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SERVICE PROVIDER QUOTATIONS

Project: Data Visualization Platform for Kosovo Mosaic

Pristhina, Kosovo
October 12, 2015

To: Mr. Besim Ilazi, PRGC Team Coordinator

Dear Sir:

We, the undersigned, hereby offer to render the following services to UNDP in conformity with the requirements defined in the RFP dated *[specify date]*, and all of its attachments, as well as the provisions of the UNDP General Contract Terms and Conditions:

A. Qualifications of the Service Provider

Assemblio L.L.C. is the private sister organization of Open Data Kosovo, an NGO that advocates for open data in Kosovo through digital skill development workshops and by developing engaging online data analysis and visualization solutions with local data. Members of the Assemblio L.L.C. team are the same engineers who provide not-for-profit pro-bono work under Open Data Kosovo.

Assemblio L.L.C.'s service provision is a means of supporting Open Data Kosovo's activities and projects and, as such, Assemblio L.L.C. is specialized in working with data and data visualization. Over the course of numerous projects in advocating for open data and extracting insight and information from raw complex datasets, Assemblio L.L.C. has cumulated expertise in abstracting data in a manner that goes beyond providing dynamic analytical toolkits and focused around user-driven design for the average non-technical user. This has been most notable in four digital products that Assemblio L.L.C.'s engineers have developed through its vocation in the field of open data:

Data driven story telling (i.e. data journalism) that has produced interactive data visualizations for Kosovo exports (Figure 1) as well as gender disaggregated labour force (Figure 2):

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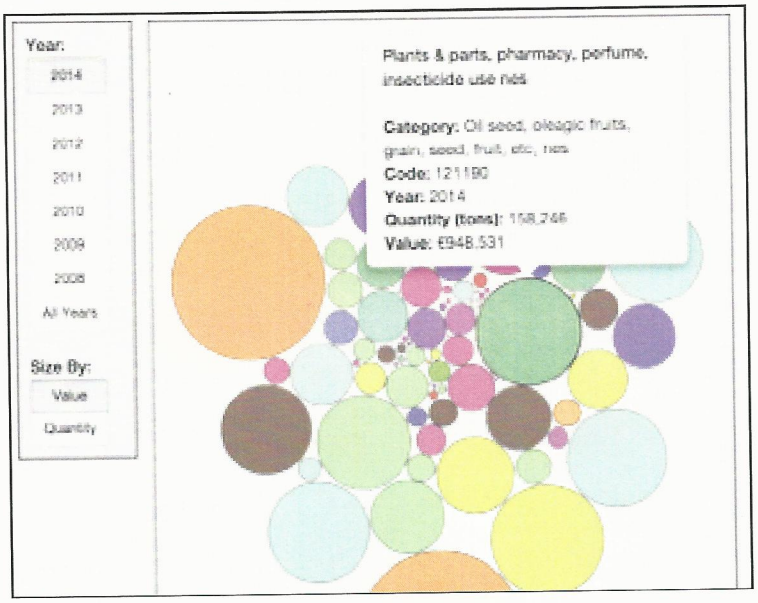

Figure 1: Kosovo Exports Data Visualization.
http://opendatakosovo.github.io/exports-visualization/

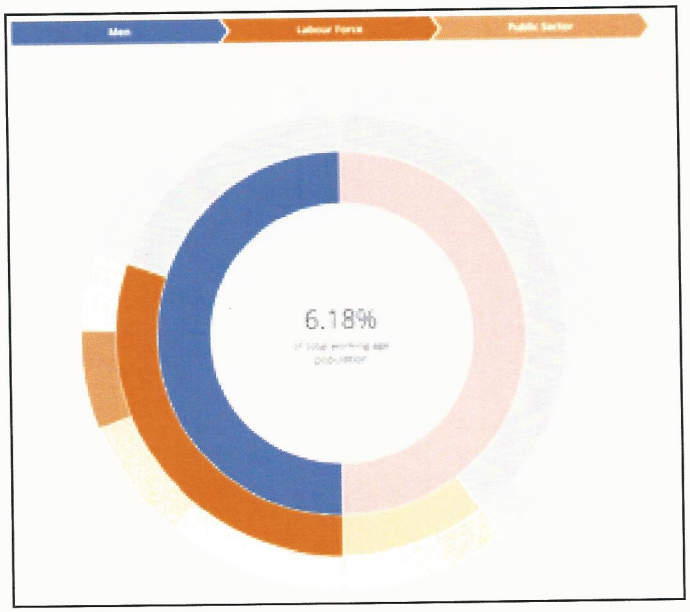

Figure 2: Kosovo Labour Force Data Visualization
http://opendatakosovo.github.io/kosovo-labour-market-sunburst/

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Assemblio L.L.C. and Open Data Kosovo's expertise has been notice abroad where demand for comprehensive data visualization has resulted in partnerships with organizations in Croatia (the engine room), Bangladesh (UNDP), Czech Republic (kohovolit.eu), and Serbia (CRTA).

For CRTA, a municipality revenue and expenditure visualization platform was developed with particular emphasis on representing the scale of data beyond incomprehensible currency figures and use a bubble system from which users may better appreciate the varying degrees of expenses and revenues between municipalities (see Figure 3)

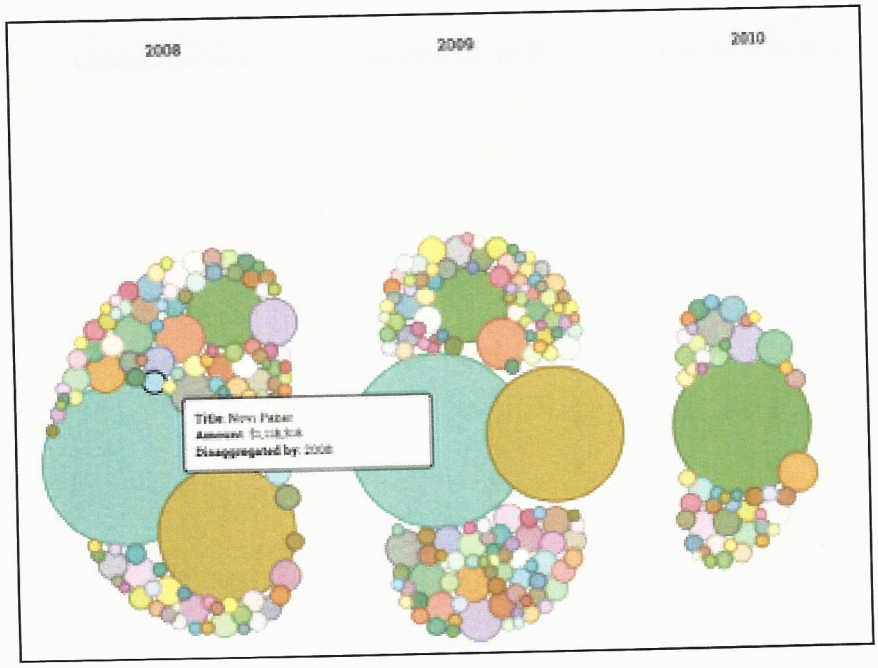

Figure 3: Serbian municipality expenditure comparative data visualization desegregated by years.
http://FiskalniMonitor.rs
http://budzet.info

Finally, submitted with this quotation you will find a digital copy of the business registration certificate and a list of similar implemented projects with their duration, value, and contact reference. You will also find a Self-Declaration that the company is not in the UN Security Council 1267/1989 List, UN Procurement Division List, or Other UN Ineligibility List.

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B. Proposed Methodology for the Completion of Services

The proposed solution will be implemented using best practices in hosting, accessing, and disseminated data for re-use, portability, and scalability.

The data visualization will be implemented in a portable manner using free and open source technology so that its sustainability is independent from licensing costs and proprietary web hosting applications. The selected technologies are: Python, MongoDB, jQuery, and Jekyll. Source code will be hosting through a third party source code hosting service in which the client will be given full privilege access

The end product will reference bulk access to re-usable datasets in open formats which Assemblio L.L.C. will have prepared based on provided raw data.

Data integrity will be verified through implementation of automated test cases and rigorous user acceptance tests. Similarly, the end-product will be subject to user and client acceptance tests prior to green lighting final version deployment.

Growth of the visualization's dataset will be supported in a scalable and sustainable manner by providing the client with administrative access to the system that will facilitate addition of new datasets from future surveys. The ability to add new datasets will be made possible at no additional cost with the condition that there are no considerable changes in the survey's data structure.

The project will be managed using transparent Agile methodologies, emphasizing rapid deployments and continuous feedback-driven development.

In terms of the visualization itself, Assemblio L.L.C. proposes three possible approaches from which user and client feedback will determine which approach will be implemented. Maximum abstraction of data towards allowing the user and appreciation of non analytical comparative analysis will favor the implementation of either Floating Bubble visualization (Figure 1 and 3) or a Sunburst visualization (Figure 2). However, should the users and client prefer a more analytics inclined approach, we will recommend the implementation of a Radar Chart visualization. An example implementation of a Radio Chart visualization can be seen in Figure 4:

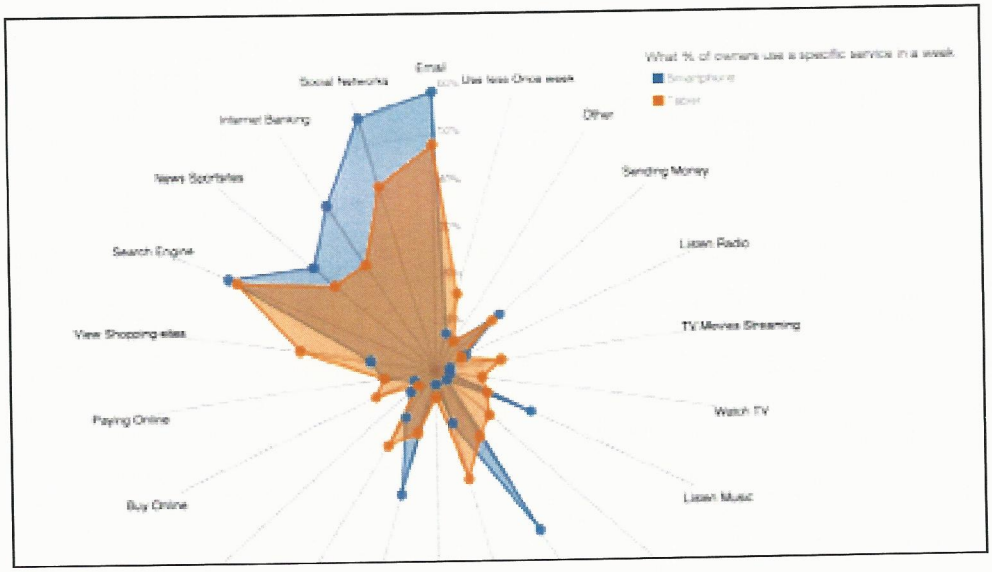

Figure 4: Example implementation of a Radio Chart visualization

The developed visualization will be documented with instructions on how to embed it using iframe, with emphasis in minimal parameter requirements of iframe settings in order to ensure a standard quality of user experience. In order to ensure that the visualization is embeddable on any web platform, it will be developed independently from the back-end data provisioning system which will be hosted as RESTful API able to satisfy the requests of multiple instances of the visualization, wherever they may be embedded. Should the size of the data be minimal and not require the implementation of a back-end data provisioning system, the data will be integrated with the visualization so that it is also embedded.

Assemblio L.L.C. will support hosting costs and infrastructural maintenance for a full year following the product's production deployment date. Assemblio L.L.C. will put special emphasis on designing a system that requires minimal recurring hosting cost so that after this one year period hosting costs will not surpass 15 EUR/month hosting fee (180 EUR per year).

Assemblio L.L.C. will provide hosting under either the assemblio.com or opendatakosovo.org domain. However, should the client prefer a custom domain, or one

they already own, then Assemblio L.L.C. undertakes the responsibility to assist the client in transferring domains and will assist the client in understanding any related recurring costs to acquiring a new domain.

C. Qualifications of Key Personnel

Submitted with this quotation are the CVs and details of relevant experiences for Egzontina Krasniqi, Lead Software Engineer, and Endrit Bytyqi, Software Engineer, who will serve as key personnel for the project's implementation.

Also included are confirmation from each that they will be available for the entire duration of the contract.

D. Cost Breakdown per Deliverable*

	Deliverables *[list them as referred to in the RFP]*	**Percentage of Total Price** *(Weight for payment)*	**Price** *(Lump Sum, All Inclusive)*
1	Initial consultation with UNDP and the Kosovo Mosaic 2015 Working Group	2.44	120
2	Preparation of concepts	7.32	360
3	Preparation of draft designs	29.27	1,440
4	Feedback incorporation	24.4	1,200
5	Testing of the data visualization platform	4.88	240
6	Presentation of the data visualizer to the Kosovo Mosaic 2015 Working Group	2.43	120
7	Incorporation of the final inputs and final draft delivery	29.26	1,440
	Total	100	4920

Please note that all costs for the completion of the assignment, such as for example human resource or operational costs (staff time/salaries, rents, etc) should be distributed accordingly within the costs offered for the three budget categories as presented in the table above.

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E. Cost Breakdown by Cost Component:

Description of Activity	Remuneration per Unit of Time	Total Period of Engagement	No. of Personnel	Total Rate
I. Personnel Services from Home Office				
a. Data Analysis	15 EUR per hour	148 hours	1	2,220 EUR
b. Software Engineering	15 EUR per hour	180 hours	1	2,700 EUR

Georges L. J. Labrèche
Chief Executive Officer
October 12, 2015