

## Invitation for Expression of Interest for the establishment of a Fintech Innovation Hub and Digital Lab (EOI) - Responses to Queries Received

	Queries Received	Response from the Bank
1	Are the EOI and subsequent RFP/Tender	The EOI is open to International applicants.
	opened to international bidders (or restricted	
	to Mauritian companies)?	
2	To participate to the EOI, are we required to	There is no requirement to pre-register as a
	pre-register as a vendor with the Bank? Or is	vendor. Applicants for the EOI should
	this email sufficient to be considered as a	submit the documents specified in the EOI
	participant to the EOI?	document posted on the Bank's website.
3	Annexure A, section 2(ii):	The shared platform should support these services. The applicant should indicate how
	Will the Bank manage these programs and	the platform can support these
	events by itself or through a 3rd party after	programs/events including their
	the deployment of chosen infrastructure and	involvement in the process.
	the platform or Does the Bank expect the	
	programs/events listed (a) to (g) to be	
	facilitated and executed like an "innovation	
	program service" by the bidder with	
	capabilities of the chosen cloud infrastructure	
	and platform?	
4	Do we need to include CVs in our expression of interest?	Yes, for key members of the project team.
5	Annexure A, section 1:	For shared platform around 50 users.
	Please specify hardware capacity	For development platform, 10 distinct users.
	sizing/specifications for below platform in the	It should also be possible to increase the
	cloud environment:	number of users should the need arise at a
	a. A shared platform	later stage.
	b. A development platform including an	
	Integrated Development Environment	
6	Annexure A, section 6(i):	A minimum of 10 VMs + additional packs of
	How many Virtual Machines (VMs) are	5 VMS. The applicant should include
	required for Linux and Windows Machine?	relevant licenses.
	Should the Applicant include the license in the	
	Hosting service, or will the Bank provide it?	

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7	Annexure A, section 6(ii):	For South Africa 40 -60ms latency and for
	Virtual Network	Europe, 100 - 120 ms. Minimum Firewall
	a. Virtual Firewall	throughput 1Gbps
	b. Virtual Load Balancer	
	c. IP addresses	
	d. Virtual Web Application Firewall (WAF)	
	,,	
	What kind of network connectivity options,	
	such as bandwidth and latency, are required?	
8	Annexure A, section 6(iii):	Applicant to propose indicative storage
8	Storage	requirements/options, disk encryption and
	a. Storage options: block storage, object	security requirements based on responses
	storage, etc.	number 5 and 6.
		Humber 5 and 6.
	b. Disk encryption and security	
	Please provide the total number of Storage	
	(GB) required. Do you require high	
	performance Disk?	
9	Annexure A, section 6(iv):	Applicant to propose indicative number of
	Database License:	databases based on response number 5 and
	MySQL and PostgreSQL are open-source	6.
	databases and are free to use without any	0.
	license requirements.	Licences will have to be provided by the
	•	
	MongoDB offers both a Community Edition	applicant.
	and a commercial Enterprise Edition.	Applicant chould take into consideration
	Oracle and MS SQL are proprietary databases	Applicant should take into consideration possibility of integration with other
	that require a license to use.	possibility of integration with other software.
	- Please share how many Databases are	30 remaile.
	required to install and configure.	Applicant would be expected to provide
	- Are Licenses to be provided included in the	continued support including management
	Hosting Service or will the Bank provide it?	and maintenance of database and other
	- Are there any other dependent software that	core components after installation.
	need to be installed before or after the	core components arter installation.
	database installation?	
	- Are there any configuration or customization	
	requirements specific to the installation?	
	- Who will be responsible for managing and	
	maintaining the database after installation?	
10	Annexure A, section 7:	The core components are the cloud
	The service provider should be able to supply	infrastructure orchestration, the shared
	and install the core and support software	platform and the Integrated Development
	required for the functioning of a fintech	Environment. These should be supported
	innovation hub and digital lab.	for a minimum of 3 years full support + 2
	a. What specific software is required to be	years gradual transfer of support to the
	installed?	Bank. Training should be provided on all 3
	b. Do you require the Applicant to provide the	core components.
	Core Software and the implementation and	
	support services?	
<u> </u>	Support Scretces;	

c. Who will be responsible for maintaining and updating the software over time?	
d. Are there any training or support	
requirements related to the software installation?	
Installation?	
11 Annexure A, section 8: a and b: The project should be	
11 Annexure A, section 8: a and b: The project should b  The various activities cited above are within 3 months.	ie completed
illustrative and are not an exhaustive list. All	
	API, secure
within the given timelines without development lifecycles should	-
compromising the quality standards. Cloud infrastructure should be	
with Mauritian Data Protection	·
a. What are the specific timelines for the 2017 or to data protection law	
project or activity? Equivalent to the Mauritian da	
b. Are there any milestones or deadlines that laws.	
need to be met along the way?	
c. What are the quality standards that need to e and f: Applicants should	indicate the
be adhered to? manner in which they are	planning to
d. How will quality be measured and evaluated   monitor the implementation or	f the project.
throughout the project?	
e. Are there any specific tools or resources	
that will be provided to help ensure timely and	
high-quality delivery?	
f. What happens if the timelines cannot be	
met without compromising quality? Are there	
any contingency plans in place?	tale e electrical
12 Annexure A, section 2: The applicant will have to prov	
Could you please provide additional details of platform which includes a port the expectations for the "shared platform"?	
Does a managed service provider need to	dillexure A.
develop the shared platform, or the Bank has	
a portal that needs to be hosted on the cloud?	
13 We assume that the Bank will provide all the The applicant will have to	provide all
required software licenses for the DB, Portal, relevant licenses.	provide all
app server, APM etc. Please confirm.	
14 Annexure A, section 7: Refer to response number 10.	
Please provide a list of core and support	
software requested in the EOI.	
15 Could you please share the evaluation This cannot be disclosed.	
methodology of the EOI?	
16 Annexure C: Details of similar projects This refers to projects similar to	the scope of
executed work and includes all related a	spects of the
Could you please elaborate on what you mean project, namely implementa	
by similar projects? Is it in providing the Cloud infrastructure as well as m	anaging and
infra, managing it, or operating it? operating it.	

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17	Are there any GDPR, PII data or geographical constraints of providing cloud infrastructure like the location of DC/DR?	DC/DR or hosting services should be on territories which are compliant to the Mauritian DPA 2017 or to data protection laws which are equivalent to the Mauritian data protection laws.
18	As we will have only 12 days to turn around the EOI upon receiving the responses, we would appreciate getting the answers sooner or extending the deadline for the EOI response. Please advise.	The timelines specified in the EOI will have to be adhered to.
19	Which cloud is the infra currently hosted on? (AWS/Azure/GCP)	Refer to section 3 of the EOI. The purpose of this EOI is to build such an infrastructure.
20	What is the application architecture? (Monolithic/Microservice/Serverless)	Applicant to propose.
21	Are there any services running on-premises?	Yes. These systems/applications will have to be integrated through APIs
22	Does the applications use Databases within the cloud?	Applicant to propose.
23	Are the applications hosted within a Kubernetes cluster?	Applicant to propose.
24	Has there been an infrastructure audit? Or a security config review?	Refer to section 3 of the EOI. The purpose of this EOI is to build the infrastructure.
25	Is there an IaC for the infrastructure? If yes, what's the IaC language (Terraform/CloudFormation/ARM/Crossplane/Bicep)	Refer to section 3 of the EOI. The purpose of this EOI is to build the infrastructure.
26	How many environments are present currently?	Refer to section 3 of the EOI. The purpose of this EOI is to build the infrastructure.
27	Does application deployments use CICD pipelines?	Refer to section 3 of the EOI. The purpose of this EOI is to build the infrastructure.
28	Does the proposed Cloud Infrastructure have to reside in Mauritius?  If so where?	No
29	Is the proposed solution in scope for regulatory compliance (such as PCI DSS, FSC, DPA, SOX, etc.)?	Yes, as applicable.
30	Does the proposed Cloud Infrastructure need to be single tenant solution?	No
31	Can the proposed Cloud Infrastructure be hosted by a hyperscaler:  AWS Mumbai (40-50 milliseconds latency)  GCP Mumbai (40-50 milliseconds latency)  Azure South India (40-50 milliseconds latency)	Applicant to propose.

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	If so do you have a preferred cloud provider?	
22	Who will are the Claud Infrastructure.	The evention
32	Who will own the Cloud Infrastructure:  - Bank of Mauritius?	The supplier.
	The Supplier?	
33	What is the estimated Compute & Storage	Refer to responses number 5 & 6.
33	requirements of the cloud infrastructure?	Refer to responses number 5 & 0.
34	What is the estimated Database requirements	Refer to responses number 5 & 6.
	of the cloud infrastructure?	
35	What is the estimated number of users that	Refer to responses number 5 & 6.
	will consume services from this platform?	·
36	Is the user traffic anticipated to mainly from	Data on the split of user traffic is not
	Mauritius?	available at this stage.
	What is the % split of user traffic?	
	• Mauritius?	
	• North America?	
	<ul><li>Europe?</li><li>Asia PAC?</li></ul>	
	Middle East & Africa?	
	Rest of the world?	
37	Who will be responsible for the development	The applicant.
	platforms software development & support	тие врривания
	including:	
	Participant Registration?	
	Conferences, Summits & workshops?	
	Competitions & Challenges?	
38	Annexure A, section 5:	The applicant.
	Who will be responsible for the Integrated	
	Development Environment's (IDE)?	
	<ul><li>API development &amp; support</li><li>Integration with systems hosted by the Bank</li></ul>	
	Core banking & non-banking financial system	
	with test data	
	<ul> <li>Development of solutions domains such as</li> </ul>	
	core banking, payments, lending and risk	
	management	
39	How many Applications will make up the IDE	Approximately 5
	environment?	
40	Do you have your own software development	The applicant to provide software
	team?	development capabilities.
4.4	Will they be contracted separately?	As his his his had a
41	Annexure A, section 1:	As highlighted in response number 11, both
	What are the anticipated Project timelines for:  The Shared platform?	the shared platform and the IDE should be implemented in parallel within 3 months.
	The Integrated Development Environment?  The Integrated Development Environment?	implemented in parallel within 3 months.
	The integrated bevelopment Environment!	

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42	Will the vendor be required to provide support	Yes. Please refer to response number 10.
	to all Cloud Infrastructure components?	
43	Will the vendor be required to provide support	Yes
	to all IDE Software development to support	
	user functionality:	
	<ul><li>Participant Registration</li></ul>	
	<ul><li>Conferences, Summits &amp; workshops</li></ul>	
	■ Competitions & Challenges	
44	Will the vendor provide training sessions from	Training should be in a hybrid mode.
	onsite or can this be outside of Mauritius?	
45	Will the vendor be required to setup an	No
	Innovation Hub for FinTechs?	
46	What are the estimated Disaster recovery	RPO-4 Hours; RTO-12 Hours;
	mechanism, does "Bank of Mauritius" define	DR-warm site.
	RPO / RTO for DR along with SLAs?	
	DR mechanism	
	-Cold	
	-Warm	
	-Hot	
47	Does "Bank of Mauritius" solution be	Details are not available at this stage.
	extended across other regions? If yes, who are	
	your clients, Geography, Nationality, Other	
	segmentations, this is to understand data	
	sovereignty and other regulatory requirements.	
48	Objective of this is to modernize existing	The objective is to build a new green field
	solution or to build a new green field	implementation.
	implementation for this initiative?	
49	Individual Timelines defined to deliver Design,	Refer to responses number 10 & 11.
	Build, Operate and Transfer:	·
	-What are the timelines for Minimum Viable	
	product?	
	-What is the timeline to launch the product in	
	Market?	
	-Is product launch planned with complete	
	integrations or with Minimum viable product	
	model?	
50	Does the Bank have a preferred cloud	No
	provider?	
51	Does the Bank have a preferred hosting	Refer to response number 17.
	jurisdiction?	
52	Does the Bank have an international regulator	To be determined on a case to case basis.
	interoperability requirement?	
53	Does the Bank have an expected number of	Refer to responses number 5 & 6.
	users?	
54	Is it anticipated the Fintech Innovation Hub	No
	and Digital Lab would need to support physical	
	devices?	

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55	Does the Bank currently know who would	The project will follow the design, build,
	operate the platform day-to-day, and are	operate and transfer model.
	consulting services required to operate	
	platform?	
56	Can a Private Limited Company from India bid	Refer to response number 1.
	this tender?	
57	If an Indian company not eligible to bid then	Refer to response number 1.
	can a Mauritian company bid along with an Indian entity?	
58	Are there any requirement to submit financials	Not required at this stage
	of the company? If Yes, then for how many	Two required at this stage
	years we need to provide it.	
59	Is there any benchmark/minimum	Not required at this stage
	requirement of the financial to qualify for	
	bidding this tender?	
60	What are the criteria of Human Resource	Refer to response number 4.
	required as per bid doc? Does it require CV	
	Submission?	
61	Annexure A, Section 1:	a. Disaster Recovery mode.
	a. Does the shared platform need to be	
	available in High Availability or Disaster	b. Applicant to propose tenancy model.
	Recovery Mode?	a and d. Applicant to access the risk and to
	b. Does the shared platform need to support the Bank as a master tenant and have multiple	c and d. Applicant to assess the risk and to come up with the most appropriate setup.
	sub tenants?	come up with the most appropriate setup.
	c. Does the shared platform need to use	
	Dedicated backend Hardware Infrastructure,	
	or the backend hardware can be shared across	
	other tenants?	
	d. Can the shared platform and the	
	Development platform co-exist on the same	
	backend hardware infrastructure?	
62	Annexure A, Section 2:	Yes
	a. Does the cloud service provider need to	
	provide managed services in terms of the	
	operation of the applications Reference in A(2)(i) and A(2)(ii)?	
	b. Does the cloud service provider need to	
	provide managed services in terms of	
	deploying the applications Reference in A(2)(i)	
	and A(2)(ii)?	
63	Annexure A, Section 3:	Yes
	a. Does the cloud service provider need to	
	provide managed services in terms of	
	deploying the infra on the cloud Reference in	
	A(3)	

	Queries Received	Response from the Bank
64	Annexure A, Section 6:	Refer to response number 9.
	a. Can the Bank share a list of Linux and	
	Windows distributions which should be made	
	available on the cloud platform? Reference in	
	A(6)(i)	
	b. With reference to Oracle Database and	
	Microsoft SQL Database, will those licenses be	
	provided by the cloud service provider or the	
	Bank. Reference in A(6)(iv)	
	c. With reference to Oracle Database, what	
	type of licenses will be used Hard Partitioning	
	or Soft Partitioning. Reference in A(6)(iv)	
	d. With reference to Containerisation, will the	
	cloud service provider need to provide	
	Containerisation as a service or the Bank will	
	deploy its own Containerisation solution over	
	virtual machines? Reference in A(6)(v)	
65	General Notes	a. Applications will be accessible through
	a. Will the Tenants applications be accessible	internet.
	over VPN Tunnels (IPSEC) or Private Network	
	(MPLS) or Public (Internet) or Hybrid (All	For questions 'b' to 'e', please refer to
	scenarios)	responses number 5, 6 and 79.
	b. Will the Bank commit to a fixed resource	
	pool in terms of CPU, Memory and Storage or	
	the resource pool will be dynamic.	
	c. What is the starter resource pool required	
	and if the resource pool is required in multiple	
	regions.	
	d. The Bank to share a high-level estimates	
	and topology of the overall resources	
	required.	
	e. The Bank to provide more information	
	about Billing and Administration? Is the Bank	
	referring to the overall infrastructure billing?	
66	We would request for a meeting/explanation	No meetings or explanation sessions are
	session to have more info regarding the	scheduled at this stage.
	requirements of the project. Please advise	The district of the little district is the
	whether we should disclose the names of any	The third party should be disclosed in line
	Third Party with whom we will partner to	with section 8 of the EOI.
67	provide the solution in the EOI response.	0
67	Would the Bank have any preference in terms	Opex
	of the investment model i.e., Capex, Opex,	
	Licensing or Revenue Share?	It was include and of the control
68	What would the Bank's roles be towards this	It may include any of the examples
	project i.e., Supervisory; Enabling; Mentoring;	mentioned depending on the different
	or Controlling?	projects.
69	Is there an existing Sandbox? If yes, can you	No
	please provide more details?	

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70	What would be the estimated timeframe to	3 months. Refer to response number 11
	roll-out this project?	
71	Will the Bank provide hardware and software	Applicant to provide.
	licenses?	
72	Will the Bank provide access to existing	Yes
	APIs/Web-Services?	
73	If yes, how far are the API or integrations	This will be disclosed at a later stage
	available within the sector?	
74	We have the tools and learning platforms to	Yes
	assist early stage fintech innovators to go from	
	idea to prototype, is that a part of this	
	initiative?	
75	Is there an intention to equip and coach start-	Refer to section 2 of Annexure A of the EOI.
	ups with the skills of starting up & scaling and	
	would the Bank support an education and	
	collaboration hosting platform?	
76	Is there a need to create an on-line design	Yes
	sprint space to allow innovators to move from	
	idea to prototype and get coaching an input	
	from the broader eco-system?	
77	How does the Bank foresee finding and	It is aimed for both the early-stage
	identifying innovators to bring into the	innovations and at innovators who already
	platform - is it to also attract early-stage	have traction and product market fit.
	innovations or is it aimed at innovators who	
	already have traction and product market fit?	
78	Is there an intention to help the programme	The intention is to provide a technical
	participants go through the stages of start-up	platform and some guidance.
	and help them develop their businesses or is it	
70	just to provide a technical platform?	this and the three states are filled
79	Is there an annual support budget over time or	It is expected that there would be a one off
	just a once-off build and hand-over	minimum set up cost and on-going
	investment?	support/pay as you go model.
80	Could you please confirm whether it is	Yes, refer to section 8 of the EOI.
	permissible for three companies to form a	
	joint venture and apply for this EOI?	

Bank of Mauritius 28 April 2023