

	Functionalities		Desirable	FEWS	LEAD	MADIS	DIAS	MSM	WDIAS
Data Storage	Framework data storage mechanism	Central data storage		X				X	
		Resource pool	X		X	X	X		X
		Scalable Database Structure			X				X
	Independent of underline databases				-				X
Performance	Scalability	Scale by adding more resources	X	X	X	X	X	X	X
		Scaling on demand by adding more resources	X		X		X		X
		Auto scaling up and auto down-scaling	X		X				X
	Availability	High Availability	X		X	X	X		X
		Fault tolerance	X		X	X	X		X
	Cloud computing	Easy modern cloud integration support	X		-				X
		Ondemand resource allocation with low operational cost	X						X
	System deployment	Continuous deployment without downtime	X		X	-	-		X
		Independent subsystem deployments	X		X				X
		Update with moving code to existing code base		X				X	
Architecture	Architecture pattern	Distributed client server		X					
		Monolithic distributed				X	X	X	
		SOA	X		X				
		Microservice	X						X
	Loose coupling	Subsystem independency	X	X	X	-	X	X	X
		Programming language independent subsystems	X		-		-		X
	Extendability	Architectural independency to ingregate new subsystems			X			X	X
		Extendable data integration support	X	X	X	X	X	X	X
	Source code availability		X					X	X
	Data preprocessing	Data preprocessing		X	X	X	X	X	X
		Add new preprocessing capabilities independently	X	X	X		-		X
		Add new preprocessing capabilities without system downtime	X		X	-	-	-	X
		Run preprocessing with auto-scaling	X		X				X
Other	Workflow engine			X	X			X	
	Model execution and integration			X	X			X	