MSc Programme Geomatic Engineering

Interdisciplinary Project Work | AS2016

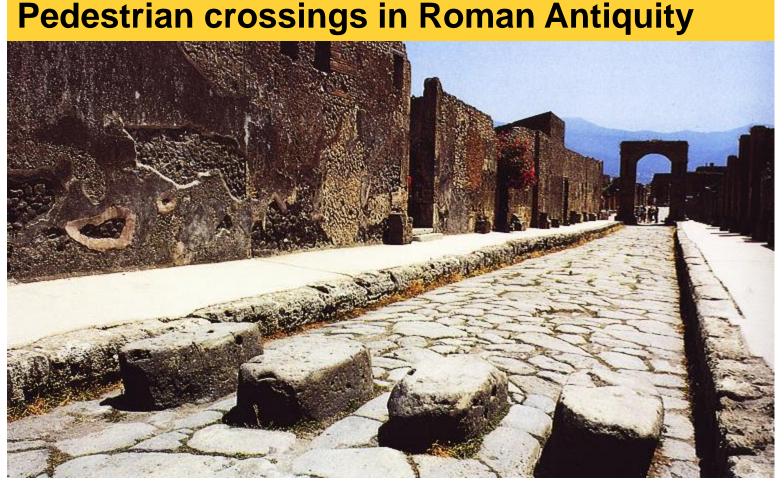
Web Cartography Tool for Road Safety |Pedestrian crossings in focus

Presenter:	DiplIng. Lagou, C.
Supervisors:	Prof. Dr. Hurni, L.
	Prof. Dr. Menéndez, M.
Advisors:	MSc. Gkonos, C.
	Dr. Sasidharan, L.









Pompeii, 2000 years ago Smith, S. 2000. Survey of Art History 1. Published at ysu.edu

Use

Stepping stones to protect pedestrians from dirt

Design takes care of

- Ease to step on
- Circulation of horse-drawn carts
- Drainage and sewage system

Web Cartography Tool for Road Safety | by Lagou, C.



Zurich, nowadays Urs-Peter Inderbitzin. 2016. Ratgeber: Zebrastreifen. Published at tcs.ch

Use

- Protect pedestrians from motorised traffic
- Give priority to pedestrians
- Concentrate pedestrian traffic

Web Cartography Tool for Road Safety | by Lagou, C.



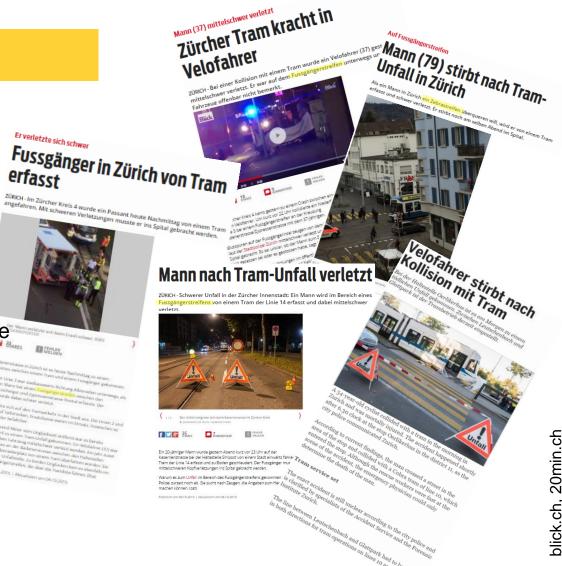
Let facts speak!

In Switzerland

- Fatalities increased by 4% between 2014 and 2015
 - Pedestrian fatalities increased by 35%
 - 1/3 of them were killed on pedestrian crossings ٠

In the City of Zurich

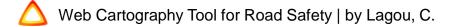
- Injury accidents increased by 10.9% between 2014 and 2015
 - Accidents involving pedestrians, bicyclists, e-bikers increased
 - 4 pedestrians, 1 bicyclist and 1 public transport user were ٠ killed in 2015
- Fatal accidents are still noted on pedestrians crossings in 2016



Pedestrians Killed on Pedestrian Crossings

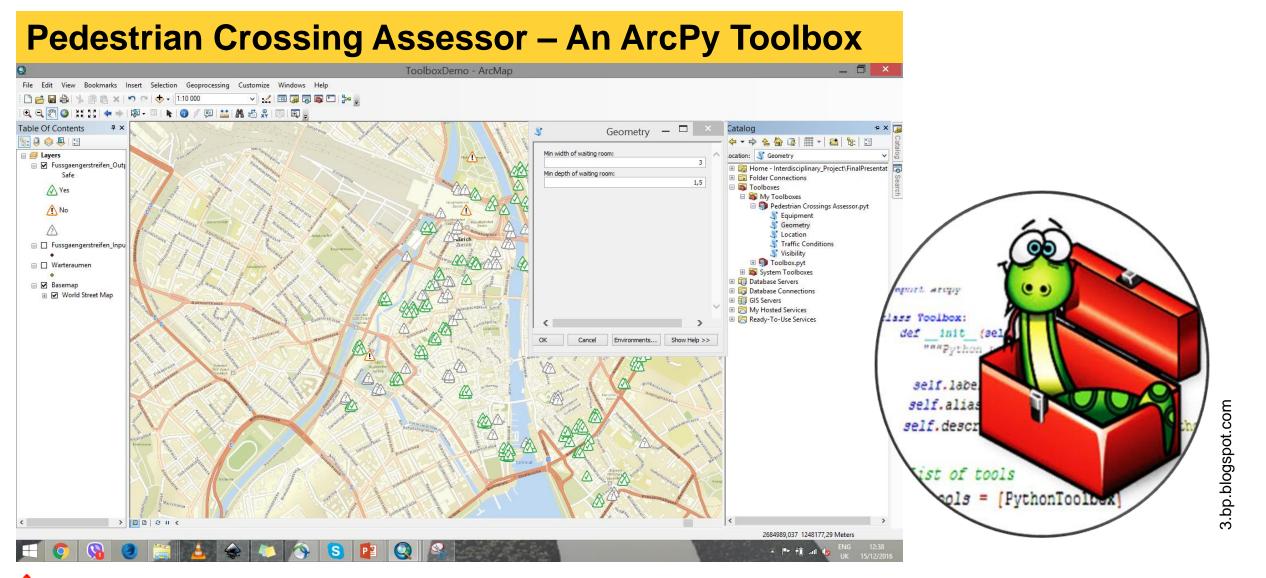
Sad and Oxymoron

What is the relation of this project with safety on pedestrian crossings?



What we are doing

- Sensibilised by the aforementioned road safety issue
- Within the spirit of the campaigns run by
 - The FEDRO | Road safety strategy, Via Sicura
 - The city of Zurich | Project for the assessment of pedestrian crossings, Zebra Safari
- Contribute towards safety of vulnerable road users
 - Examine pedestrian crossing and probably identify any insufficient ones
 - Implement rules described in SN 640241 (2016)
 - Develop web map application
 - Showcase the results of the present study
 - Serve as assisting tool for road authorities
 - Create website
 - Serve as information medium for general public



Web Cartography Tool for Road Safety | by Lagou, C.

Road Safety App | Pedestrian crossings in focus The website (EN)

Road Safety App |Pedestrian crossings in focus

Unfortunate events of the past





mposed by lagouc, in the context of the Interdisciplinary Project at ETHZ.

Road Safety App | Pedestrian crossings in focus The website (DE)



∧ verfasst von lagouc, im Rahmen des Interdisziplinären Projekts an der ETHZ

Road Safety App | Pedestrian crossings in focus

The web map application



Spatial Relation

between

Pedestrian Crossings and Blackspots?



Probably. More detailed analysis is required.

