

자료분석과 종합

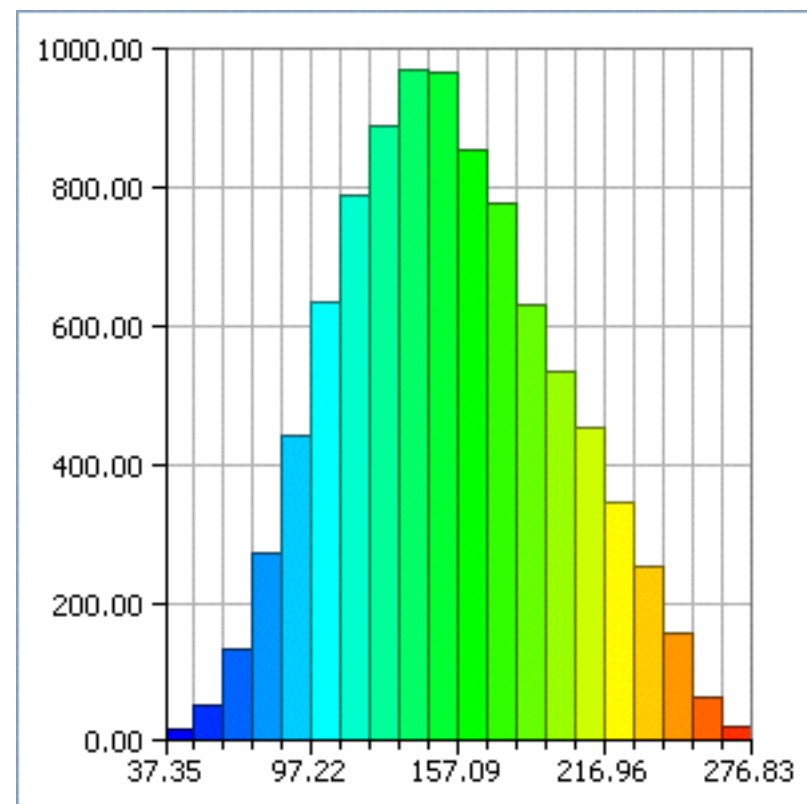
I. 통계적 분석

1. Descriptive statics-서술적 통계학
2. Inferential statics- 추론적 통계학

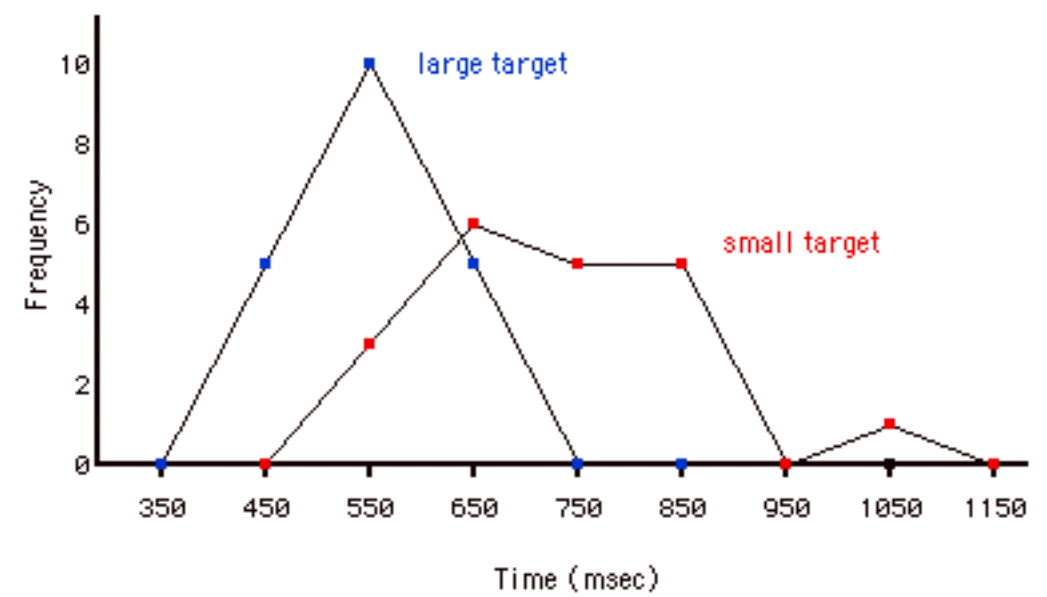
I-I. Descriptive statics

- 자료의 양을 기술
 - 표, 분류, 빈도, 중심값, 분산, 편차

1. tabulation, classification and frequency -
표, 분류, 빈도
2. central tendency, value or location-중심경
향, 중앙값 혹은 중심위치
3. variation or dispersion-분산 편차



Histogram



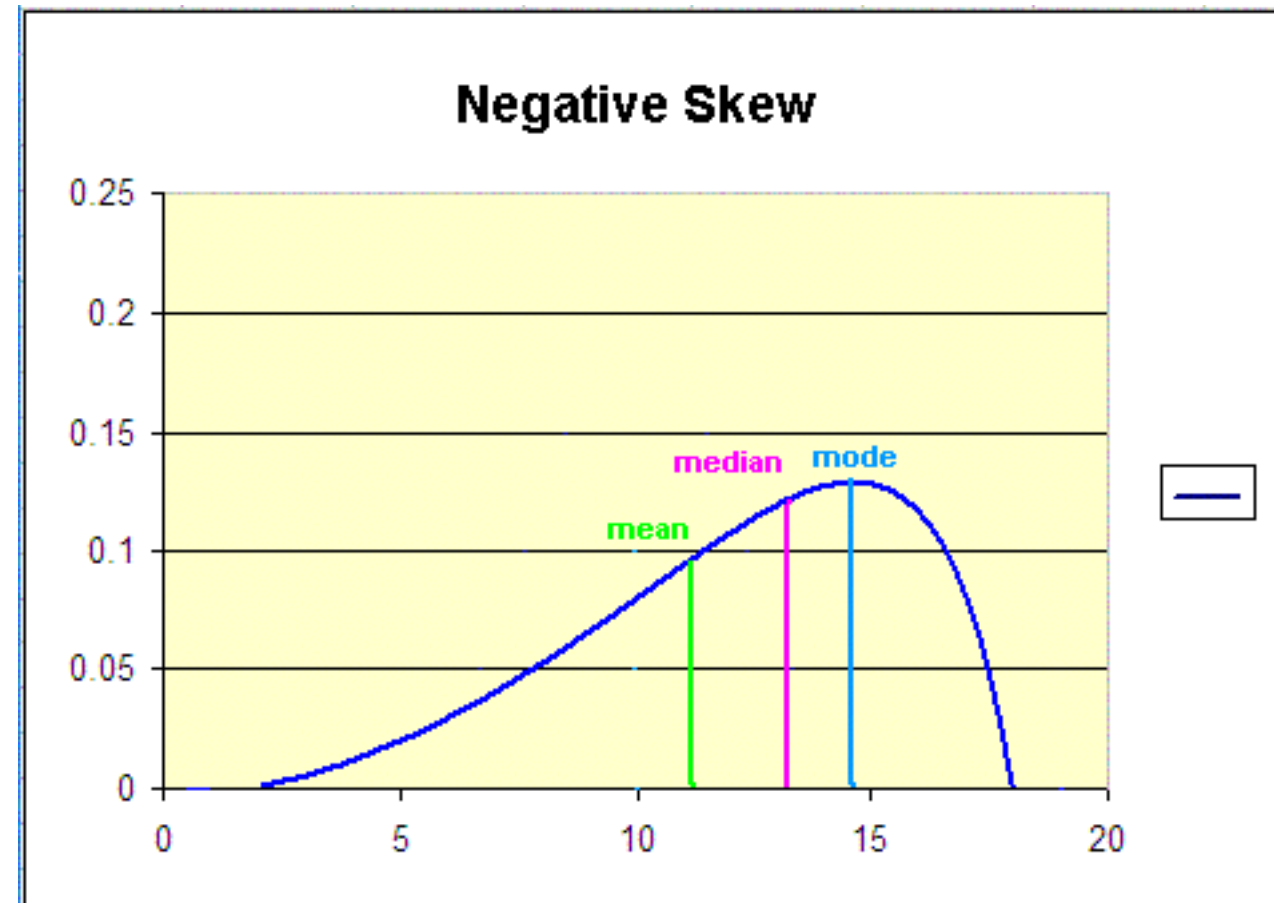
Frequency Polygon

Median

Mean

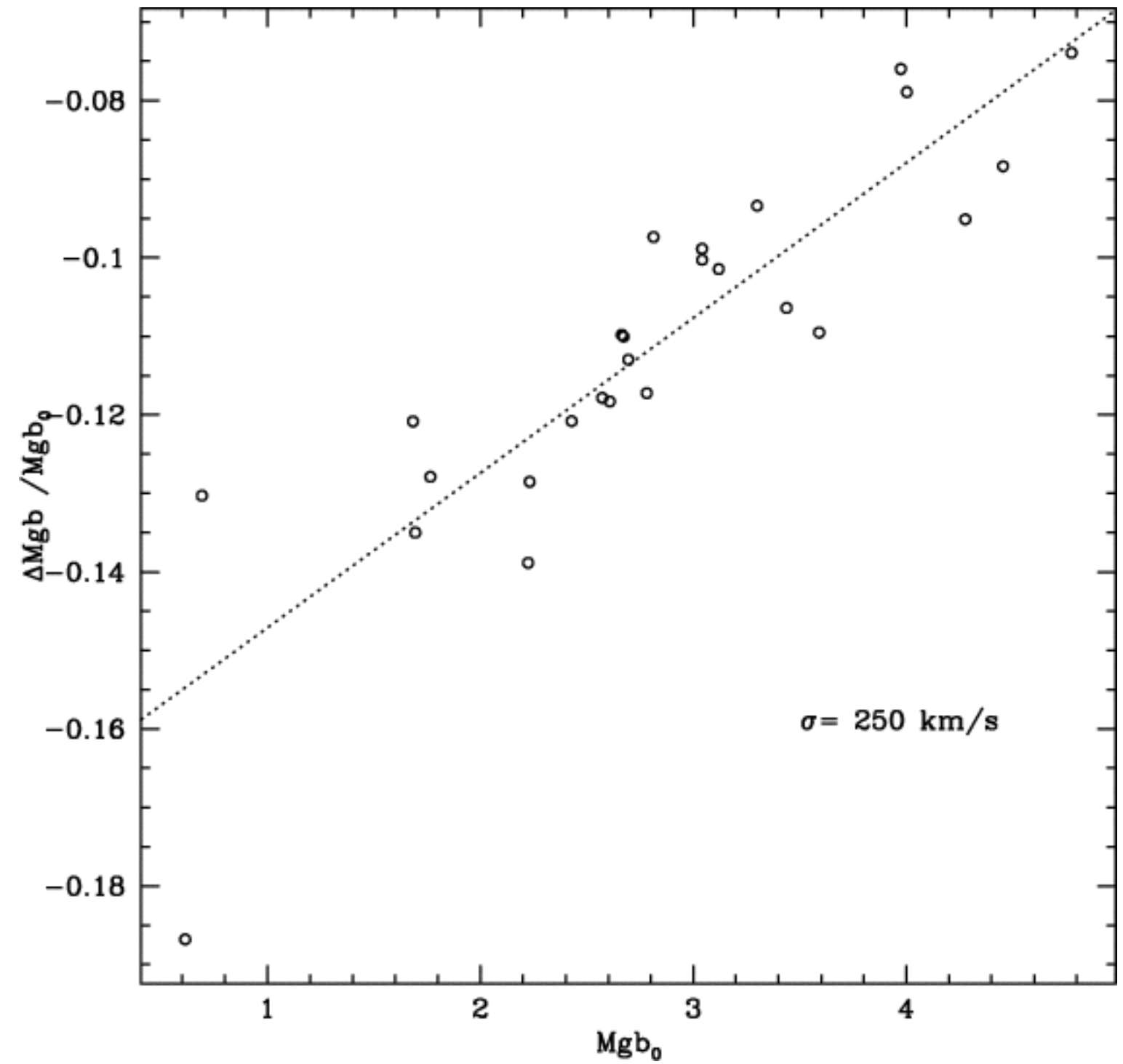
Mode

Arithmetic Mean



Variation

Dispersion



I-2. Inferential statistics-추론 적 통계

- parameter-매개변수
- population-모집단

1. nonparametric statics-비매개변수 통계

2. multivariate statics-다변수통계

1. analysis of variance-변산분석

2. factor analysis-요인분석

3. multidimensional scaling-다차원측정법

2. 프로그램 요소의 분석

1. 기능분석과 활동분석
2. 공간분석
3. 에너지분석
4. 비용분석

2-1. 기능분석과 활동분석

1. 기능분석

2. 활동분석

3. Sociophysical analysis models 사회물리적분석

기능체계

Primary Functions

조직체의 목표를 달성하는데 관련된 것

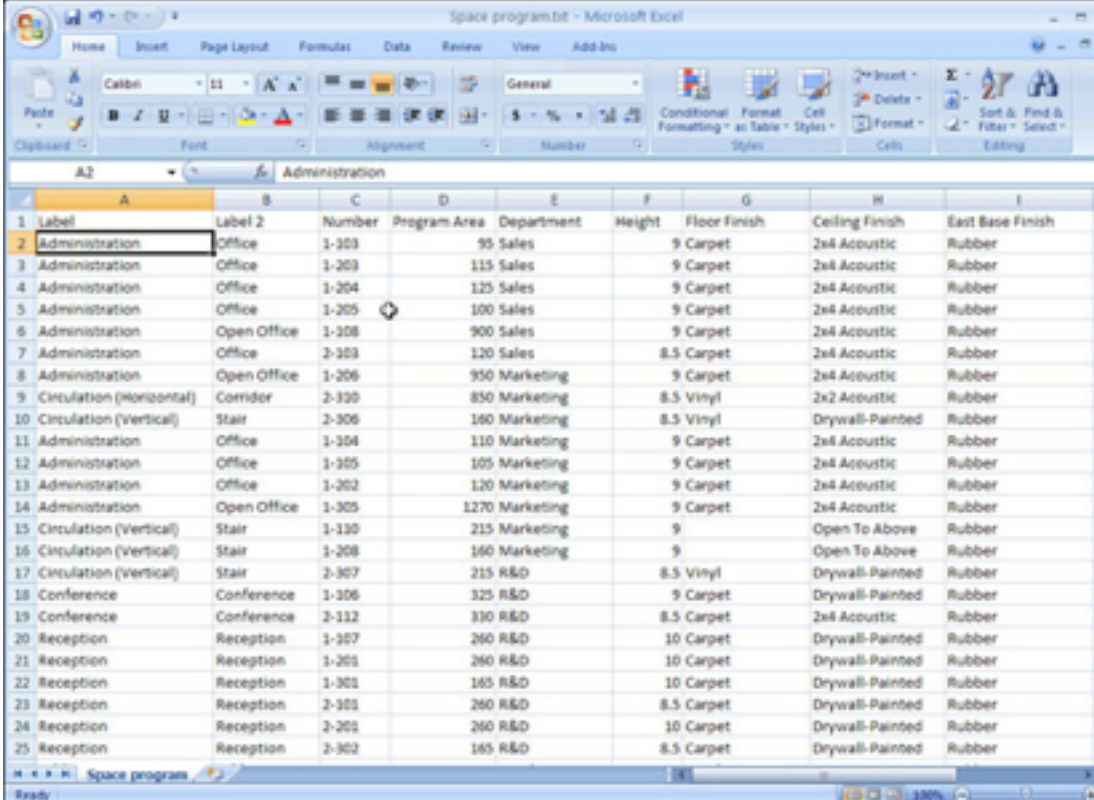
Secondary Functions

개개의 1차적 기능들을 유지하고 도와주고, 수행하는데 관계된 것들

Support Functions

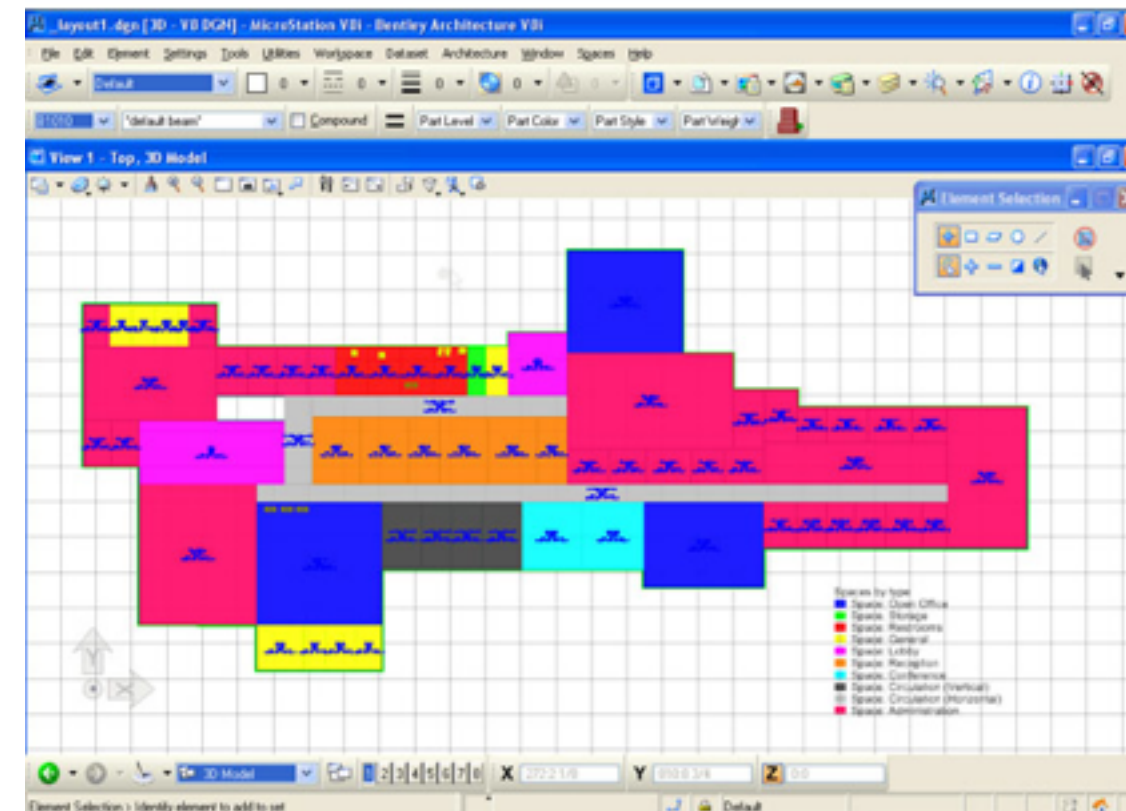
2-2. 공간분석

- Space programme



Space programme - Microsoft Excel

	A	B	C	D	E	F	G	H	I
1	Label	Label 2	Number	Program Area	Department	Height	Floor Finish	Ceiling Finish	East Base Finish
2	Administration	Office	1-303	95	Sales	9	Carpet	2x4 Acoustic	Rubber
3	Administration	Office	1-203	115	Sales	9	Carpet	2x4 Acoustic	Rubber
4	Administration	Office	1-204	125	Sales	9	Carpet	2x4 Acoustic	Rubber
5	Administration	Office	1-205	100	Sales	9	Carpet	2x4 Acoustic	Rubber
6	Administration	Open Office	1-308	900	Sales	9	Carpet	2x4 Acoustic	Rubber
7	Administration	Office	2-303	120	Sales	8.5	Carpet	2x4 Acoustic	Rubber
8	Administration	Open Office	1-206	950	Marketing	9	Carpet	2x4 Acoustic	Rubber
9	Circulation (Horizontal)	Corridor	2-330	850	Marketing	8.5	Vinyl	2x2 Acoustic	Rubber
10	Circulation (Vertical)	Stair	2-306	160	Marketing	8.5	Vinyl	Drywall-Painted	Rubber
11	Administration	Office	1-304	110	Marketing	9	Carpet	2x4 Acoustic	Rubber
12	Administration	Office	1-305	105	Marketing	9	Carpet	2x4 Acoustic	Rubber
13	Administration	Office	1-202	120	Marketing	9	Carpet	2x4 Acoustic	Rubber
14	Administration	Open Office	1-305	1270	Marketing	9	Carpet	2x4 Acoustic	Rubber
15	Circulation (Vertical)	Stair	1-130	215	Marketing	9		Open To Above	Rubber
16	Circulation (Vertical)	Stair	1-208	160	Marketing	9		Open To Above	Rubber
17	Circulation (Vertical)	Stair	2-307	215	R&D	8.5	Vinyl	Drywall-Painted	Rubber
18	Conference	Conference	1-306	325	R&D	9	Carpet	Drywall-Painted	Rubber
19	Conference	Conference	2-112	330	R&D	8.5	Carpet	2x4 Acoustic	Rubber
20	Reception	Reception	1-307	260	R&D	10	Carpet	Drywall-Painted	Rubber
21	Reception	Reception	1-201	260	R&D	10	Carpet	Drywall-Painted	Rubber
22	Reception	Reception	1-301	165	R&D	10	Carpet	Drywall-Painted	Rubber
23	Reception	Reception	2-301	260	R&D	8.5	Carpet	Drywall-Painted	Rubber
24	Reception	Reception	2-201	260	R&D	10	Carpet	Drywall-Painted	Rubber
25	Reception	Reception	2-302	165	R&D	8.5	Carpet	Drywall-Painted	Rubber



2-3. 에너지 분석

설계변수

- 물리적 요인

- 단위공간규모
- 연면적
- 공간구성
- 기능
- 형태
- 외장설계
- 구조
- 환경조절
- 조명시스템
- 기계시스템

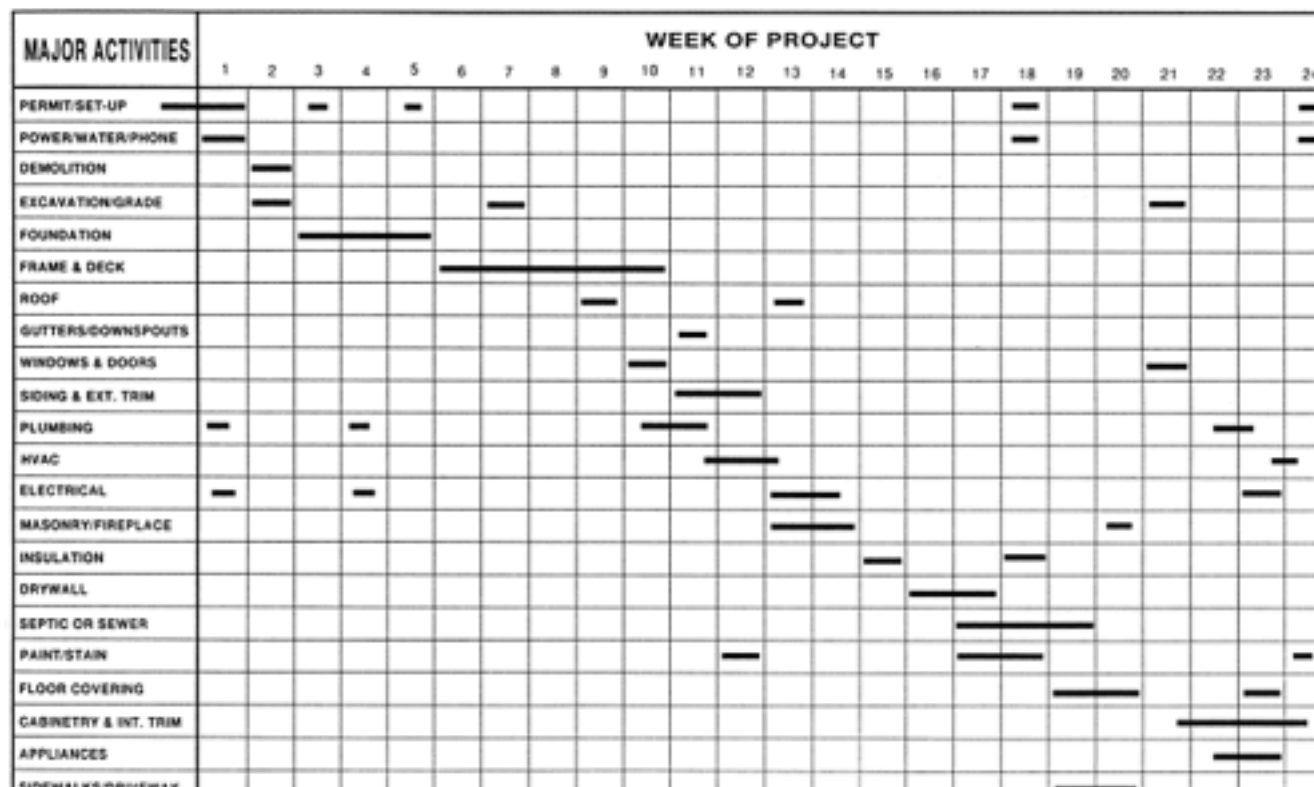
- 인간적 요인

- 대상
- 활동
- 사용일정표
- 운용 및 유지
- 쾌적조건
- 선호/가치

- 외적요인

- 에너지가격
- 에너지공급
- 기후
- 대지위치
- 대지조건
- 태양열취득
- 법규/규준
- 재료 및 정비비용
- 대안적인 에너지원

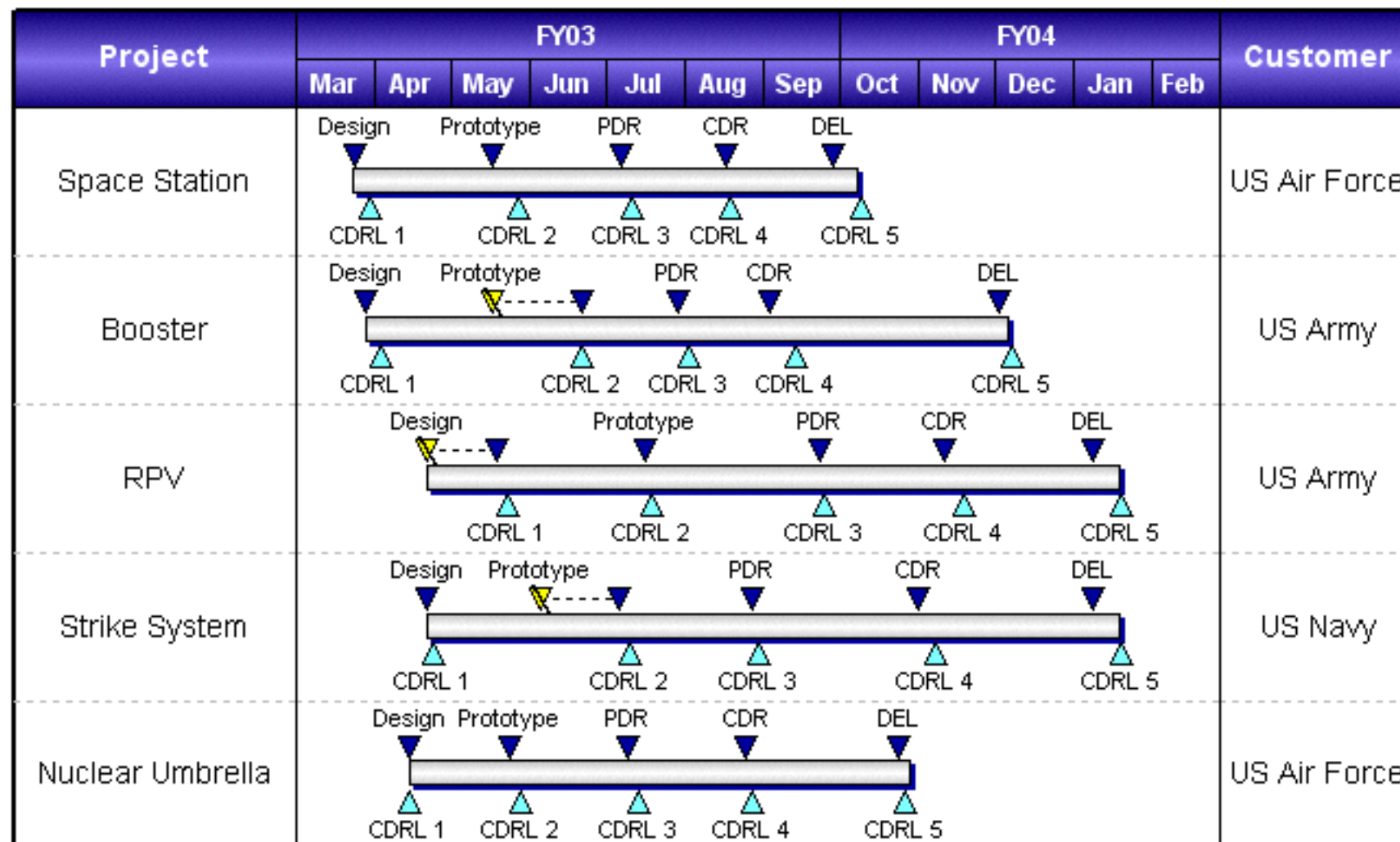
2-4. 비용분석



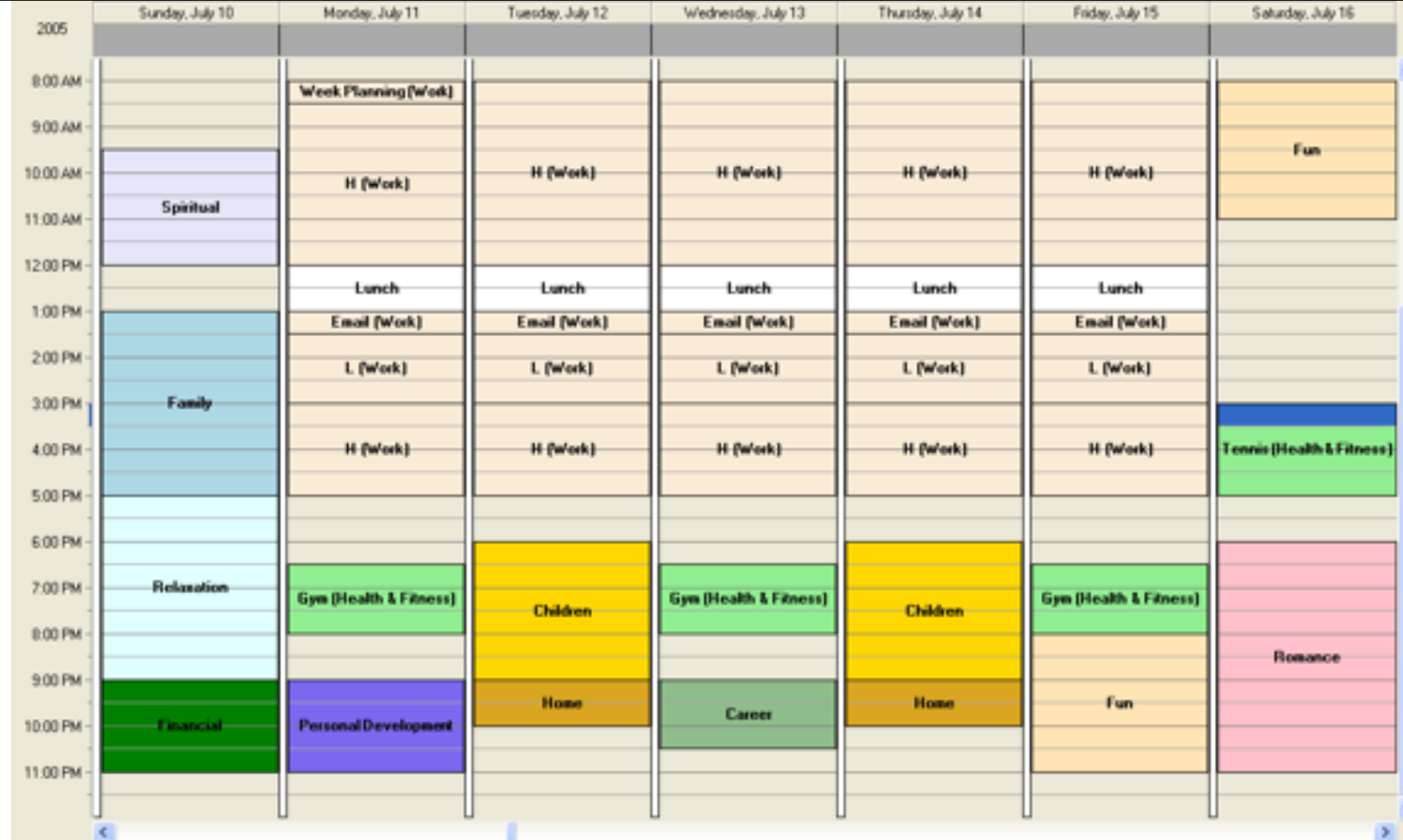
Bar Chart

Aerospace Company Summary of All Projects

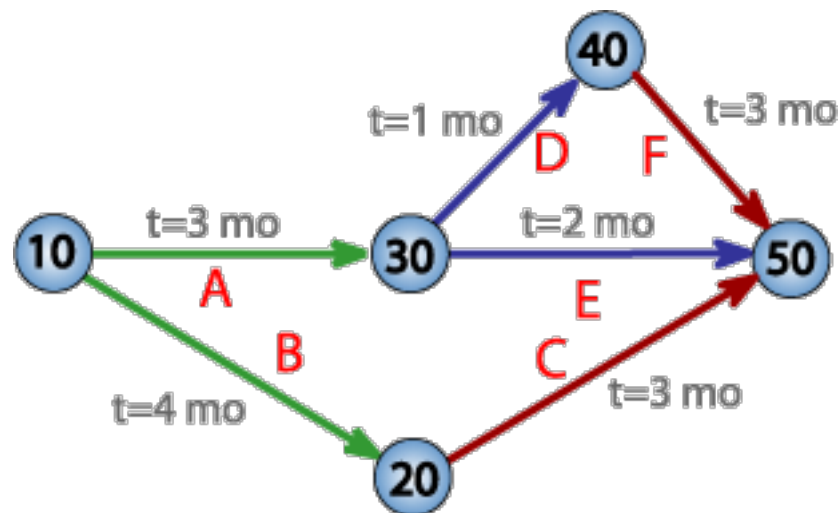
Created Using Milestones Software
www.kidasa.com



Milestone Chart



Activity Time Chart



Network Chart

Airplane Design Process

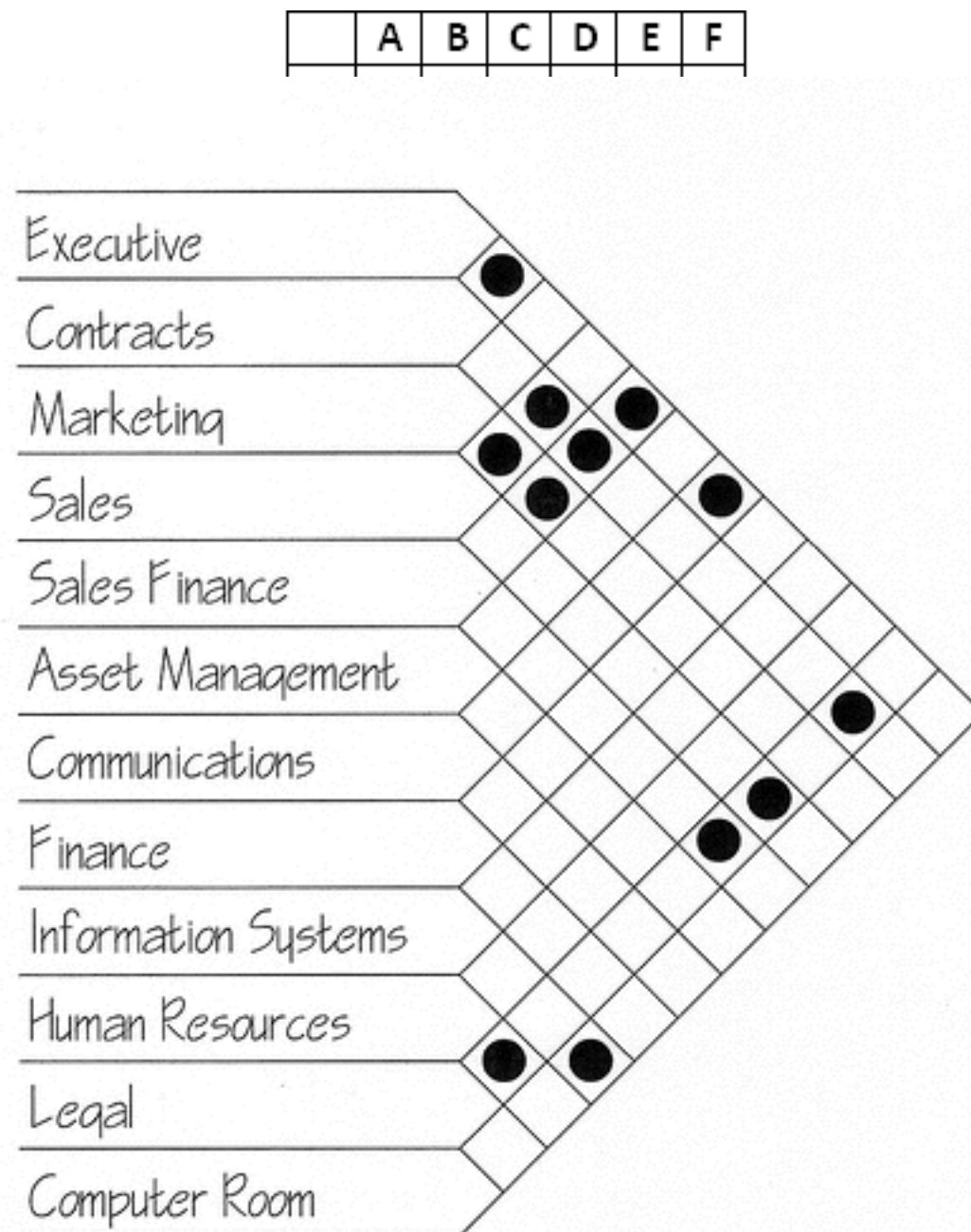


Activity Time Chart

3. 자료종합

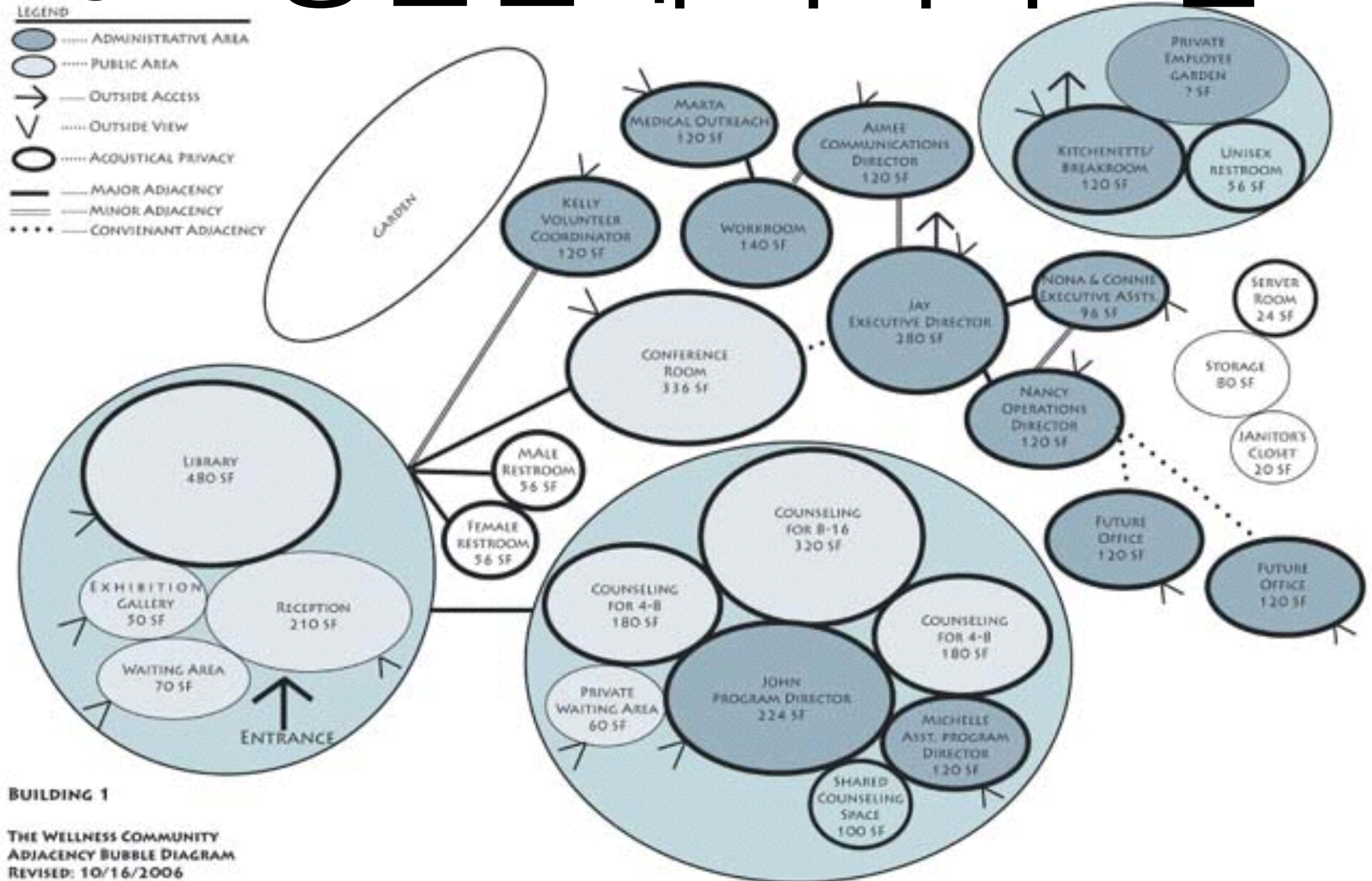
1. 관계 매트릭스
2. 상관관계 다이어그램
3. 분석카드
4. 작업표

3-1 관계 매트릭스



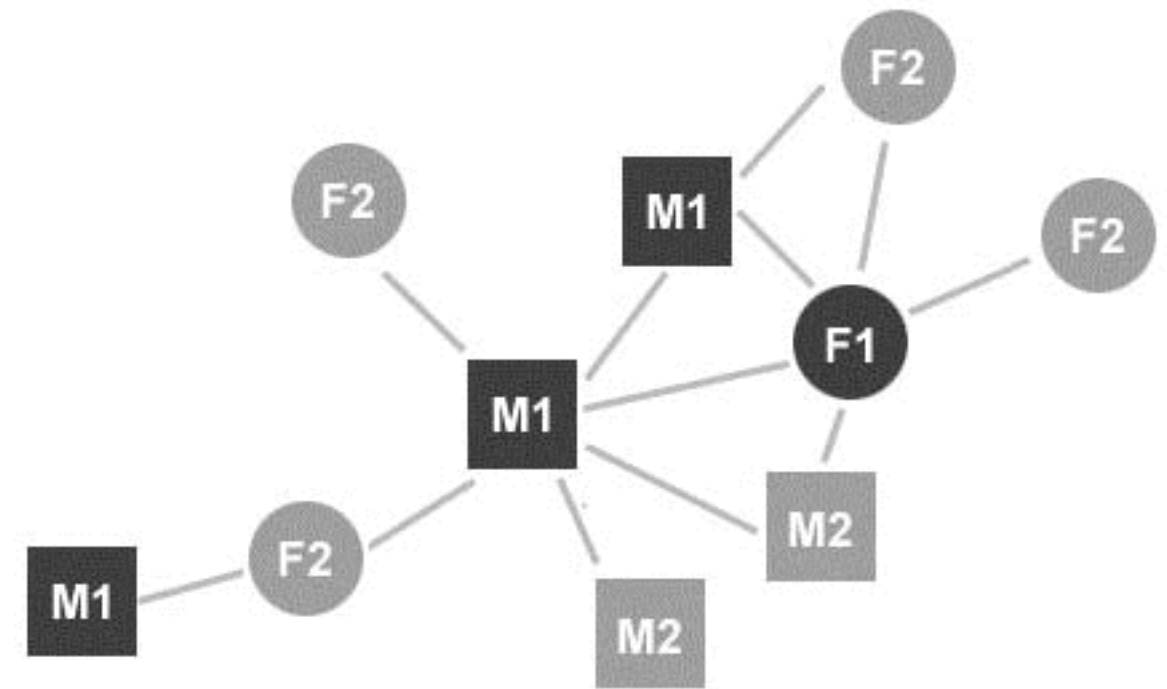
Adjacency Matrix

3-2 상관관계 다이어그램

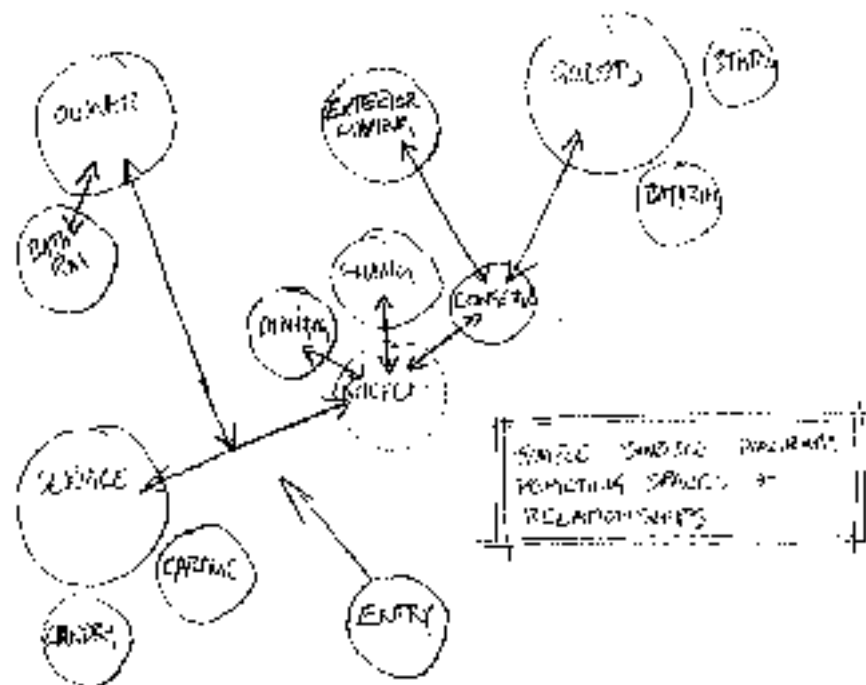




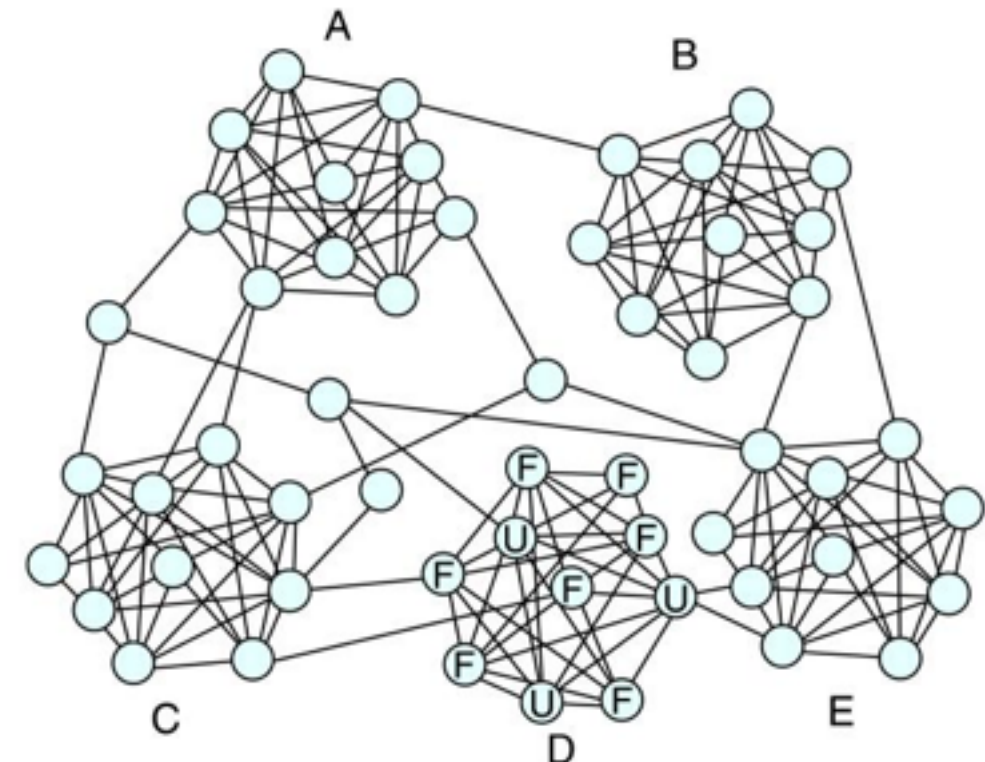
Social Map



Link-node Diagram



Bubble Diagram



Interaction Net

3-3 분석카드

3-4 Worksheet작업표

