge of technical basics			A knowledge management, carried out by a separate unit, is implemented to facilitate
ping	Technical basics	- Integration and dashboarding - Database queries - Operational support Data can be processed to increase its information content			areas	solve complex tasks autonomously	knowledge externalization and networking lacross business areas I A knowledge management, carried out by a
ge s mir	Data preparation	- Preprocessing pipeline			pre-processing available in relevant business	knowledge of data preprocessing and can solve	A knowledge management, carried out by a separate unit, is implemented to facilitate knowledge externalization and networking
owled	Data preparation	- Filters for data - Detect human errors and incompleteness	No knowledge exists of classic data mining	Relevant business units have theoretical	Operational, autonomous knowledge of classic		A knowledge management, carried out by a
ple's kn	Classic data mining	- Clustering - Dimension reduction - Feature selection - Machine learning			data mining available in relevant business areas	knowledge of classical data mining and can solve complex tasks autonomously	•
Peo ple un		techniques, process representations (Petri nets, DFG,			process mining basics available in relevant	knowledge of process mining basics and can	A knowledge management, carried out by a separate unit, is implemented to facilitate
Peop	Process mining basics	BPMN, etc.), algorithms - Advantages and disadvantages are known			business areas		knowledge externalization and networking across business areas
		- Tailoring to use case Process mining for use cases beyond the main techniques			, '		IA knowledge management, carried out by a
	Advanced application	(discovery, conformance, enhancement) - Control flow, organization, case, time perspective - Process flows - Predictive process mining		knowledge on advanced applications I I I I I I I I I I I I I I I I I I I	· ·	solve complex tasks autonomously	separate unit, is implemented to facilitate knowledge externalization and networking lacross business areas
		Process discovery describes how to create process models from event logs		1	Process discovery is used in selected use cases Thy the organization itself	· ·	The use of process discovery is continuously loptimized and expanded
nining s <i>mining</i>	Discovery	from event logs - Create actual process models - Incorporate knowledge from domain experts - Enrich process model with additional data		CONCEPTS OF NOT BY THE OFGAINZACION (136) 	Iby the organization itself I I I I I I I I I I I I I I I I I I I	Ibusiness processes I I I I I I	loptimized and expanded
SS r		Analysis describes the data-based analysis of processes	1	Process analysis is used for simple proof of	Process analysis is used in selected use cases	Process analysis is used for all relevant	The use of process analysis is continuously
Scope of the proces activity Holistic application of proc	Analysis	with regard to dimensions such as time, quality, complexity or costs - Quantitative analysis (flow analysis, cycle time)	1		<u> </u>	•	optimized and expanded
		- Conformance checking		 	 	 	
	Monitoring and controlling		G G	organization itself	Process monitoring and controlling are used in selected use cases by the organization itself		continuously optimized and expanded
	Operating advanced use cases	Process mining is used specifically for advanced application scenarios such as prediction or automated execution of actions		Advanced applications are applied to simple proof of concepts or not by the organization itself		•	The use of advanced applications is continuously optimized and expanded
lication		The maturity of guidelines that define who can and must use which tools/methods		Documented method/tool guidelines, but not	Documented method/tool guidelines are visible at a central location for all stakeholders and are	·:	Governance matters are bundled and further
	Method / tool governance	- Which tools/methods - Which tool for which use case - Which method in which phase of the BPM lifecycle				guidelines are visible for all stakeholders at a Icentral location I I I I I I I I I	developed at one entity within the organization I I I I I I I
арк		The maturity of policies that define accountability and role		Documented responsibility guidelines, but not	, , , ,		Governance matters are bundled and further
Governance uidelines for process mining	Roles and responsibilities	- For employees, but also for other actors (crowdworkers, robots, smart devices, software)			lat a central location for all stakeholders and are consistently enforced	Iguidelines are visible for all stakeholders at a central location	Ideveloped at one entity within the organization I I I I I I I
		·			·	· ·	Governance matters are bundled and further
	Process governance	decisions - Who gets to modify processes and when?		1		Iguidelines are visible for all stakeholders at a central location	developed at one entity within the organization
		Who defines and measures process performance?Who documents and actualizes processes?			The state of the s	i i	Governance matters are bundled and further developed at one entity within the organization
	Data governance	- Who is allowed to view process data and when?		Consistently emorced 	consistently enforced	location	I
) J		- Who may grant access to data and when?					