

UBIQUITOUS
AUTONOMIC
COMPUTING
AND
NETWORK

Project Goal | Project Feature | Process

Project Goal

Project Overview

Project 가 , 5 R&D Institutes, 14 Companies 19
 . 2003 2013 10 3 3 , 'Ubiquitous
 Autonomic Computing and Network' U-Korea .

Our goal - SAIT

product service , ideation 가 refine 가 mock up ubiquitous .

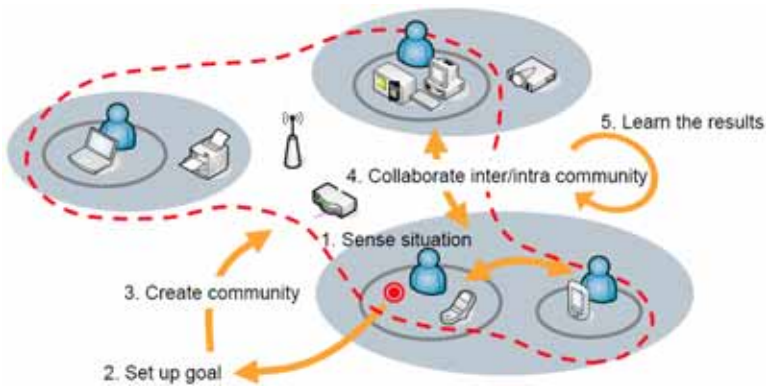
Project Goal | **Project Feature** | Process

Project Feature

U-City Integration Platform

Community-based Service Model

가



0-1 Community Computing Model

Project Goal | **Project Feature** | Process

Project Feature

Well-being Life Care

(Ubiquitous Computing)

Well-being

37가 Domain

Healthcare/Wellness

가

가

Public Safety

, security() safety()
online

offline

Environment Preservation

Environmental Preservation

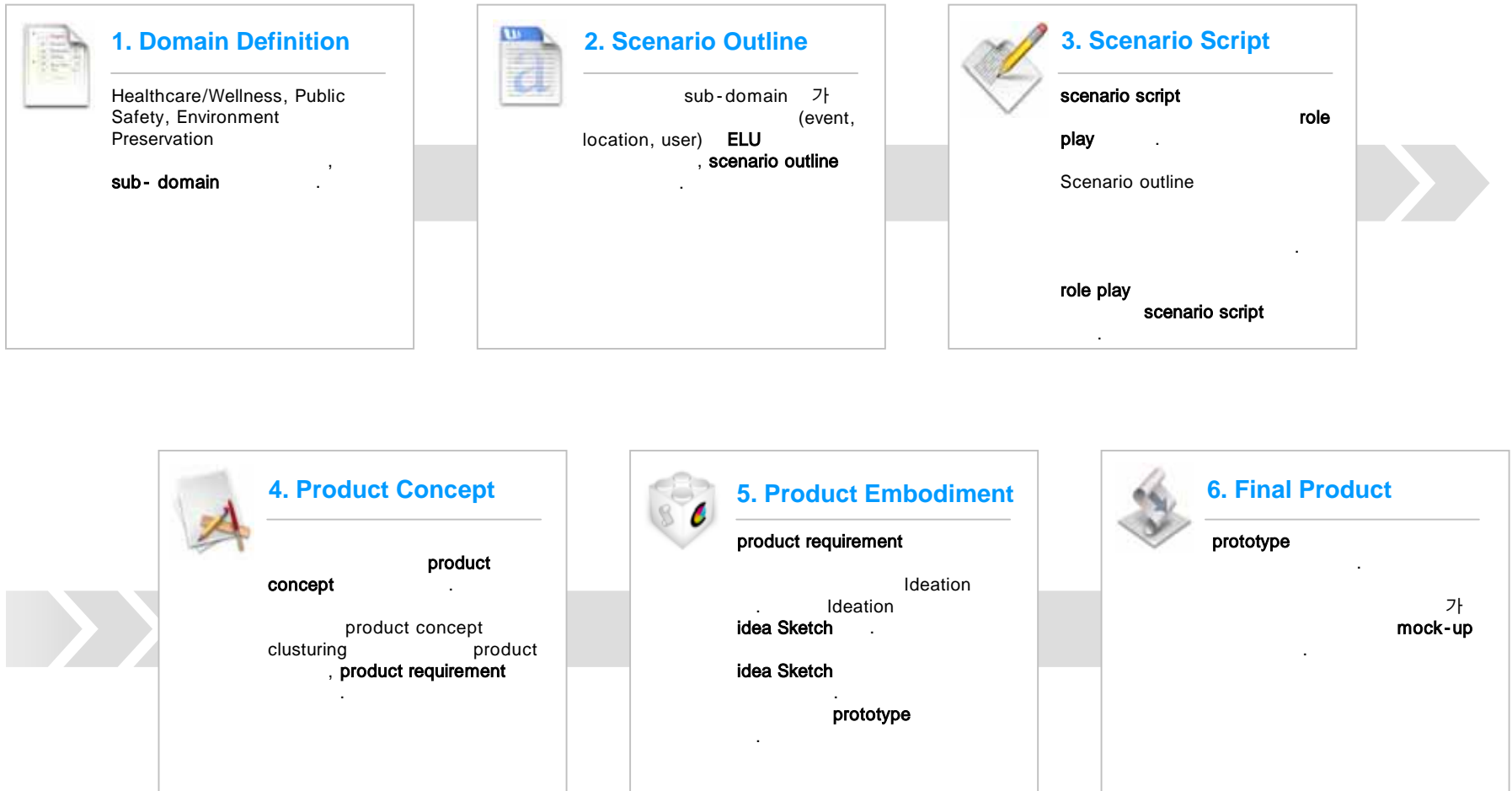
Technical Principles

Situation Aware

Autonomic

Self-growing

Process



Process



1. Domain Definition

Overview

Healthcare/Wellness, Public Safety, Environment Preservation, sub-domain

1_1 Domain

-
_ u-city

1_2 Sub domain

- 가
- Health, Safety Domain Clustering Sub domain, Brain Storming
- Environment Domain 가 Domain 가
Event 가 Event Clustering Sub domain

Process



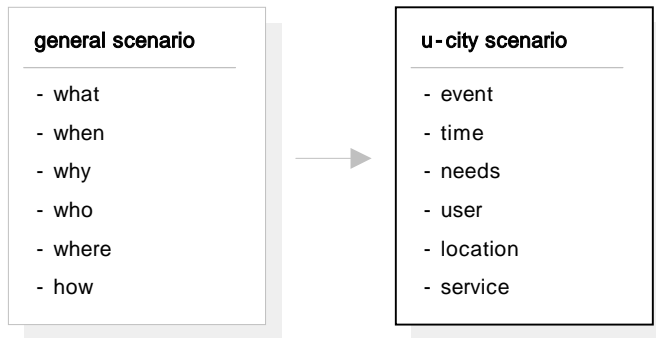
2. Scenario Outline

2_0 Overview

u-city life (event, location, user) ELU , scenario outline sub-domain 가

Scenario constitution

u-city 5W1H (what / when / where / who / why / how) 5W1H U-CITY 5W1H



Process



2. Scenario Outline

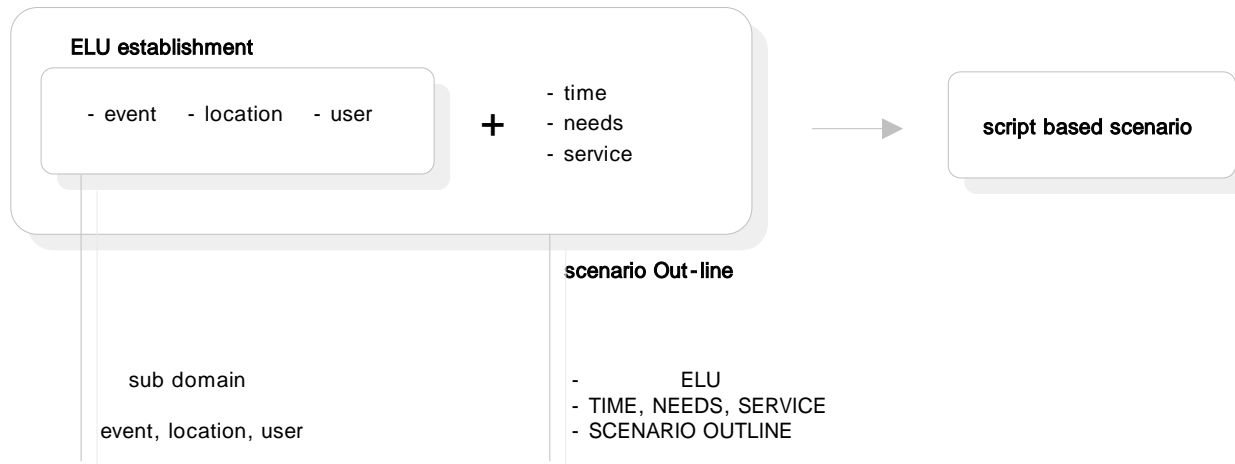
2_0 Overview

u-city life (event, location, user) ELU , scenario outline sub-domain 가

Scenario constitution

U-CITY Scenario Out-line

ELU 가 ELU (Event, Location, User) (time, needs, service) 가 U-CITY Scenario Out-line



Process



2. Scenario Outline

2_0 Overview

u-city life (event, location, user) ELU , scenario outline . sub-domain 가

Process of ELU methodology

- event, location, user
-
1. Sub Domain Event , ELU Methodology Event .
 2. Event ELU Method Location User ELU .
 3. ELU Scenario Outline .

Process



2. Scenario Outline

2_0 Overview

u-city life (event, location, user) ELU , scenario outline sub-domain 가

Definition of ELU elements

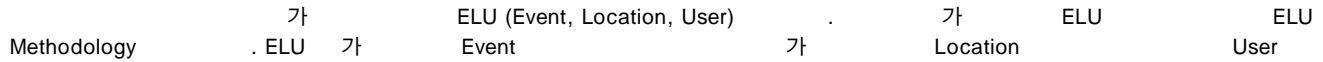
event	U-CITY Ubiquitous Service 가 Event List-up Scenario 가 Event	.
	- Event list-up U-CITY Guide-line Event Event Sub Event	.
location	u-city 가 가 가 (likelihood) location (impact)	.
user	u-city 가 가 user (likelihood) (impact)	.

Process

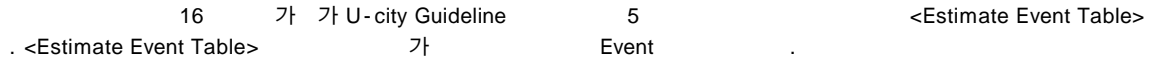


2. Scenario Outline

2.1 ELU Methodology



Event Selection



U-city Guideline

상위 평가를 받은 Event

	A	B	C	D	E	F	G	H	
1	서비스의준도	사회적 파급효과	사용자만발생해도	사회적 Trend	안정	향후 발전가능성	여부	계	평균
2	에	3.19	2.31	2.94	2.06	2.13		12.63	2.53
3	건	1.94	2.19	2.25	3.44	2.50		12.31	2.46
4	부	4.13	3.81	1.06	4.25	4.94		19.19	3.84
5	자	0.94	2.06	3.44	3.25	1.88		11.56	2.31
6	미	1.13	2.31	3.38	4.13	2.19		13.13	2.63
7	경	2.13	3.06	0.88	3.31	4.19		13.56	2.71
8	신	1.88	1.94	2.06	2.25	3.00		11.13	2.23
9	신	2.19	3.06	2.13	2.19	3.31		12.38	2.53
10	신	3.25	3.44	4.19	4.88	3.88		19.63	3.93
11	신	2.19	2.31	1.88	3.44	3.31		13.13	2.63
12	신	1.13	2.00	2.25	3.13	3.25		11.75	2.35

< Estimate Events Table >

Events

Process



2. Scenario Outline

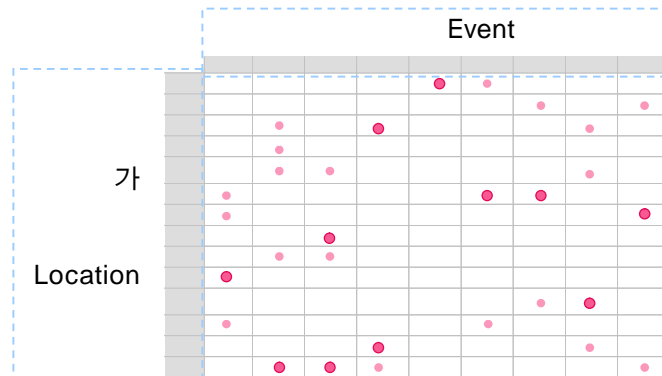
2_1 ELU Methodology

Location Selection

<Estimate Event Table> 9 Event 가 , U-city 가 Location
 <Estimate Location Table> .

<Estimate Location Table> 가 Likelihood .

16 가 가 가 가 ● , ● .



Process



2. Scenario Outline

2_1 ELU Methodology

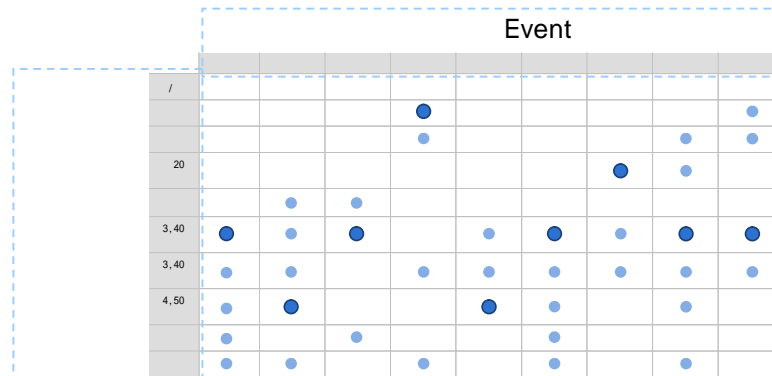
User Selection

<Estimate Event Table> 9 Event 가 , U-city

<Estimate User Table>

<Estimate User Table> 가 Likelihood user

16 가 가 가 가 User ● , User ●



Process



2. Scenario Outline

2.2 Scenario Outline

Scenario Outline Table . Outline IT Scent, Inconvenient Factors, Object, U-city Scene Scenario Script .

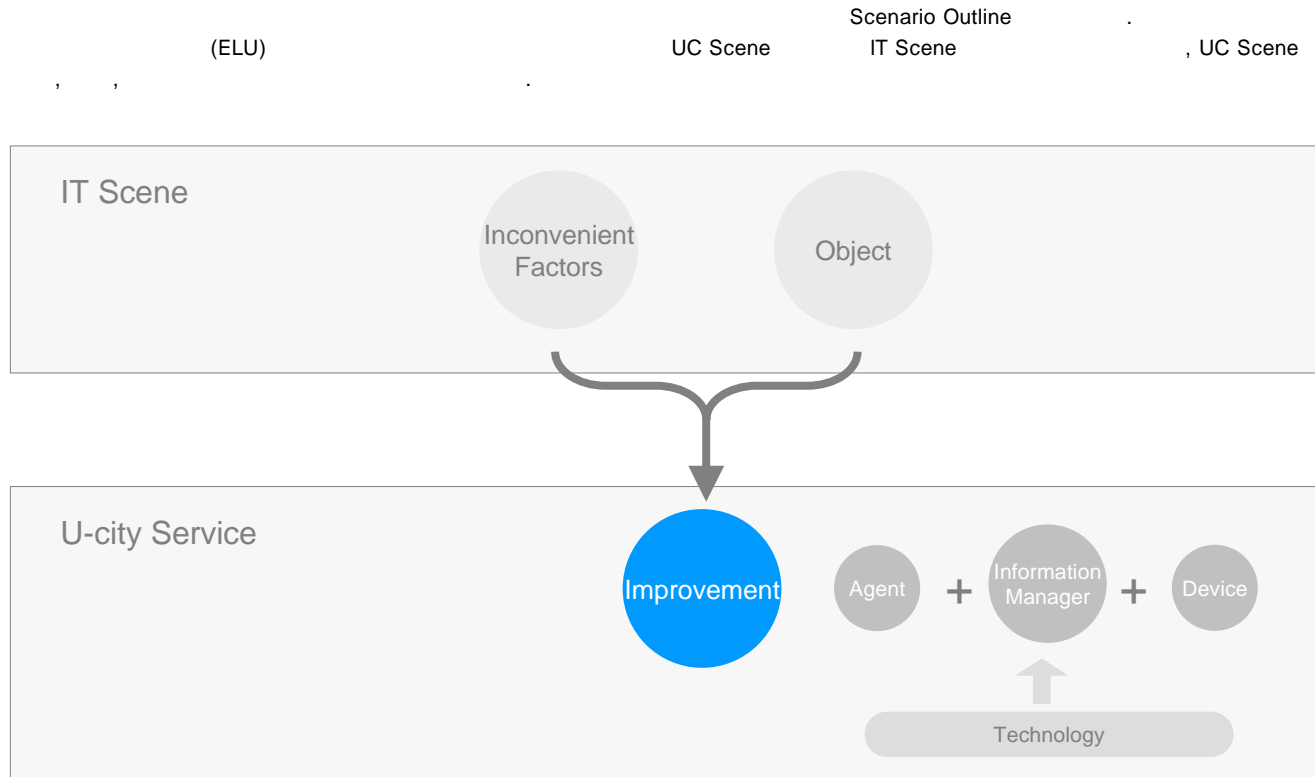
IT Scene	Event가		
Inconvenient Factors	IT Scene		
Object			
U-city Scene	Inconvenient Factors	Object	
Service	UC Service Manager, Device		, Information

Process



2. Scenario Outline

2.2 Scenario Outline

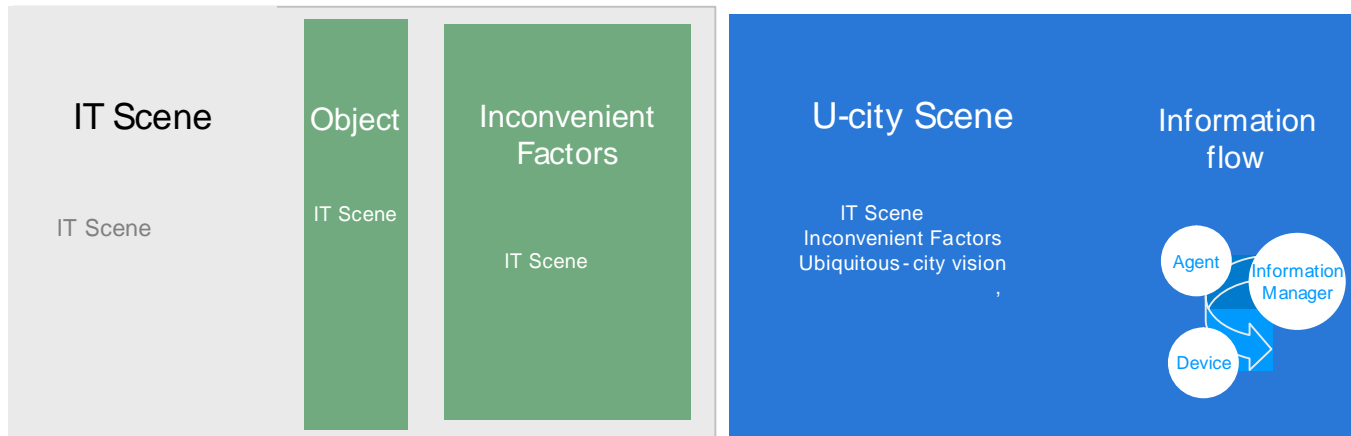
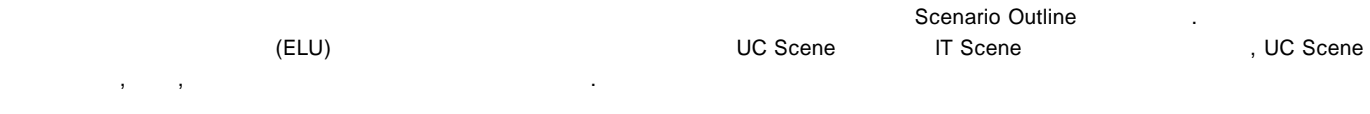


Process



2. Scenario Outline

2.2 Scenario Outline



Process



3. Scenario Script

3_1 Role Play

Outline

Scenario Script

가

Role Play?

가

가

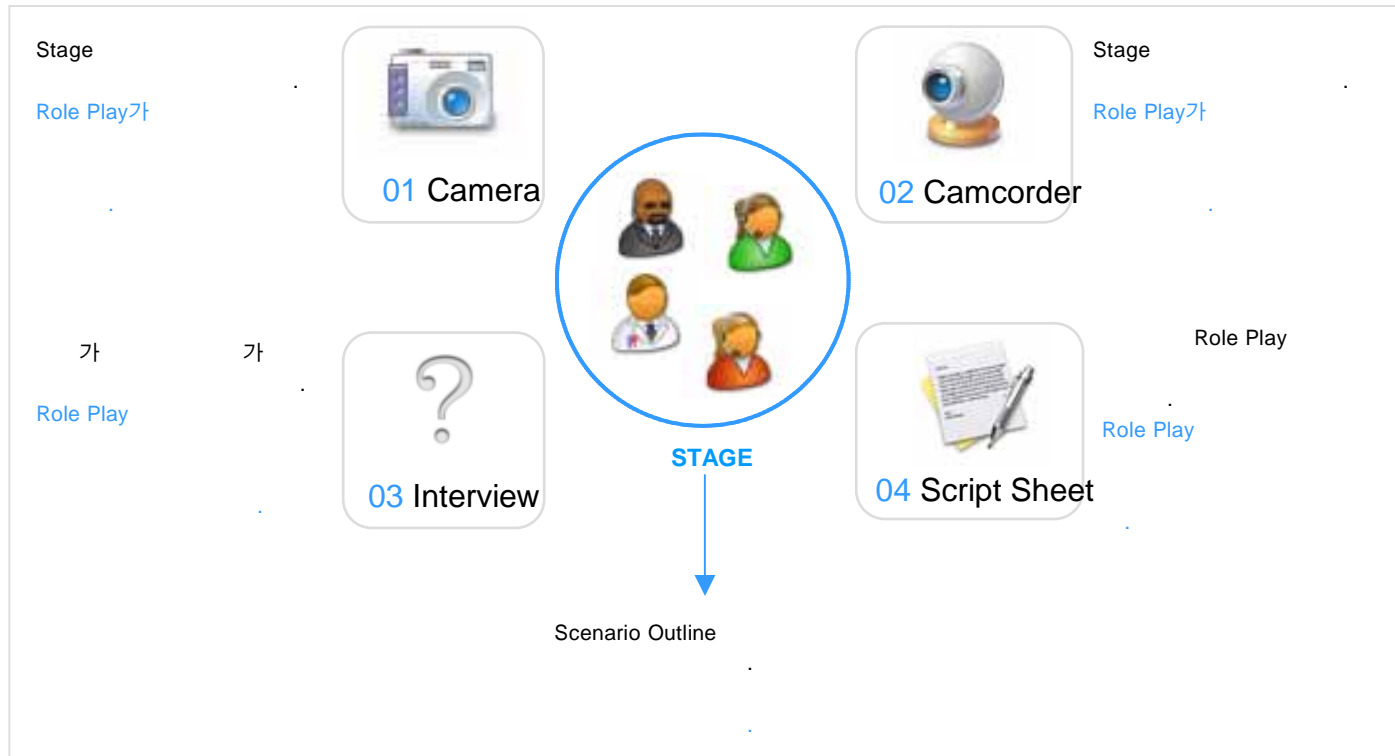
,가

Process



3. Scenario Script

3_1 Role Play



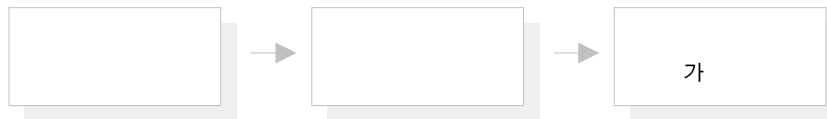
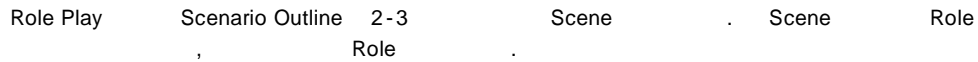
Process



3. Scenario Script

3_1 Role Play _example

Building Role Play



Objective	U-city Scene







Process



3. Scenario Script

3_1 Role Play _example

Profile

Role play Role	Role	Role	Role	Role	Role
		-	,	,	
		-	가	가	,
	OMD	-	,	,	
		-	EMR/ EHR	,	

Process



3. Scenario Script

3_1 Role Play _example

Result of Role Play

Role Play	audience	Idea	comment
IDEA	-		AR
	-	OMD	(, ,)
	-		
POINTS TO BE CONSIDERED	-		가 가? 가 가?
	-		가 가? 가?
	-		가?

Process

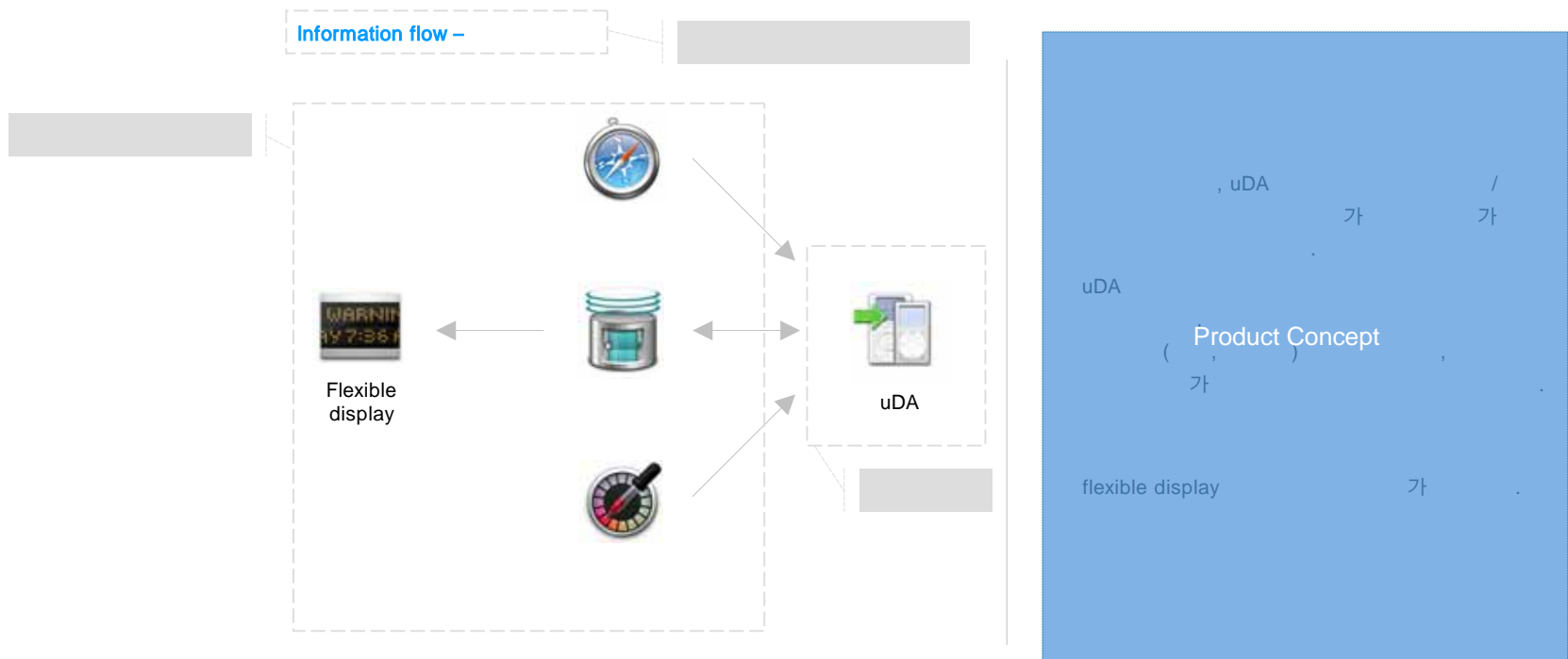


4. Product Concept

4_1 concept

Product Concept

가



Process



4. Product Concept

4.2 Product Concept

- Domain / Product Concept Domain (Domain) /

Product / Service	Scenario									Classification (O: , P) , S:)	
	1	2	3	4	5	6	7	8	9		
Flexible Display											S
uDA											O
Smart T- Card											P
Spot Env. Sensor											S
U Traffic Sign List					/		가				P
U Bus Station											S
Flexible Road Sign											P

Process



4. Product Concept

4_3 Product Requirement

Technology, Form Factor, Interface
Concept

OMD For Fireman

Domain _Safety
Scene No. _S2-2
Definition _화재진압을 도와주는 소방관을 위한 Device

Technology Form Factor Interface

Product Function	Technology
다른 대원과의 communication 각종정보의 display가 고온에서 사용 가능한 Device 물로부터 자유로운 Device	기기간 Data 송수신 기술 시스템과 기기간 Data 송수신 기술 화면을 통해 보여주는 기술 화면 없이 보여주는 기술 열에 강한 물질 방수가능 물질

(4-1 Product Requirement)

Process



4. Product Concept

4_3 Product Requirement

Technology Form Factor Interface

Section	Elements	Requirement
Overall	Mobility	
	Size / Weight	
	Shape	PDA 가 가
	Grip type	Table
	Power	battery
Composing Parts	Display	가 Main Display Display
	Camera	가 가
	Speaker	가
	Text Input	, ,
	Pointing	가
	Memory	
	Microphone	

(4-1 Product Requirement)

Process



4. Product Concept

4_3 Product Requirement

Technology Form Factor **Interface**

Interaction Style		Information	Requirement
Input	Text Input	text	,
		가	가
	Pointing 가	text	natural mapping
Output	Display 1	Text	, data
	Display 2		, data data
			가 가

(4-1 Product Requirement)

Process



5. Product Embodiment

5_1 Idea Sketch_ example

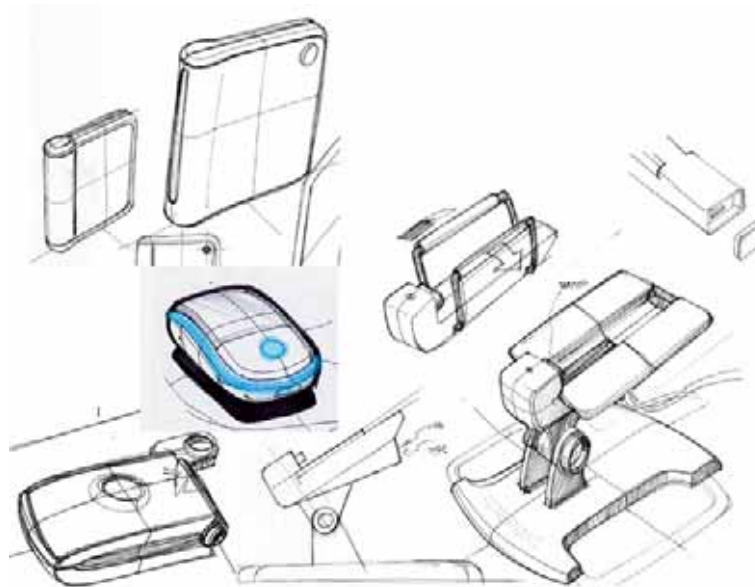
Idea Sketch1

product requirement

Ideation

Ideation

idea Sketch



Process



5. Product Embodiment

5_1 Prototype_example

idea sketch

prototype

Prototype1: Child Tag

— , 가 , 가 .



Project Goal | Project Feature | **Process**

Process



6. Final Product

prototype

