



Introduction

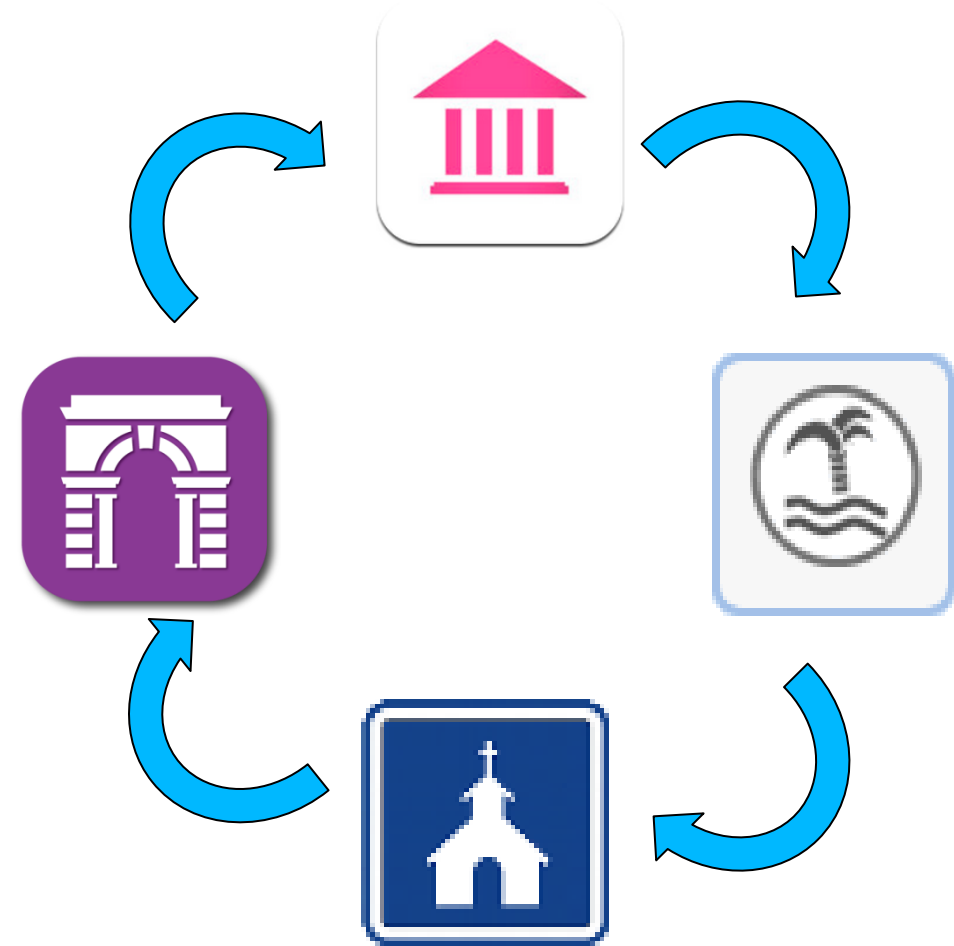
Tourism is travel for recreational, leisure, or business purposes and it has become a popular leisure activity. For this reason, people usually spend some time in creating a plan or schedule to visit the most important places in each city. However, creating a good plan, or even a route is not an easy job, because there are some features that one need to consider.

- Points of Interest (POI)
- Time for the POI
- Movement between POIs
- Etc.

Points of Interest (POI)

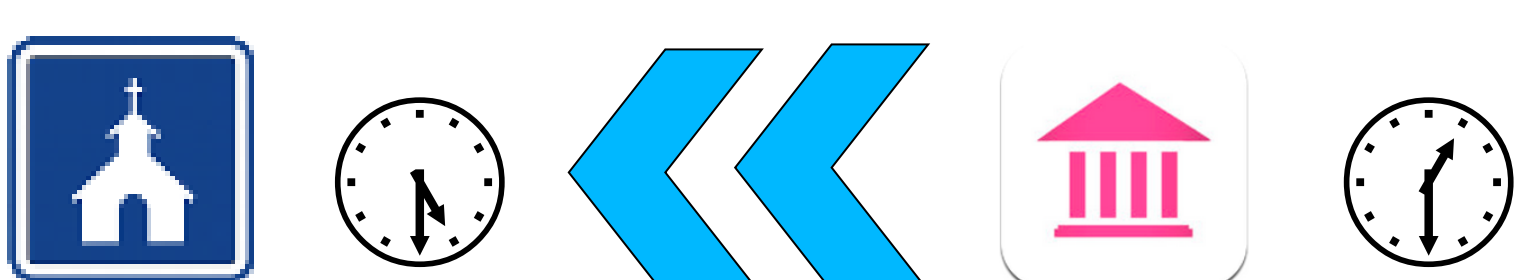
The point of interest is a place that your could visit. There are some features:

1. Name
2. Localization
3. Type place: museum, church, square, street, garden, etc.
4. Relevance
5. Time table
6. People comments in social networks
7. Etc.



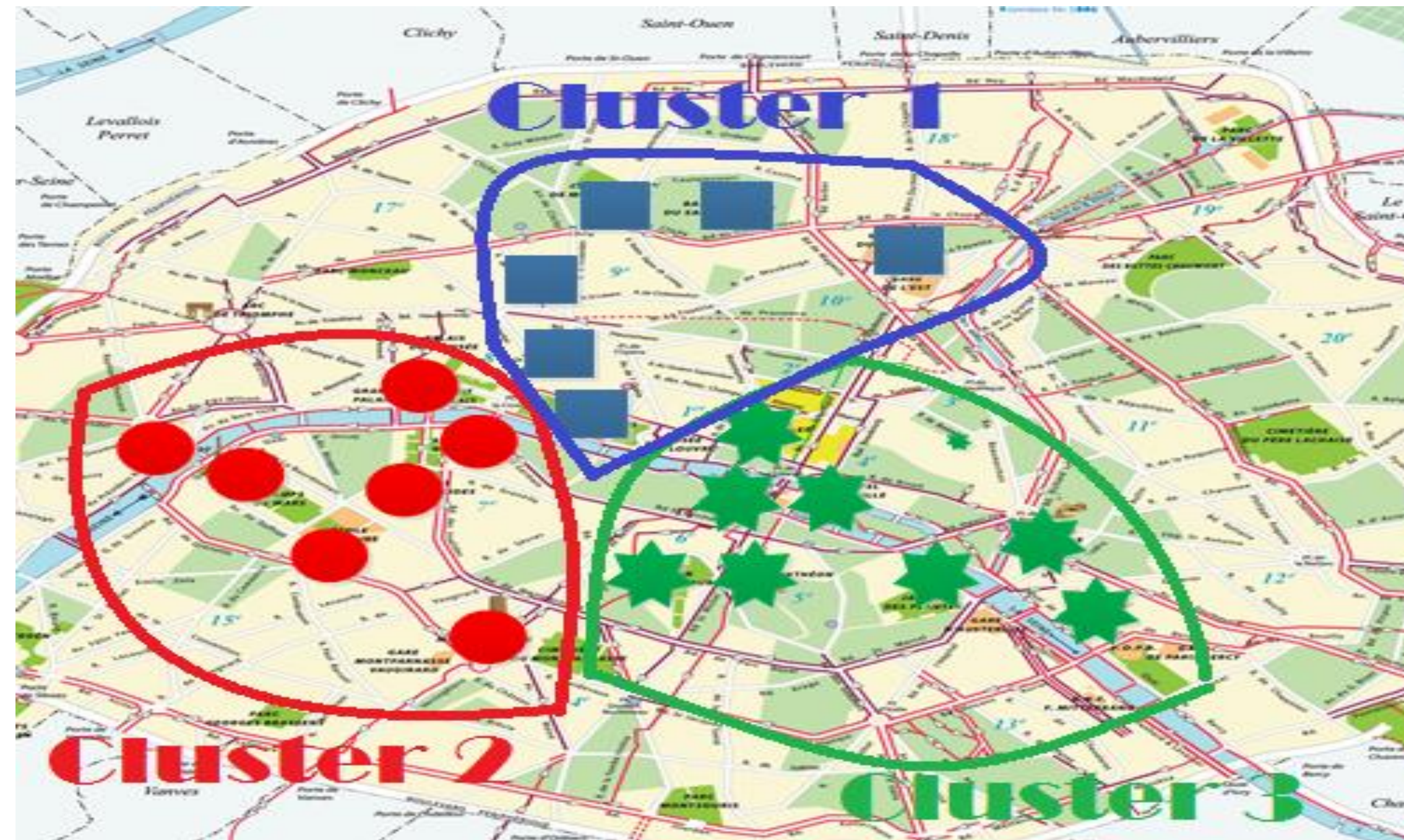
Time Invested in the POI

The visit time depends on the relevance and size of the POI. For example, the visitors usually expend more hours in a museum than in a church, and the planning has to take this into account.



Movement between POIs

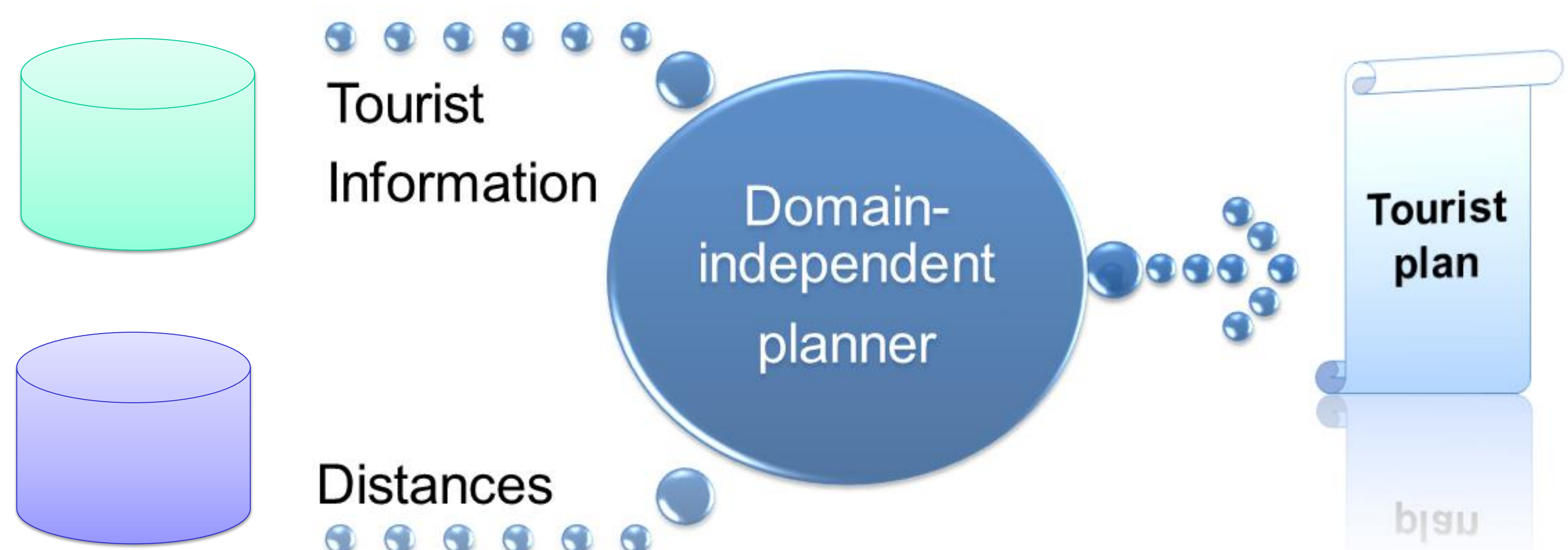
To calculate the distance between the POIs we use the geo localization with two coordinates: latitude and longitude. With this data we compute the distance between each places in the route. The usual way to plan a visit is to group POIs by their closeness. In a city or a region, not all POIs are close, therefore grouping them in several groups is also part of building the plan.



For this reason we have implemented a clustering technique to group the places and calculate the approximated time to move between the points.



Building Tourist Plan



Tourist Plan

- ❖ (10:00 Visited Trocadero-Garden 1 hour)
- ❖ (11:00 Move Eiffel-Tower Trocadero-Garden 0,25 hours)
- ❖ (11:15 Visited Eiffel-Tower 3 hour)
- ❖ (14:15 Move Eiffel-Tower Bistrot-Ding-Restaurant 0,05 hours)
- ❖ (14:18 Have-Meal Bistrot-Ding-Restaurant 1,5 hours)
- ❖ (15:48 Move Eiffel-Tower American-Library 0,09 hours)
- ❖ (15:53 Visited American-Library 1,5 hour)
- ❖ (17:23 Move American-Library Des-Invalides-Esplanade 0,27 hours)
- ❖ (17:39 Visited Des-Invalides-Esplanade 1,5 hour)
- ❖ (19:09 End visit)

Future Work

- Creating routes with the traffic information to calculate the distances
- Integrate information from the public transport services