

2013 ESRI Education GIS Conference

A GIS Course for Middle School Students in Albania

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Albanian Youth For Environmental Education - AYFEED
A Geographic Information Systems Workshop

A PROTOTYPE COURSE

<http://ayfeed.wordpress.com/>

larger context

- ❑ International k-12 curriculum in geospatial sciences and urban concepts
- ❑ CFCI / UNHABITAT(1996) & Geospatial Manifesto (2012)
- ❑ University of Georgia (US)
- ❑ National University of Palestine
- ❑ National University of Rwanda
- ❑ National University of Uganda
- ❑ EIS-Africa Foundation in South Africa
- ❑ UF program in Curitiba, Brazil
- ❑ Instituto Universitario de Tecnologia de Yaracuy, Venezuela
- ❑ MEDASSET Foundation in the UK and Greece

smaller context

- ❑ Shqipëri / Shqip
- ❑ Mountainous - 1/3 forests
- ❑ Coastline – 2/3 of boundary
- ❑ Independence 1912



- ❑ 1887 – first school in Albanian
- ❑ 1945 – 10% literacy
- ❑ 1957 – first University
- ❑ 2011 – 99% literacy/ many Univ.

project components

- ❑ Develop the course (syllabus, book-lessons, certificates, evaluations, data, projects, software, deployment)
- ❑ Plan and coordinate, logistics and set ups for its teaching
- ❑ Teach in Tirana, at the public middle school “Dëshmorët e Lirisë”
- ❑ Develop transnational / trans-organizational cross-discipline partnerships

partners in Albania

- ❑ Albanian-American foundation “Martin and Mirash Ivanaj”
- ❑ Albanian Ministry of Science and Education
- ❑ National Albanian American Council
- ❑ Regional Environmental Center for Central & Eastern Europe
- ❑ Albanian Minister of Technology and Innovation & MP
- ❑ United States ambassador in Albania

“social production” partners

- ❑ GISCorps
- ❑ GreenMapping system
- ❑ Mediterranean Association for the Protection of the Sea Turtles
- ❑ My Community, Our Earth
- ❑ ESRI's education team and resources
- ❑ “digital-earth.eu” - European geomeia in K-12

technological principles

- ❑ Use public domain GIS data and free (gratis) GIS software
- ❑ Use both online and off line resources
- ❑ Combine local and country data with regional and global data
- ❑ Integrate with other media forms
- ❑ Integrate with non-technology based activities
- ❑ Place all course products in the public domain

pedagogical principles

- ❑ Teach in English – but in local context
- ❑ Teach with GIS, rather than about GIS
- ❑ Create a mixed age classroom, rather than an age based cohort
- ❑ Create a networked classroom structure, rather than hierarchical
i.e. multiple teachers working as half-peers with students and in concert with one another

pedagogical principles

- ❑ Integrate concepts seamlessly across disciplines
- ❑ Connect student personal experience to the larger world
- ❑ Balance students' role as consumers of knowledge vs. producers of knowledge – collective creation of something new / authentic
- ❑ Introduce technology as a means for improving and for humanizing the surrounding world – not as a goal per se

example of a lesson

Each of the lessons and their accompanying data and projects can be downloaded from this page. Each lesson has been designed as “hands-on”, it has a timeline of 90 minutes, it is self-contained, and it is packaged into a zip file.

- Lesson 1 – Introducing Geographic Information Systems (GIS).
- Lesson 2 – Getting started with ArcGIS Explorer.
- Lesson 3 – GIS basics and concentration of world population.
- Lesson 4 – Ecoregions and threatened species.
- Lesson 5 – What happens to waste?
- Lesson 6 – My waste and the sea turtles.

[MEDASSET Greeting](#)

[Lesson six](#)

TI, SHQIPERI, ME JEP NDER, ME JEP EMRIN SHQIPETAR
N FRASHERI

FJALA EDUKON
SHEMBULLI UDHEHEC







DESHIRE + PUN...





Composing Tirana's Green Map (current and proposed by the children)





Tirana's Green Map



Group 3

Map Legend

GROUP 3



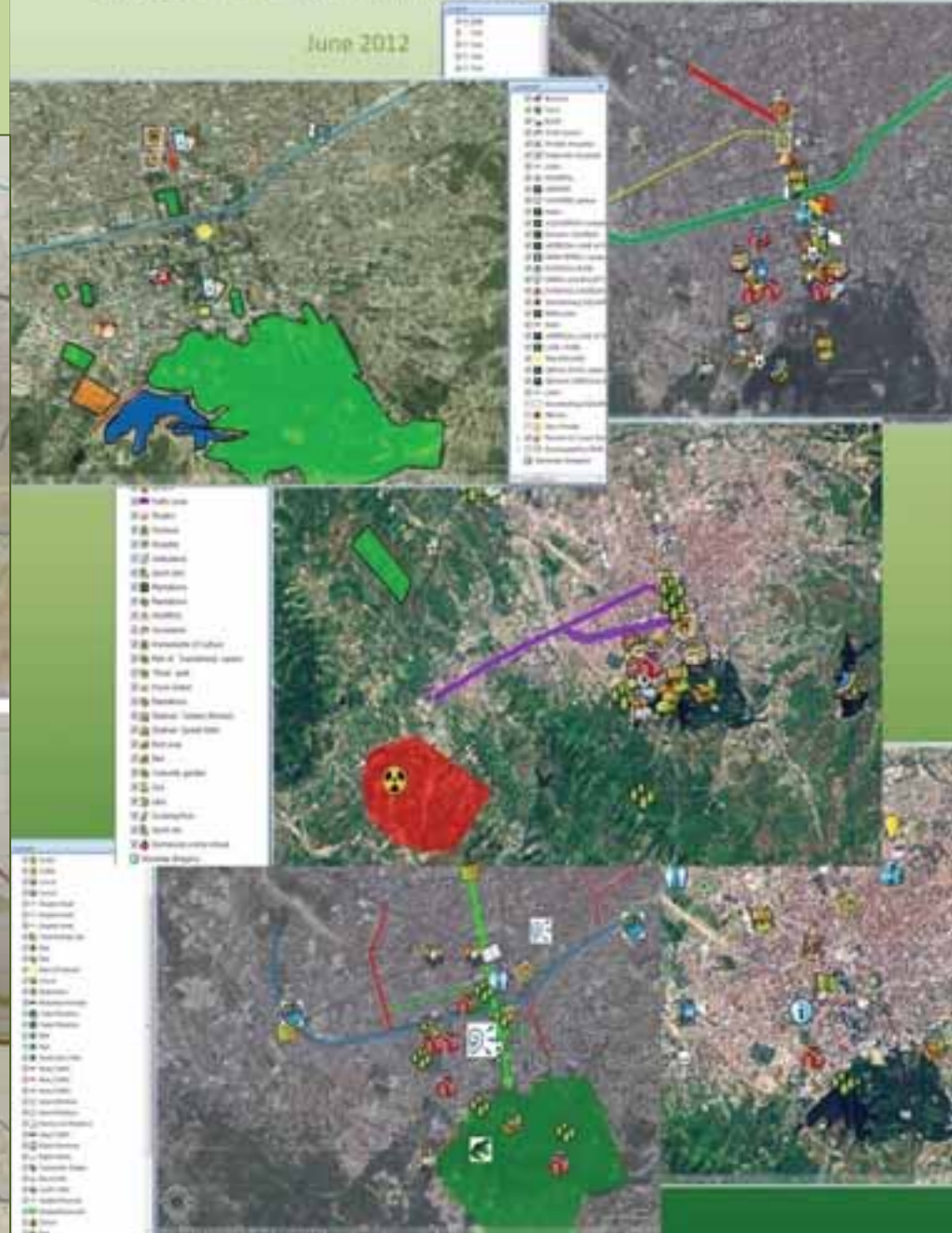
First Green Map for Tirana June 2012

The Green Map of Tirana
Harta e Gjelber e Tiranës
Created by The Albanian Youth
For Environmental Education
June 2012



The Green Map of Tirana – Harta e Gjelber e Tiranës Created by the Albanian Youth for Environmental Education

June 2012



A candid letter to the elected Mayor of Tirana



Daftar Isi

1. Pengertian dan definisi ...

2. Tujuan dan manfaat ...

3. Ruang lingkup ...

1.1.1. Pengertian ...

1.1.2. Tujuan dan manfaat ...

1.1.3. Ruang lingkup ...

1.2. Definisi ...

1.2.1. ...

1.2.2. ...

1.2.3. ...

1.2.4. ...

1.2.5. ...

1.2.6. ...

1.2.7. ...

1.2.8. ...

1.2.9. ...

1.2.10. ...

1.3. Kesimpulan ...

1.4. Daftar Pustaka ...

I nderuar zoti kryetar,

Ju shkruajme kete leter per t'ju kerkuar te merrni ne konsiderate kerkesen tone per te sensibilizuar opinionin publik te qytetareve te Tiranes per ceshtjen e mbrojtjes se ambientit.

Gjate javes qe lame pas(26qershor deri ne 29qershor),ne nxenesit e shkolles publike "DESHMORET E LIRISE" mesuam mbi programin kompjuterik ArcGIS Explorer Desktop.Ky program na ndihmoi te krijojme Harten e pare te Gjelber te Tiranes(Green map of Tirana),si me poshte:

Harta e Gjelber e Tiranes,e pergatitur nga ne gjate ketij kursi u publikua ne faqen zyrtare te organizates nderkombetare GREENMAP SYSTEMS me qender ne New York City.Keto harta mund t'i gjeni ne link-et me poshte:

- http://www.aaq.org/cs/mycoe/learning_resources/project_gallery/mycoe_projects_2012/first_green_map_for_tirana_albania
- <http://www.greenmap.org/greenhouse/en/user/3024>
- <http://www.greenmap.org/greenhouse/en/node/11816>
- <http://www.greenmap.org/greenhouse/en/node/11821>

Deshira jone eshte qe ju t'i publikoni keto link-e ne faqen zyrtare te Bashkise se Tiranes.Keto harta prezantojne Tiranen e sotme dhe ate te se ardhmes.

Lista e nxenesve:

Alesia Marku, Ani Kristo, Ebi Kristo, Ester Arapi, Fjona Kopani, Fulvio Papadhopulli, Glen Maranaku, Johan Muka, Kati Laska, Keni Mihaj, Ketrina Pashaj, Klarenc Hajderlli, Kliti Gramozi, Megi Afezolli, Oliger Cibaku, Rei Selimaj, Uendi Reka.

Me respekt ,nxenesit e shkolles 9-vjecare publike :“DESHMORET E LIRISE”.

Honorable Mayor,

We are writing this letter to ask for your consideration of our request towards raising public awareness for the citizens of Tirana regarding the protection of the environment.

During the past week (26 – 29 June), we the students of the public school “DËSHMORËT E LIRISË,” learned about the computer program ArcGIS Explorer. This program helped us develop the first Green Map for Tirana as shown in the inclusion.

The Green Map of Tirana that we prepared during this course was published on the web site of the global youth initiative “My Community, Our Earth” organized by the Association of American Geographers, and on the web site of the international organization GREENMAP SYSTEM headquartered in New York City. You can find these publications in the following links:

- http://www.aag.org/cs/mycoe/learning_resources/project_gallery/mycoe_projects_2012/first_green_map_for_tirana_albania
- <http://www.greenmap.org/greenhouse/en/user/3024>
- <http://www.greenmap.org/greenhouse/en/node/11816>
- <http://www.greenmap.org/greenhouse/en/node/11821>

It is our desire that you also publish our maps in the web site of the Municipality of Tirana. These maps show Tirana in the present, and our proposal for Tirana in the future.

List of students:

Alesia Marku, Ani Kristo, Ebi Kristo, Ester Arapi, Fjona Kopani, Fulvio Papadhopulli, Glen Maranaku, Johan Muka, Kati Laska, Keni Mihaj, Ketrina Pashaj, Klarenc Hajderlli, Kliti Gramozi, Megi Afezolli, Oliger Cibaku, Rei Selimaj, Uendi Reka.

Yesterday we developed a project that I liked it. ~~was~~
a lot of fun and we had good time here. I
liked yesterday was when we worked with
Map. :)

Yes I like the course. It was good to me.
but it was interesting. The project was interesting
things new. I want to learn more for GIS ex

I had a wonderful
yesterday. Everything was
It was good because
something new and it was
boring.

Hi!
I like this course very much! Why so? Because
I'm not staying home all day, I had fun, I
I improved my english, I learned about something
about. Also I'm learning so much beautiful things
animals and how can we help them. For me this
the most beautiful thing that happened in this
Thank you!

Yesterday this course was excellent. I learned so much about
and computers. I learned about endangered species, about Albania
so much more. In fact, I liked spending time with friends and
ArcGIS Explorer. This Friday, I know that I will be able to
like no one else. For me this course isn't just about computer
nature and I'm very happy for this. So, yesterday the course
and I'm happy that I decided to come here. I had fun, but

Ky kurs mua më pëlqeu shumë. Ajo qe më pëlqeu
më shumë ishte projekt që titullohet "my map
lesson 2." Ishte një projekt i bratshëm
për disa fëmijë që marrin pjesë në këtë
projekt.

I really like this idea and I had a great time yesterday
and I like the teachers too. They're very friendly with
us and they are polite too. I don't think that I
didn't enjoyed the course yesterday. In this course I
had a great time and I'm learning new stuffs
everyday.

I like this course very much because
we learn some interesting things that we didn't
know nothing about that before. The most beautiful
part of the course was when we create a map by
our self. We are having a lot of fun in this course



I like very much this course and I would like to ~~go~~
continue because we're having a lot of fun. One of
the things I like to do here is to create the
Green Map of Tirana.

I like this course very much because we learn some interesting things that we didn't know nothing about that before. The most beautiful part of the course was when we create a map by ourself. We are having a lot of fun in these course.

fun

create

afterthoughts

- ❑ In the age of the “network” and of instant global communication most of our efforts were spent in logistics and coordination.
- ❑ A big cultural and contemporary knowledge gap between the children and their teachers.

closing ceremony – 3 min clip