

	Functionalities		Desirable	FEWS	LEAD	MADIS	DIAS	MSM	WDIAS
Data Storage	Framework data storage mechanism	Central data storage		×				×	
		Resource pool	×		×	×	×		×
		Flexibility of database structure			×				×
	Independent of underline databases				—				×
Performance	Scalability	Scale by adding more resources	×	×	×	×	×	×	×
		Scaling on demand by adding more resources	×		×		×		×
		Elasticity	×		×				×
	Availability	High availability	×		×	×	×		×
		Fault tolerance	×		×	×	×		×
	Cloud computing	Easy cloud integration/migration	×		—				×
		On-demand resource allocation	×						×
	System deployment	Continuous deployment without downtime	×		×	—	—		×
		Independent subsystem deployments	×		×				×
		Support a proper dependency handling mechanism		×				×	
Architecture	Architecture pattern	Distributed client server		×					
		Distributed monolithic				×	×	×	
		SOA	×		×				
		Microservice	×						×
	Loose coupling	Subsystem independency	×	×	×	—	×	×	×
		Programming language independent subsystems	×		—		—		×
	Extendability	Architectural independency to ingregate new subsystems			×			×	×
		Extendable data integration support	×	×	×	×	×	×	×
	Availability of source code		×					×	×
	Data preprocessing	Data preprocessing		×	×	×	×	×	×
		Programming language independent preprocessing modules	×		—		—		×
		Add new preprocessing capabilities without system downtime	×		×	—	—	—	×
		Run preprocessing with auto scaling	×		×				×
Other	Workflow engine			×	×			×	
	Model execution and integration			×	×			×	