


Good Practice in Waste Deposit in Heritage City Centres		
Nº.	Section	Description
0.	Title of the practice	<i>Underground Stations in Florence UNESCO Sites</i>
1.	Photograph	
2.	Proposers	Quadrifoglio Servizi Ambientali Area Fiorentina spa City of Florence
3.	Contacts	Dr. Giuseppe Ponzini, +393479656523, g.ponzini@quadrifoglio.org
4.	Useful links	www.quadrifoglio.org
5.	Start date	2008
6.	Activities' state of the art	Ongoing
7.	Location	Florence UNESCO Site
8.	Inhabitants in the area	377539 (Municipality); 53323 (UNESCO Site) - ca 9,000,000 tourists per year
9.	Description of the practice	<p><u>Origin:</u></p> <p>The problem of Florence is not the production of waste itself, but the concentration of production in spaces of reduced size and reduced usability, for the high pedestrian and vehicle attendance.</p> <p>In such a context, the adopted solution until the start of the new project was the use of road waste bins, intended for unsorted waste, "bells" in polyethylene for the "mixed materials" and door-to-door paper and cardboard. But over time this system has created problems, such as an aesthetic impact, decoration degradation and hygiene of the urban area or inefficiency in the performance of separate collection, in general.</p> <p><u>Development and Timescale:</u></p>

	<p>Current status and planning of underground stations in UNESCO Historical Center in June 2016: 42 stations made; 2 under construction; 4 approved to be achieved by the year 2016</p> <p><u>Actors involved:</u></p> <ul style="list-style-type: none"> • Quadrifoglio Servizi Ambientali Area Fiorentina spa • City of Florence • office of the City of Florence Historic Centre World Heritage UNESCO <p><u>Legal framework:</u></p> <p>Once accepted the requirements and guidance from the Service Conference, the final design is approved by the City Council (Mayor Committee of City of Florence – promoter) that approves the project. So, Quadrifoglio Spa (executor) can initiate the construction site for the realization of the underground station in the historical center of Florence.</p> <p><u>Financial framework:</u> self-financing and charge the fee of purpose collected by users</p> <p><u>Use degree: (%) or number of users (if possible):</u> 23922 domestic and 8865 non domestic users</p>		
10.	Results		
	<p><u>Proven results (through indicators):</u></p> <ul style="list-style-type: none"> • Separate Collection Ratio in Florence Historic Centre: 74% (59% in the UNESCO area) • Coverage of the historical centre: 60% • Instead of 400 dirt spots only 42 of them to clean <p><u>Possible success factors:</u></p> <p>Maintain the decorum and historic character of the city's architectural heritage</p> <p><u>Main difficulties encountered:</u></p> <p>Realization of urban infrastructure in complex contexts, delicate and hyper used</p>		
11.	<table border="1"> <tr> <td>Main lessons learnt from the practice</td> <td>refinement of authorization and Executive processes</td> </tr> </table>	Main lessons learnt from the practice	refinement of authorization and Executive processes
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12.	Additional information n/a		