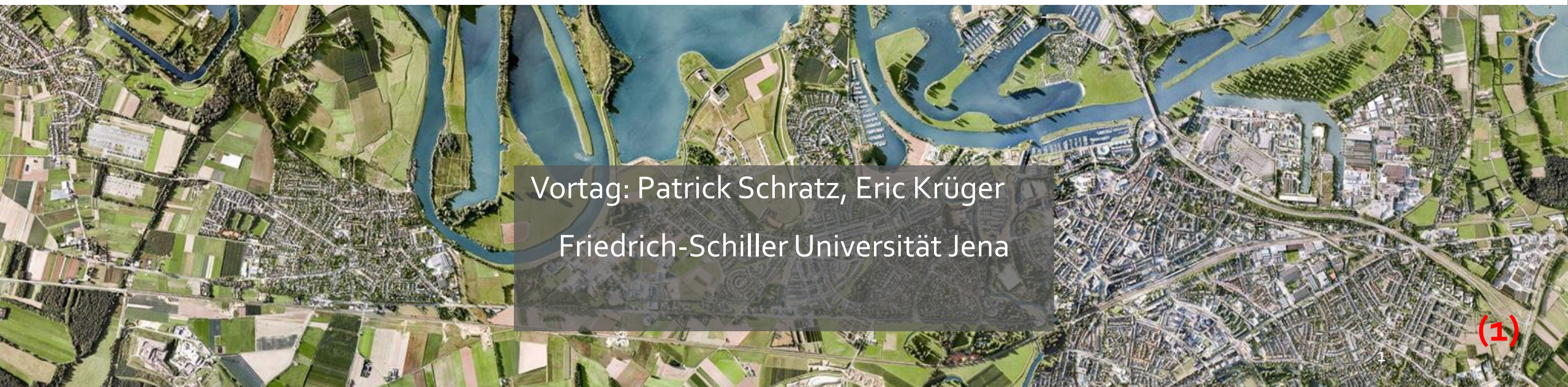




GEOHACKATHON: GIS FORUM 2018



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HIKER - KONTAKT

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HIKER - BASISFUNKTIONEN

The screenshot displays the hikerR web application interface. The left sidebar contains a 'Wetter' (Weather) section with a search bar for 'Jena' and various weather metrics: PartlyCloud, MIN/MAX - REGULAR 12.8 / 19.3, NO PRECIPITATION 0mm, WIND SPD. M/S 1.2, and HUMIDITY % 45.9. The main map area shows a route from Jena to Weimar, with various map controls and a 'Jena OpenData' toggle. The right sidebar features a 'Statistik' (Statistics) section with trip data, including performance (51.47 km), horizontal distance (46.78 km), vertical up (293.05 m), and vertical down (263.3 m). Below the statistics are three large boxes showing '325m Max. height', '165m Min. height', and '556m height difference'. At the bottom right, there is a 'Routing' section with options for 'Route by address', 'Routing providers' (cycle, ORS), and 'Download' (KML, Download).

Wetter

Search Region
Jena

WEATHER CONDITION
PartlyCloud

MIN/MAX - REGULAR
12.8 / 19.3

NO PRECIPITATION
0mm

WIND SPD. M/S
1.2

HUMIDITY %
45.9

Wetterwarnungen

Statistik

Trip data

performance Kilometer (km) 51.47

horizontal distance (km) 46.78

vertical up (m) 293.05

vertical down (m) 263.3

325m Max. height

165m Min. height

556m height difference

In reach Input

Routing

Route by address

Routing providers

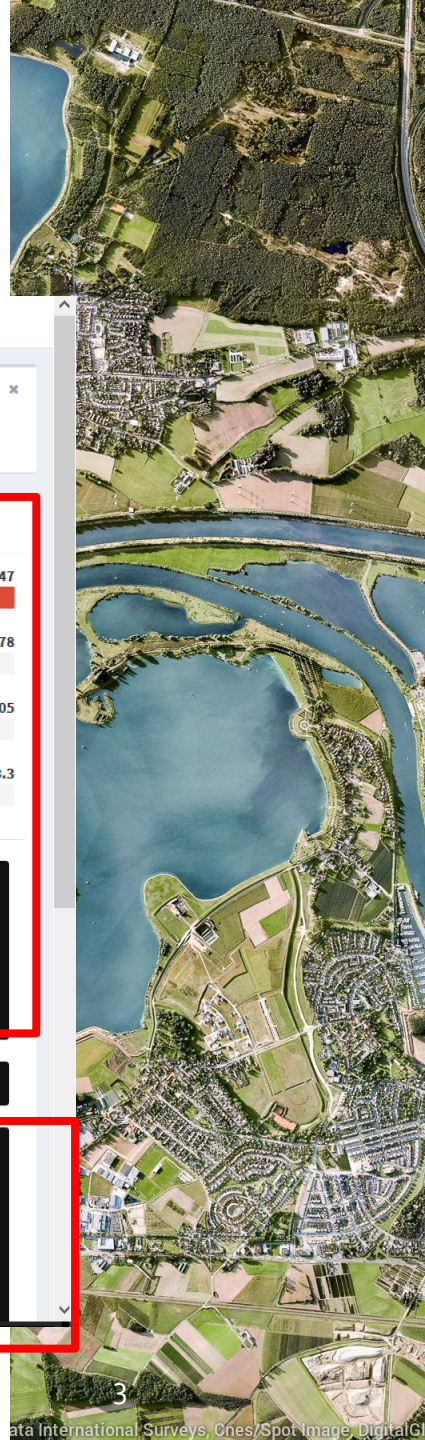
cycle ORS

Download

KML

Download

Wegfindung



HIKER – HACKATHON ERWEITERUNGEN

The screenshot displays the hikerR application interface. On the left, a sidebar contains weather information: 'PartlyCloud' with a temperature of 12.8 / 19.3, 'NO PRECIPITATION' at 0mm, 'WIND SPD. M/S' at 1.2, and 'HUMIDITY %' at 45.9. Below this is a 'Wetterwarnungen' (Weather warnings) toggle switch, which is highlighted with a red box. The main area features a map with a route from Jena to Weimar. A red box highlights the 'Jena OpenData' implementation section, which includes a search bar for 'Jena' and a toggle switch for 'Jena OpenData'. To the right of the map, a 'Trip data' panel shows performance metrics: 'performance Kilometer (km)' at 51.47 (100%), 'horizontal distance (km)' at 46.78 (91%), 'vertical up (m)' at 293.05 (53%), and 'vertical down (m)' at 263.3 (47%). Below this, a summary box displays '325m' Max. height, '165m' Min. height, and '556m' height difference. At the bottom, there are sections for 'In reach Input' with an 'open' button, 'Routing' with a 'Route by adress' toggle, 'Routing providers' with 'cycle' and 'ORS' options, and a 'Download' section with 'KML' and 'Download' buttons.

hikeR

Search Region

Jena

Jena OpenData

Jena

Jena OpenData Implementierung

Routing

In reach

Neumark

Apolda

Weimar

Jena

Bad Berka

Kranichfeld

Blankenhain

Kahla

performance Kilometer (km) 51.47 100%

horizontal distance (km) 46.78 91%

vertical up (m) 293.05 53%

vertical down (m) 263.3 47%

325m Max. height

165m Min. height

556m height difference

In reach Input open

Routing

Route by adress

Routing providers

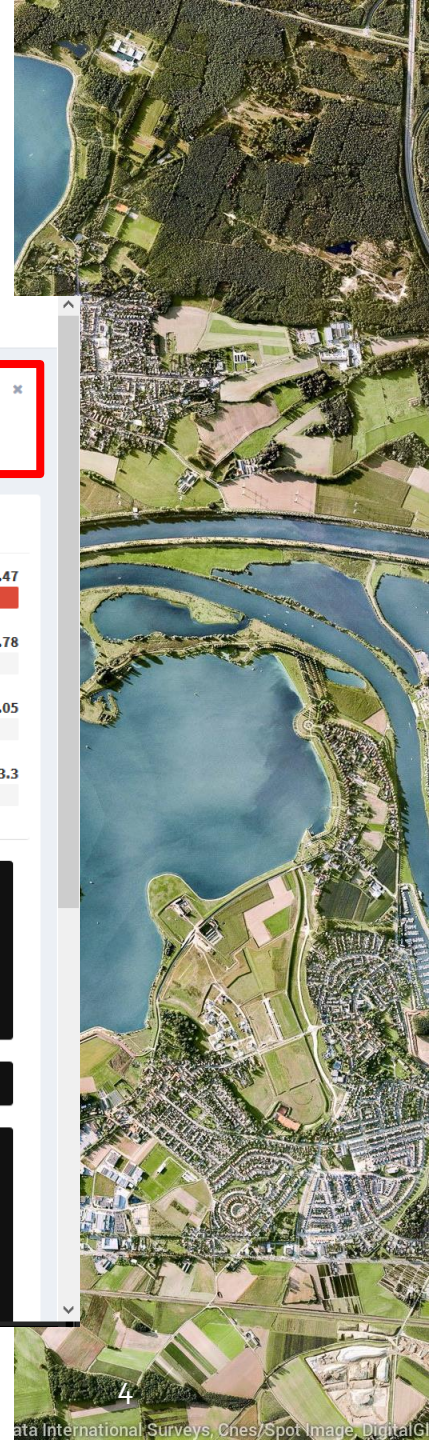
cycle ORS

Download

KML

Download

Routing style



LIVE DEMO

KLICK → [MCCOY.GEOGR.UNI-JENA.DE:3838/ERIC/HIKER](https://mccoy.geogr.uni-jena.de:3838/ERIC/HIKER)



AUSBLICK

```
warnungen = function() {  
  ogrListLayers("https://maps.dwd.de/geoserver/ows?service=wfs&version=2.0.0&request=GetCapabilities")  
  # ogrinfo(dsn, so=TRUE)  
  
  warnungen = st_read("WFS:https://maps.dwd.de/geoserver/ows?service=wfs&version=2.0.0&request=GetCapabilities",  
    layer = "dwd:Warnungen_Gemeinden", quiet = T) %>%  
    st_cast("GEOMETRYCOLLECTION") %>% st_collection_extract("POLYGON") %>%  
    dplyr::select(EVENT, DESCRIPTION, SENT, PARAMETERVALUE, WEB) %>%  
    dplyr::mutate(EVENT = as.factor(stringr::str_to_title(as.character(EVENT))))  
  return(warnungen)  
}  
#####  
[1] "dwd:RBSN_T2m" "dwd:Ceilometer" "dwd:E-PROFILE"  
[4] "dwd:Trajectories" "dwd:GAFOR_DE_neu" "dwd:Biowettergebiete"  
[7] "dwd:Biowettervorhersage" "dwd:Gewaesser" "dwd:RBSN_RR"  
[10] "dwd:NCEW_BORDERS" "dwd:NCEW_POLYGONS" "dwd:Pollenfluggebiete"  
[13] "dwd:Pollenflug_Ambrosia" "dwd:Pollenflug_Beifuss" "dwd:Pollenflug_Birke"  
[16] "dwd:Pollenflug_Erle" "dwd:Pollenflug_Esche" "dwd:Pollenflug_Graeser"  
[19] "dwd:Pollenflug_Hasel" "dwd:Pollenflug_Roggen" "dwd:Prob_sunny_days"  
[22] "dwd:EEVIEW_EERLINE" "dwd:EEVIEW_EERPOINT" "dwd:EEVIEW_EERPOL"  
[25] "dwd:RBSN_RH" "dwd:Warnggebiete_Gemeinden" "dwd:Warnggebiete_Kreise"  
[28] "dwd:Warnggebiete_See" "dwd:Warnggebiete_Binnenseen" "dwd:Warnggebiete_Kueste"  
[31] "dwd:Warnggebiete_Bundeslaender" "dwd:Warnungen_See" "dwd:Warnungen_Binnenseen"  
[34] "dwd:Warnungen_Kueste" "dwd:Warnungen_Gemeinden" "dwd:Warnungen_Gemeinden_vereinigt"  
[37] "dwd:Warnungen_Landkreise" "dwd:RBSN_FF" "dwd:RBSN_VPGB"
```



AUSBLICK

- Modular
- Grundfunktionen als Skelett
- Kombination von Open Source und OpenData
- www.mmcoy.geogr.uni-jena.de:3838/eric/hiker



Bildquelle:

(1) - <https://cloud.githubusercontent.com/assets/4129613/5349203/25ab1174-7ef4-11e4-96ea-3b928500e910.jpg>

