Study LLM4Gov

Question Je suis actuellement en train de créer une entreprise au Luxembourg qui se spécialise dans le domaine de l'intelligence	Réponse/Answer
artificielle générative.	
Cependant, il est probable que l'enregistrement officiel de mon entreprise ne soit pas finalisé avant la date limite de soumission des offres fixée au mardi 19 novembre 2024. À ce titre, je souhaiterais savoir s'il est obligatoire de disposer d'une entreprise enregistrée au moment de la réponse à l'appel d'offres, ou si cela est acceptable au moment de la signature du	Les marchés ne peuvent être adjugés qu'aux opérateurs économiques qui sont au jour de l'ouverture de la soumission juridiquement établis. La sélection sera faite entre le 19 novembre et début décembre 2024. Le début du projet est actuellement planifié pour début 2025.
contrat en cas de sélection. Pourriez-vous également me préciser les timing des prochaines étapes après la soumission des offres, notamment en ce qui concerne la sélection, la signature du contrat et le début du projet ?	
concerne la selection, la signature du contrat et le debut du projet :	Submitting an offer for this call for solutions poses no restriction for potentially also working on the deployment phase. However,
If we answer to this phase of the project, can we also potentially work on the next phase (deployment phase)?	offers submitted by economic operators will be ineligible for the award of the "Study LLM4GOV" contract should the execution of the contract by said economic operators entail the evaluation of their own product.
	The documents needed for an application are the following :
From administrative point of view, what other documents must be attached to the application besides the offer with the concept paper, CVs and Criminal records #3 to be considered eligible? Do we need to send extracts from RCS or any other compliance related documents?	-The offer including all elements detailed in the Project proposal; -the CVs of each person who will work on the project; -the criminal records of each person who will work on the project.
	Any additional documents might be requested during the selection phase.
Could you clarify which specific public sector use cases are prioritized in the survey results that will be shared with the chosen provider?	Use cases include : - Generation of text-based content and summaries - Retrieving information - Analysis of documents
Are there preferred benchmarks or specific datasets the Ministry wishes to use for evaluating the candidate LLMs, especially regarding risk of hallucination, speed, and accuracy?	- Questions & answers Are there preferred benchmarks or specific datasets the Ministry wishes to use for evaluating the candidate LLMs, especially regarding risk of hallucination, speed, and accuracy?
Could you elaborate on the expectations for multilingual support? For example, is there a minimum accuracy level required for Luxembourgish and other target languages?	There is no minimum accuracy level defined at this stage, the differences in accuracy between the different models that will be levaluated should be included in the study results. The model(s) should cover at minima FR, EN, DE and LU.
Will the Ministry provide access to existing models (like employment-specific chatbots) or infrastructure specifications for the integration feasibility assessment?	Access to existing models will not be provided. The CTIE will be involved as architectural consultant to support assessing whether the integration on its infrastructure is possible.
What are the Ministry's data security and privacy expectations for handling sensitive data, especially on sovereign or air-	Data privacy expectations are in line with the following draft law: https://www.chd.lu/lu/dossier/8395. The national / EU laws
gapped cloud environments? For cost analysis, could you clarify any assumptions or limitations regarding the Total Cost of Ownership (TCO) evaluation over	and regulations mentionned in the drafted law, and all other applicable laws and regulations. TCO should be evaluated with respect to the use cases .
For cost analysis, could you clarify any assumptions or limitations regarding the Total Cost of Ownership (TCO) evaluation over five years?	TCP should include the total set-up TCO and the total operating costs. Storage, labor and other ancilliary items should be taken into consideration if their main purpose is to support operating the LLM.
Are there specific interoperability standards (e.g., OAuth2.0 or OIDC) or integration platforms (e.g., OpenShift) that must be supported by the selected LLM?	cf section 2.1, paragraph "Integration"
Could you outline expectations for the deliverables' format, especially for documentation like methodology, cost analysis, and use-case rankings?	A detailed written report as well as an oral presentation of study results is expected. There are no other specific requirements on the format and it is up to the economic operator to come up with a proposal on how the study results will be presented.
Will there be any penalties or specific terms for adjustments if the actual duration exceeds the projected six months?	There are no penalties foreseen. The requirement is to complete the project within the budget year 2025, therefore the project must be completed at latest in December 2025.
Are there additional preferences for the consultant profiles, such as experience with specific LLM providers or tools? What is the expected frequency of progress reporting and feedback meetings with the Ministry during the project's six-month	There are no specific preferences apart from the criteria mentioned in the project specifications. A regular follow-up meeting is expected, at minima on a bi-weekly basis.
duration? Are there specific evaluation metrics or KPIs the Ministry prioritizes for assessing the "versatility" and "ease of onboarding	There are no evaluation metrics or KPIs defined. One of the goals of the study is to provide an assessment on these criteria and
new use cases" for LLMs?	The survey is not representative but gives a first insight into the needs and potential use cases regarding LLMs within the
Could you provide more detail on the survey format and how the survey results will influence the ranking of LLMs or the selection of use cases? Is there a preferred approach for model customization or fine-tuning to meet the unique needs of Luxembourg's public	government. An online questionnaire was used to collect answers from all ministries and administrations. More than 400 responses have been collected via the survey. The highest ranked use-cases should be the ones that the study focuses on. The study should clarify the advantages/disadvantages of different approaches to customize models. There is no prior fixed
sector? Are there any anticipated challenges or current issues with existing digital infrastructure that the Ministry expects the LLM	requirement from our side. There are no specific issues or challenges that we are aware of at this stage. This study should and can also give clarity on different
study to address? Could you clarify if the Ministry requires the inclusion of open-source models or would prefer proprietary models for	integration approches.
deployment?	The leading state-of-the-art LLMs should at minima be considered, both proprietary and Open-Source.
Does the Ministry foresee any limitations or considerations regarding long-term model maintenance, such as regular updates or retraining?	It is use case dependant. Proposal may offer to include mid- to long- term strategy to account for the rapidly evolving nature of LLMs.
Could the Ministry outline the primary factors or requirements in evaluating cloud versus on-premises hosting for potential LLM solutions?	The following factors are foreseen : - Data privacy & data security - Integration, maintanability
	- TCO The economic operator can propose additional factors, as seen fit.
Are there any specific legal or compliance requirements that may affect the integration of third-party APIs or other external services?	Applicable data privacy laws and regulations might affect the integration with such services. Luxembourg's draft law 8395 should also be considered.
Is there flexibility in project milestones or deliverable deadlines if adjustments are needed based on project findings or challenges encountered?	Project milestones and deliverables need to be set before the start of the project. Under certain circumstances, adaptations can be made on mutual agreement of the economic operator and the ministry for Digitalisation.
Does the study only concern the selection of one or more LLMs? Or does the study also concern the use of one or more LLMs in production via an application enabling interaction with the LLM? (Because the tender is mentioning: API development, RAG application, Vectorised data)lf so, do we limit the study to the actual choice of a LLM or is the study as broad as a whole Al stack with an LLM as part of this stack as some sentences in the call suggest: API interactions, text generation, code generation, vectorization, vector storage, indexing, chunking, reranking, summarization, etc. The number of parameters to be embedded into the study can grow a lot and will shape the methodology of the study.	The study should primarly focus on assessing the capabilities and integration possibilities of LLMs in the context of selected use cases. It might be necessary to include other elements when they cannot be dissociated from the exploitation of an LLM, especially for TCO computations.
Is it possible for GovTechLab to provide 3 concrete use cases?If not, are the following valid for the tender? • I want to get a specific answer to a legal question based on the Legilux database • I want to have a summary of the State of the Nation 2021 • I want to generate a newsletter template for the Government Press Information Service • I want to generate a Python script that is connecting to the API data, public.lu and retrieving the dataset https://data.public.lu/fr/datasets/skills-required-in-adem-job-vacancies/ and store all this dataset in a sqlite database.	These prompts are good examples of what we are looking for. The use cases that we have identified in our questionnaire are not as specific as the prompts you have listed. Please check the answer above regarding the use cases as well as the project specifications.
Is it planned to provide the economic operator with one (or multiple) corpora of documents provided by a ministry (or a standard vector database) in order to evaluate them with a real-world use case? If not, is the generation of use cases the responsibility of the chosen economic operator, or will GovTechLab be responsible for collecting the use cases and their documentation?	As this is a study, it will not be asked to put the use cases into practice. Therefore, it is not foreseen to share any database.
	It is use-case dependant as it pertains to the confidental or public nature of the underlying data.
Will GovTechLab provide specific criteria that clearly indicate what LLMs cannot be evaluated during the study's inception? (Particularly regarding the licensing scheme, the air-gapped production possibilities, which are narrowing significantly, and the fact that this is more a strategic/political matter rather than a technical one.) Can the compliance part be based on the compliance declaration of the providers or are you requesting a compliance check	Part of the study consists in evaluating the ability to deploy LLMs in various environments, including public cloud, sovereign / air- gapped cloud, and on prem. Excluding LLMs from a thorough evaluation can be done if mandatory criteria (denoted by "should") are not met (for instance non GDPR-compliant models). Concerning the compliance the study should show that the model is GDPR compliant and that the exposure of the LLM to

without it being necessary for them to tak collective offer will be held jointly and seve of a collective offer, the offer must therefe each economic operator participating in themselves. The offer must indicate either each of its elements, by each of the opera contract as a whole or in that of its various. What is the expected format for both the proposal and the team members' CVs? Are there specific formatting, content, or presentation guidelines that we should adhere to? Could you provide additional details on how the quality of the proposal will be evaluated? For example, are there specific methodologies or approaches that are particularly valued? Given the potential use of multiple research methods, are there specific constraints we should account for, such as timeline, budget, team size, or other limitations? Is proficiency in French a mandatory requirement for the team, or will fluency in English suffice? Will there be government personnel available to support us with knowledge of the existing infrastructure? If so, could you outline their anticipated level of involvement or availability throughout the project? Is collaboration with external partners, such as university labs or high-performance computing providers, encouraged, or is it restricted to the internal research team?	is beneficial together at projet start. A regular follow-up meeting is expected, at minima on a bis of the ministry and CTIE. where they have come together in the form of a temporary association, may participate
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each of its elements, by each of the operar	e on a specific legal form. However, groups of economic operators submitting a erally liable for the execution of the contract should their offer be selected. In the event bre be accompanied by a declaration of joint and several liability, dated and signed by he consortium, in which the economic operators designate a representative from among the proportion assumed in the performance of the contract, and, where applicable, in tors, or the proportional contribution made by each of them in the performance of the selements. A consortium bid must also fully respect competition law.
Does the Ministry envision a single, versatile LLM capable of adapting to various use cases easily, or are multiple specialized Both could be a solution and the study shi	ould help us decide on which configuration is best.
models preferred to address specific use cases?	ed at this stage, the differences in accuracy between the different models that will be
should all languages be treated with equal priority across models? evaluated should be included in the study	results. The model(s) should cover at minima FR, EN, DE and LU.
Will the LLM infrastructure be designed to serve all Luxembourgish government institutions, only the Ministry of Digitalization, or the general Luxembourgish population?	tions that opt to utilise it.
Are there specific requirements or preferences for the computation platform, such as cloud-based solutions with preferred providers, on-premises options, EU-based geo-redundancy for data centers, or a preference for local providers versus hyperscale platforms?	are listed under the "integration" paragraph of the project specifications document.
Is there an existing framework for prioritizing use cases, or should we develop and propose a prioritization methodology?	n methodology.
Image generation) involved?	at this stage. It is mainly about text-based content.
Will benchmarking be conducted in-house, using publicly available benchmarks, or through a combination of both? If runnig the experiments falls within our scope, are we be provided with the infrastructure, or should we arrange and cover the associated costs? No, this should be part of the study and the associated costs?	ne responsibility of the chosen economic operator.
Beyond the described deliverables, is there an expectation for us to provide reproducible scripts for benchmarking? No	
evaluation, or will this be left to our discretion?	ne assignment of the chosen economic operator.
Should the environmental impact, such as energy consumption for hosting and maintaining the LLM, be factored into the proposal, and if so, to what extent?	
Energy consumption should be factored in Pouvez-vous confirmer que l'offre puisse être rédigée au choix en Français ou en Anglais? Oui	the TCO.
Quel niveau d'implication est attendu de l'équipe du Ministère de la Digitalisation pendant le projet ? Participant consultatif lors de l'étude.	
Avez-vous des milestones déjà identifiés qu'il faudrait prendre en compte pendant la réalisation de l'étude? Non	TVA
Avez-vous des contraintes budgétaires ou des seuils maximaux à prendre en compte lors de la formulation de la proposition? L'offre doit être inférieure à 79.000€ hors Y-a-t-il une structure particulière à respecter lors de la formulation de la proposition? Non, voir les réponses ci-dessus.	TVA.
Concernant le plan d'implémentation à définir pendant l'étude, y-a-t-il des contraintes additionnelles à prendre en	
considération pendant la réalisation de l'étude et dans ce cas faut-il prévoir des ateliers spécifiques pour identifier et collecter Non, voir les réponses ci-dessus. ces exigences. Si oui, quels seraient les acteurs additionnels à prendre en compte (CTIE)?	
Au niveau des cas d'utilisation, quel sera le niveau de détail de l'enquête auprès des acteurs publics? Est-ce qu'il est	nonyme
Sounaitable que ces acteurs public et/ou le ministère soient impliquees pour affiner ces besoins si nécessaire? Des données existe-elles nour effectuer le henchmark des LI Ms et dans ce radre res données controllelle transférables vers	
l'opérateur économique? Avez-vous des exigences particulière sur ce type de transfert de données? Could the Ministry of Digitalization specify a minimum number of LLMs that the study conducted by the economic operator	
No, not at this stage. This can be an eleme To establish a realistic pricing structure under the requested fixed-price service contract, could the minimum number of use	ent of the offer, indicating a reasonable number of LLM to be evaluated.
cases to be considered for the study be indicated? As specified in the project specifications to	ne maximum number of use cases is 8 and we did not define a minimum number.
For this evaluation, will the Ministry of Digitalization be responsible for initiating potential exchanges or providing information with relevant stakeholders in this field in Luxembourg?	olders will be a shared responsibility.
With regard to the cost estimation, will the Ministry of Digitalization be responsible for determining the number of potential users and other assumptions to consider, or should this be the responsibility of the economic operator?	e same metrics to be able to compare the costs of each model. The number of potential
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The project specification states that the "Analysis of survey results and prioritization of different use cases" should be	sens continues the honor marking of different 1 1 4 4 4 4 - d-1 d 4 4 d 14 ' ' ' ' ' ' ' ' '
The project specification states that the "Analysis of survey results and prioritization of different use cases" should be included. Can you confirm that the objective is to identify all the use cases submitted by the public sector organization and establish criteria for their prioritization? Yes, please be aware that the main goal of different use cases identified in the survey establish criteria for their prioritization?	f the study is the benchmarking of different LLM Models and not the prioritization of the r.
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Could you please confirm that it is possible to participate in this tender procedure as a consortium of different organisations?

Groups of economic operators, including where they have come together in the form of a temporary association, may participate without it being necessary for them to take on a specific legal form. However, groups of economic operators submitting a collective offer will be held jointly and severally liable for the execution of the contract should their offer be selected. In the event of a collective offer, the offer must therefore be accompanied by a declaration of joint and several liability, dated and signed by each economic operator participating in the consortium, in which the economic operators designate a representative from among themselves. The offer must indicate either the proportion assumed in the performance of the contract, and, where applicable, in each of its elements, by each of the operators, or the proportional contribution made by each of them in the performance of the contract as a whole or in that of its various elements. A consortium bid must also fully respect competition law.