



MUHA



## T2.2.2. PARTNER-SPECIFIC PILOT ACTION DOCUMENTATION

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## 1. Introduction

The present deliverable refers to the work report regarding the management actions examined in the pilot action of DEYAL (PP11), description of conducted activities and identified solutions for case-specific adaptations of improved resilience concepts for drinking water supply. The present deliverable refers to the actions until the end of August 2021.

DEYAL joined the consortium in early January 2021. The pilot action of DEYAL involves the development and operation of an integrated information system for the improvement of the Water Safety Planning Mechanism for the water supply system of DEYAL. In this context and under the MUHA project, DEYAL will contribute by reporting the problems faced and the measures taken to face them, providing guidance towards the improved multi-hazard management of the water supply system. Finally, the pilot action will be able to provide the utility's experience to implement the water safety plan, from theory to practice. It will also provide lessons learnt to other water utilities of how to implement an improved water safety plan, to avoid any gaps or weaknesses. Finally, it will be able to contribute to WPT3 with important inputs from the experience of the pilot action.

## 2. Short Description of the planned expenses

The expenses related to the WPT2 Pilot actions for DEYAL are 154,921.00€. Except of staff and office and administration expenses, the budget comprises of external expertise and services expenses, which are a major part of the total budget (73.9%) and equipment (7.74%). The external expertise expenses refer to the elaboration of the Water Safety Plan (WSP) for the water supply network of DEYAL. The Water Safety Plan will be developed according to the World Health Organization guidelines and the guidelines provided by the General Secretariat for Natural Environment and Water (former Special Secretariat for Water) from the Ministry of Environment and Energy. The WSP will be developed as a study and the budget for it is 114,508.00€. It will be supported by an information system (software) with a budget of 12,000.00€. The information system will assist the water utility operators to monitor and implement the water safety plan, providing at the same time an improved water safety planning mechanism.

Budget line	Sub-budget line	WP T2 - Pilot actions
Staff Costs		25,830.00
Office and administration		2,583.00
Travel and accommodation		0.00
External expertise & services		114,508.00
Equipment	general equipment	0.00
Equipment	technical equipment	12,000.00
<b>SUM</b>		<b>154,921.00</b>



### 3. Activities and expenses implemented so far

DEYAL prepared all the tendering documents for the procurement of the external expertise, according to the national rules. The tender was published on 3/3/2021 at the budget of 114,506.71€. After both the technical and economic evaluation, there is a temporary contractor. The financial offer is 33,120.00€ (71.08% discount). Until mid-September the contractor will sign the contract with DEYAL.

In September 2021, DEYAL will implement the tender process for the software. It is expected that the software will be supplied to the utility by the end of September, and it will be ready for the contractor to use it.

As the subsidy contract is not yet signed, the launch of the tenders for recruitment for staff was delayed. The tenders were launched on 30/8/2021 and the deadline for submission of applications and supporting documents is on 14/9/2021. Two tenders are launched for staff. The first one refers to an expert who will support DEYAL in the implementation of all work packages. The second one refers to an expert who will support DEYAL in the implementation of the WPT2 and WPT3. It is expected that the staff will have contracts until the end of September 2021. The staff will support DEYAL in the elaboration of the pilot action and specifically the pilot action cluster reports in the 4 MUHA hazards, the evaluation report for each pilot action, the evaluation on the efficiency and the effectiveness of the pilot action, the elaboration of the table-top exercises and their results. Also, the staff will monitor the elaboration of the WSP by the contractor and identify any problems or barriers, determine the lessons learnt, etc.

There are no expenses done so far for the pilot action.

### 4. Plan for the upcoming period

In the upcoming period the contractor will implement the WSP according to the WHO guidelines and based on the contract. The steps that the contractor will follow are:

- Elaboration of the WSP team;
- Description of all the stages of the water supply system of DEYAL;
- Identification of all possible hazards for water safety at any stage of the water supply and assessment of the risk;
- Identification and assessment of the existing control measures for the confrontation of the risks;
- Update of the WSP;
- Monitoring of the control measures;
- Assessment of the WSP efficiency;
- Revision of the WSP.

The contractor will follow the following timetable for the elaboration of the WSP:

- Phase one: registration of the existing status and preparation of the implementation guide. Duration: 1 month.
- Phase two: application of the WSP. Duration: 10 months.
- Phase three: WSP evaluation. Duration: 2 months.

The information system will support the WSP implementation during all phases. It will be used by the contractor with the support of the staff recruited for the project. In detail, the software will include the infrastructure (water sources, treatment plants, distribution and



water supply networks) for each water supply zone, providing also their coordinates. At each zone, data related to hydrology, hydrogeology, climatic characteristics and human activities are identified and registered. A risk analysis is elaborated based on the hazard and the consequences following a risk assessment matrix. For each identified hazard, all measures to cope with it are identified. The software supports the determination of a monitoring system in the control points (identified in a previous step) along with the monitoring parameters. The software has the ability to present all the points affected by a potential hazard, allowing the user to choose the appropriate measure. The software is user-friendly.