



HEXAGON

GeoTechnology CAMP

Masaryk University Brno, 16th – 18th February 2021

Introduction

The GTC 2021 course will be focused on data visualization using the Luciad technology. The participants will learn how to explore, analyse, and present various types of spatio-temporal data (including 3D) and create the interactive web-based application with required GIS functionality.

Streaming

Microsoft Teams will be used for training live streaming, document sharing and discussion. You will get the invitation link by e-mail.

In case you have any connection problems please contact us so we can solve the situation asap. You can find the contact addresses bellow.

Lectors

CRAUWELS Tom

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ŠPAČEK Vladimír

Senior Presales Consultant, HEXAGON / Intergraph CS, Prague Czech Republic
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Tasks

As the main purpose of this course is to make an interesting data visualization application, we present to you several our datasets to use as the main source as well as suggested visualization. You can also choose to work on your own project.

Application examples:

- RUIAN data visualization
- Public transport – dynamic data visualization
- Web app publishing info about education institutions or healthcare in the region
- Regional government property - 3D visualizations of attributes (extrusion)
- Travel data – static data visualization, filtering and analysis
- Customized RIA sample

Datasets available for the tasks:

- Region's data from RUIAN
- POI of the region (CEDA)
- Any open data (ZÚ, ČSÚ, IZIS...)
- Sample data delivered with the Luciad RIA product

Basemaps

- regional WM(T)S
- ZÚ WM(T)S
- Openstreetmap

Prerequisites

Videos:

https://dev.luciad.com/portal/videos/?product=luciadria&search=&limit=16&offset=0&sort=creation_date&order=DESC

Documentation:

<https://dev.luciad.com/portal/productDocumentation/LuciadRIA/docs/documentationoverview.html>

- Section Core Concept
- Installation

Teams

Students will be divided into three teams, who will have 1,5 day to implement a chosen project. The resulting applications will be shown to a committee via on-line presentation.

Agenda

1st day **TUESDAY**

Luciad RIA seminar (training)

Time	Topic	Speaker
	Welcome, introduction	Petr Kubíček
09:00 – 10:30	Training <ul style="list-style-type: none">▪ Installation, dev setup▪ Display a map	Tom Crauwels
10:30 – 11:00	Break	
11:00 – 12:00	Training <ul style="list-style-type: none">▪ Loading raster data▪ Loading vector data▪ Painting and styling	Tom Crauwels
12:00 – 13:00	Lunch break	
13:00 – 14:30	Training <ul style="list-style-type: none">▪ Labeling▪ Editing objects	Tom Crauwels
14:30 – 15:00	Break	
15:00 – 16:00	Training <ul style="list-style-type: none">▪ Non-georeferenced view▪ Controlers▪ 3D data	Tom Crauwels
16:00 – 16:30	Discussion	

Local Technical Support = parallel will be open another MTeams room for troubleshoots managed by Jan Málek and Vladimír Špaček

2nd day **WEDNESDAY**

Teamworking on given tasks

Time	Topic	Speaker
08:00 – 09:00	Morning Session Short summary of previous day	Tom Crauwels Jan Málek, Vladimír Špaček
09:00 – 10:00	Task assignment	
10:00 – 12:00	Open chatting room for questions	Tom Crauwels, Jan Málek, Vladimír Špaček
12:00 – 13:00	Lunch break	
13:00 – 16:00	Open chatting room for questions	Tom Crauwels, Jan Málek, Vladimír Špaček

3rd day **THURSDAY**

Teamworking, presenting and evaluating

Time	Topic	Speaker
08:00 – 12:00	Morning Session Open chatting room for questions	Jan Málek, Vladimír Špaček
12:00 – 14:00	Lunch break	
15:00 – 15:30	Teamwork presentation Team A Evaluation	Jan Málek, Vladimír Špaček (Hexagon) Petr Kubíček (Masaryk University) Vladimír Klimeš (South Moravia Region)
15:30 – 16:00	Teamwork presentation Team B Evaluation	Jan Málek, Vladimír Špaček (Hexagon) Petr Kubíček (Masaryk University) Vladimír Klimeš (South Moravia Region)
16:00 – 16:30	Teamwork presentation Team C Evaluation	Jan Málek, Vladimír Špaček (Hexagon) Petr Kubíček (Masaryk University) Vladimír Klimeš (South Moravia Region)