

<b>ENAC-SIE, SIE Project, Fall 2017</b>	Start: 19/09/2017
4 ECTS credits	End: 22/12/2017 (approx.)

Title	<b>Mapping the Chamberonne drainage system</b>
Supervisors	Dott. Paolo Benettin, Prof. Andrea Rinaldo
Objective	Getting data on the urban drainage system to the Chamberonne river (Lausanne) and mapping it on a GIS to compute drainage areas.
Abstract	<p>The Chamberonne catchment is a small catchment which drains into the Lac Léman next to the city of Lausanne. The upper part of the catchment is relatively rural while the lower part is densely urbanized and includes a portion of EPFL and UNIL campuses. The ECHO laboratory currently operates several monitoring stations in different subcatchments of the Chamberonne river and needs to quantify the extent of the urban and agricultural drainage network. As the catchment spans over approximately 13 different municipalities in the Canton of Vaud, interaction with different administrations will be necessary.</p>
Task description	<ol style="list-style-type: none"> <li>1. obtain drainage data from local administrations (with the help of a technician)</li> <li>2. map the data and create new layers for the analyses</li> <li>3. compute drainage areas at the different outlets</li> </ol>
Required skills	<ul style="list-style-type: none"> <li>• basic GIS knowledge (simple managing, displaying and analyzing of geospatial data)</li> <li>• fluent french language (may need to interact with local administrations)</li> </ul>
Location	EPFL campus and Chamberonne catchment, Lausanne (CH)
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