



ICSE '09 FINAL PRESENTATION

Nikola Tankovic,
Gianluigi Ciambriello

TOPICS

- ✕ What is BTWmaps?
- ✕ Distributed environment
- ✕ About us
- ✕ Requirements
- ✕ Architecture design
- ✕ Results

WHAT IS BTWmaps?

✖ Mario in Vancouver



DISTRIBUTED ENVIRONMENT

**Department of Computer
Science and Electronics,**
Mälardalen University,
Sweden
Prof. Ivica Crnkovic



**Faculty of Electrical
Engineering and
Computing,**
University of Zagreb,
Croatia
Prof. Mario Zagar





Nikola Tankovic, Croatia
Project leader
System design,
Developing, UI design



Sonja Milicic, Croatia
Developing, Design



Danijel Zovic, Croatia
Public relations,
Testing



Gianluigi Ciambriello, Italy
Team leader
Design, Developing



Savino Ordine, Italy
Testing, Developing

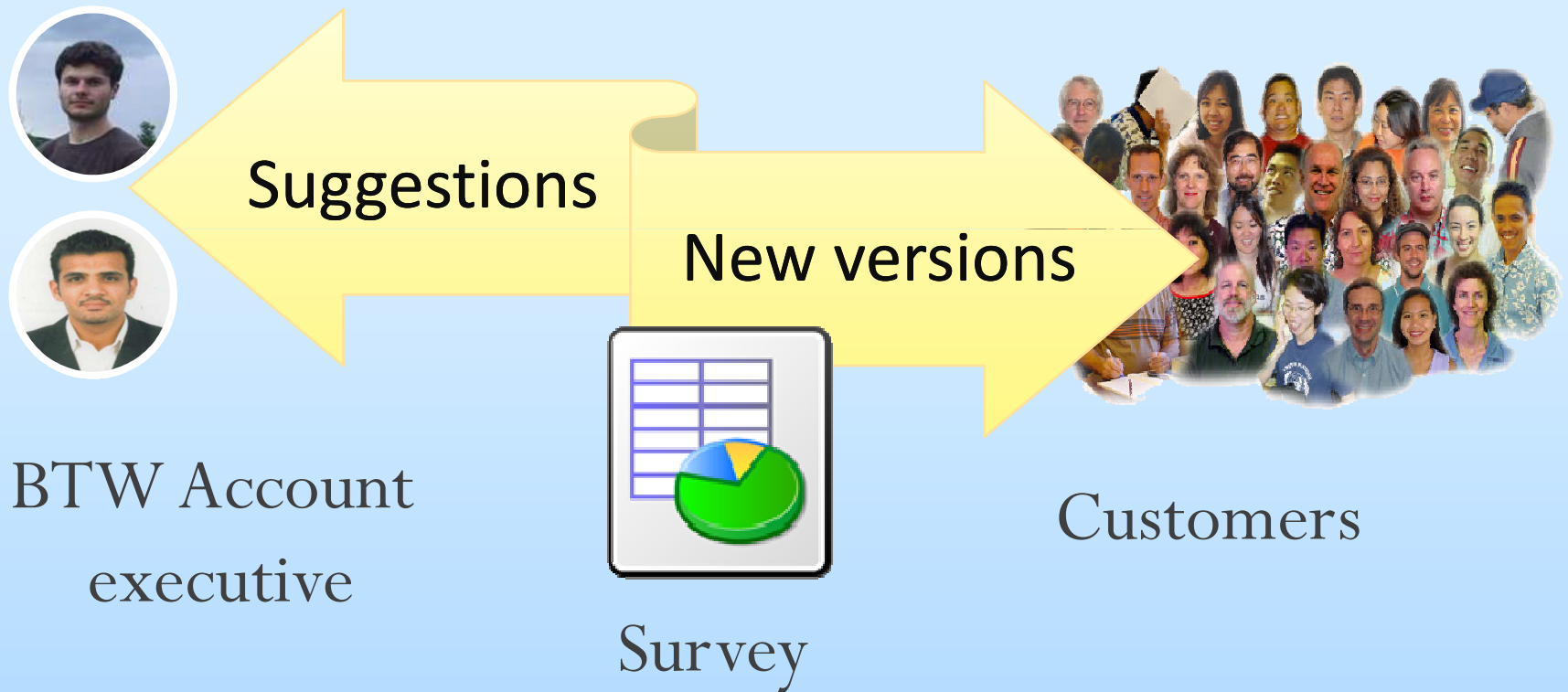


Zafar Ahmad, Pakistan
Public relations,
Testing

TEAM COMMUNICATION



INTERACTION WITH CUSTOMERS



What Mario wants?

BTW Team



Mails

Survey

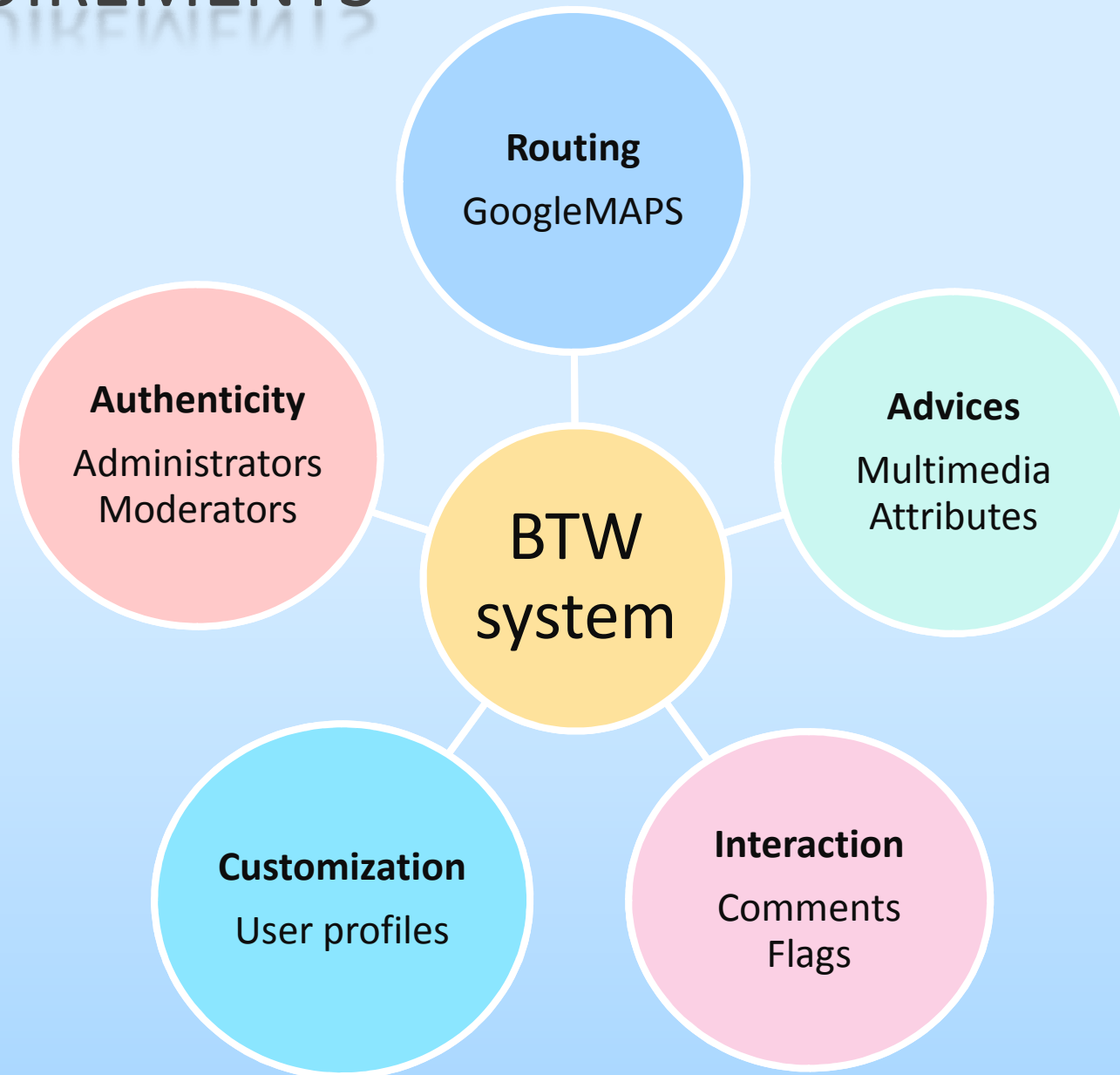
Personal interviews

Online group discussions

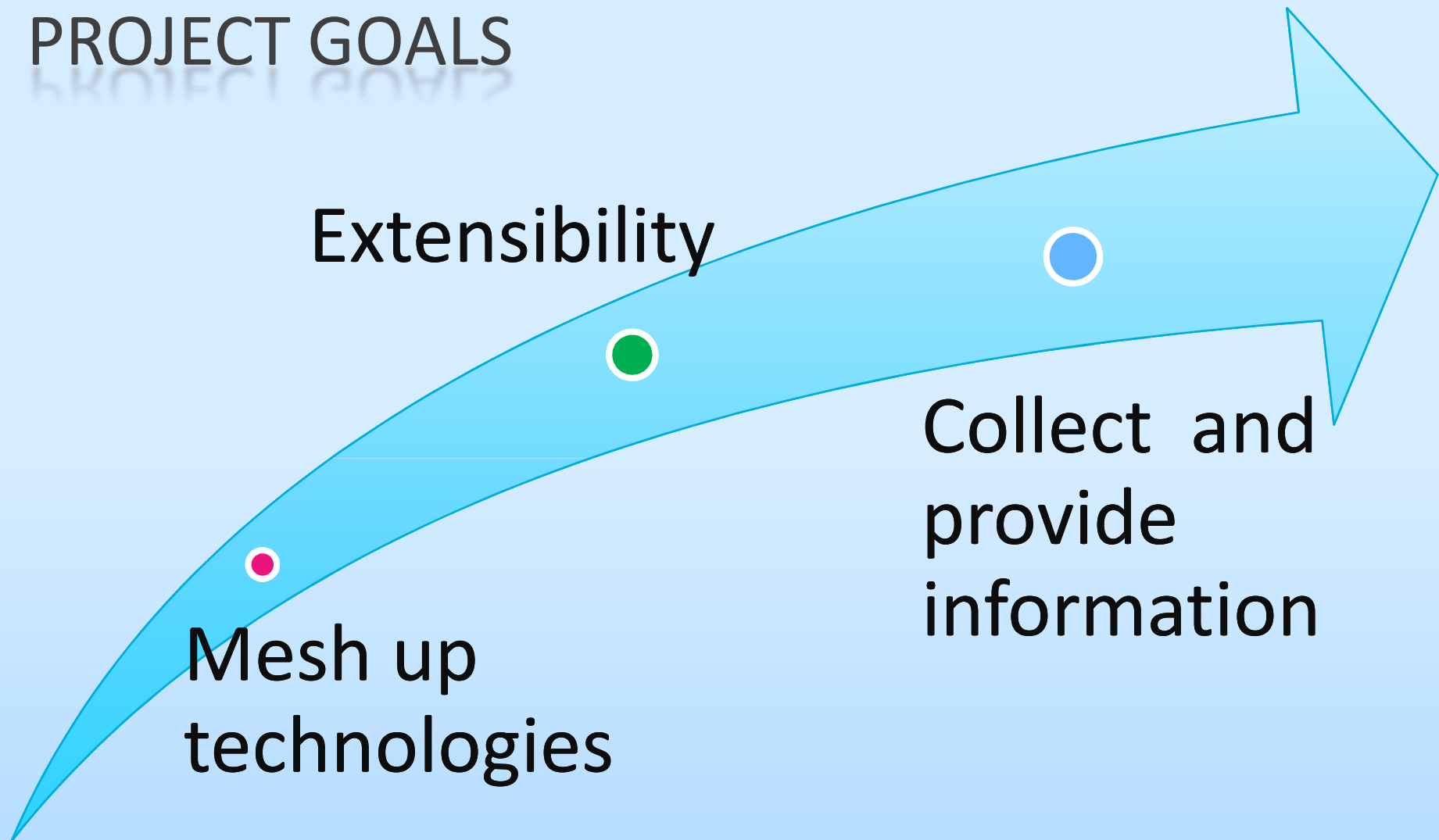


Stakeholders

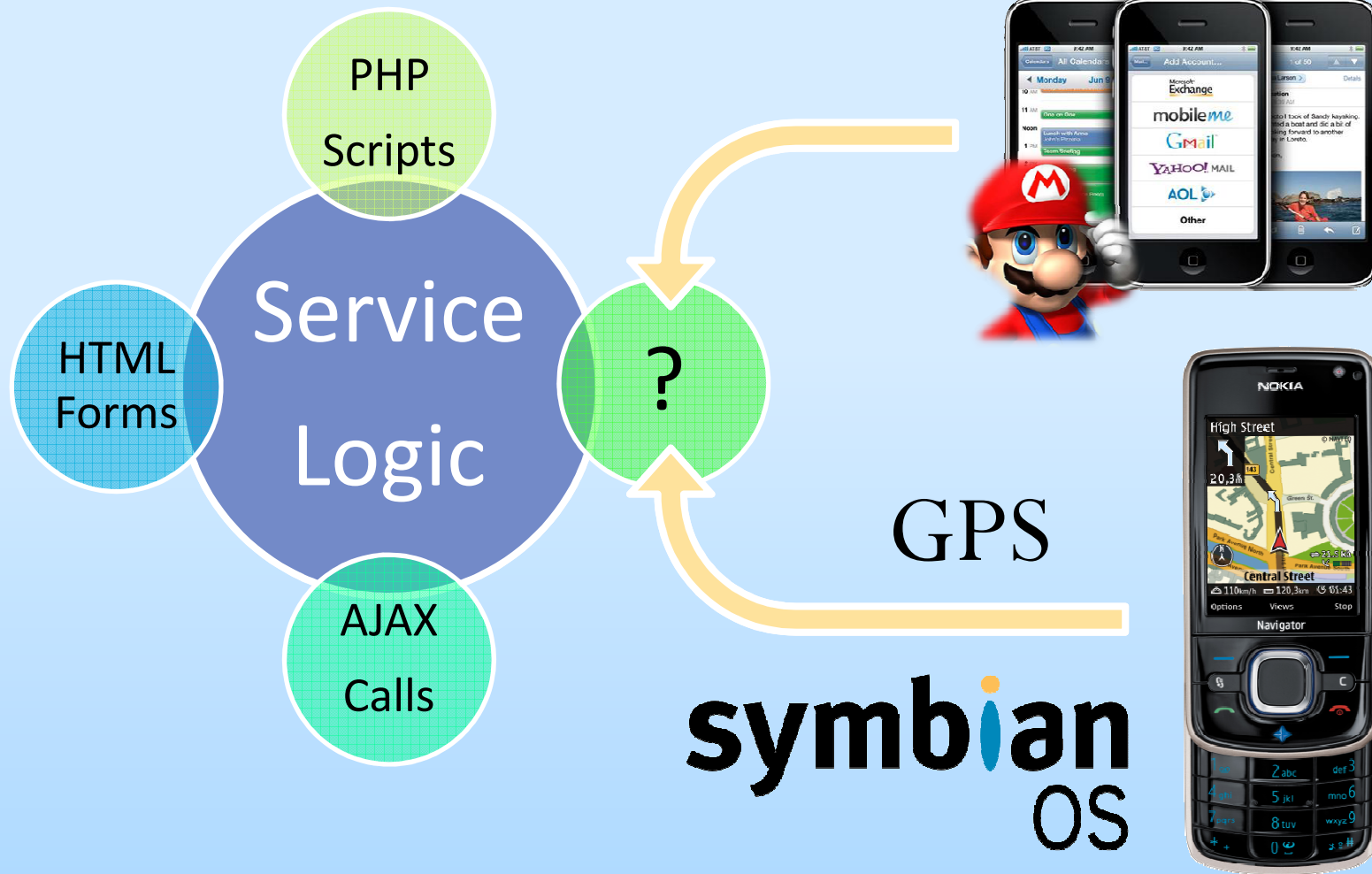
REQUIREMENTS

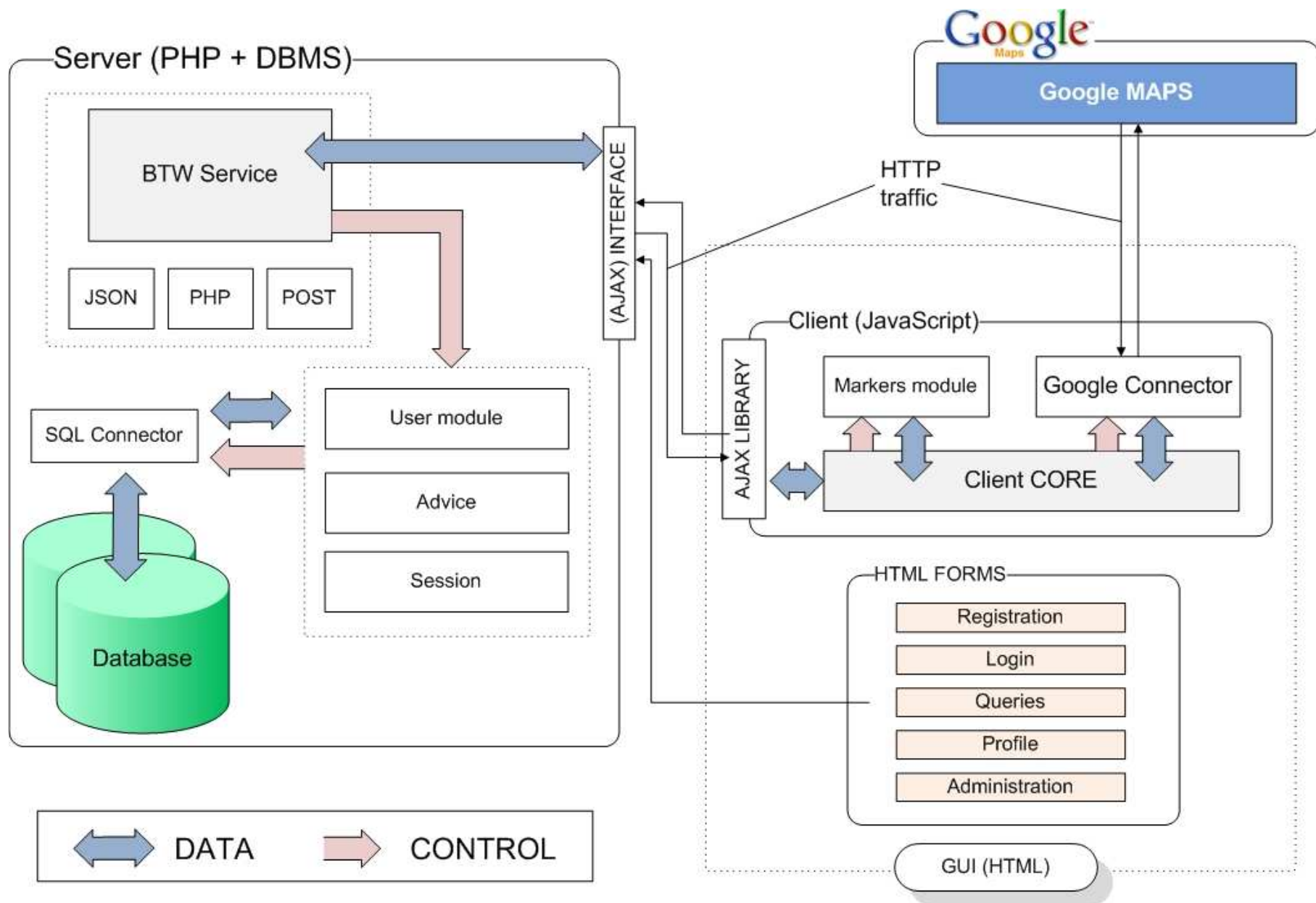


PROJECT GOALS



ARCHITECTURE OVERVIEW



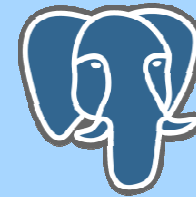


TECHNOLOGIES



Server side

- PHP 5+
- PostgreSQL 7+

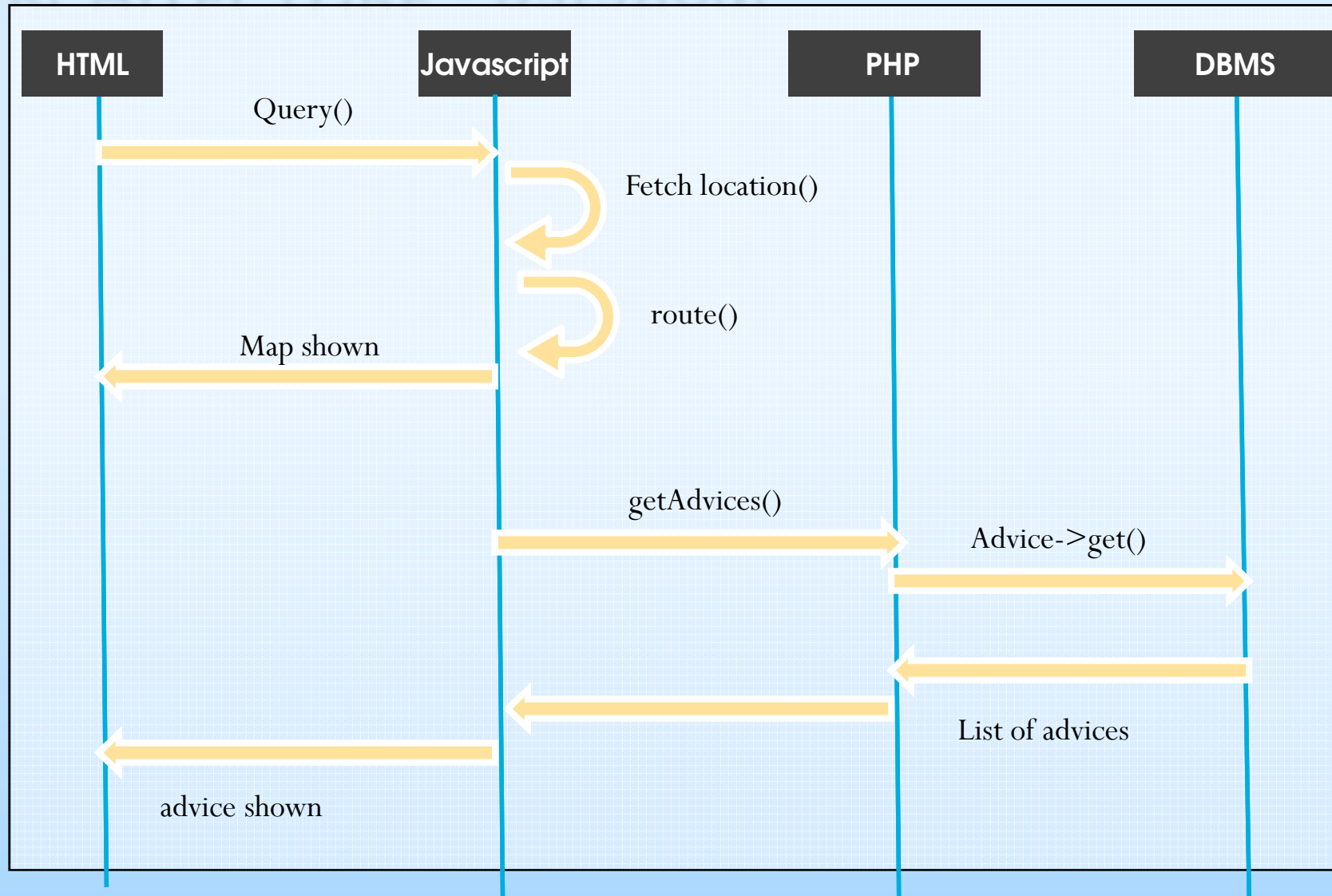


Client side

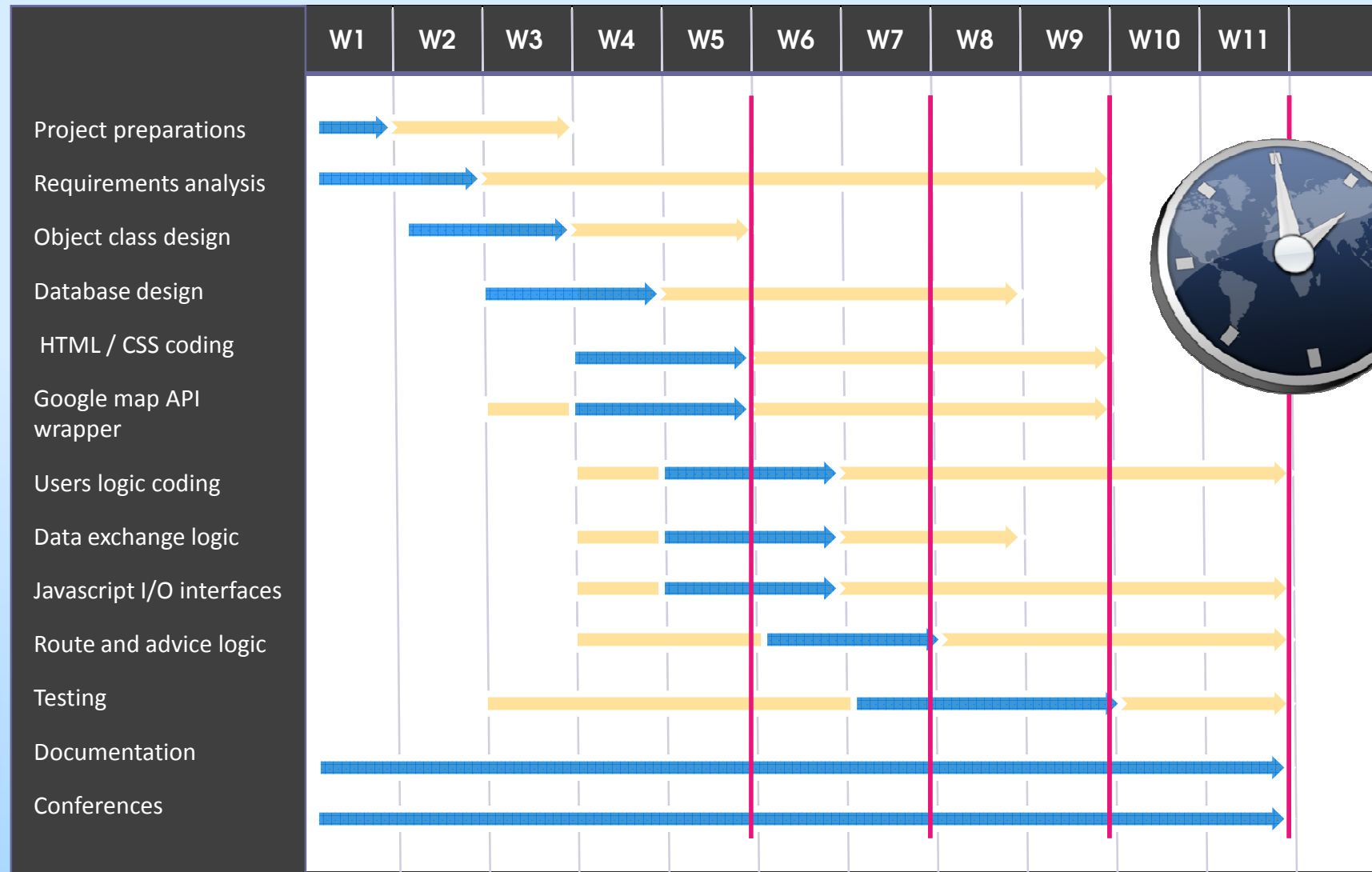
- JavaScript OOP
- GoogleMaps API
- Script.aculo.us framework (AJAX)
- JSON
- HTML (CSS) with Smarty engine



ARCHITECTURE - dataflow

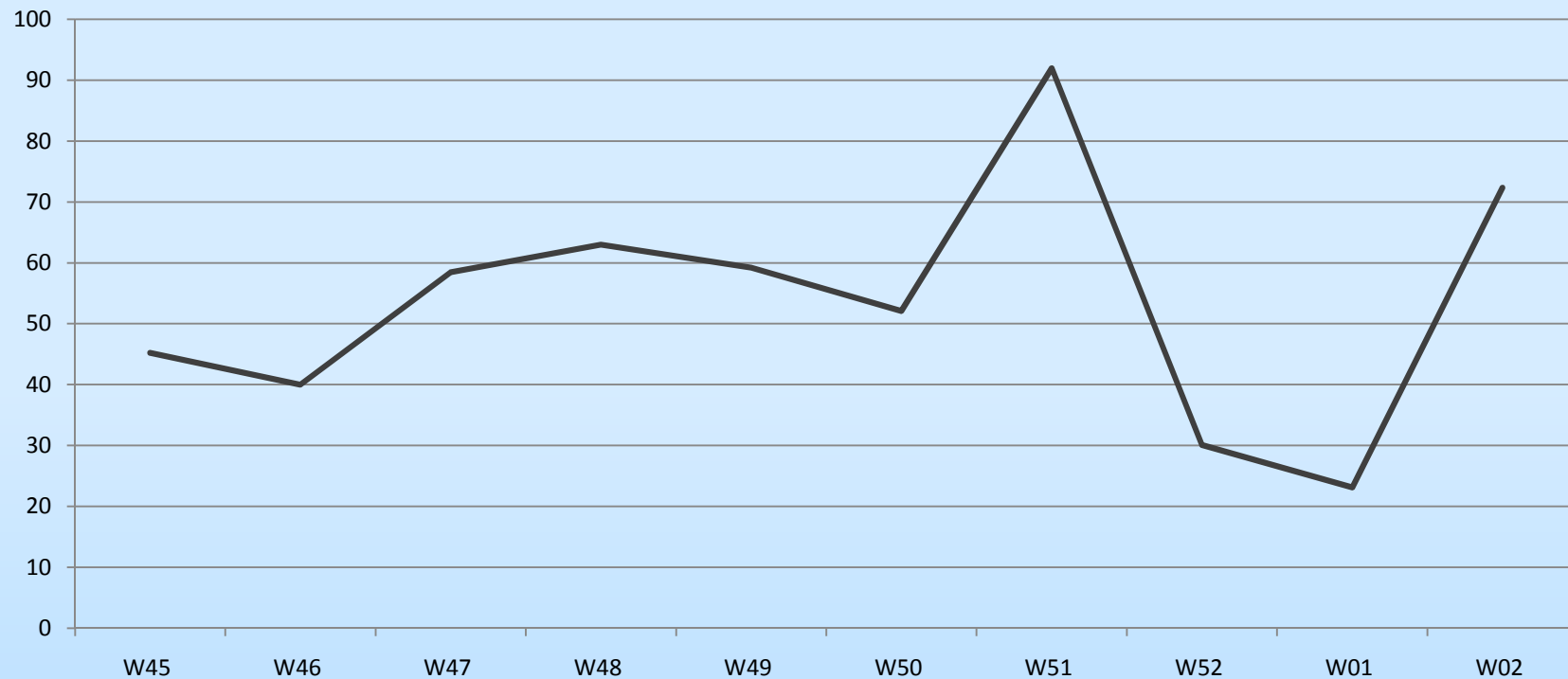


SCHEDULE



WORKING HOURS

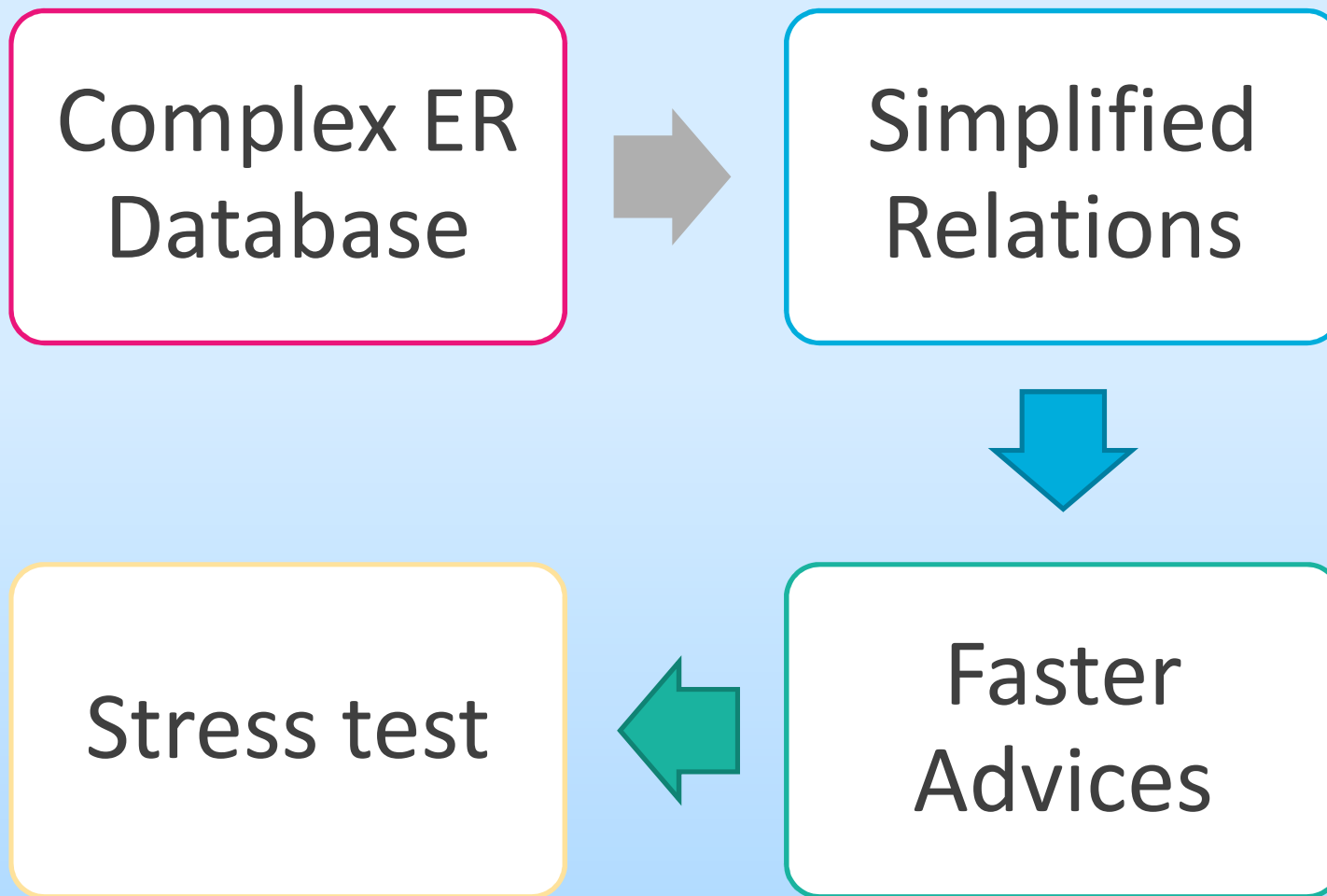
Hours of work per week



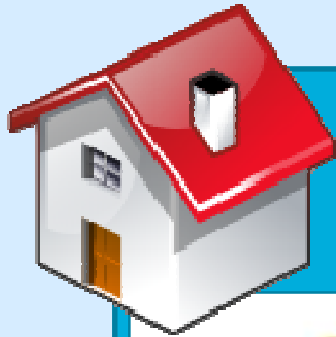
Total working hours

599

RESULTS - performance



RESULTS – user interface



<http://btw.rasip.fer.hr>

BTW maps®

"if you go, my advice to you!"

Your destination

Your position

POWERED BY

Google

Search



username

••••••••

Register

Sign in

The screenshot displays the BTW maps web application interface. On the left, a sidebar contains a search form with 'To' and 'From' fields, both set to '1601 Bayshore Dr, Vanco', and a 'Search' button. Below the search form is a 'Hide options' link and a 'Mode' dropdown set to 'Walking'. A 'Select advices type:' section lists various categories with corresponding icons: Smiley, ATM location, Restaurant, Bus stop, Tram stop, Metro stop, Dangerous area, Gas station, Shopping, Pharmacy, Parking area, and Underpass. The main area shows a map of a city street grid with various colored icons representing these categories. A red box highlights a specific location on the map. Callout boxes with blue borders and white text point to specific features: 'Destination' points to the search form, 'Categories and properties' points to the sidebar list, 'Map with advices' points to the map area, 'Profile Customization' points to the top right navigation links, and 'KML export' points to the 'Export to KML' button at the bottom right. The bottom of the map shows 'POWERED BY Google' and 'Map data ©2009 Tele Atlas'.

To:
1601 Bayshore Dr, Vanco

From:
1601 Bayshore Dr, Vanco

Search

Hide options

Mode: Walking

Select advices type:

- Smiley
- ATM location
- Restaurant
- Bus stop
- Tram stop
- Metro stop
- Dangerous area
- Gas station
- Shopping
- Pharmacy
- Parking area
- Underpass

Destination

Categories and properties

Map with advices

Profile Customization

KML export

Export to KML

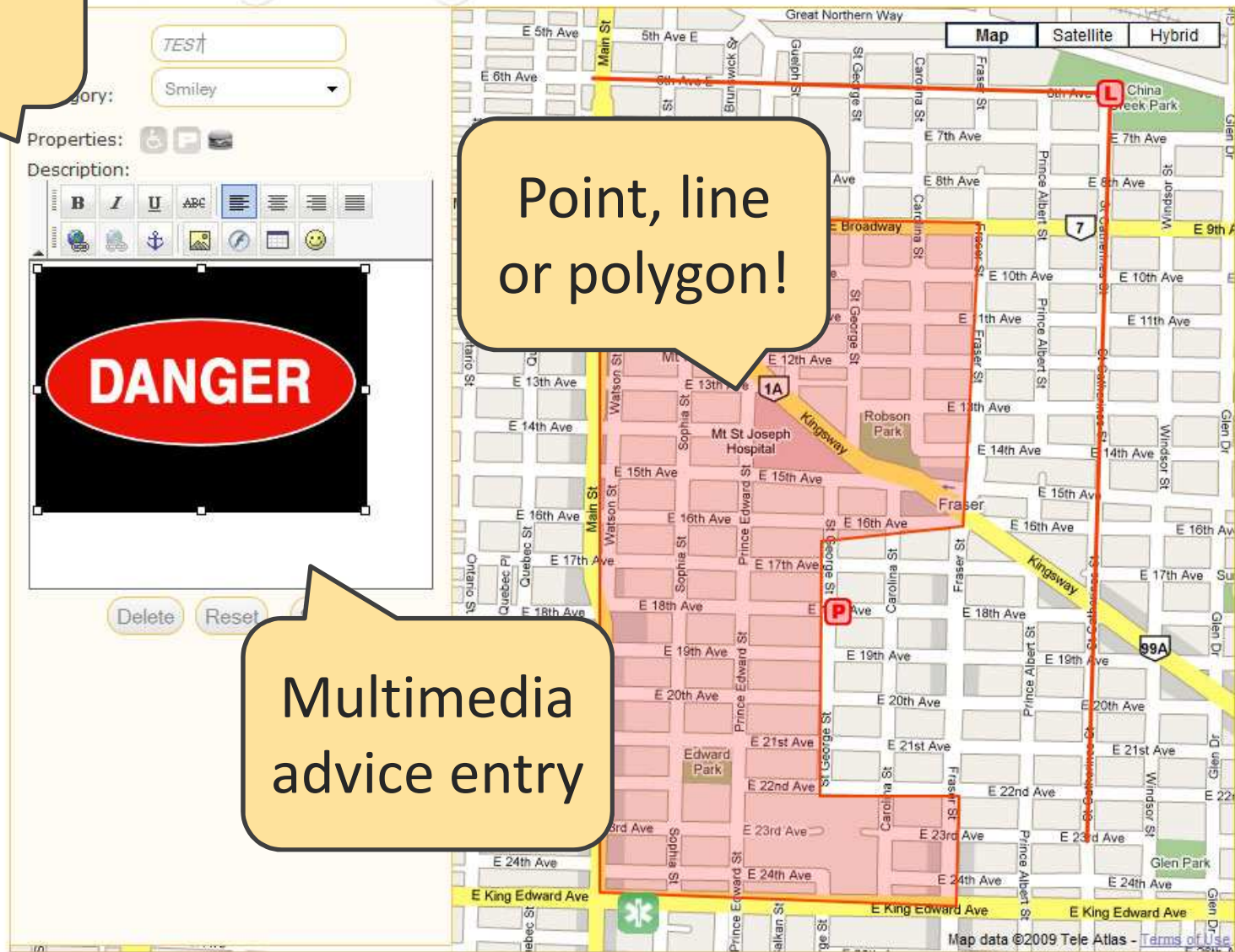
Properties and
categories
selection

you go, my advice to you!"

Welcome **username**,
[Edit profile](#) - [Logout](#)

Point, line
or polygon!

Multimedia
advice entry



[Export to KML](#)

RESULTS – user interface continued

The screenshot displays the BTW maps website interface. At the top left is the logo "BTW maps" with the tagline "if you go, my advice to you!". On the top right, it says "Welcome ntankovic," with links for "Administration", "Edit profile", and "Logout".

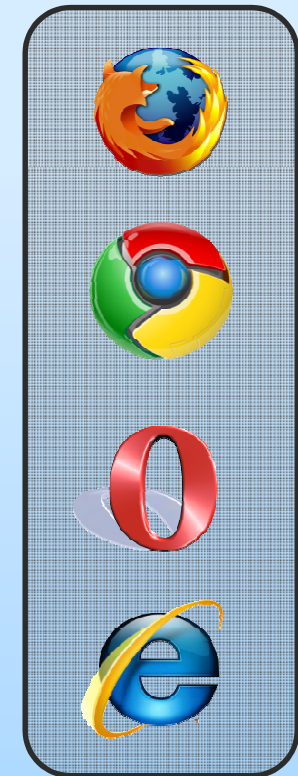
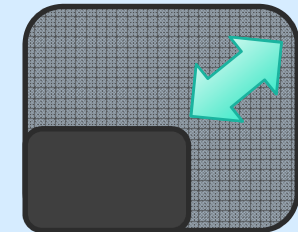
The left sidebar contains search and filter options:

- Search input fields with "zagreb" entered.
- Mode: Walking (dropdown menu).
- Select advices type: Smiley, ATM location, Restaurant.
- Select properties: Wheelchair accessible.
- A Search button.

The main map area shows an aerial view of Zagreb. A red pin is placed on the map, and a red box highlights a specific area. A speech bubble labeled "Advice window" points to the advice window, which displays:

- Location: KD Lisinski
- Added by: username
- Last modified: 2009-01-11
- A photo of the interior of the KD Lisinski concert hall.
- Comments section with two comments:
 - username: I have never been there!
 - username: This is very large!
- A text input field for a new comment: "Please type your comment or reason for flagging here..."
- Buttons for "Save comment" and "Flag!".

A speech bubble labeled "Comments" points to the comments section. At the bottom right of the map, there is an "Export to KML" button.



RESULTS - ADMINISTRATION

Type	Username	Name	E-mail	Address	Promote	Edit	Delete
ADM	ntankovic	last name, first name	email	Trnjanska cesta 7A, Zagreb		Edit	Delete
NOR	danijel	Zović, Danijel			to Moderator		
NOR	username2	last name, first name					
NOR	username	last name, first name					
NOR	cts08001	Tempelaars, Coen					
NOR	i_cant_put_ivki_as_a_username_:-{	Bosnic, Ivana					
NOR	testtest	last name, test					
NOR	ivki_ivki	bosnic, ivana					
NOR	dmaric1	Marić, Danijel					
NOR	gianluigi	ciambriello, gianlugi					
ADM	admin	Admin, Admin					
NOR	ivan	Ivić, Ivan					
NOR	ivano	Ivić, Ivan					
NOR	ciaonetta	Ciambriello, Simonetta					
NOR	Pedro	Valente, Pietro					
NOR	devil	Giovannitti, Daniele					
NOR	preradovic7	Koraca, Kazimir					
NOR	neven	x, neven					

Add new category

Name:

Description:









Icon:

Browse...

Disabled icon:

Browse...

Add category

ID	Icon	Name	Description	Edit	Delete
1		Smiley	Smiley	Edit	Delete
3		ATM location	ATM location	Edit	Delete
5		Restaurant	Restaurant location.	Edit	Delete
9		Bus stop	Bus stop	Edit	Delete
10		Tram stop	Tram stop	Edit	Delete
11		Metro stop	Metro stop	Edit	Delete
12		Dangerous area	Dangerous area	Edit	Delete
13		Gas station	Gas station	Edit	Delete

So how does this help Mario?

BTW maps *"if you go, my advice to you!"*

Welcome **username**,
[Edit profile](#) - [Logout](#)

To:

From:

[Show more options](#)

Vancouver Airport, Canada

15.6 km (about 22 mins)

1. Head west on Grant McConachie Way 4.1 km
2. Slight right at SW Marine Dr 0.8 km
3. Continue on Granville St 7.8 km
4. Slight right at Seymour St N 1.4 km
5. Turn left at W Georgia St 1.4 km
6. Turn right at Cardero St 0.1 km

1601 Bayshore Dr, Vancouver, BC, Canada

Map data ©2009 Tele Atlas

ICSE09 Hotel
Added by: ntankovic
Last modified: 2009-04-25

ICSE 09 Hotel

Please type your comment or reason for flagging here...

[Save comment](#) [Flag](#)

[Export to KML](#)

Map data ©2009 Tele Atlas