

### ***A new scenario in Future Internet: Health scenario***

A person, called XXX, has some health problems (diabetes, cardiovascular) and for this reason he/she contracted a nutritional service to a company called FED. The nutritional service offered by FED suggests him/her a weekly meal planning according his/her nutritional needs every week. These needs are also related with physical parameters (age, weight, height) and physiological parameters (blood pressure, sugar level,...). When XXX is at home, he/she receives the weekly menus through the TDT, PC or PDA screens.

When XXX wants go to have dinner to a restaurant in his/her leisure time, XXX ask FED service for some recommendations about where to go and what to eat. XXX informs the FED service with the area o city where he/she would like to go. Also, XXX can ask the service to take into account his/her location detected by his/her mobile phone (with GPS functionality). XXX will also add other constraints:

- XXX writes the prices range that hes/she would pay,
- XXX writes if he/she wants to walk or use his/her own vehicle,
- XXX writes how long time he/she would like at maximum to spend in his/her traveling time

The FED nutritional service already knows the weekly meal planning that XXX is following at that moment and therefore it is able to deduce the menu and the restaurant that fullfils whole set of restrictions related with XXX nutritional aspects and also with his/her price and travelling considerations.

The restaurants located in the destination area o destination city have published in the *Future Internet* infrastructure their services informing about their menus. Theses services use an ontology and they also inform about costs. The restaurants have published other services that allow to make a reservation. These services inform about the number of seats available and the opening timetables making use of a new ontology (in that case not related with food).

The FED nutritional service must discover the services published by the restaurants and, by using their results, it must deduce the menu and select the restaurant. The FED nutritional service must also discover a route planning service for taking into account the transportation constraints suggested or set by XXX.

The FED nutritional service shows its solution to XXX and when he/she accepts it, then the service books the table in the restaurant. Finally, XXX receives the restaurant confirmation and also the planned route from his/her location to the destination. The route would have taken into consideration his/her home or mobile phone location.

This scenario needs:

- make use of several ontologies
- the services must be semantically annotated
- services must be published
- services must be discovered
- enterprise services must be composed to offer the final solution to the end-user

