HIFIS Service Survey 2nd Roun	d																								
Date 22.04.2020	<u>u</u>		Red: cancelt wi	llinanocci	n he cen	vice pro	vider										Deleted	"double	" Ves ve	toc					
Date 22.04.2020			Green: approve					r				+		1			Deleten	aouble	. ies VC			+	-		
	+		Blue: communic						in 2nd	Convice S	uruau De	und					Infrastru	cturo c	orvicos		-	-	-		
			Biue. communic	catea the	Willingth	ess to be	Service	provider	III ZIIU 3	l	urvey Ko	Junu					Commu			vicos					
																	Collabor			vices				_	
																	Other Se		ervices						
																	Other 36	I VICES							
Service Group			Provider View																						
	Service	In a second	Interest																				In c	La	ula .
Service Type	Service	Detailed description	interest		Head	Т	т —				Г	1		1	ı	Т	т т	_	Geo		Ι	Т			Comments
				HZDR	Office	UFZ	GFZ	HZI	KIT	DESY	HZB	GSI	FZJ	HMGU	MDC	DLR	DKFZ	HZG	mar	AWI	DZNE	CIEDA	"Yes" votes	ated Yes	
				HZDK	Office	UFZ	GFZ	ПДІ	KII	DEST	ПДВ	GSI	FZJ	HIVIGU	IVIDC	DLK	DKFZ	пи	IIIdI	AVVI	DZINE	CISPA	votes	Yes	
Infrastructure Services			indifferent															_						_	
On demand storage	Character (UDE)							Yes			Yes								Yes	Yes			4		HZB: what's about additional "HPC, collaboration ar
	Storage (HDF)		indifferent'	Yes										Yes	Yes	Yes		Yes					5		Matter"?
	Storage (HDF)	Storage for HPC, Collaboration	FZJ																				<b>†</b>		FZJ: Storage funded through HDF, mainly for specifi
	,	and Biology																					Ι,	۱.	use cases (HDC earth system research neurosciens
					1		1		l			1	Yes				Yes				1	1	l 2	l 1	and biology) but partly available for collaborations
																									well
	Storage (HDF)		DESY							Yes													١.,	1 10	
				$\perp$		L	L_		L	162					L		L ∣				<u> </u>		L '	∟ "	<u>" </u>
	Storage (HDF)		KIT																						
							1														1		1	I	KIT: UseCase driven (by HDF) for elementary particle
		Storage for HPC, general																						l	physics, Energy and environmental science (therefo
		Collaboration and Energy			1		1		l			1									1	1	l	I	no "free" resources for other users in Helmholtz)
					1		1		l			1									1	1	l	!	9 => SCC-department SDM as Service Provider
																								l	=> Provision via usage procedure: Storage request t
																								l	LSDF (see
																								l	https://www.scc.kit.edu/dienste/11228.php)
																									=> AAI linkage via Unity and DFN AAI already possible
	Communitystorage		indifferent'	Yes										Yes									2		
	Communitystorage (Matter)		DESY																				0	<u> </u>	6 DESY: difference to "Storage HDF" is unclear
	Communitystorage (Matter)		GSI																				0	<u> </u>	6
	Communitystorage (Health)		DKFZ														Yes						1		7
	Communitystorage (Earth &		AWI			Yes	Yes											Yes					3	Ι,	9
	Environment)					103	103								-								<u> </u>	<u> </u>	1
	SpectrumProtect HSM	Hierarchical Storage																					0	<u>'</u>	4
	Distributed Object Storage	E.g. for Radiology Services	DKFZ + HZDR	Yes																			1		5
Large Data Transfer Service			indifferent	Yes														Yes	Yes				3		
	Globus Toolkit	Discontinued, consider	HMGU								Yes										Yes	Yes	3		6
	UFTP (UNICORE FTP)	licensing issues Moving lots of data	FZJ				_		_				Yes	Yes		Yes	-				Yes		<b>—</b>	┝	-
	Aspera (Genomic)	Moving lots of (genomic) data	72)				_		_				res	res		res					_			1	7
On demand and the first of	Aspera (Genomic)	ivioving lots of (genomic) data					1								Yes	1	Yes			Yes	Yes		4	_	7
On demand compute (offering CPU and GPU ressources)			indifferent					Yes			Yes			Yes			l	Yes		Yes		Yes	6		
CPO and GPO ressources)	OpenStack		indifferent'	Yes			Yes									Yes	Yes						4		
	OpenStack	-	FZJ	+	-	Yes	+	$\vdash$	<b>—</b>	Yes		-		-		-	$\vdash$				-	-	<sup>2</sup>	12	KIT: laaS on Openstack; ressource usage for bwClou
	OpenStack		KIT				1														1		1	I	realized
		VM provisioning for non-IT								Yes													1	1:	=> already planned for HGF centers too
		users implicated			1		1		l			1									1	1	l	I	=> AAI linkage via DFN AAI already possible
	OpenStack		DESY							Yes													1	1:	
	OpenStack		DKFZ							Yes													1	1:	1 DKFZ: HDF-AAI
	ESX/ESXi	Mostly for provisioning IT-VMs	AWI																				_		6
																							۲	<u>'</u>	9
	Docker		indifferent'	Yes			Yes								Yes	Yes	Yes						5		
	Docker	Packaging of software	KIT			Yes	1		Yes												1		,	1 4	KIT: interested in a container repository (eventually
	2		DECV.	+			-	$\vdash$		L.		-	-			-	$\vdash$				-	-	<b>├</b>		centralized)
	Docker		DESY	+			-			Yes		<u> </u>					$\vdash$					-	1	12	2
	Singularity		FZJ																						AWI: may be?
				Yes	1	Yes	1		l										Yes		1	1			FZJ: On HPC systems, resources are avilable through
				163		163													163				ľ		scientifc perre review process
					1		1		l												1	1	l		DZNE: The DZNE may offer this service in 1-2 years
	Singularity		FZJ													1	Yes						1	10	
	Singularity		KIT																					<u> </u>	
	,																							I	KIT: bwUniCluster (UC2): Singularity (among others)
					1		1		l			1									1	1			installed here) => for UseCases, e.g. HAICU
																							١ ،	Ί ΄	=> Provision via usage procedure (decision: local Pl
																							l	I	(examples: Dresden; Entitlements)
																								ı	=> AAI linkage: e.g. via DFN AAI

	Kubernetes Cluster	Management of many	DESY	$\overline{}$					1					-									Т		AWI: Around end of 2020, AWI could offer services as
	Rubernetes Cluster	containers	DEST	Yes			Yes		Yes						Yes	Yes		Yes					6	12	well
	Rancher	Provisioning of docker	FZJ																				П		
		infrastructures, meta management of container		Yes		1 '	Yes	1				Yes			Yes								4	10	AWI: Around end of 2020, AWI could offer services as
		managers				'		1															- 1		well
	GPU compute Service		indifferent'	Yes			Yes								Yes	Yes							4		DZNE: The DZNE may offer this service in 1-2 years
	GPU compute Service	General compting resources	FZJ																				П		FZJ: GPU cluster is funded through HDF, mainly for
						Yes		1	Yes			Yes		Yes									4	14	specific use cases (HPC, earth system research, neuroscience and biology) but partly available for
						'		1															- 1		HIFIS as well
	GPU compute Service		HZDR						Yes														1	11	
	GPU compute Service		DESY					-	Yes														1	11	
	GPU Community Service		indifferent'	Yes				$\longrightarrow$														_	1		
	HICORE (HAICU, HIP)		KIT, FZJ	1	<u> </u>			1																	FZJ: Resource allocation will be done by HAICU
					1 1	'		1															- 1		KIT: Hardware resources for KI community e.g. HAICU
				1	<u> </u>		Yes	1							Yes								2	9	(UseCases)
					1 1	'		1															- 1		=> Provision via access procedure => AAI linkage: will be provided via Unity and DFN AAI
					1 1	'		1															- 1		(HIP does not fit in here)
	GPU compute Community	Community computing	GSI																			1	_	7	
	Service (nuclear physics)		DVEZ	<del></del>	<del>                                     </del>	$\vdash$		$\vdash$	-	_	$\vdash$		-+	-+	-+	-+					$\vdash$	+	-		
	GPU compute Community Service (Health)		DKFZ		<u> </u>	1										Yes						1	1	8	
	GPU compute Community		KIT												Voc	$\neg \uparrow$						1	_		KIT: see above > "OpenStack"(part for HIFIS just as for
	Service (Energy & Information)			$\perp$	ш			$\vdash$							Yes							_	1	- 8	"bwCloud"), also in UC2 (see above)
Analytic machines			indifferent	4	$\sqcup$	$\vdash$		$\vdash$		L							Yes					1	1		
	HeAT Library Server HeAT Library Server		indifferent'	Yes	$\vdash \vdash$	$\vdash$	Yes	$\overline{}$		Yes	$\vdash$		+	+	Yes	-+						$\vdash$	4		
	near cibrary server	OpenStack/Storage/HAF	F2)					1				Yes											1	6	FZJ: Library available on HPC, GPU and OpenStack
		Helmholtz Analytics																					_		clusters; an analytics service needs to be developed
	HeAT Library Server	Framework, Helmholtz Analytics Toolkit	DESY		1 1	'		1	Yes															_	KIT: this is probably about the OpenStack component
		Analytics Foolkit			1 1	'		1	Yes														1	6	Heat? (see: https://wiki.openstack.org/wiki/Heat)
	Communityservice	HEAT Github	GSI	<del>                                     </del>					1													1	$\dashv$		GSI: Wrong Institute entered? KIT or FZI maybe?
						'		1															0	1	> Comment LS: No, GSI was named here in the first
	AWI Marketplace		AWI	7/56	$\longrightarrow$	V		$\vdash$	-	-			-	-		_						₩	_		round of the service survey
	Binder Repositories	Collections of Jupter NBs	AVVI	YES	$\vdash$	Yes	Yes	$\vdash$	1	Yes												₩	3	4	
Helmholtz hosted Webserver	billiaer Repositories	Webserver hosting; off-		163	$\vdash$	$\vdash$	163			Tes				_								+	-1		
		premise, with trusted hosting		Yes		Yes		Yes		Yes			Yes	Yes	Yes						Yes		8	8	
Virtual Desktop Infrastructure			indifferent		$\longmapsto$				<u> </u>	Yes				-			_					┿	-		
virtual Desktop Illiastructure	Virtual Desktop Service		indifferent'		$\longrightarrow$	$\vdash$		-	1	res			-	-	-	_						+			
	Virtual Desktop Service	RDP etc. over Webbrowsers	UFZ	1	$\vdash$	$\vdash$			1							-						$\vdash$	Ť		UFZ: problem with Microsoft licensing - UFZ as service
						1		i l															0	1	provider with reservation
	Virtual Desktop Service	Basis Apache guacamole																				_	_		
Database as a Service			FZJ									Yes											1	2	
			indifferent				YES			Yes		Yes											1	2	
	MySQL and Postgres						YES			Yes		Yes	Yes			Yes							2 2	4	
Community/ Science Services	MySQL and Postgres		indifferent				YES					Yes	Yes			Yes							1 2 2	4	
			indifferent indifferent							Yes		Yes				Yes			Yes				1 2 2	4	
Community/ Science Services	GitHub		indifferent indifferent Microsoft	Yes			YES					Yes	Yes			Yes		Yes	Yes				1 2 2 2	4	HMGU: Include hosting for runners, with ontental for
Community/ Science Services			indifferent indifferent	Yes								Yes		<u> </u>		Yes		Yes	Yes				2 2 4	4	HMGU: Include hosting for runners, with potential for self-hosting. Needs to be visible to public (not only
Community/ Science Services	GitHub		indifferent indifferent Microsoft				Yes					Yes	Yes	Vos	Vac		Vos		Yes	Voc			2 2 4	4	self-hosting. Needs to be visible to public (not only VPN etc)
Community/ Science Services	GitHub		indifferent indifferent Microsoft	Yes								Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			1 2 2 2 4	4	self-hosting. Needs to be visible to public (not only VPN etc) DZNE: The DZNE runs a GitLab instance and may offer
Community/ Science Services	GitHub		indifferent indifferent Microsoft				Yes					Yes	Yes	Yes	Yes		Yes		Yes	Yes			2 2 4	4	self-hosting. Needs to be visible to public (not only VPN etc) DZNE: The DZNE runs a GitLab instance and may offer this service later to other HGF users.
Community/ Science Services	GitHub		indifferent indifferent Microsoft			Yes	Yes		Yes			Yes	Yes	Yes	Yes		Yes		Yes	Yes			1 2 2 4	4 6	self-hosting. Needs to be visible to public (not only VPN etc) DZNE: The DZNE runs a GitLab instance and may offer
Community/ Science Services	GitHub GitLab, GitLab-CI GitLab, GitLab-CI GitLab, GitLab-CI GitLab, GitLab-CI	Software-code online,	indifferent indifferent Microsoft indifferent'			Yes	Yes		Yes			Yes	Yes	Yes	Yes		Yes		Yes	Yes			1 2 2 2 2 4 4 9 9 2 1 1		self-hosting. Needs to be visible to public (not only VPN etc) DZNE: The DZNE runs a GitLab instance and may offer this service later to other HGF users.
Community/ Science Services	GitHub GitLab, GitLab-CI GitLab, GitLab-CI GitLab, GitLab-CI GitLab, GitLab-CI GitLab, GitLab-CI	collaborative coding,	indifferent indifferent Microsoft indifferent'  HZDR KIT FZJ			Yes	Yes		Yes Yes			Yes	Yes	Yes	Yes		Yes		Yes	Yes			1 2 2 2 4 4 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 12	self-hosting. Needs to be visible to public (not only VPN etc).  DZNE: The DZNE runs a GitLab instance and may offer this service later to other HGF users.  HZG: https://docs.gitlab.com/ee/ci/runners/  KIT: SCC department as service provider
Community/ Science Services	Gittab, Gittab-CI Gittab, Gittab-CI Gittab, Gittab-CI Gittab, Gittab-CI Gittab, Gittab-CI	collaborative coding, Versioning, commenting	indifferent indifferent Microsoft indifferent' HZDR KIT FZI GEOMAR			Yes	Yes		Yes			Yes	Yes	Yes	Yes		Yes		Yes	Yes			1 2 2 2 4 4 9 9 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12	self-hosting. Needs to be visible to public (not only VPN etc) DZNE: The DZNE runs a GitLab instance and may offer this service later to other HGF users. HZG: https://docs.gitlab.com/ee/ci/runners/ KIT: SCC department as service provider
Community/ Science Services	GitHub GitLab, GitLab-CI GitLab, GitLab-CI GitLab, GitLab-CI GitLab, GitLab-CI GitLab, GitLab-CI	collaborative coding, Versioning, commenting Commercial product, widely	indifferent indifferent Microsoft indifferent'  HZDR KIT FZJ	Yes			Yes		Yes Yes			Yes	Yes	Yes			Yes		Yes	Yes			1 2 2 2 4 4 9 9 2 1 1 1 1 5	12 12 12	self-hosting. Needs to be visible to public (not only VPN etc) DZNE: The DZNE runs a GitLab instance and may offer this service later to other HGF users. HZG: https://docs.gitlab.com/ee/ci/runners/ KIT: SCC department as service provider  HMGU: Confluence yes, Jira no. Integration with Gitlab
Community/ Science Services	Gittab, Gittab-CI Gittab, Gittab-CI Gittab, Gittab-CI Gittab, Gittab-CI Gittab, Gittab-CI	collaborative coding, Versioning, commenting	indifferent indifferent Microsoft indifferent' HZDR KIT FZI GEOMAR			Yes	Yes		Yes Yes			Yes	Yes	Yes	Yes		Yes		Yes	Yes			1 2 2 2 4 9 9 2 1 1 1 1	12 12 12	self-hosting. Needs to be visible to public (not only VPN etc) DZNE: The DZNE runs a GitLab instance and may offer this service later to other HGF users. HZG: https://docs.gitlab.com/ee/ci/runners/ KIT: SCC department as service provider
Community/ Science Services	Gittab, Gittab-CI Gittab, Gittab-CI Gittab, Gittab-CI Gittab, Gittab-CI Gittab, Gittab-CI	collaborative coding, Versioning, commenting  Commercial product, widely used (SWDev, Documents, Knowledge-base, Ticketing,)  Application Catalogue,	indifferent indifferent Microsoft indifferent' HZDR KIT FZI GEOMAR	Yes			Yes		Yes Yes			Yes	Yes	Yes			Yes		Yes	Yes			1 2 2 2 4 4 9 9 2 1 1 1 1 5 5 5 5	12 12 12	self-hosting. Needs to be visible to public (not only VPN etc) DZNE: The DZNE runs a GitLab instance and may offer this service later to other HGF users. HZG: https://docs.gitlab.com/ee/ci/runners/  KIT: SCC department as service provider  HMGU: Confluence yes, Jira no. Integration with Gitlab by default UFZ as USER: Yes
Community/ Science Services Software Development Services	Gittab, Gittab-CI Gittab, Gittab-CI Gittab, Gittab-CI Gittab, Gittab-CI Gittab, Gittab-CI	collaborative coding, Versioning, commenting  Commercial product, widely used (SWDev, Documents, Knowledge-base, Ticketing,)	indifferent  indifferent  Microsoft indifferent'  HZDR  KIT  FZJ  GEOMAR  Atlassian	Yes		Yes	Yes		Yes Yes	Yes		Yes	Yes		Yes					Yes			1 2 2 2 4 9 9 2 1 1 1 1 5 5	12 12 12	self-hosting. Needs to be visible to public (not only VPN etc) DZNE: The DZNE runs a GitLab instance and may offer this service later to other HGF users. HZG: https://docs.gitlab.com/ee/ci/runners/ KIT: SCC department as service provider  HIMGU: Confluence yes, Jira no. Integration with Gitlab by default UFZ as USER: Yes  DLR: work out in HIFIS Software services, then operate
Community/ Science Services Software Development Services	Gittab, Gittab-CI Gittab, Gittab-CI Gittab, Gittab-CI Gittab, Gittab-CI Gittab, Gittab-CI	collaborative coding, Versioning, commenting  Commercial product, widely used (SWDev, Documents, Knowledge-base, Ticketing,)  Application Catalogue,	indifferent  indifferent  Microsoft indifferent'  HZDR  KIT  FZJ  GEOMAR  Atlassian	Yes			Yes		Yes Yes	Yes		Yes	Yes	Yes						Yes	Yes		1 2 2 2 4 9 9 2 1 1 1 5 5 5 4	12 12 12	self-hosting. Needs to be visible to public (not only VPN etc) DZNE: The DZNE runs a GitLab instance and may offer this service later to other HGF users. HZG: https://docs.gitlab.com/ee/ci/runners/  KIT: SCC department as service provider  HMGU: Confluence yes, Jira no. Integration with Gitlab by default UFZ as USER: Yes
Community/ Science Services Software Development Services	Gittab, Gittab-CI Gittab, Gittab-CI Gittab, Gittab-CI Gittab, Gittab-CI Gittab, Gittab-CI	collaborative coding, Versioning, commenting  Commercial product, widely used (SWDev, Documents, Knowledge-base, Ticketing,)  Application Catalogue,	indifferent  indifferent  Microsoft indifferent'  HZDR  KIT  FZJ  GEOMAR  Atlassian	Yes		Yes	Yes		Yes Yes	Yes		Yes	Yes		Yes					Yes	Yes		1 2 2 2 4 9 9 2 1 1 1 5 5 4 4	12 12 12	self-hosting. Needs to be visible to public (not only VPN etc).  DZNE: The DZNE runs a GitLab instance and may offer this service later to other HGF users.  HZG: https://docs.gitlab.com/ee/ci/runners/  KIT: SCC department as service provider  HMGU: Confluence yes, Jira no. Integration with Gitlab by default  UFZ as USER: Yes  DLR: work out in HIFIS Software services, then operate via HIFIS Cloud  UFZ as USER: Yes
Community/ Science Services Software Development Services  Software Catalog System	Gittab, Gittab-CI Gittab, Gittab-CI Gittab, Gittab-CI Gittab, Gittab-CI Gittab, Gittab-CI Gittab, Gittab-CI Jira+ Confluence	collaborative coding, Versioning, commenting  Commercial product, widely used (SWDev, Documents, Knowledge-base, Ticketing,)  Application Catalogue,	indifferent  indifferent  Microsoft indifferent'  HZDR  KIT  FZJ  GEOMAR  Atlassian	Yes		Yes	Yes		Yes Yes	Yes		Yes	Yes		Yes					Yes	Yes		1 2 2 2 4 9 9 2 1 1 1 1 5 5 5 4 1 1	12 12 12	self-hosting. Needs to be visible to public (not only VPN etc) DZNE: The DZNE runs a GitLab instance and may offer this service later to other HGF users. HZG: https://docs.gitlab.com/ee/ci/runners/ KIT: SCC department as service provider  HMIGUT: Confluence yes, Jira no. Integration with Gitlab by default UFZ as USER: Yes DLR: work out in HIFIS Software services, then operate via HIFIS Cloud

Stack Overflow Team (local)   NIZBR	repository (incl. Wiki/Chat)	Helmholtz Contact Exchange	Who for what knowledgebase	1		1				_	1	1												Г	
Marting   Mart	,,	Tremmore contact exchange	Wild for what knowledgebase																				0	1	4 AWI: may be?
Marine   M		Stack Overflow Team (local)		HZDR																			0		4 AWI: may be?
Marine   M	Sensor Management Service			indifferent			Yes				İ				i								1		UFZ as USER: Yes
Second		Ocean and climate Sensor	Management of Sensors,	AWI																					
State   Management   Manageme		Management	possibily globally distributed					Yes										Yes					2		3
State   Management   Manageme				CF7	_	-				+	+				-									├—	GEZ: cannot ofter services in the same way as cloud
Service files Serviced  File of Protein Serv		Geo Sensor Management		GFZ																					
Section   Control   Cont								Yes															1	1	it makes sense - primarily for the research field Earth &
Process   Proc																									environment
Professional Content of the Conten	Sample Management			indifferent																Yes			1		
Amount		IGSN Service (Geo Science)	International GeoSample No.	GFZ																					
Company   Comp							Voc	Voc										Voc					2	1	
Marine   M							163	163										163					3	1	
Column   C																									UFZ as USER: Yes
Comparison of		ISPYB (Photon Science)		ESRF	Yes						Yes												2		3
March   Marc		Cell samples (Biology)																			Yes		1		2
Month   Property   P	Electronic Laboratory Journal			indifferent			Voc				Voc					Vac		Voc		Voc	Voc		6		
Machina   Mach	(LIMS)						163				163					163		163		163	163		·		UFZ as USER: Yes
Media:   M		OpenBIS			_																		1	<u> </u>	7
Marie   Mari		mediawiki			Yes						-												1	-	GET: cannot offer services in the same way as cloud
Application of the record from the control of the record from the record fro		Medusa		GFZ																					
Mail Notified   Mail Notifie								Yes															1	1	
Mart HANGU System																									environment
Application   Confidence   Co				<del>FZJ</del>																			0		HZB: ?
Columning Service   Colu			Invitation of tenders	HMGU																			0		6
DOI Minding Service   DOI   Doi Website   DOI Website   DOI   DOI Website   DOI We					Yes				Yes						Yes								4	1	DZNE: DZNE is running a LabFolder instance
Service to aquire DOI   DOI Website   GIZ   Yes   Ye		Confluence		DESY				Yes						Yes									2		8
Studio, R-Shiny, R-Project   Shiny, R-Project   S	DOI Minting Service			indifferent																					
Service to aquire DOI   DOI Website   Gr2   Ves   Ve											Yes							Yes		Yes	Yes		4	·	
R Studio, R-Shiny, R-Project    R-Studio, R-Shiny, R-Project   Indifferent   Ves   V		service to aquire DOI	DOI Website	GF7							1														GFZ: cannot offer services in the same way as cloud
R-Studio, R-Shiny, R-Project R-Studio, R-Shin		1	<del>DOT WEBSILE</del>																						
R-Studio, R-Shimy, R-Project    R-Studio, R-Shimy, R-Project   Indifferent   Ves   V							Yes	Yes														Yes	3		
R-Studio, R-Shiny, R-Project																									
R-Studio, R-Shiny, R-Project	R-Studio R-Shiny R-Project			indifferent		_				+	+														OTE US OSERI TES
R.Studio, R.Shiny, R.Project   Midth software   Mids   M	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						Yes																1		
R. Studio, R. Shiny, R. Project																									UFZ as USER: Yes
R-Studio, R-Shiny, R-Project   00f2					Yes			Yes							Yes	Yes	Yes	Yes					6		
R-Studio, R-Shimy, R-Project   R-Studio, R-Shimy, R-Project   AWI   R-Studio, R-Shimy, R-Project   R-Studio, R-Shimy, R-Project   AWI   R-Studio, R-Shimy, R-Project   R-Studio, R-Shimy, R-Project   R-Studio, R-S			Math software																				0	<u> </u>	7
R.Studio, R.Shiny, R.Project   AWI											-												0	₩—	7
Apache Spark Cluster    Data Analytics Services   Indifferent   Ves   Ve					_	-				+	+				-								- 0	<b>├</b>	ANA/II Ahara wala ANA/I Marakashi ana
JupyterHub Service    JupyterHub Service   JupyterHub Service   JupyterHub Service   Frontend interface for JupyterHub Service   JupyterHub Notebooks on HPC   State    Annaha Carda Chatan			AWI	-	-				+	+	1											0	<del> </del>	AWI: tilrough AWI Marketplace	
JupyterHub Service   Indifferent'   Yes		Data Analytics Services				-		Yes		+	<b>+</b>	1											1	_	1
Yes Yes Yes Yes Yes Yes Standard works on network segmentation to delimit user and groups)  Milton Kilt announcement in first service survey round  JupyterHub Service programming, 'code in Documents' and applications JupyterHub Service  JupyterHub Service Documents' and applications Documents' and applications PCSY Standard Personal PCSY Standard PCS Sta	Jupyternub Service	lunutarii uh Sansica				_	Yes			_	Yes	-						Yes	Yes		res	Yes	ь	-	AWI: can be provided through AWI Marketplace in
JupyterHub Service Frontend interface for JupyterHub Service programming, "Code in JupyterHub Service DupyterHub Service JupyterHub Service FZJ SupyterHub Service Su		Jupyter Hub Service		mumerent																					
SupyterHub Service					Yes			Yes						Yes		Yes	Yes						5		
JupyterHub Service																									
JupyterHub Service   Documents' and applications   Documents' an		lunytorHub Consiss	Frontand interfere for	HZDD		1					+	1		-			$\vdash$							-	
JupyterHub Service JupyterHub Notebooks on HPC  JupyterHub Notebooks on HPC  JupyterHub Notebooks on HPC  Service  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Y						-					-												1		
JupyterHub Service  JupyterHub Service  JupyterHub Service  JupyterHub Notebooks on HPC  JupyterHub Notebooks on HPC  JupyterHub Notebooks on HPC  JupyterHub Notebooks on HPC  KIT  KIT  JupyterHub Notebooks on HPC  KIT  KIT  KIT  KIT  KIT  KIT  KIT  KI						<del> </del>					+	1											1		
JupyterHub Service    JupyterHub Notebooks on HPC   Indifferent'   Yes											+	+		<del>                                     </del>			1						1		
JupyterHub Notebooks on HPC indifferent' Yes				F71		1				163	1	1											- 1	┼	-
JupyterHub Notebooks on HPC  FZJ  Yes  Yes  Yes  Yes  Yes  3  12  FZJ: not only on HPC, but on Cloud resources as well  KIT: works with bwUniCluster (UC2), linkage will be in operation by the end of march (see above >  9  "Singularity", HAICU => AAI linkage: see above  >A All linkage: see above		,																					0	1	FZJ: offers JupyterHub on non-HPC (Cloud) resources
Yes Yes Tes Tes Tes Tes Tes Tes Tes Tes Tes T				indifferent'				Yes		Yes				Yes									3		
FZ:: not only not resource as we will be in operation by the end of march (see above >   Unique to the property of the prope		JupyterHub Notebooks on HPC		FZJ									Yes				Yes			Yes			3	1	2
operation by the end of march (see above >  of significant to the set of the		Landard Matrice 1		WIT	-	-					+	1	1.03	-			1.00						,	<b>⊢</b> -	FZJ: not only on HPC, but on Cloud resources as well
O 9 "Singularity", HAICU => AAI linkage: see above		JupyterHub Notebooks on HPC		KH																				l	
				I							1	1											0	1	9 "Singularity", HAICU
JupyterLab         Devel. Envir, for Jupyter NB         Yes         Yes         Yes         Yes         5         11											1														
		JupyterLab	Devel. Envir. for Jupyter NB		Yes	1	1	Yes			1	1	1	Yes			Yes			Yes			5	1	1

Central Geodata platform			GFZ																					GFZ: GFZ could serve specific map and geo data
																								services (to be clarified)
																								> this service is about to be set up. It is set up primarily
																								for GFZ users but will probably become an application
																								for centers working in the research field Earth &
							Yes															1	1	Environment. The intensity of use cannot yet be
																								estimated. As the GFZ has not received any resources
																								for the setup of HIFIS Cloud services they are not able
																								to make any firm commitment, especially with regards
																								to the uncertainty of usage in a medium to longterm
																								timeframe.
Data Repository with DOI Service			indifferent								Yes			Yes	Yes				Yes	Yes	Yes	6		
	Rodare	Based on Invenio	HZDR	Yes			Yes										Yes					3	9	
	GFZ Data Services		GFZ																					GFZ: cannot offer services in the same way as cloud
							Yes															1	7	providers can do on the free market - but only where
																						_		it makes sense - primarily for the research field Earth &
				_						_														environment
	Zenodo	Based on Invenio	CERN	Yes		Yes	Yes											Yes				4	10	UFZ as USER: Yes
	B2SHARE (Invenio)		FZJ																					AWI: could be interesting in the context of EU projects
				Yes			Yes						Yes									3	9	FZJ: B2SHARE is based on Invinio as well
					_					_					_									
	PANGAEA		AWI + MARUM	-	-			$\vdash$		-		-+			+	+				$\vdash$		0	6	AWI: provides PANGAEA
	ICAT		н∠в												+-							0	6	HZB: ?
Data Management Plan			indifferent	Yes	1		Yes	$\perp$			Yes				Yes	1	Yes		Yes	Yes	Yes	8		
	RDMO	Web based RD organizer				Yes																1	9	UFZ as USER: Yes, Is RDMO the right tool?
	HGF EaE Specific DMP Tool		GFZ								T	Т	7		1						T			pilot/testcase for research field Earth&Environment
																								already
																								>> this service is set up primarily for GFZ users but will
																								probably become an application for centers working in
																								the research field Earth & Environment. The intensity
																							8	of use cannot yet be estimated. As the GFZ has not
																								received any resources for the setup of HIFIS Cloud
																								services they are not able to make any firm
																								commitment, especially with regards to the
																								uncertainty of usage in a medium to longterm
																								timeframe.
Study Conduction Service																						0		
(observational studies)															_							Ŭ		GFZ: Explanation needed
Workflow Platform			indifferent																Yes	Yes		2		
	Galaxy Web Server	Insensitive biometric data	MDC											Yes								1	3	:
	F	platform (bioinfomatics)		-											-									
	Eugene	Genome finder pipeline																				0	2	2
	Geneious	(bioinf.) Bioinformatic workflows													_							0		
Ocean Data View Software	deneious	Biolifici filatic Workflows	indifferent		-				_			-			+	+					_	0		
Ocean Data view Software	ODV		AWI		_					-					_	-						- 0	_	
	ODV		AVVI				Yes									-	Yes					2	- 2	
OpenStreetMap Services					1											1						0		
	OSM Nominatim		FZJ		1		1															0	0	FZJ: The general OSM services have limitiation in e.g. #
	(Geocoder/Reverse Geocoder)			1											1	1		1				-		of requests per day coming from one IP adress; the
	OSM Overpass (OSM map data																							
			FZJ																			0	0	services at FZI could be made available to Helmholtz
	OSM Tileserver (Webserver for		FZJ																			0	0	centres without these limitations
Collaboration Services	OSM Tileserver (Webserver for											_										0	0	
Collaboration Services Sync&Share	OSM Tileserver (Webserver for		FZJ							<u> </u>		<u> </u>										0	0	
Collaboration Services Sync&Share	OSM Tileserver (Webserver for							Yes										Yes	Yes	Yes	Yes	0 0	0	centres without these limitations
	OSM Tileserver (Webserver for	Currently without Office	FZJ					Yes					Yes				Yes	Yes	Yes	Yes	Yes		7	
Sync&Share	OSM Tileserver (Webserver for B2DROP	Currently without Office	indifferent FZJ		Voc						Vas		Yes	Vac			Yes					2	7	centres without these limitations
		Currently without Office	indifferent FZJ indifferent	Vac	Yes	Voc	Voc	Yes			Yes		Yes	Yes	Ves	Voc	Yes Yes	Yes	Yes	Yes	Yes	2	7	centres without these limitations  AWI: could be interesting in the context of EU projects
Sync&Share	Nextcloud (OnlyOffice)	Currently without Office	indifferent FZI indifferent indifferent	Yes	Yes	Yes	Yes				Yes		Yes	Yes	Yes	Yes						9 5		centres without these limitations
Sync&Share	Nextcloud (OnlyOffice)  Nextcloud (OnlyOffice)	Currently without Office	indifferent FZJ indifferent indifferent indifferent' HZB	Yes	Yes	Yes	Yes			Yes	Yes		Yes	Yes	Yes	Yes						2 9 5	15	centres without these limitations  AWI: could be interesting in the context of EU projects
Sync&Share	Nextcloud (OnlyOffice) Nextcloud (OnlyOffice) Nextcloud (OnlyOffice)	Currently without Office	indifferent FZJ indifferent indifferent indifferent' HZB HZDR	Yes	Yes	Yes	Yes			Yes	Yes		Yes	Yes	Yes	Yes						2 9 5 1	15 15	centres without these limitations  AWI: could be interesting in the context of EU projects
Sync&Share	Nextcloud (OnlyOffice) Nextcloud (OnlyOffice) Nextcloud (OnlyOffice) Nextcloud (OnlyOffice)	Currently without Office	indifferent FZJ indifferent indifferent indifferent' HZB HZDR DESY	Yes	Yes	Yes	Yes				Yes		Yes	Yes	Yes	Yes						2 9 5	15	centres without these limitations  AWI: could be interesting in the context of EU projects  UFZ as USER: Yes
Sync&Share	Nextcloud (OnlyOffice) Nextcloud (OnlyOffice) Nextcloud (OnlyOffice)	Currently without Office	indifferent FZJ indifferent indifferent indifferent' HZB HZDR	Yes	Yes	Yes	Yes			Yes	Yes		Yes	Yes	Yes	Yes						2 9 5 1	15 15	AWI: could be interesting in the context of EU projects  UFZ as USER: Yes  AWI: NIT OHERS NEXTCIOUS + UNIVOHICE HE HZB, HZDR,
Sync&Share	Nextcloud (OnlyOffice) Nextcloud (OnlyOffice) Nextcloud (OnlyOffice) Nextcloud (OnlyOffice)	Currently without Office	indifferent FZJ indifferent indifferent indifferent' HZB HZDR DESY	Yes	Yes	Yes	Yes			Yes	Yes		Yes	Yes	Yes	Yes						2 9 5 1	15 15	AWI: could be interesting in the context of EU projects  UFZ as USER: Yes  AWI: ANI OTHERS NEXTCIOUR + UNIQUITICE LIKE HZB, HZDK, and DESY
Sync&Share	Nextcloud (OnlyOffice) Nextcloud (OnlyOffice) Nextcloud (OnlyOffice) Nextcloud (OnlyOffice)	Currently without Office	indifferent FZJ indifferent indifferent indifferent' HZB HZDR DESY		Yes	Yes				Yes	Yes		Yes	Yes	Yes	Yes						2 9 5 1	15 15	Centres without these limitations  AWI: could be interesting in the context of EU projects  UFZ as USER: Yes  AWI: KIT OTTERS NEXTCLIQUE + UNIVORTICE LIKE HZB, HZDK, and DESY KIT: Idea: provide a separate Nextcloud instance in
Sync&Share	Nextcloud (OnlyOffice) Nextcloud (OnlyOffice) Nextcloud (OnlyOffice) Nextcloud (OnlyOffice)	Currently without Office	indifferent FZJ indifferent indifferent indifferent' HZB HZDR DESY	Yes	Yes	Yes	Yes			Yes	Yes		Yes	Yes	Yes	Yes						2 9 5 1	15 15	AWI: could be interesting in the context of EU projects  UFZ as USER: Yes  AWI: RIT OTHERS NEXTCIOUD + UNIVOITICE LIKE HZB, HZDR, and DESY KIT: idea: provide a separate Nextcloud instance in parallel with bw\$8.5 (free community edition) for HGF
Sync&Share	Nextcloud (OnlyOffice) Nextcloud (OnlyOffice) Nextcloud (OnlyOffice) Nextcloud (OnlyOffice)	Currently without Office	indifferent FZJ indifferent indifferent indifferent' HZB HZDR DESY		Yes	Yes				Yes	Yes		Yes	Yes	Yes	Yes						2 9 5 1	15 15	Centres without these limitations  AWI: could be interesting in the context of EU projects  UFZ as USER: Yes  AWI: KIT OTTERS NEXTCLIQUE + UNIVORTICE LIKE HZB, HZDK, and DESY KIT: Idea: provide a separate Nextcloud instance in
Sync&Share	Nextcloud (OnlyOffice) Nextcloud (OnlyOffice) Nextcloud (OnlyOffice) Nextcloud (OnlyOffice)	Currently without Office	indifferent FZJ indifferent indifferent indifferent' HZB HZDR DESY		Yes	Yes				Yes	Yes		Yes	Yes	Yes	Yes						2 9 5 1	15 15	AWI: could be interesting in the context of EU projects  UFZ as USER: Yes  AWI: XI OTHERS NEXTCLOUG + UNIQUITICE IIKE HZB, HZDK, and DESY  KIT: idea: provide a separate Nextcloud instance in parallel with bwS&S (free community edition) for HGF centers (=> later: federation with bwS&S)
Sync&Share	Nextcloud (OnlyOffice) Nextcloud (OnlyOffice) Nextcloud (OnlyOffice) Nextcloud (OnlyOffice)	Currently without Office	indifferent FZJ indifferent indifferent indifferent' HZB HZDR DESY		Yes	Yes				Yes	Yes		Yes	Yes	Yes	Yes						2 9 5 1 1 1 1	15 15 15	AWI: could be interesting in the context of EU projects  UFZ as USER: Yes  AWI: AIT OTHERS NEXTLIBUDE + UNIVOITICE HIKE HZB, HZDR, and DESV KIT: idea: provide a separate Nextcloud instance in parallel with bwS&S (free community edition) for HGF centers (=> later: federation with bwS&S?)  >> All linkage: All linkage via DFM AAI already
Sync&Share	Nextcloud (OnlyOffice) Nextcloud (OnlyOffice) Nextcloud (OnlyOffice) Nextcloud (OnlyOffice) bwSync&share (Nextcloud)	Currently without Office	indifferent FZJ indifferent indifferent indifferent' HZB HZDR DESY		Yes	Yes	Yes			Yes	Yes		Yes	Yes	Yes	Yes						2 9 5 1 1 1	15 15 15 15	AWI: could be interesting in the context of EU projects  UFZ as USER: Yes  AWI: AIT OTHERS NEXTLIBUDE + UNIVOITICE HIKE HZB, HZDR, and DESV KIT: idea: provide a separate Nextcloud instance in parallel with bwS&S (free community edition) for HGF centers (=> later: federation with bwS&S?)  >> All linkage: All linkage via DFM AAI already
Sync&Share	Nextcloud (OnlyOffice) Nextcloud (OnlyOffice) Nextcloud (OnlyOffice) Nextcloud (OnlyOffice) bwSync&share (NextCloud)  Nextcloud with Collabora	Currently without Office	indifferent FZJ  indifferent indifferent indifferent' HZB HZDR DESY KIT		Yes	Yes	Yes			Yes						Yes		Yes			Yes	2 9 5 1 1 1 2 2 2	15 15 15 11 11	AWI: could be interesting in the context of EU projects  UFZ as USER: Yes  AWI: AIT OTHERS NEXTLIBUDE + UNIVOITICE HIKE HZB, HZDR, and DESV KIT: idea: provide a separate Nextcloud instance in parallel with bwS&S (free community edition) for HGF centers (=> later: federation with bwS&S?)  >> All linkage: All linkage via DFM AAI already
Sync&Share Sync&Share with Cloud Office	Nextcloud (OnlyOffice) Nextcloud (OnlyOffice) Nextcloud (OnlyOffice) Nextcloud (OnlyOffice) bwSync&share (NextCloud)  Nextcloud with Collabora	Currently without Office	FZJ  Indifferent FZJ  Indifferent Indifferent HZB HZDR DESY KIT		Yes	Yes	Yes			Yes	Yes			Yes		Yes						2 9 5 1 1 1	15 15 15 11 11	AWI: could be interesting in the context of EU projects  UFZ as USER: Yes  AWI: AIT OTHERS NEXTLIBUDE + UNIVOITICE HIKE HZB, HZDR, and DESV KIT: idea: provide a separate Nextcloud instance in parallel with bwS&S (free community edition) for HGF centers (=> later: federation with bwS&S?)  >> All linkage: All linkage via DFM AAI already

	Sharol aToy	LaToV Community platform	Overleaf				1							_	1	1					_	1 42	
		LaTeX Community platform					1														0	12	
	ShareLaTex		HZDR							Yes											1	13	
	<del>ShareLaTex</del>		<del>FZ)</del>							Yes		Yes									2	14	
	ShareLaTex		KIT							Yes											1	13	KIT: (only KIT internal: Overleaf)
	Authorea	On-click DOI publishing	Authorea				Yes														1	5	
Event Management			indifferent			Yes		Yes	i					Yes				Yes		Yes	5		UFZ as USER: Yes
	Indico		indifferent'	Yes			Yes		Yes		Yes	Yes		1		Yes			Yes		7		
	Indico	T	DESY	103			100		- 100	Yes				+		100			1.00		1	13	
	Indico	Event & conference	GEOMAR							163				+							0	12	
		Management	VIT.																				
	Indico		KH																		0	12	
	EasyChair	Conference Management	ESA				Yes														1	6	
Sandstorm Microcontainer			indifferent										Yes								1		
	Sandstorm	Web based Microservices	HMGU																		0	1	
Discussion Channel, Chat			indifferent	Yes				Yes			Yes		Yes				Yes	Yes	Yes		7		
	Slack		Slack				Yes			Yes						Yes					3	10	
	Mattermost		indifferent'				Yes						Yes	Yes	Yes	Yes				Yes	6		
	Mattermost	l e	HZDR				103			Yes			103	103	103	103				103	1	14	
	Mattermost	1	KIT			-	-							+	+					-	2	15	
			IX.1						Yes	Yes				+	+							**	
	Jabber XMPP		indifferent'			Yes	Yes														2		UFZ as USER: Yes, UFZ has Jabber installation
	Jabber XMPP		HZDR				1	$\perp$			$\vdash$				1		$\vdash$				0	9	
	Jabber XMPP		KIT						Yes						1						1	10	
	Jabber XMPP		FZJ																		0	9	
	Rocket.Chat		FZJ		Yes		Yes							Yes	Yes	Yes					5	12	
	Rocket.Chat		GWDG				Yes														1	8	DKFZ: dedicated user registration required!
		Bridges to IRC, Slack, Jabber					Yes													Yes	2	9	
Voice Chat	, present	,	indifferent			<del>                                     </del>	Yes		-				<del>                                     </del>	+	1			Yes	Yes		3		<u> </u>
voice char	Jabber eJabberDaemon						163							_				163	163		1		
			indifferent'								Yes			+	-								
	Jabber eJabber Daemon		KIT				_							_							0	4	KIT: ?
	Lync Federation	Microsoft Lync Communities									Yes										1	4	
	Chat over IMAP																				0	3	
Voting			indifferent			Yes					Yes										2		UFZ as USER: Yes
	Electronic Voting												Yes								1	3	
Online Survey Service			indifferent				Yes				Yes		Yes			Yes		Yes		Yes	6		
	LimeSurvey		indifferent'	Yes		Yes						Yes	Yes	Yes					Yes		6		UFZ as USER: Yes
	LimeSurvey	l .	HMGU	103		103				Yes		103	1.03	1.03					103		1	13	012 03 032111 103
	LimeSurvey	1	DKFZ											+							1	13	
			DKFZ							Yes				_	+								
	Polls (NextCloud)			Yes			1												Yes		2	8	
	RedCap																				0	6	
Project Management with Wiki			indifferent		Yes		Yes				Yes					Yes	Yes	Yes	Yes		7		
	Redmine		indifferent'	Yes				Yes							Yes						3		
	Redmine		HZDR																		0	10	
	Redmine		KIT						Yes												1	11	
	Redmine		FZJ									Yes									1	11	
	Redmine	1	HMGU																		0	10	
	Sheila		T				1		+					+	1						0	7	<del> </del>
	OnlyOffice Project		<del> </del>			<del>                                     </del>	1							+	1						0	7	
			H7R			-								+									+
	OpenProject		TIED	Yes			+	l	$\rightarrow$	Yes			H., H	+	Yes				-	H	3	10	
	JIRA/Trello/Confluence		Atlassian	Yes		Yes		Yes		Yes			Yes	+	-					Yes	6		UFZ as USER: Yes
	DECK (Nextcloud)										$\Box$			$\perp$							0	7	
Ticketing Tool, Issue tracker			indifferent				Yes	Yes			Yes					Yes		Yes	Yes		6		
	Request Tracker		DESY					T	T	Yes										1	1	7	
	Redmine		indifferent'	Yes					$\neg$												1		
	Redmine		HZDR																		0	7	
	Redmine		<del>FZ)</del>									Yes									1	8	
	Efecte (commercial, ITSM)		HMGU											1	1						0	6	
	JIRA		Atlassian	Yes	Yes	<del>                                     </del>	1						Yes	+	1					Yes	4	10	
	OTRS		indifferent'			<del>                                     </del>	1				$\vdash$		163	+	+					162		10	
				Yes	Yes	-	+	$\vdash$			$\vdash$			+	1						2		DZNE: The DZNE uses an instance hosted by OTRS
	OTRS		KIT			-	-							+	1						0	8	
	OTRS		FZJ (Kix)					$\vdash$			$\vdash$	Yes					$\vdash$			$\Box$	1	9	
	Zammad		HZDR	Yes																	1	9	
Mailing list tool			indifferent					Yes	T		Yes			Yes		Yes		Yes	Yes		6		
	MailMan		FZJ									Yes	Yes							Yes	3	9	
	Sympa		indifferent'	Yes			Yes														2		
	Sympa		DESY							Yes			Yes								2	10	
	Sympa		KIT				1		+						1						<u> </u>	<u> </u>	<del> </del>
	-,,		I		1	1							Yes			l					1	و ا	KIT: only KIT internal mailing list server (s. next line)
	Sympa		DEN-KIT			t			- 1					1	1						0	8	KIT: DFN-List server is operated at KIT since 2004
	-7.mpu																						

Project Websites		indifferent	$\Box$		$\overline{}$			$\Box$	$\overline{}$	Yes			Yes	Yes			Yes	$\overline{}$	$\overline{}$		$\Box$	4		
	Confluence			Yes			Yes		$\overline{}$								$\neg$		$\Box$		$\Box$	2	6	
	Wordpress	HZDR	Yes				Yes		$\overline{}$								$\neg$	$\overline{}$	$\Box$		$\Box$	2	6	
Recruitment Management		indifferent	$\overline{}$		-		Yes	-	$\neg$	Yes			Yes				Yes	-	$\neg$		$\neg$	4		
	CandiBase	Contebis	$\Box$		$\vdash$	$\vdash$	100	-	$\overline{}$									-	-		-	0	4	
Process Management/ Workflow		indifferent	-	$\vdash$	-	-	Yes	$\overline{}$	$\overline{}$	Yes							$\overline{}$	$\overline{}$	-	Yes	$\overline{}$	3		
Engine / Web-Templates	Process Management/ Workflow		Н		_	H		-	$\overline{}$								$\rightarrow$	-	-		$\Box$	0	3	
	EMS	DESY	$\vdash$	$\vdash$	<del>                                     </del>	$\vdash$	$\vdash$	-	$\overline{}$								$\rightarrow$	-	$\vdash$		$\overline{}$	0	3	-
	Lucom Interaction Platform	HZDR	Yes		-	$\vdash$	$\vdash$	-	$\overline{}$	$\vdash$							$\overline{}$	-	-		Yes	2	5	†
SW-Package - Catalog?		<del></del>	100	-	-		$\vdash$	$\overline{}$	$\overline{}$	Yes						_	$\rightarrow$	$\rightarrow$	-		<del>- 123</del>	1	1	+
Proposal System		indifferent		-	-		$\vdash$	$\overline{}$	$\overline{}$	Yes							$\rightarrow$	-	-		-	1		
1 Toposai System	Gate	HZB	Yes		_	$\vdash \vdash$	$\vdash$	-	$\overline{}$	163							-	-	$\vdash$		-	1	2	4
	Door	DESY	res	-	-		$\vdash$	-		$\vdash \vdash$							$\rightarrow$	-	$\vdash$	─	$\vdash$	1	2	+
a Lagraina / Laghty sation	Door		<u> </u>			- V	Y	$\longrightarrow$	Yes	- V							$\longrightarrow$	$\longrightarrow$	<u> </u>	<del> </del>	$\vdash$		È	UEZ UEED V
e-Learning / Instruction		indifferent	Yes		Yes	Yes	Yes	$\vdash$	$\overline{}$	Yes							$\longrightarrow$	$\longrightarrow$	Yes	Yes	-	7		UFZ as USER: Yes
	ILIAS	HMGU	$\vdash \vdash$	——′	$\vdash$	-	$\vdash$	$\vdash$	لــــا	——'			-			$\rightarrow$						0	7	<del> </del>
	Moodle	DKFZ	₩	<b></b> -'		₩	$\vdash$	$\longrightarrow$	Yes								Yes	$\longrightarrow$	$\vdash$	—'		2	9	<u> </u>
	OpenOLAT		$\vdash$			₩	$\vdash$	$\vdash$	$\vdash$	$\vdash$							$\longrightarrow$		$\vdash$		$oldsymbol{\sqcup}$	0	7	
	Eplas		لــــــــــــــــــــــــــــــــــــــ			لــــــــــــــــــــــــــــــــــــــ	igspace	$oldsymbol{}$	لـــــا											<u></u>		0	7	
Chemicals Administration		indifferent	لــــــا			Yes	oxdot	$\longrightarrow$	لــــا	Yes			Yes				Yes		-		$oldsymbol{}$	4		
	GESKAT	HZDR	Yes			<b>└</b>		$\longrightarrow$	igspace									$\longrightarrow$	<u> </u>	<u></u>	igspace	1	5	
	BIDS (extenal development)	HMGU				<u></u> '		ш														0	4	
Tele-Webconferencing worldwide		indifferent				Yes	Yes		لــــــا	Yes							Yes	Yes	'	Yes		6		
without registration	Zoom	Zoom	'			'			Yes				Yes			Yes			'		ш	3	9	CISPA: No
	DFNconf	DFN	Yes	Yes	Yes				Yes						Yes				Yes		Yes	7	13	UFZ as USER: Yes
	jitsi meet	rendez-	1 '	'		1 1			, 1	1 '					Yes				i '	1 '	. !	1	l ,	
		vous.renater.fr	-			<del></del>		${f -}$	ightharpoonup	—					1.03			$\overline{}$	-	—	$oldsymbol{}$		<u> </u>	
Literature Management		indifferent	—			Yes	$\vdash$	$\longrightarrow$	-	<b>└</b>							Yes	Yes	—	<b>└</b> ──'	igspace	3		
	Zotero		$\vdash$		<u> </u>	$\vdash$			igwdown	<u></u>		Yes			Yes	Yes			-	<u> </u>		3	6	
	Endnote (Cloud)	indifferent'	Yes	$\vdash$	Yes	$\vdash$	Yes	$\vdash$	$\vdash$					Yes	Yes		$\longrightarrow$		$\vdash$	Yes	Yes	7		UFZ as USER: Yes
	Endnote online	web of science				<b>└</b>	$\vdash$	$\longrightarrow$	$\vdash$	——'							$\rightarrow$		—	<b>└</b> ──	igspace	0	10	
	Endnote (Cloud)	HMGU			Ь—	<b>└</b>	igsquare	igspace		ш										Щ'		0	10	
Room reservation system (incl.		indifferent				Yes	oxdot	-	لــــــا			Yes					Yes		لــــــا		igcup	3		
ressource management)	OpenIRIS	FMI (Basel)				<u> </u>		$\overline{}$	لـــــــا					Yes				1		<u>                                     </u>		1	4	
Publishing Repository		indifferent		<u> </u>		Yes				Yes												2		
	Invenio	,	Yes	,				iΠ	$\neg$								$\neg$	-			$\Box$	1	3	
Cloud CAD System		indifferent	Yes			Yes		-	$\neg$	Yes							Yes				$\neg$	4		
	onshape	PTC							$\neg$								$\neg$					0	4	
	simscale	Simscale							$\neg$								$\neg$				$\Box$	0	4	
Norm Database	Usually solved via Library licenses	Beuth Verlag	-		$\vdash$			-	$\overline{}$	Yes					Yes		Yes	-	-		$\neg$	3	3	
					_											_								
Other Services							_											بالكر			بسر			
Continous Improvement Proposal		4 '	Yes	'		1 '	1 1		, 1	Yes		Yes	Yes						i '	1 '	. !	4	4	
System			لننا	┉	$\vdash$	┉	Н.	$\longrightarrow$								-				┉				<del> </del>
Document Management System			——	——'	—		Yes	$\longrightarrow$		Yes							Yes	-	—	——'	Yes	4	4	
Email/Calendar/Contacts		indifferent	——'	<b></b> -'	₩	'	igspace	ightharpoonup		Yes									—'	Yes	igspace	2	—	
	Entire hosting of mail server	indifferent'	<b>└</b>	<u></u> '		<b>└</b>	Yes	$\longrightarrow$	igspace	-									<u></u>	<b>└</b>	igspace	1		
	Entire hosting of mail server	DESY	<b>└</b>	<b>└</b>	<b>↓</b>	<b>└</b>	igspace	$\longrightarrow$	Yes	<b>└</b>									——'	<b>└</b> ──'	igspace	1	4	
	Entire hosting of mail server	FZJ	, ,	1 '	1 '	( '	1 1		, ,		1		1	1					. ,	1 '		0	3	
	Exchange	 DWGD	$\vdash$	_	-	Yes	Yes	$\vdash$	$\overline{}$	$\vdash$							$\rightarrow$	'	-	$\vdash$	Yes	3	5	+