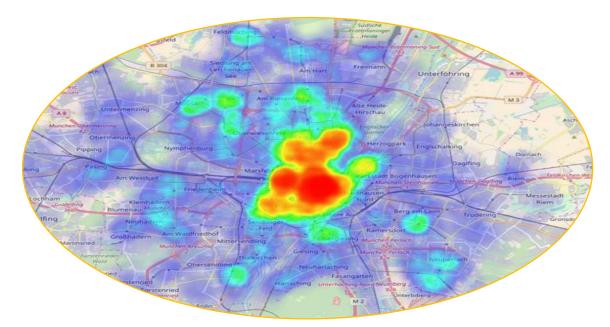


#### **User Guide for Visualization Web-Service**

2017.11.27



#### Index



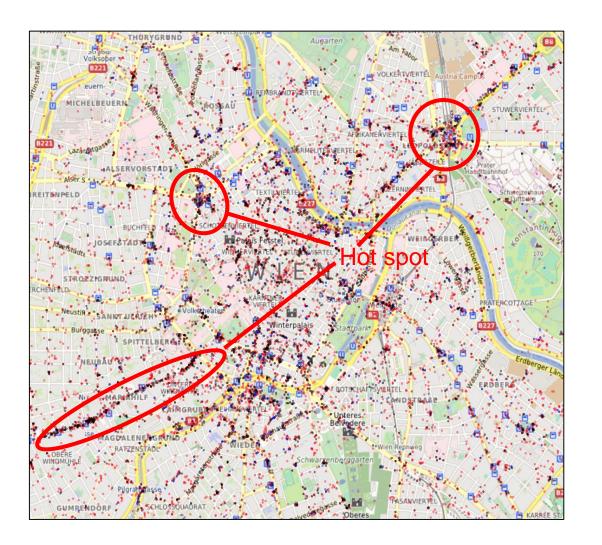
- Brief
- Geo-map introduction(web-service: <a href="http://13.229.85.131:3838/">http://13.229.85.131:3838/</a>)
  - BikeMapping-Current bike point
  - Heatmap-Start & End point
  - Trackpath-Tracking trips
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#### **Brief**



To become a data driven company like us, we collect diversity data, such as coordinate data and so on, but how can we get some valuable information from those data?

Visualizing them on map, we create a mapping web-service. Through bike-mapping map, heat map and Track path map. We not only can know the riding condition, but operate bikes easily.

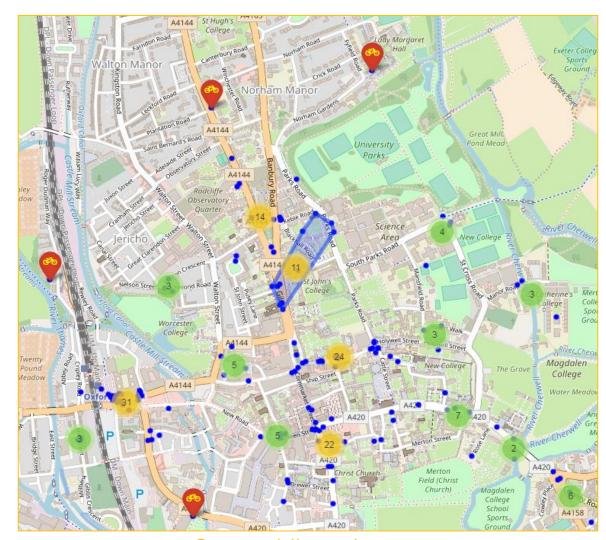


### Geo map



### Bike Mapping

- End point of last trip or the deployed point(bikes which haven't been ridden before)
- It shows the regional bikes amount.( you can move the mouse to the number and see the range of region)
- If the single bike cannot be counted to the near bikes, it will show the red-yellow icon.

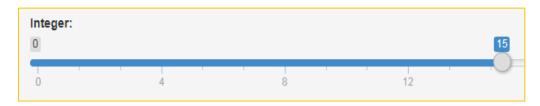


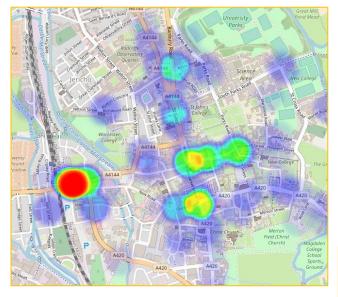
### Geo map



### Heatmap

- It shows the distribution of start point and end point. (High density = Red region, Low density = blue region)
- Compare the heat map of start & end point to see the users riding condition
- Adjust the slider to change the radius(no unit) of every hot spot





Start point

#### End point



#### Geo map



## Track path

- Except for the start and end points, we collect the coordinate data every few seconds during a trip. Therefore, we can connect every single point to become a line and see the user trip path.
- Notice!! Every trip might contain a few coordinate points, thus, filtering data first and don't upload the data size more than 3MB(or you can separate to several cities)



## How to do maps?



#### Work flow

# Export the Map data on BDP dashboard

oBike-{Country Name}

- → Map\_data({Country Name})
  Options:
- 1. BikeMapping
- 2. Heatmap
- 3. Trackpath

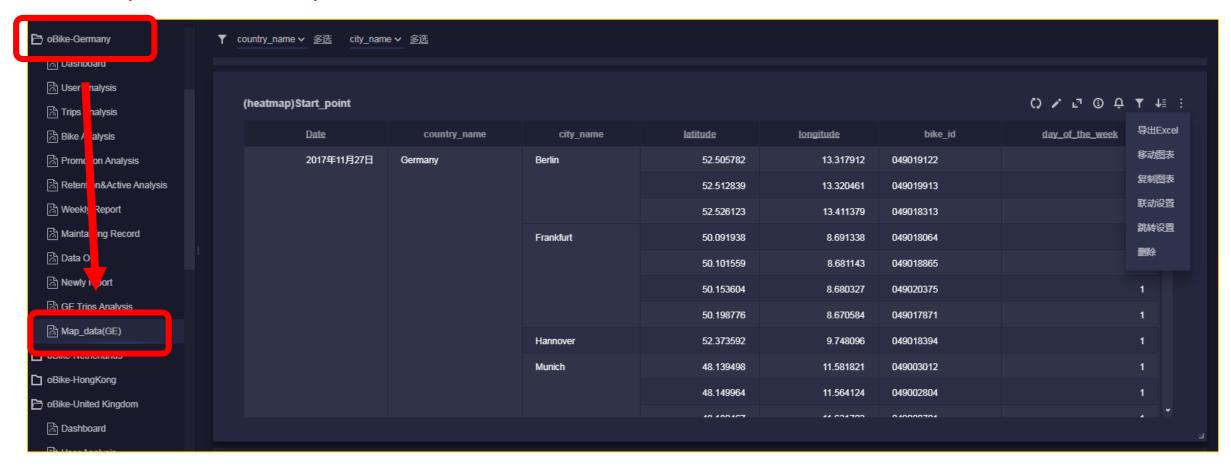


#### Note:

- Please filter the data in excel before upload them(especially Track path)
- Format: must be xlsx.file
- Cannot contain missing value

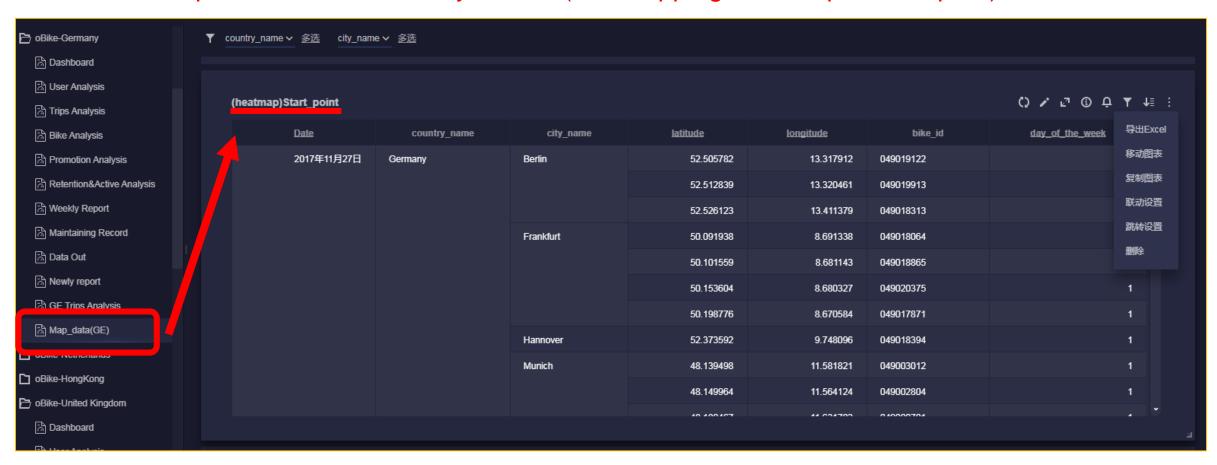


#### Step1: Find the Map data on BDP



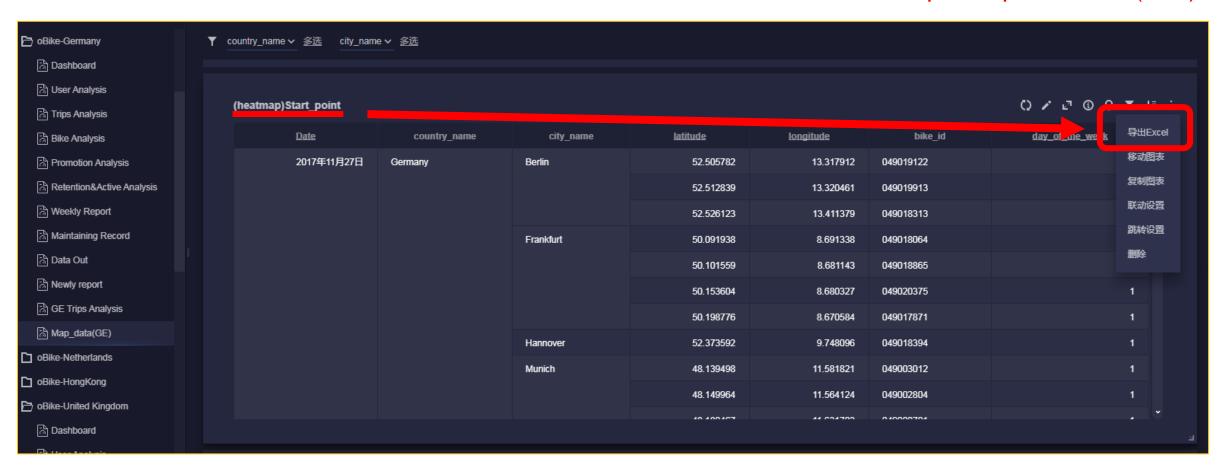


Step2: Choose the sheet you want(bikemapping, heatmap or trackpath)



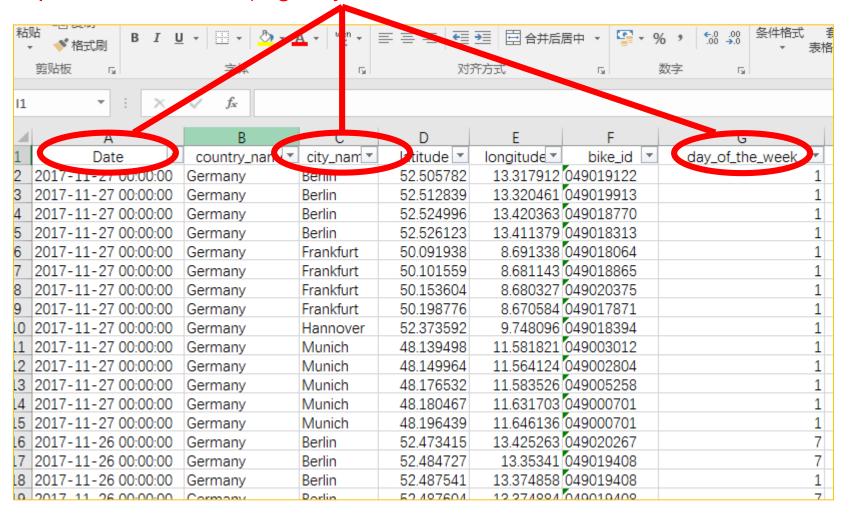


Step3: Export the file(xlsx)



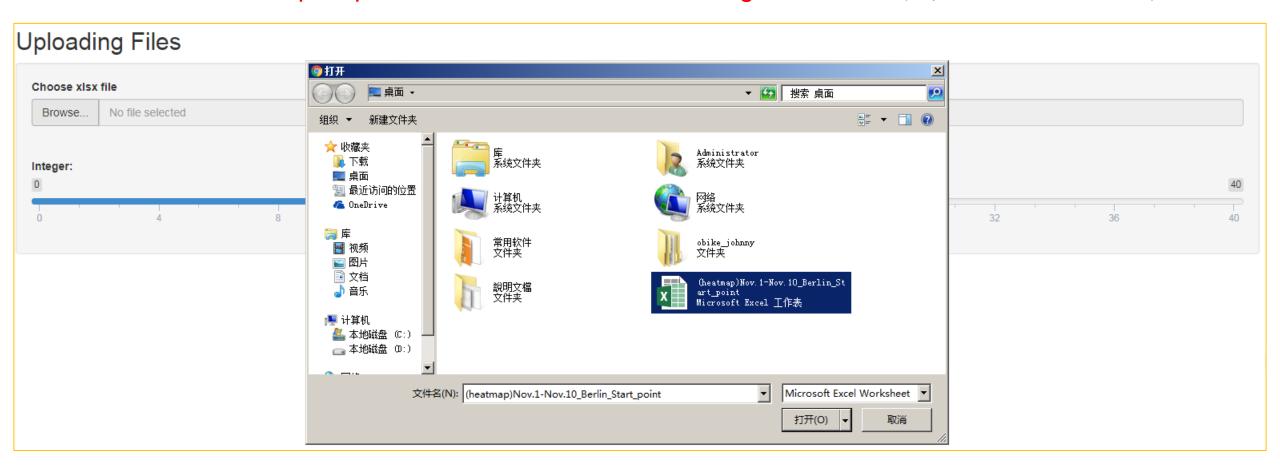


Step4: Filter the data(e.g. city\_name : Berlin, Date = 2017.11.01-2011.11.10)



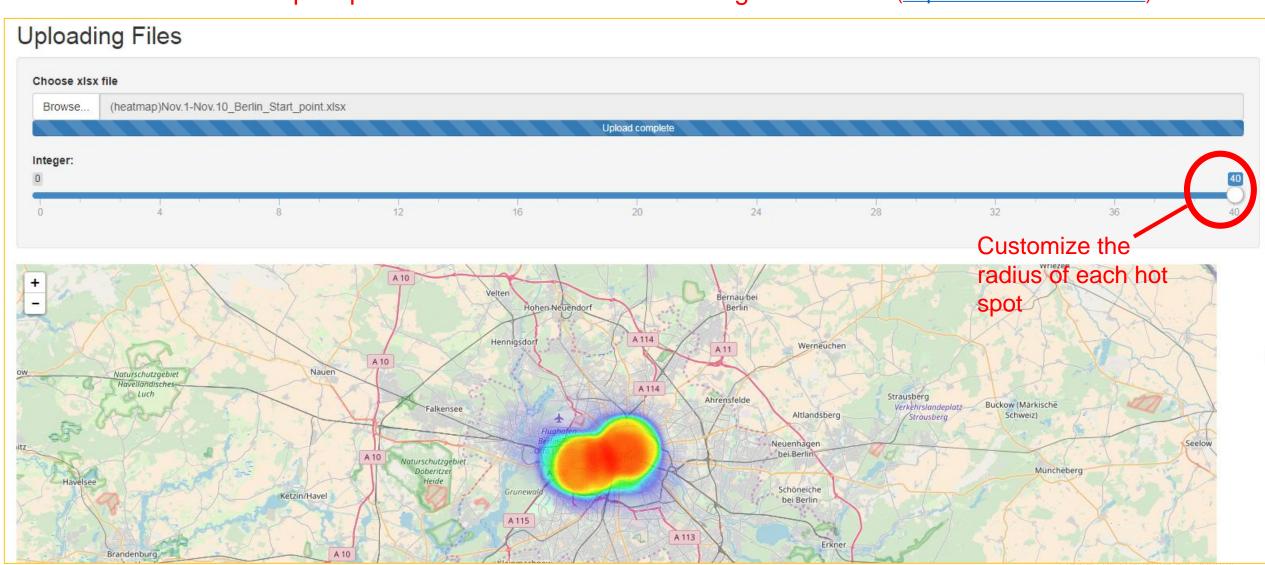


Step5:Upload data to the web-service to get the result!(http://13.229.85.131:3838)





Step6:Upload data to the web-service to get the result!(http://13.229.85.131:3838)







#### Q1. Why can't we find all pass data in BDP dashboard?

#### Ans:

Temporarily, according to the market requests and web-service burden, we just open the data period such like:

(Heatmap) Start\_point: in 30 days(include today) (Heatmap) End\_point: in 30 days(include today) (Trackpath) Tracking\_trips: in 7 days(include today)

Q2. Why web-service appears the error message after uploading the data?(display grey image) Uploading Files

#### Ans:

There might be some missing value. Please omit the row of missing value and re-upload the data again.

	Uploadi	ing Files				
	Choose xisx	c file				
	Browse	. (heatmap)Nov.1-Nov.10_Berlin_Start_point.xlsx				
						Upload
	Integer:					
	0				15	
	0	4	8	12	16	
Ľ						
	+					





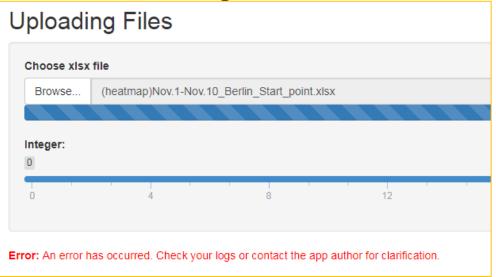
Q3. Why web-service appears the error message after

uploading the data?

Ans:

Verify whether the data contain those column below or not(case-sensitive)?

- BikeMapping : bike\_id, latitude, longitude
- Heatmap : latitude, longitude
- Trackpath: track\_id, latitude, longitude



# Q4. Why web-service doesn't display the map after uploading the data for a while?

Ans: The uploaded data size might be to large. (especially track path, we collect the coordinate data every few seconds during a trip.)

#### **Uploading data recommendation:**

BikeMapping & Heatmap: data size below 5MB

Trackpath: data size below 3MB



# Thank you