

FINDIK

Ayla KARA
Okan ÇOBAN
Atilla EYÜPOĞLU
Sinan DİRLİK

METU3D PROJECT

- Sponsored by Asst. Prof. Sinan KALKAN



OUTLINE

- Definition of the problem
- Our product
- Motivation
- Market Research
- Methods ,technologies, and devices
- Progress up to now
- Future works
- References



PROBLEM

- Lack of detailed modern map in 3D, which is a need nowadays, for METU.



OUR PRODUCT

- Simulator of METU Campus in 3D view using panoramic views.



MOTIVATION

- To open our project's development process for users and produce a lifelong project which can evolve in time.

Not like google street view or Yandex.

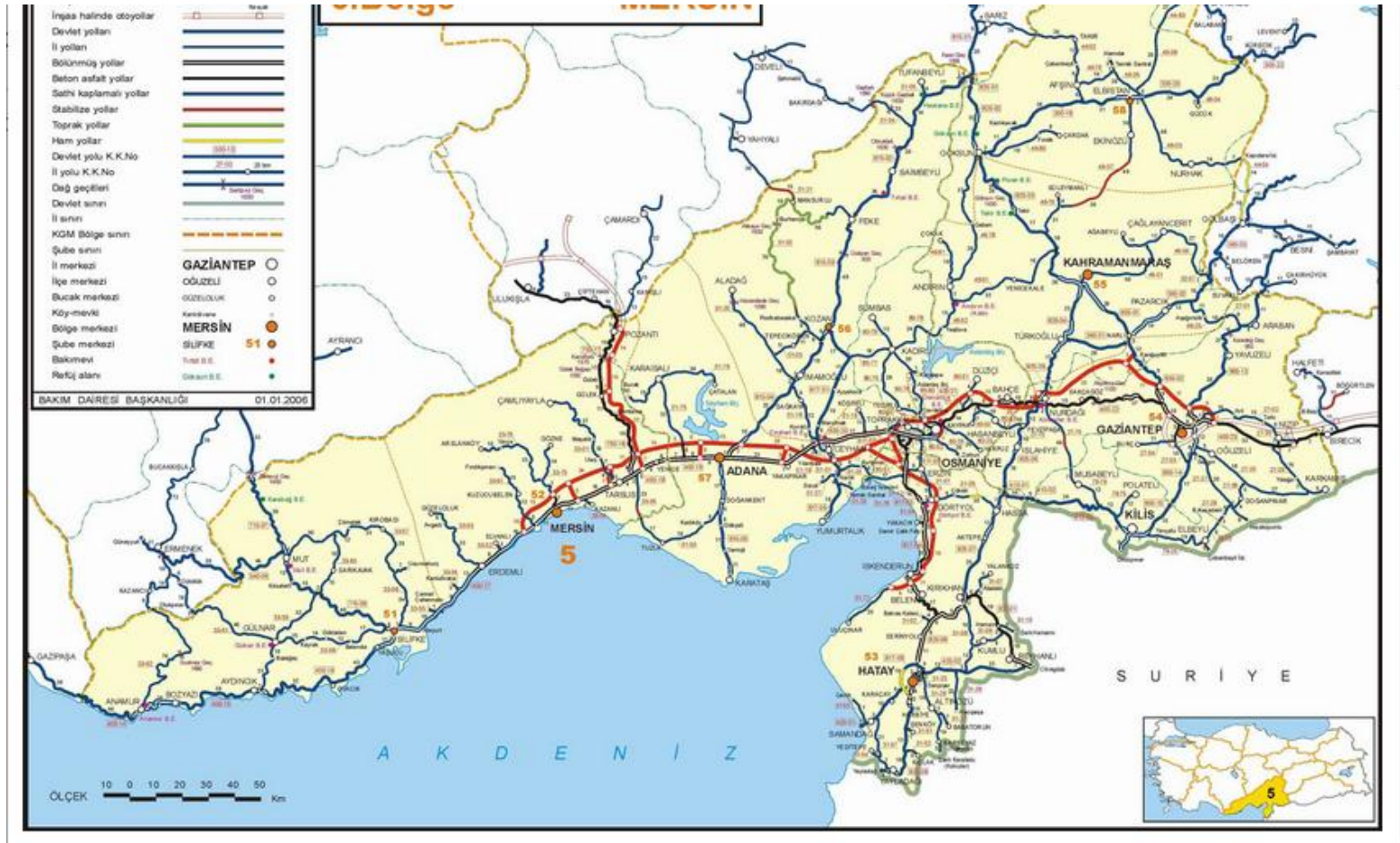


MARKET RESEARCH

- Some similars of our project are in use like Google Street View, Yandex or 360Cities.
- It makes life easier for users, because the simulated world can be reachable online which is cheap,easy and fast.



OLD MAPS



NEW MAPS



DETAILS OF PROJECT

- Methods ,technologies, and devices
- Progress up to now
- Future works



METHODS

- Preparing panoramic views
- Passing through views
- Enable uploading views or photos as user
- Enable Searching on Views with Tags



○ Demo WEBSITE !!!!!



AVAILABLE TOOLS FOR PANORAMIC VIEW

- Hugin
- Microsoft ICE (Image Composition Edit)
- PtViewerNG

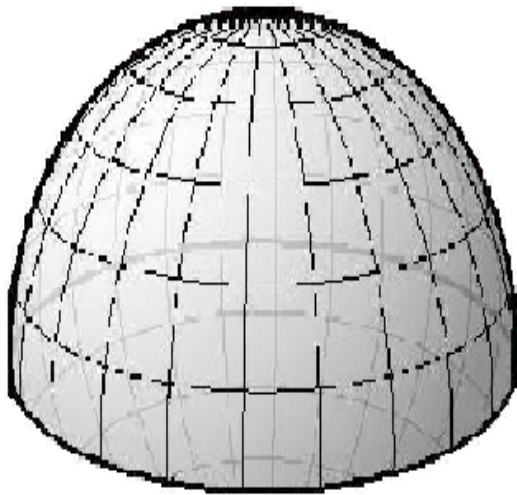


UPLOADED VIEW AND IMAGES

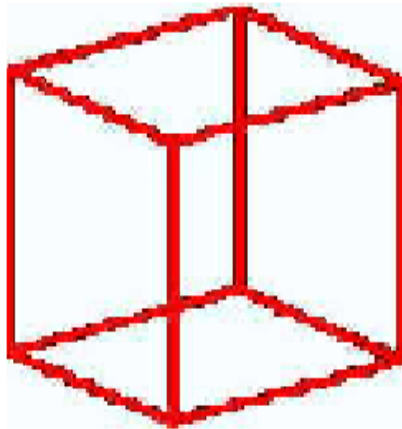
- Create Panoramic View with Uploaded Images
- Check and Add Uploaded Views on the Map according to GPS.



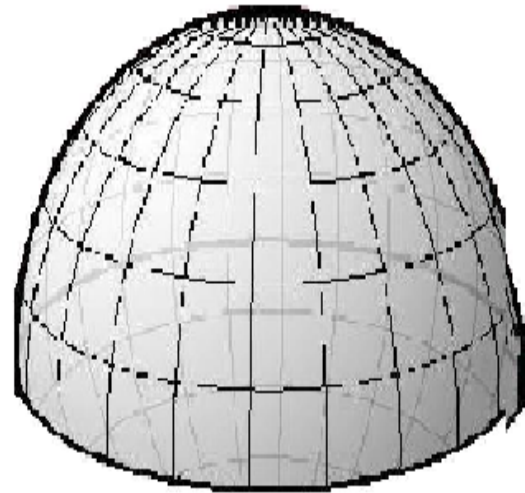
PASSING ALGORITHM



CURRENT VIEW



PASSING
PRISMA



NEXT VIEW



TECHNOLOGIES

- PHP
- JavaScript
- WebGL
- PTViewerNG
- MySQL
- METU Maps (Not Google API)



DEVICES

- Canon EOS 5D Mark 2
- View Range Up to 80 Degrees
- At least 8 photos with 180 degrees is needed.



TOOLS

- **Manfrotto 501HDV, 547BK Video Tripod System Kit**



PROGRESS UP TO NOW

- Final Design of The Project
- Experiments with Available Tools



- OUR EXPERIMENTS UNTIL NOW



REFERENCES

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- [5] Google Maps API , <http://code.google.com/intl/tr-TR/apis/maps/index.html>
- [6] MySQL , <http://en.wikipedia.org/wiki/MySQL>
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<http://www.eclipse.org/resources/resource.php?id=543>
- [8] PTViewerNG ,
<http://fieldofview.github.com/PTViewerNG/>



Thanks for Listening.



QUESTIONS?

