LE:NOTRE *Institute*
Linking landscape education, research and innovative practice

LE:NOTRE Landscape Forum: Zagreb 2019

Learning landscape – **Zagreb Futurescapes**

INTERNATIONAL STUDENT COMPETITION

View on the city of Zagreb with Sava River (photo by Goran Andlar)

The International Student Competition is part of the 8th Landscape Forum of the LE:NOTRE Institute. This event will be hosted by the School of Landscape Architecture, Department of Ornamental Plants, Landscape Architecture and Garden Art, Faculty of Agriculture, University of Zagreb from April 9 – 11, 2019.

1. GENERAL PRESENTATION

The LE:NOTRE Landscape Forum has worked on different focus areas so far, applied to relevant urban and peri-urban sites. For the 8th Landscape Forum in Zagreb the title and general approach of both the forum and the student competition will be **'Learning Landscape'**.

The forum will focus on how to enhance the green infrastructure of the city of Zagreb, the regeneration and transformation of post-industrial and other degraded landscapes, such as excavation pits and quarries, as part of a sustainable development of the city. Green infrastructure, therefore, as a strategically planned network of urban and peri-urban open spaces, brings ecological, economic and social benefits, contributes to the health and general quality of life of its citizens, recreational opportunities, supports the "green" economy and increases biodiversity. Recycling and transformation of neglected industrial areas is important for sustainable development of the city through its reintegration into public use and the green blue infrastructure of the city. Such a task can be considered as an integrative and democratic

way of learning, developing new methods and approaching spatial and landscape issues, based on international experience.

The aim is to develop a comprehensive and systematic approach to urban planning and addressing knowledge-based, new technologies and collaborative relationships between urban stakeholders, including cross-sectoral co-operation, academic community, local users and city offices, agencies and international experiences. With this approach, the academic community opens up to other spatial participants by sharing and disseminating their knowledge accumulated through numerous researches for the purpose of their actual application.

2. ORGANIZING COMMITTEE

- LE:NOTRE Institute and ECLAS: Dr.-Ing. Ellen Fetzer
- School of Landscape Architecture, Department of Ornamental Plants, Landscape Architecture and Garden Art, Faculty of Agriculture, University of Zagreb: Assist. Prof. Monika Kamenečki
- Local and international experts contributing to the context analysis of the competition area

3. AIM OF THE COMPETITION

The LE:NOTRE International Student Competition aims to support integrated and holistic approaches to the urban and peri-urban landscape through multidisciplinary student teams elaborating planning and design proposals at various scales.

The role of the urban periphery within a city's overall dynamic needs to be rethought. The periphery should recover its essence and identity and become reconnected to the city's spatial, social and cultural profile. Participating students will explore the peripheral landscape, question the complex processes in this specific landscape type, in relation to the city's context and dynamics.

The proposals should be developed around the following aspects. Participants are invited to interpret those and to set individual emphasizes:

- Sustainable visions for the relation of built tissue, open space and landscape elements
- Sustainable visions for the relation city – periphery and sprawl territories
- Proposals for improved connectivity at different scale levels
- Enhancement of ecological functions and ecosystem services
- Green and blue infrastructure elements based on a conceptual framework
- Sustainable traffic and mobility proposals
- Proposals for the sustainable development of tourism and leisure areas
- Visions for a better dialog between cultural heritage and dynamics of urban identities

Focus areas:

Taking the aspects mentioned above into account, we invite the competition participants to develop their concepts around one of the following themes. These topics are identical to the general structure of the landscape forum:

- **Urban growth and peri-urban sprawl**: Urban development is increasing pressure on the remaining open spaces. But on the other hand, an increase of new residential areas is raising the demand for public green.
- **Sustainable tourism and leisure:** Landscape transformation and regeneration through ecological tourism development, recreational potential needs to coexist with ecosystem needs
- **Heritage and identity:** Connection between different dynamics of landscape identities, the balance between regeneration and transformation of landscape
- **Rural fringe and productive landscape:** Multifunctional local foodscapes, integration of traditional and recreational agricultural areas
- **Landscape and economy:** Landscapes are constantly creating economic value, not only with regard to ecosystem services. Which new partnerships can foster the economic sustainability of multifunctional landscapes?
- **Landscape and democracy:** How can we make sure that everyone has equal access to landscape benefits and limited exposure to environmental risks?

4. THEME: BLUE CONNECTION

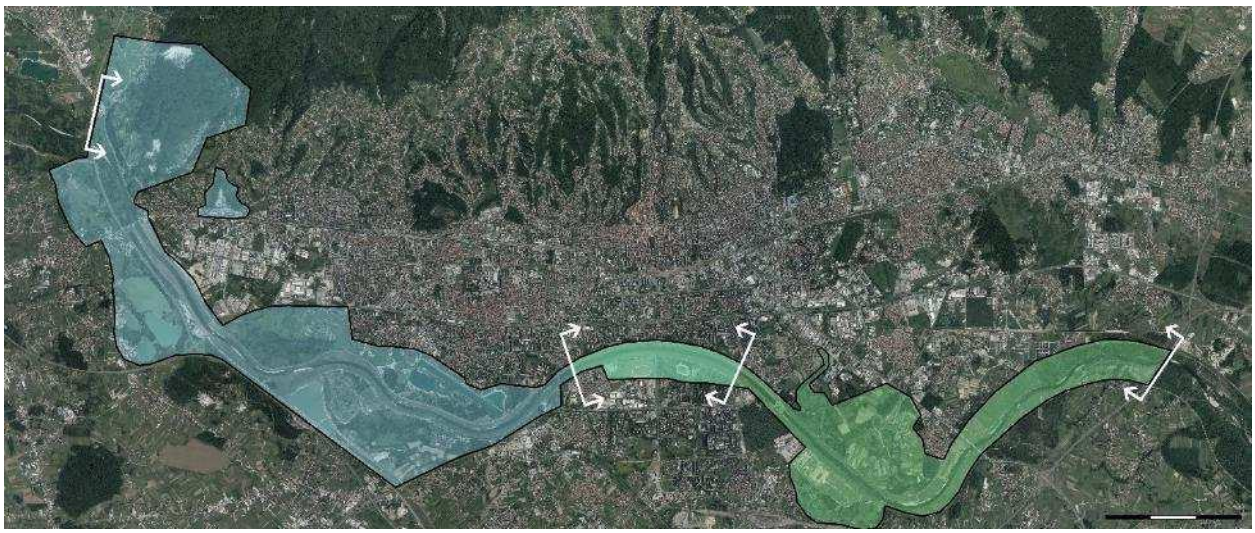


Fig. 1: Competition corridor (source: geoportal.dgu.hr)

The problems and challenges of regulating and designing the riverbed and the banks of the Sava River have been intriguing and open for some fifty years, sometimes provoking controversy and quite the opposing opinions. Therefore, its importance for the city's survival in terms of flood protection, water management and river hydropower potential is unquestionable, but it is far more uncertain as to its future use, how it connects with the rest of the city, the way of planning and landscape design of future urban and landscape features. In this sense, the space between

the two embankments of the Sava River is viewed either as developmental, or as an unused and unmanaged space potential for many other purposes, uses and arrangements. In contrast, protective aspects emphasize its existing values as a preserved semi-natural area, its cultural and historical significance, and as a space that is least burdened by light pollution and noise pollution in the urban structure, and should be preserved and edited in that light.

Therefore, although all current design visions for the Sava River unite the aspiration of connecting the northern and southern parts of the city, it separates them and contradicts the conflicting thinking between preserving the natural features of the area and the intensification and intensive use of the river and its shores. This competition is devoted to this problem with the aim of finding innovative solutions for the future blue and green infrastructure network of Zagreb.

4.1. Sava West

The landscape corridor (approximately 20 km long) between the west entrance to the City of Zagreb up to park Bundek (bridge 'Most Mladosti). The corridor includes one active and two closed quarries. Tw of them are inside the boundary of Nature Park Medvednica. The old cement factory is located east of this corridor but is part of the spatial design concept. Furthermore, along the landscape corridor on the right Sava embankment there are various elements: gravel pits and lakes that came to existence after excavation (lake Orešje and lake Rakitje), the retention canal Sava-Odra, the sports and recreation center 'Jarun', the derelict hospital complex 'Blato', the hippodrome and Park Bundek.

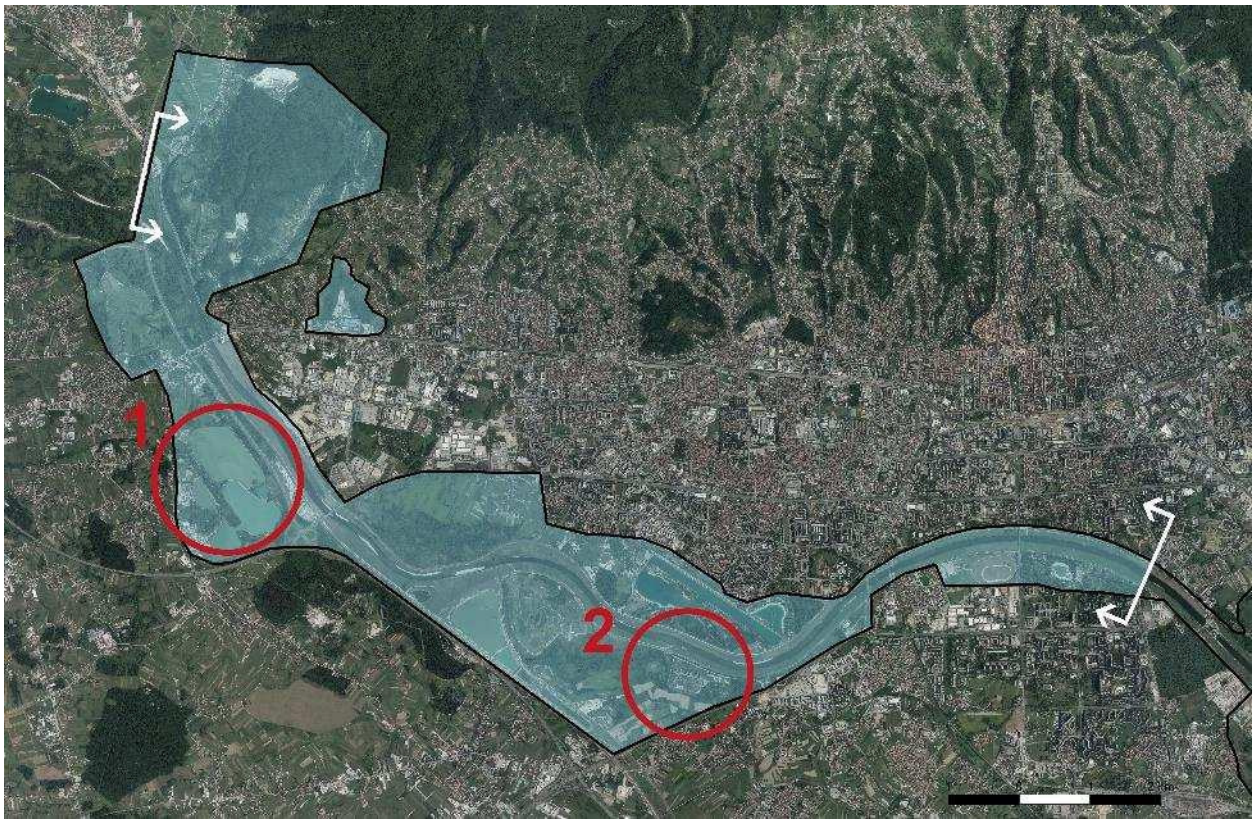


Fig. 2: Competition corridor Sava West with focus area 1 and 2 (source: geoportal.dgu.hr)

Sava West landscape corridor has many different topics requiring an integrated landscape concept:

- Analytical approach specifying the landscape corridor's general purpose
- Reconsideration of possible landscape corridor with its blue-green connection between Nature Park Medvednica and the Sava river
- Potentials of the closed quarries for sport and recreation
- Implementation of recreation and tourism on the lakes without disturbing the new ecosystem formed by natural succession
- Transformation of the old cement factory as distinctive heritage element and the strategies that will connect this area with the blue-green infrastructure of the city
- Connectivity inside the landscape corridor, innovative transport systems, locating variable form of mobility
- The role of hydropower energy in a future development scenario

4.2. Sava East

The landscape corridor (approximately 16 km long) between the bridge 'Jadranski most' up to bridge 'Ivanja Reka'. The corridor includes the hippodrome followed by Park Bundek, downstream on the right embankment there is the Municipal waste landfill Prudinec/Jakuševac and opposite on the left embankment there is a special zoological reserve ('Savica' ornithological reserve and lakes). From that point the embankments of the Sava river are connecting with the peri-urban landscape on the left (Zagreb east – Ivanja Reka) and rural landscape on the right embankment side (Velika Gorica county).

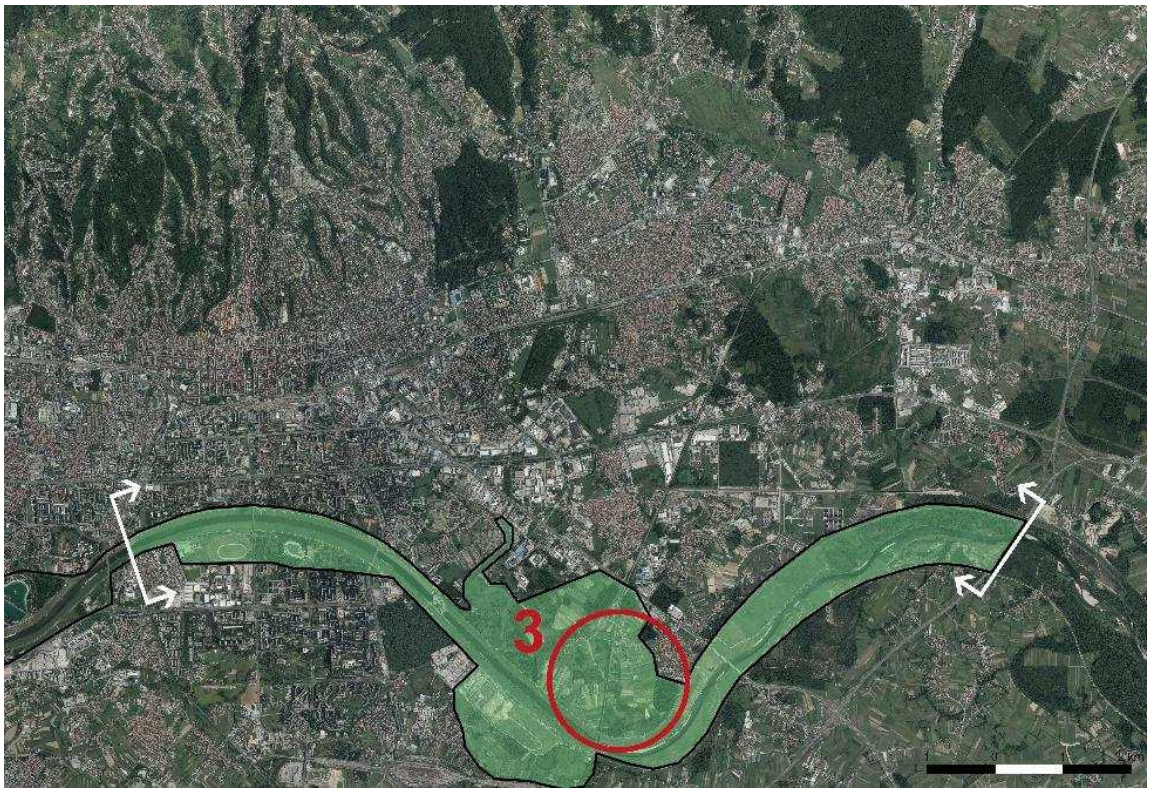


Fig. 3: Competition corridor Sava East with focus area 3 (source: geoportal.dgu.hr)

Sava East landscape corridor has many different topics requiring an integrated landscape concept:

- Analytical approach specifying the landscape corridor's general purpose
- Reconsideration of possible landscape connection between Sava River and the adjacent district Ivanja Reka/Sesvete
- Agricultural landscapes and local foodscapes, possibility of integration with the urban green infrastructure and its visual appearance
- Connectivity inside the landscape corridor, innovative transport systems, locating variable form of mobility
- Sustainable development and strengthening nature protection strategies of the area with special interest (zoological reserve, drinking water well area Črnkovec)

5. ASSIGNMENT

Participants are asked to elaborate the following contents:

A. Landscape Analysis

Feel free to work at various scales using a mix of analytical methods. The landscape corridor length is approximately 32 km long. Mixed-methods approach is encouraged so that combining scientific, creative and artistic methods will generate quality landscape potential scenario. The working and presentation scale is 1:50000.

B. Landscape Concept

The Landscape Concept should cover the area of the corridor highlighted in figure 1 and show the envisioned relationship of the corridor with the wider urban and peri-urban landscape of Zagreb.

Aspects to be covered:

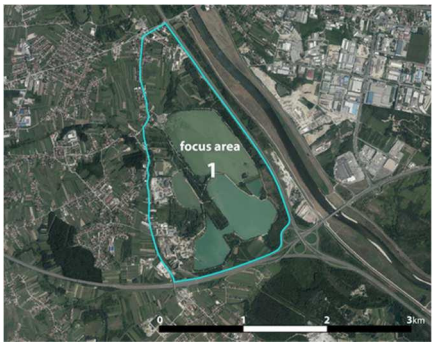
- landscape elements and their enhancement
- functional zones including natural areas and open space typologies, connectivity, sustainable traffic

Next landscape concept scale will include figure 2 or figure 3 corridor. The working presentation scale of the chosen corridor (Sava West or Sava East) is 1:25000 and it should be put under catchy title slogan, characterizing the specific approach. It can be combined with conceptual diagrams (i.e. spatial and functional layers, bird eye view sketches, historical analysis, perspective sketches, a process model how to implement the approach etc.). Explanatory notes should be short and concise. Text information will be provided on one A4 (see point D)

C. Spatial Test – Design

The contribution should show a spatial test-design for one of the three detailing areas (figure 2 include two detailing areas: Lake Rakitje or University hospital Blato, figure 3 includes detailing

area Petruševec). The working presentation scale should be 1:2500 for area of University hospital Blato, 1:5000 for area 'Lake Rakitje' and area Petruševec.



Focus area 1 – lake Rakitje

Focus area 2 – Blato

Focus area 3 - Petruševec

Aspects to be covered:

- spatial composition with built elements and open space typologies as well as potential areas for future developments
- additional information on functionality, traffic and connectivity provided with conceptual diagrams,
- clear conceptual approach to inclusiveness based on the stakeholder and target groups analysis
- visualizations (hand drawn or computer-based) and short explanatory notes.

The organizing committee is looking for reflexive and innovative approaches, giving value to the identity of the place and showing a strategy for the project's realization. The overall vision of the area needs to be visible in analysis, concept, planning and design.

D. Written project – description

The overall concept and rationale of the project has to be explained in a short text on one A4 page.

6. REGISTRATION

The full set of background documents and plans is accessible after online registration. Registered participants will receive a neutral login ID which will also be used for submitting the proposals in an anonymous way. This ID needs to be shown on all submitted posters.

Please register under the following link:
https://lnicollab.landscape-portal.org/goto.php?target=cat_132&client_id=main

7. PARTICIPANTS

The competition is open to students and recent graduates of landscape-related disciplines, in particular landscape architecture/planning, urban/regional planning and architecture as well as related disciplines such as arts, geography, agricultural sciences, dendrology, economics,

environmental psychology, forestry, hydrology and water management, IT, archaeology, ecology, social anthropology, sociology or tourism. Levels of study may be bachelor, master or PhD.

Both individual and group submissions will be accepted. Each student or group is allowed only one entry. The maximum group size is limited to eight contributors. Interdisciplinary submissions are welcome. However, the design should still focus on the configuration of the landscape, so consultation from and cooperation with landscape related disciplines is very important.

8. QUESTIONS AND ANSWERS

The organising committee recommends visiting the site in period from 21st until 26st of October. The site visits are self-organised. A first information and feedback colloquium will be held on Thursday, 25th of October, 1pm at Faculty of Agriculture, Svetošimunska ulica 25, 10000 Zagreb, building IV. A second colloquium in the form of a web conference will be held on November 21st, 2018, at 5pm CET. Registered participants will be able to submit questions for the colloquium in advance. In addition, registered participants will have access to an online forum for ongoing questions and answers.

9. AWARDS

The LE:NOTRE Institute will award three prizes and select another three submissions for being honorably mentioned. The award winners will get the possibility to present their project at the LE:NOTRE landscape forum to a group of international professionals and local stakeholders.

10. SUBMISSION REQUIREMENTS

Poster size and format

The submitted project must comprise four (4) A1 posters (841mmx594mm), landscape format:

1. **Landscape Analysis**: Showing a based map a scale **1:50 000** with your analysis plus analytical diagrams/sketches (unscaled, according to your own approach)
2. **Landscape concept** (5.A), scale **1:25.000**, additional diagrams, analytical graphics, sketches or cross sections as necessary to illustrate the proposed concept.
3. **Test-design** for one of the chosen detailing areas (5.C), scale **1:2.500** for detailing area 2 (Blato), scale **1:5.000** for detailing areas 1 and 3 (lake Rakitje and Petruševec)
4. Free layout for additional visualizations according to individual decisions like diagrams and schemes, cross sections, models and 3D drawings, details and visualizations as necessary to illustrate the test-design proposed. Both hand-drawn and computer-based visualizations are welcome.

The submission format is PDF. The submission is only online and includes:

- 4 PDF files - 1 for each of the A1 posters
- 1 PDF file with the Project Description
- 1 PDF file with the Declaration Form

Individual PDF files should not exceed 60 MB, minimum resolution is 200 DPI.

It is the responsibility of the participants to guarantee that the final images and files are in the size and resolution adequate to their reading. The entrants must ensure that all images, photographs and other material taken from other sources are correctly accredited. All files must be completed in English. Registered participants will receive further information concerning the electronic submission.

Submission ID
Each participant or participating team will receive a unique and anonymous ID upon registration. This ID needs to be put into the top left corner of each submitted poster (size and format of ID: Arial, font 72). The posters must be numbered to be seen in the right order during the selection.

Written information
Entrants must also submit a brief description (250 words maximum) in a separate PDF file, identified only by the anonymous ID (DO NOT include the names of the students or the name of the university). This description must be a clear and concise text explaining the key aspects shown in the concept design proposal. The text is to be left aligned (left unjustified) and double spaced, in Arial, font 12.

Competition language
All submissions must be entirely in English, which is the official language of the LE:NOTRE Landscape Forum. Local names and specific conditions of each country may be included in the local language. This is to ensure that all material can be understood by the jury, who conduct their reviews in English.

11. ANONYMITY AND PROTOCOL

All plans are supposed to bear the anonymous ID number given to each registered participant in the top left corner (Arial, font 72).
The following naming convention applies to all submitted files: Your ID_1.pdf, Your ID_2.pdf etc.
An additional PDF file, with the complete declaration form must be included. This must be fully completed. The declaration form will be submitted separately from the project PDF files, and will only be consulted by the jury once the final deliberations are completed.

12. COMPETTITION RULES

Participation in the competition implies acceptance of the competition rules.

- Proposals received after the deadline (see pt. 15) will not be admitted.
- Presentations that do not include the author declaration form will not be admitted.
- Submissions shall only be accepted if submitted online in the way described above
- A selection of the works submitted will be shown in an exhibition during the 8th LE:NOTRE Landscape Forum 2019 in Zagreb and may be also exhibited elsewhere at the discretion of the Local Organizing Committee.
- The Local Organizing Committee retains the right of duplication or publication of any or all the material submitted to the competition, and there shall be no obligation whatsoever to the entrants, beyond acknowledging the authorship of the works exhibited or published.
- Submissions that have been published in any way prior to the notification of the jury final decision will not be considered.
- The jury shall preside over the competition and is the sole arbiter at all levels until the final awarding of prizes. All decisions of the jury are final.
- The winners of the prizes and honourable mentions shall be announced by the Chair of the 8th LE:NOTRE Landscape Forum 2019 in Zagreb, upon recommendation of the jury.
- All inquiries must be directed to the Competition organising committee. Please read carefully through the brief and instructions, as all required information should be contained there. Jury member are not to be addressed in any way in relation to the competition.
- Participants will need to submit a declaration confirming that competition data and background information will not be used for other purposes.

13. JURY MEMBERS

The competition jury will be composed of local and international experts in the field of landscape architecture, urban design and infrastructure planning and regional development:

- Professor Branka Aničić, landscape architect (Croatia)
- Robert Duić, landscape architect (Croatia)
- 2 further local/regional experts (N.N.)
- Maria Beatrice Andreucci (University La Sapienza, Rome)
- Juanjo Galan (Aalto University Helsinki)
- 2 further international experts (N.N.)

14. EVALUATION CRITERIA

The jury will evaluate your projects according to the following set of criteria. Please always check your project against these criteria during your work process:

Criteria	Details
The degree of connection of the proposed vision to the actual landscape context	The authors show that they have studied and analysed the characteristics of the Zagreb/ Sava landscape from various perspectives. They are aware of the specific spatial, ecological, social, cultural and economic factors. The analysis takes current trends, threats and challenges into account.
Methodological clarity and consistency	The step from analysis to concept development is clearly structured. Challenges, potentials and threats for the Zagreb/Sava landscape have been derived from the analysis in a logical and coherent way. Planning and design objectives have been on this basis and are clearly articulated.
Conceptual expression and clarity	The concept is clearly linked to the objectives derived from the landscape analysis and evaluation. The concept responds to the local landscape context.
Sustainability	The three pillars of sustainability are supported by the planning and design concept: • Social dimension • Environmental dimension • Economic dimension
Innovation and creativity	The authors demonstrate that they have worked with the local landscape context and added a new dimension of reflection, design and visioning to the urban landscape of Zagreb.
Visual communication	The posters are well readable. The authors have managed illustrate the complexity of the landscape and landscape-related processes in way that is understandable for other disciplines and stakeholders from different sectors. The authors succeed in integrating process models and holistic visions that build on the specific character and topography of the place.

15. SCHEDULE AND DEADLINES

Official start of the working period: October 8th, 2018

On site visit recommended: 22nd – 26th of October (43rd calendar week)

First information and feedback colloquium: Thursday, 25th of October, 1pm at Faculty of Agriculture, Svetošimunska ulica 25, 10000 Zagreb, building IV, lecture room IV/C, additional registration for this colloquium is necessary.

Please register for the on-site colloquium via this link:
https://ilias.hfwu.de/goto.php?target=svy_16314&client_id=hfwu

Online feedback colloquium:	November 21st, 2018, at 5pm CET
Latest registration date:	February 1st, 2019
Submission deadline:	February 10th, 2019, at midnight CET
Jury selection:	March 10th, 2019
Award Ceremony in Zagreb	April 12th, 2019

16. CONTACT INFORMATION

For more information about the 8th LE:NOTRE Landscape Forum Zagreb 2019 and participation at the student competition, please visit the website:

- http://forum.ln-institute.org
- http://forum.ln-institute.org/student-competition-llf-2019

Registration link:
https://lnicollab.landscape-portal.org/goto.php?target=cat_132&client_id=main

Basic maps and background materials will be accessible after registration.

Any further project communication will be possible for registered participants via an online forum.