

# INNOVATION CITIES:

INTERNATIONAL ACADEMIC CONTEST

Creation of a concept for a smart identification system

for the city of Yverdon-les-Bains

Imagine a city where vehicles, people, objects, infrastructures can communicate with each other. Imagine a city in which sensors collect information on flows, movements, environment, and redistribute them through innovative communication systems.

Yverdon-les-Bains announces the 2nd International Competition for Technological Innovation, open to all students of universities and schools of higher education in Europe.

Between tradition and innovation, the town of Yverdon-les-Bains goes to innovative urban transformation and controlled based on a historical framework structured by a freshwater system.

For city officials, the goal is to enhance and improve the consistency of certain morphological aspects of the City while contributing to the creation of conceptual models that fit into the current trend of development of "smart" cities .

Imagine mobility within a city, with information available "a la carte", "real time". The idea is to reveal different network flows, following the movements of vehicles or pedestrians, anonymously or participatory, to predict or infer behavioral characteristics related to mobility or accessibility, taking account of conditions indirectly related (weather, traffic, weekends, holidays, accidents).



## THIS IS THE FUTURE.

The contemporary city can become "smart" with new technologies designed to streamline the dialogue between the territory and its users, with an immaterial action, more or less invasive and most dynamic.

Digital technology, for example via the collective exchange of individual data, may help to encourage new sources of information and development of knowledge, useful to both managers of the city, as its population and its visitors. The flow of users of the city consist of fragmented and conflicting trajectories in time and space. For better orientation, the man needs urban artifacts that drive its movements. Digital signage can participate in the construction of urban flows, a system of information dissemination can totally

change the dynamics of a city. The idea is to create ways to exchange personalized, targeted and immediately updatable.

The signaling system must meet the needs of the town of Yverdon-les-Bains to improve:

- internal flows of the city, users, roads, canals: implementation of tools and media technologies and information, websites, applications for tablets and smartphones at different scales, panels information, etc..
- providing information on routes and elements to value, optimizing communication, redefining the actors: the use of sensors, smart phones, tablets, software or hardware, but also street furniture,

street paving, parks, public squares, monuments.

- the transition from mobility to accessibility: systems close to all users, whether familiar or not contemporary technologies
- the tourism offer in a context of great historical, cultural and landscape: the ability to communicate but also to connect these different elements to each other and to develop the characteristics of urban areas.

## THE CONTEST

### Art. 1 - Purpose of the competition

The International Competition of Innovative Technology for Smart Cities is to develop a concept and development of projects aimed at establishing a system of Signs "Smart" for the town of Yverdon-les-Bains

### Art. 2 - Developer Contest

The contest is organized by the Municipality of Yverdon les Bains,

The Secretariat is available to all requests for information (only in written form) to the email address [uni2012@yverdon-les-bains.ch](mailto:uni2012@yverdon-les-bains.ch) The date for submitting questions is 15 March 2012. Responses will be published on the website of the City - [www.yverdon-les-bains.ch](http://www.yverdon-les-bains.ch) - March 20, 2012.

### Art. 3 - Definition Contest

The competition is organized with the aim to develop a concept of system identification to be performed on innovative digital media and / or softwares using the tools (GPS or otherwise), allowing the dissemination of information (tourist, historical, sports facilities , themed tours ...) and including indications of management.

His planning should take into account the current master plan for mobility, the axes of the channels and Lake Neuchâtel. Particular attention should be paid to systems integration to the local environment: water, monuments, biodiversity, landscape, history, architecture and current events.

The project boundary is the city of Yverdon les Bains.

The courses used in the design phase need not be original, but can be based on existing publications or guides. Where appropriate, the indication of the sources is required.

Implementation costs must be estimated with the sums for all elements of the project implementation included.

### Art. 4 - Type of competition

The competition is organized in a single phase, participation is free, and form submissions are anonymous.

### Art. 5 - Conditions of Participation

Are invited to participate in this contest all students in all member countries of UNESCO (or EU), enrolled in an institute of higher learning recognized formally. Students must be enrolled at least in their sixth semester (end of the third year of the Bachelor).

Students will form teams of 3 to 5 students under the supervision of a teacher at their university to act as team leader.

Each institute can have multiple teams, and each teacher may be responsible for several teams from the same university.

Taking into account the particularly innovative theme of the competition, teams are strongly encouraged mixed and multidisciplinary.

#### Art. 6 - Registration

A file containing

- Files of the competition - see Article 8 of Regulation
- The registration form
- The digital copy of the identity papers of participants

should be sent by the teacher in charge of the team to the competition secretariat. The secretariat will communicate exclusively with the team leader.

#### Art. 7 - Incompatibilities

Are excluded from the competition:

- The members or alternate members of the jury, their spouses, parents of participating students and parents to the third degree as well as anyone who has an ongoing relationship or working together with its participants.
- The officers, directors, employees, consultants and employees of the town of Yverdon-les-Bains
- Those who participated in the preparation of tender documents and organizing the competition

#### Art. 8 - Rendering

Candidates who wish to participate must submit the following:

- Contextualization routes on the map (A3 size)
- Graphical representation of the signaling system on A3
- Descriptive report of the signaling system (characteristics of the materials in terms of ease of installation, durability, ease of maintenance and renewal or replacement of components) (1 page A4)
- Powerpoint presentation (downloadable template on the webpage of the contest)

To ensure anonymity, the files must not include any indication that identifies the team members or the school they come from, under penalty of exclusion.

#### Art. 9 - Details and registration requirements

Contest registration is required and must be made before 15 April 2012 to 12 by sending the application form at the following address:

The secretariat will verify the data and the possible exclusion of candidates who fail to comply with the requirements of this Regulation.

#### Art. 10 - Details and procedures for the

Participation in the competition is anonymous.

The presentation of the documentation must be made by sending a digital material by the teacher responsible for the group, after registration.

#### Art. 11 - Documents useful for project design

For the preparation of project proposals, the organization makes available on the contest site, the following documents:

- Appendix A - Scope of intervention;
- Appendix B - Bibliography on the town of Yverdon-les-Bains
- Appendix C - Plan of the town of Yverdon-les-Bains
- Appendix D - Display the intervention area on Google Earth;
- Appendix E - Registration Form.

#### Art. 12 - Jury

The selection committee, to examine and judge the projects and is composed of experts and professionals with specific expertise on the theme of the contest. The Jury President will be Mr. Daniel von Siebenthal, Mayor of the City of Yverdon les Bains

#### Art. 13 - Selection of the winning projects

Proposals will be evaluated by the Selection Committee using the following criteria:

- Integration of the project to the characteristics of the environment
- Visual impact and environmental
- Originality and innovation
- Access (to information by all population groups)
- Feasibility and scalability
- Multidisciplinary

#### Art. 14 - Price

After analyzing the records of the criteria in s. 13, the selection committee will identify the three winning projects. A report containing the motivations of the selection committee will be drafted.

#### Art. 15 - Working with projects

The three winning projects will be studies of the Summer 2012.

The town of Yverdon-les-Bains reserves the right to use these results to its own needs.

The project remains the intellectual property of the participating students, in accordance with the rules of intellectual property institutions they represent.

#### Art. 16 - Price

Winners will receive a scholarship for each member of the group, including team leaders, for participation in the Summer 2012. Included are:

- Travel will / return Yverdon-les-Bains (for a maximum of CHF 300. - Per person)
- Meals and lodging on site
- Miscellaneous

All entries will be exhibited in a virtual exhibition put on the website of the Municipality of Yverdon Les Bains

#### Art. 17 - Publication of the competition results

Contest winners will be notified by e-mail. This announcement will be sent to the team leader following the work of the selection committee. The competition results will also be available on the website of the town of Yverdon-les-Bains.

#### Art. 18 - Acceptance of the rules of the Competition

Participation in the competition implies full acceptance of this Regulation.

#### Art. 19 - Information on the processing of personal data

Privacy Policy Helvetic Confederation (ask Ms. Lacoste)