# Place and Functions Identity at Piazza Ghiberti in Florence

### **School of Architecture Entrance Building**

identity: noun (http://www.merriam-webster.com)

a: sameness of essential or generic character in different instances

b: sameness in all that constitutes the objective reality of a thing: oneness

c: the distinguishing character or personality of an individual: individuality

d: the relation established by psychological identification

e: the condition of being the same with something described or asserted

f: an equation that is satisfied for all values of the symbols



http://architettura-italiana.com/projects/20828-giovanni-todesca-breschi-studio-di-alberto-breschiguido-ferrara-eva-parigi-matteo-zetti-nicola-ferrara-nuova-sistemazione-di-piazza-ghiberti

### **THE BRIEF: Place Assessment and Program**



Prior to start to design and built, the Client shall define the BRIEF where to collect all the information coming from Feasibility studies and addressing the project. The BRIEF is also an important instrument for the design team selection. Because is covering a wide range of aspects (technical, economical, procedural, environmental,...) the BRIEF is usually produced by a multidisciplinary team.

In this credit students have to provide the BRIEF for the School of Architecture Entrance Building syntesizing all the previous information and results of analysis produced in the previous assignments in order to to address the subsequent design phase.

For this credits students are required to submit two vertical A1 sheets titled:

01 THE PLACE. Site Analysis and Environment Assessment.

02 THE PROGRAM. Project Goals and Space Program

 $\underline{[Please\ remember\ to\ name\ your\ files=surname.name.title]}$ 

### Site Analysis and Environment Assessment.

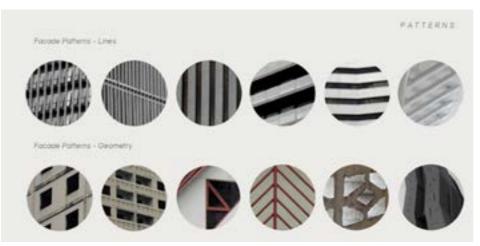
Following the Assignment Guide #01, students are required to organize in this sheet graphical information about the Place and more in detail the followings:

- 1. **General location** of the site in the city map showing the main relationship with the neighborhood.
- 2. **Built assessment** through sketches and photos showing materials, colours, textures, volumetric and mass connotations, relevant architectural details and technological elements. > Note: in this phase precise drawings are not required.
- 3. Layering inventory of the construction site showing attributes and vocations of its different points, lines and/or traces, surfaces in terms of visibility, accessibility, sloping and drainage lines, solar exposure, wind exposure (in winter and summer).

These drawings should be integrated by other explanatory picts such as:

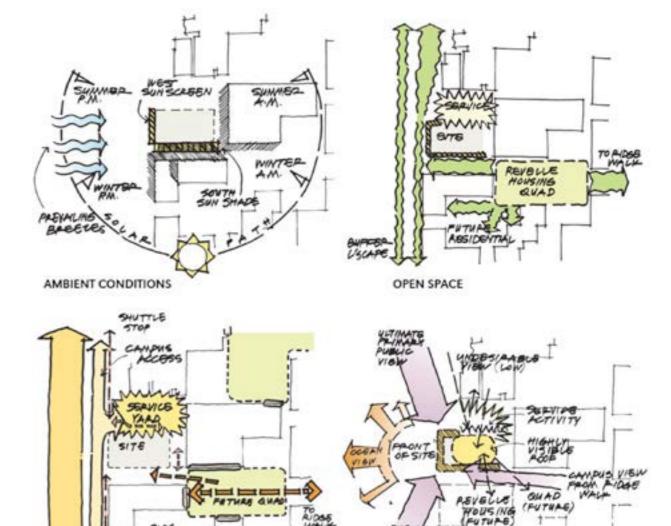
- -shade analysis
- -rose of winds
- -best solar orientation
- -viewshed map









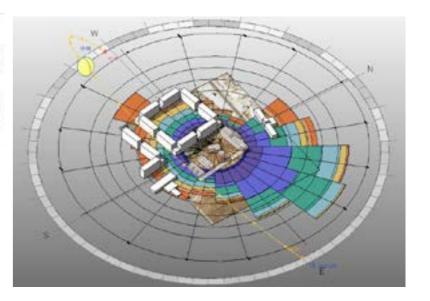


#### Guidelines for natural ventilation

 Topography, landscaping, and surrounding buildings should be used to redirect airflow and give maximum exposure to breeze:

PEDESTRIAN & VEHICULAR CIRCULATION

- o To admit wind air flow, the long facade of the building and the door and window opening should be oriented with respect to the prevailing wind
- A natural ventilation system should be effective regardless of wind direction and there must be adequate ventilation even when the wind does not blow from the prevailing direction;



VIEWS



# 02 THE PROGRAM

Structure and Architecture Design Lab | Master Class | prof. G. RIdolfi, PhD

## Project Goals and Space Program

This sheet must contain the main goals and an overall quantitative estimation about spaces and costs.

More in detail, students should organize graphical/alphanumerical information in the following three sections:

- 1. Concept. A diagramatic/pictorial representation about the identity and the main goals of the project.
- 2 Action Map. A more analytical explanation of the project requirements as a coeherent result of the Built Assessment produced in the previous assignments (see Assignment Guide #01).
- 3 Space program a preliminary definition of the functional spaces to be realized using a spreadsheet and a bubblegraph representation.









FRONT STAGE

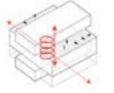




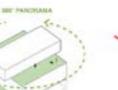




CLEAR PROGRAMMATIC



STRONG CONNECTION WITH





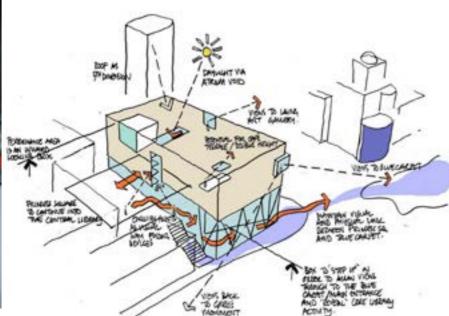




**GENEROUS TERRACES** 







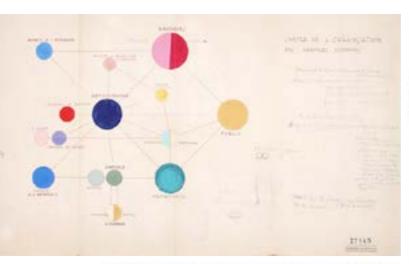
In the spreadsheet (\*) students have to assign a room to each row of the matrix and specify in the column the following attributes:

- id number room
- department name
- name of the room
- theoretical surface
- effective surface
- surface difference (theoretical-effective)
- parametric cost per sqm (\*\*)
- theoretical cost
- effective cost
- cost difference (theoretical-effective)

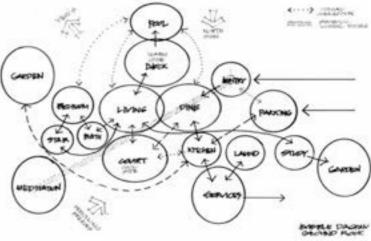
The bubble graph should be used to represent the functional relationship betweens rooms and/or between departments. Keep in mind the bubble graph is a bidimensional representation showing:

- level of attractions between rooms (using different types of lines);
- dimensional specification (using proportional surfaces of each bubble):
- cluster between rooms with functional affin-

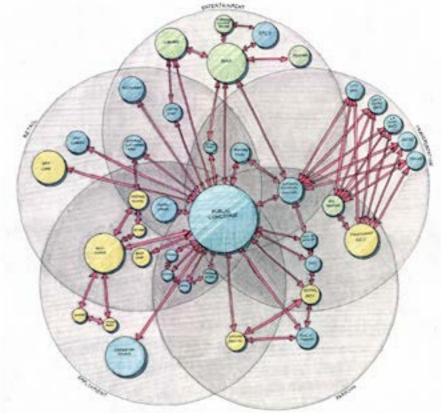
For advanced analysis. the calculation of the "centrality of graph" could also be adopted.(\*\*\*)



Le Corbusier, Masselle: Unité d'habitation, 1945. Babble diagram of command. services for the builting complex. O FLC/ADACP, Page and DACS, London 2008.



- \*) Create the spreadsheet using a BIM room scheduling
- \*\*) Temporarly, use the cost you defined in the previous assignemnt considering different values in relationship with:
- -technological complexity,
- -quality of interior finishing
- -level of services.
- At least consider three values as the followings:
- 1. low cost
- 2.medium cost
- 3.high cost
- and assign properly this parametric cost to each
- \*\*\*) to run the calculation of the centrality of graph or for any kind of layout optimization students can use Vectorworks (https://www.youtube.com/ watch?v=F6CKvK9otqq&list=PLb0Qw\_r4cgHvvYNpM9q2SqG3wNq7JNhlr)
- or Syntactic Design in Grasshoopper (http:// www.grasshopper3d.com/group/space-syn-



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#### **CREDIT GUIDE 02**

The BRIEF: Place Assessment and Program

