

R&D

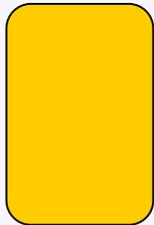
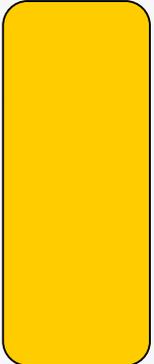
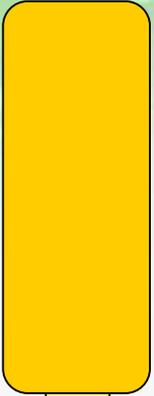
⋮



Seoul Development Institute



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- (IT, BT, ET)

- R&D . 가

- R&D

- R&D

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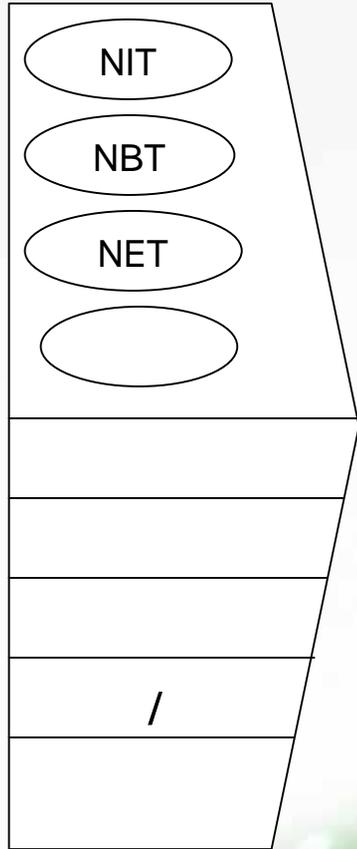
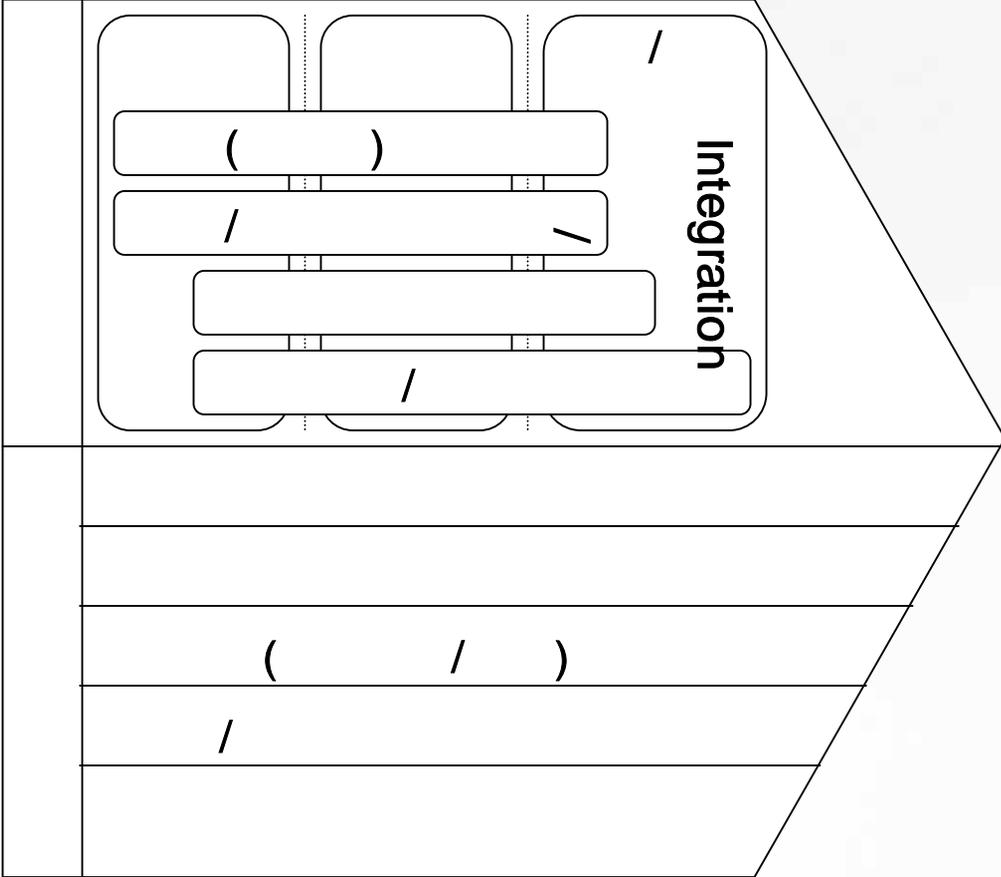
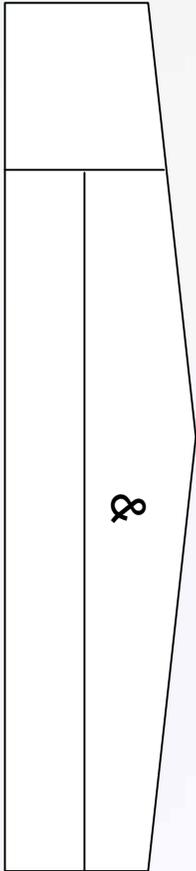


Cluster (가)

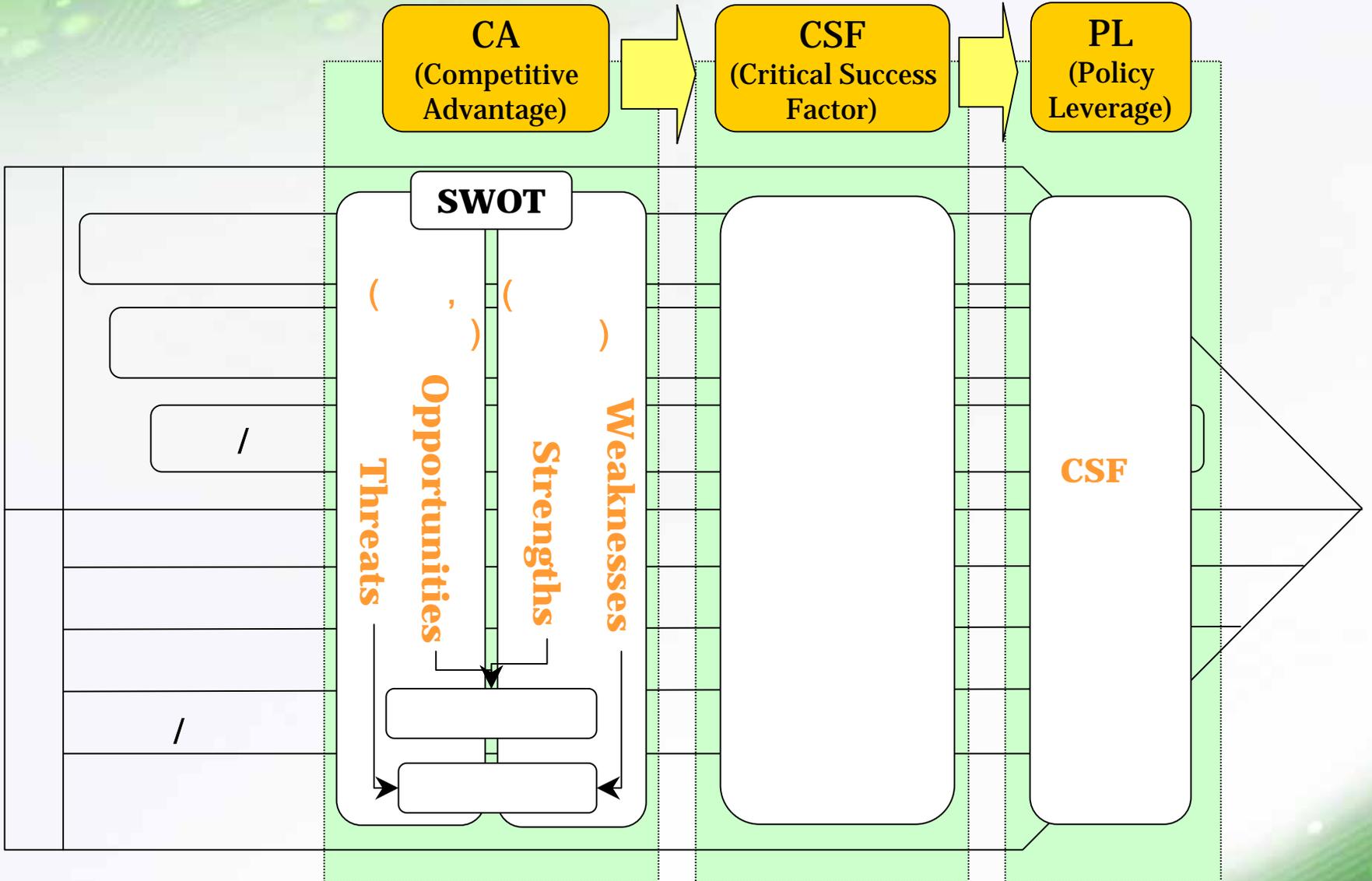


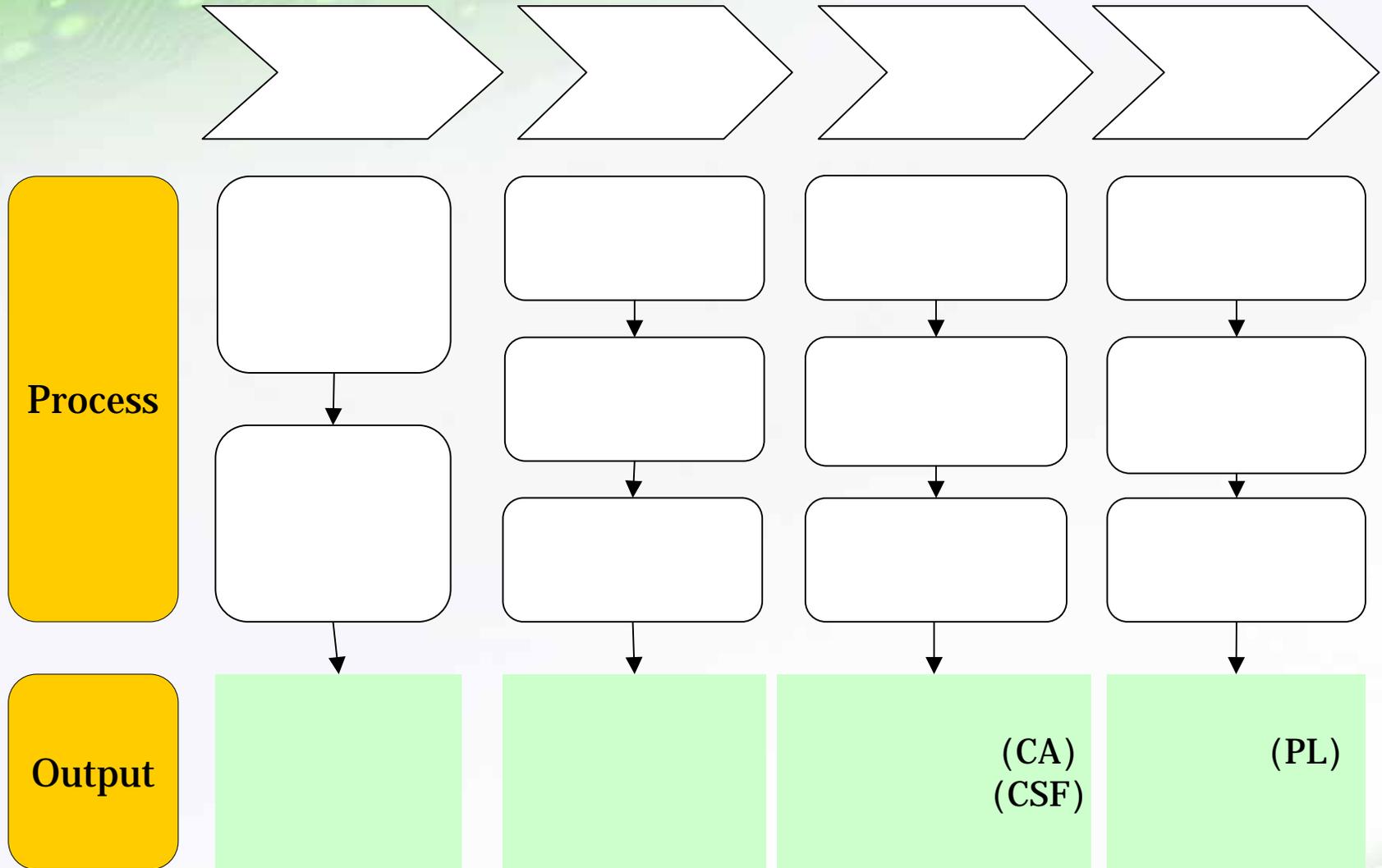
Cluster

Vision



가
R&D Hub





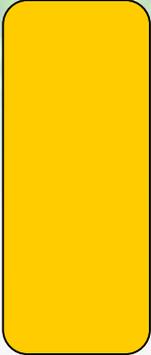
Process

Output

(CA)
(CSF)

(PL)

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- (IT, ET, BT)
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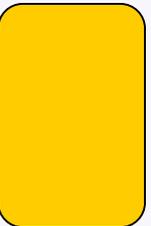
- (Nano) : (nanos :)
- $1\text{nm} = 1/10^9 \text{ m}$

- : 가



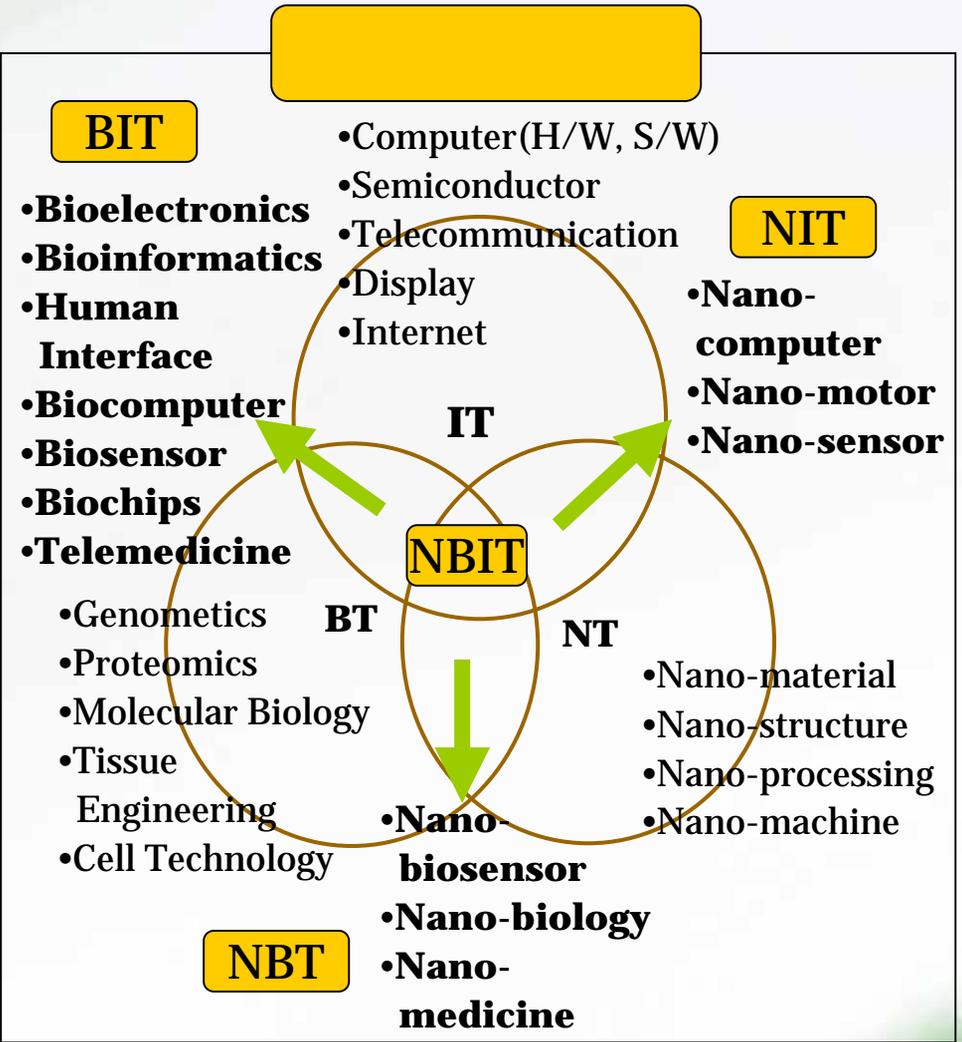
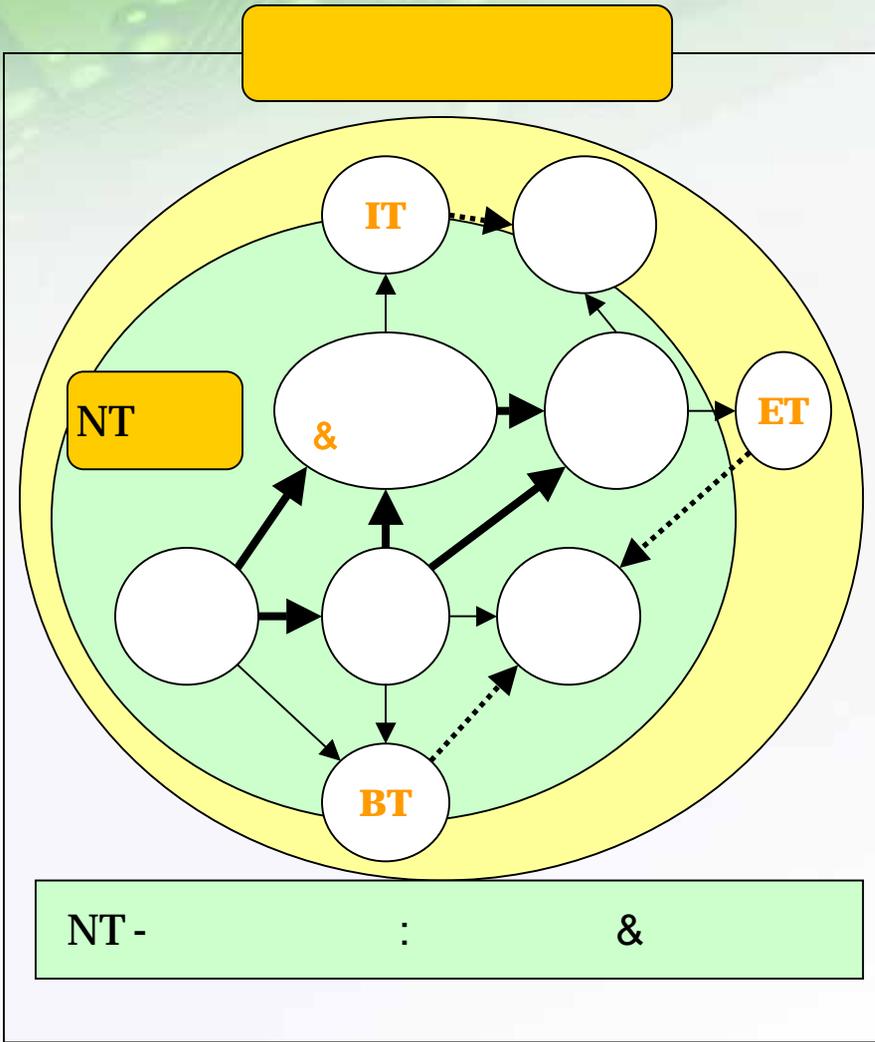
- Top-down : 가

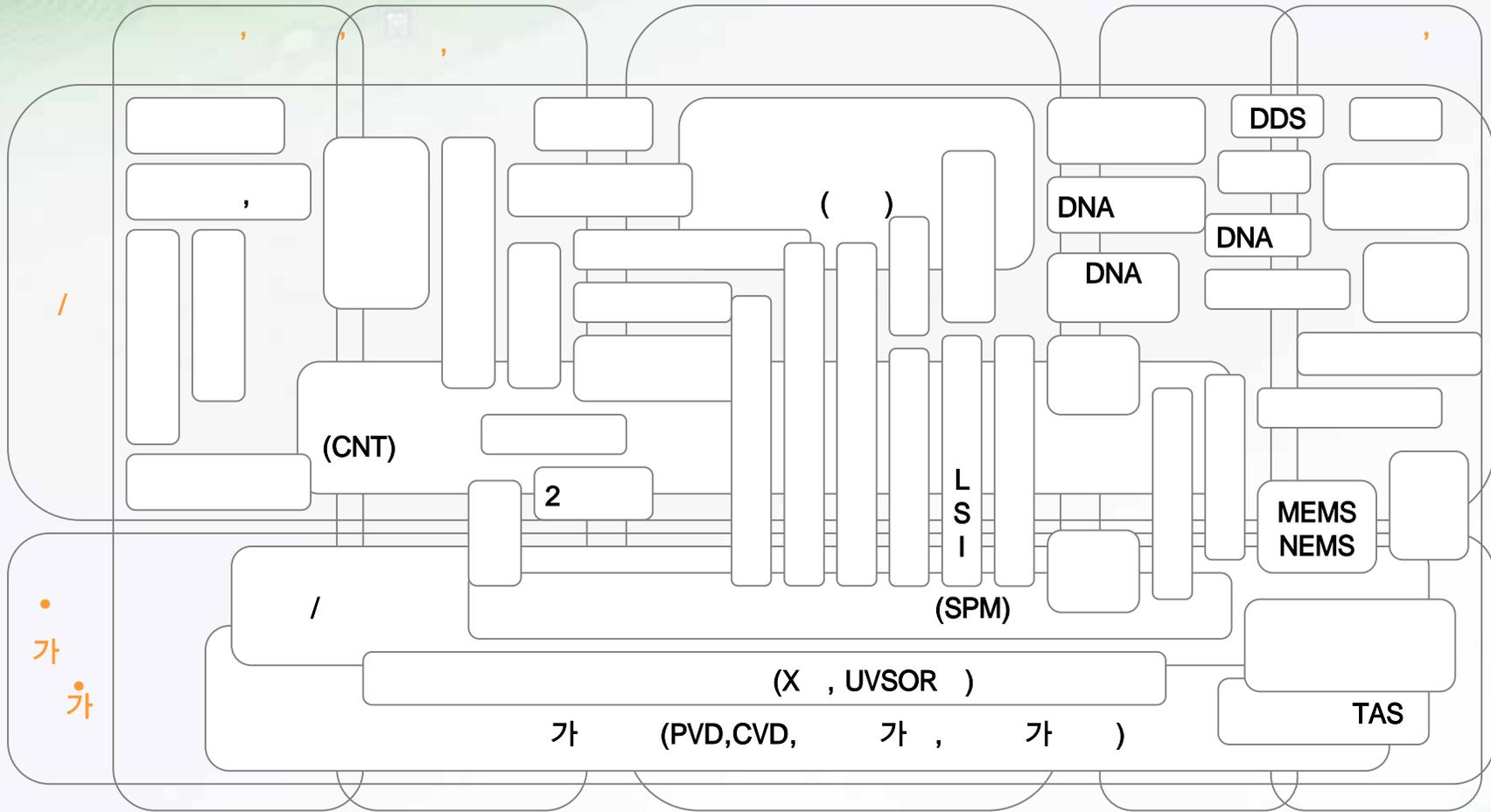
- Bottom-up : (,) 가



- , , , ,

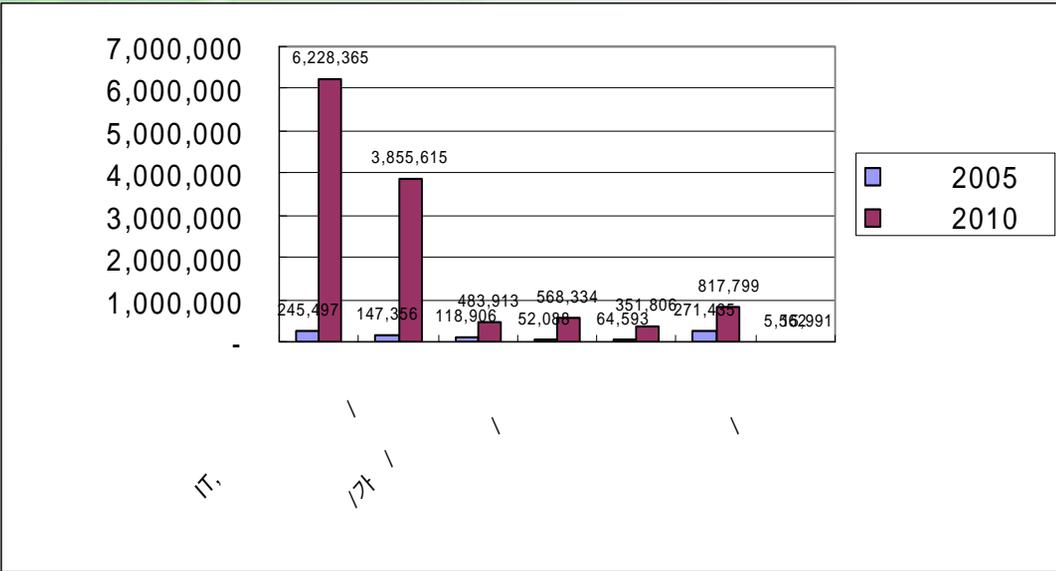
(IT, BT, ET)





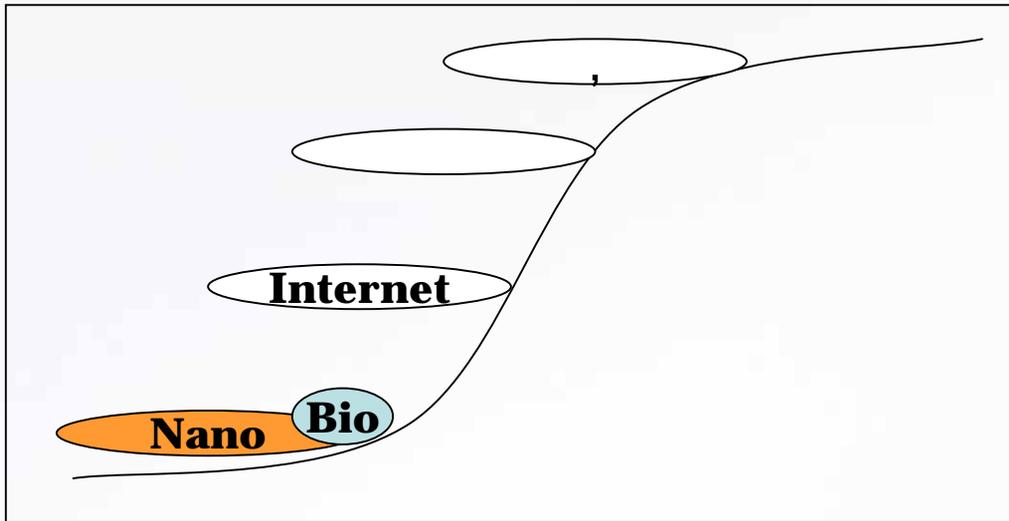
가 , /

In
The
Future



(μ)

At
Present



/

(IT)

IT

NT

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- _____ 가

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- _____ , Risk

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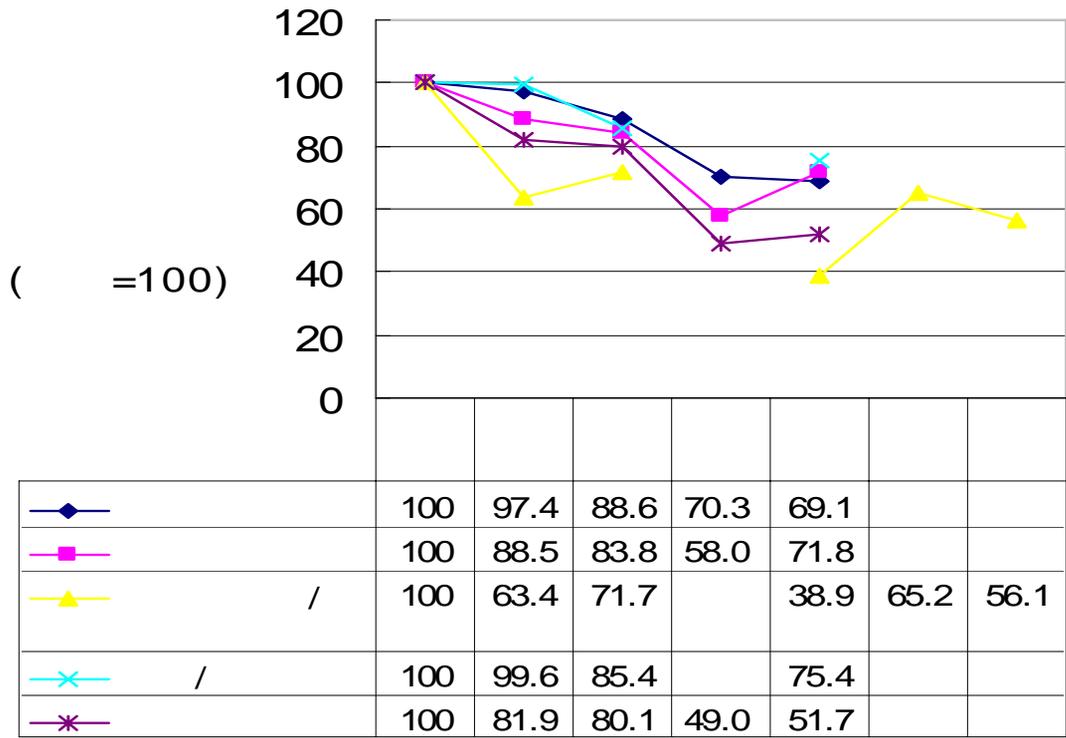
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(,)

가 (KISTI)



• : 5
 • : 2
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 - 5 , / . 2001 25%, 2005 66% ()

가

(CSF, Critical Success Factor)

(R&D)

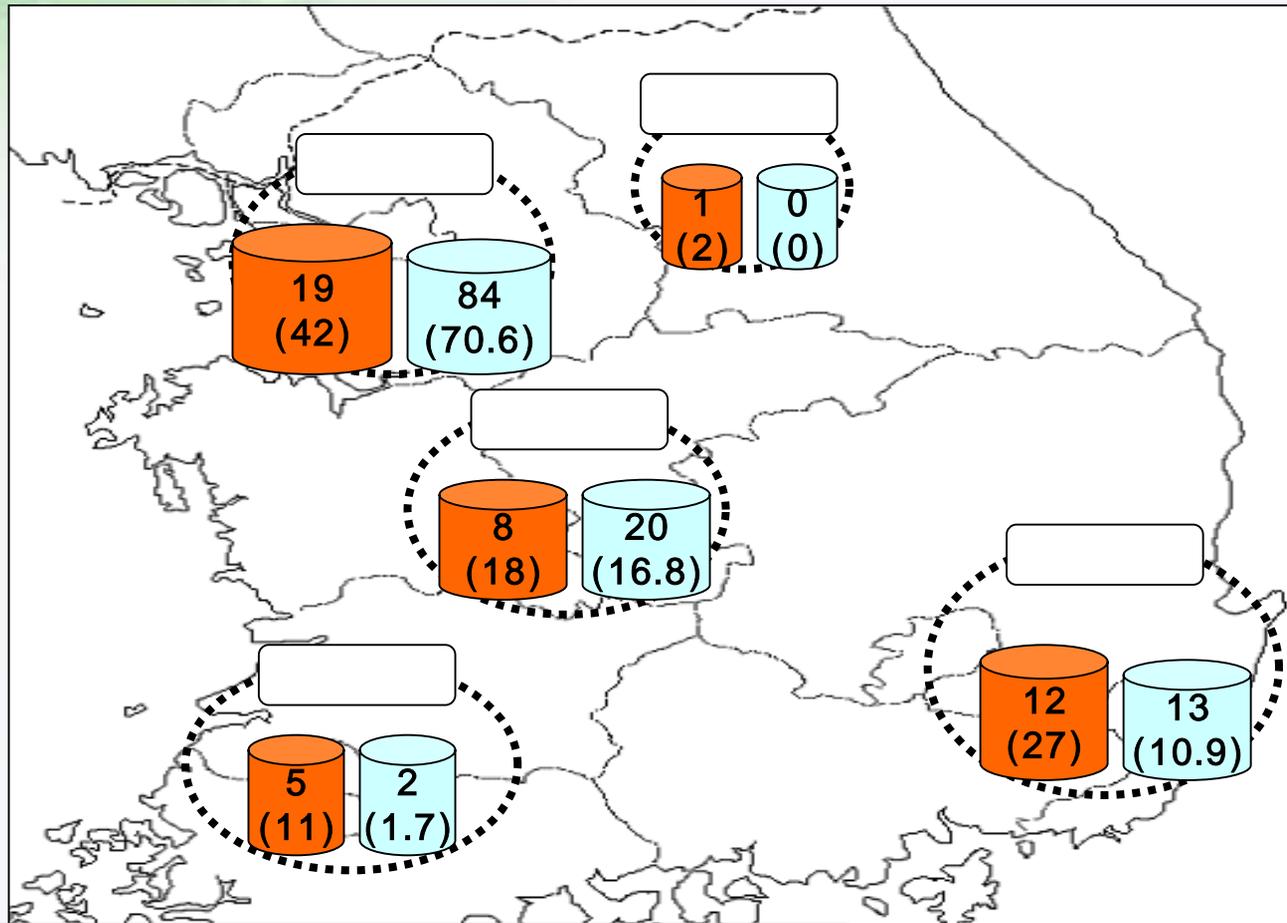
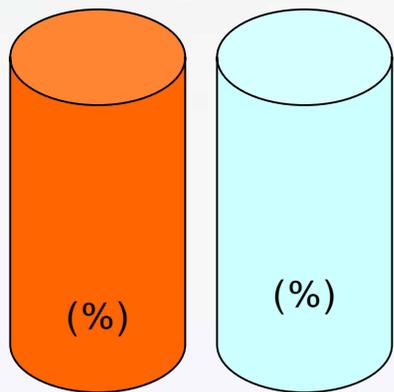
- , (, , 가 , ,)
- / (/ ,)
- / (가 ,)
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- Online , , Contents (, ,)

- (, ,)
- , (,)

- , (全 가)

- 內 ()



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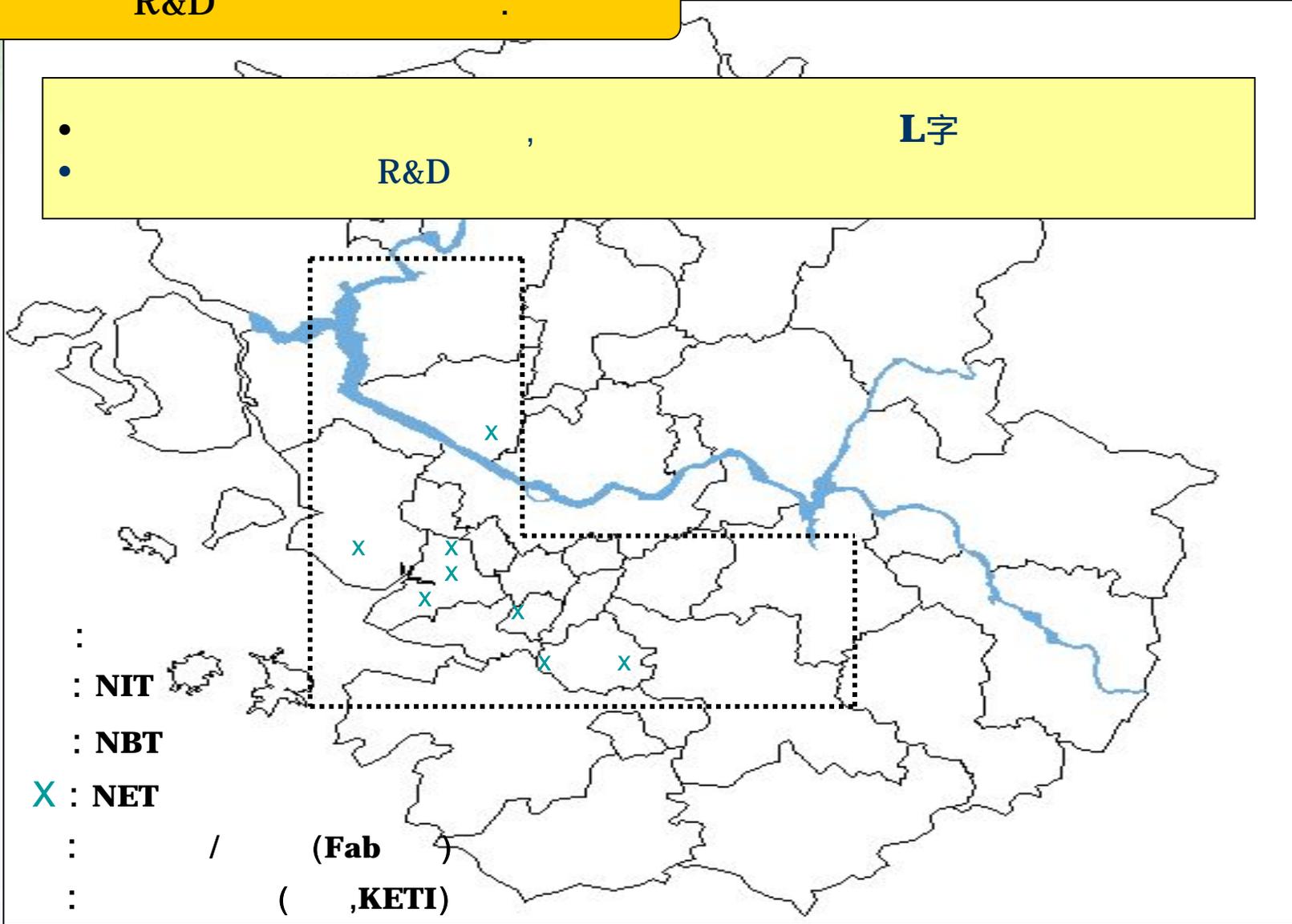
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R&D

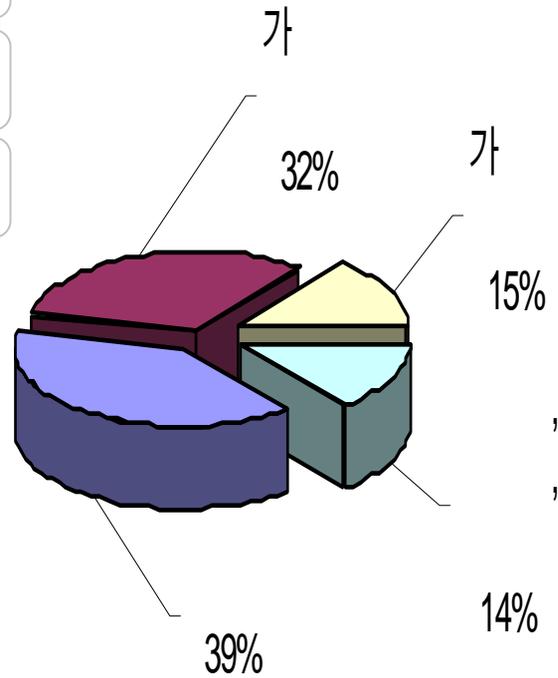
R&D L字



- ⋮ : NIT
- ⋮ : NBT
- X : NET
- ⋮ : / (Fab)
- ⋮ : (,KETI)



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- : ()
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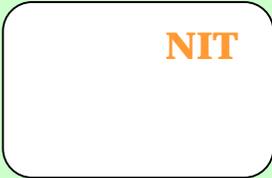
• (KISTI)

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/
(R&D)



- 2004.7 : 1 5
 - 2004.9 :
 - 2005.3 : 2
- ‘ NT Hub’



- NIT/ μ -system
-
- FIB(Focused Ion Beam)
- NIT University, NIT
- BI/Post-BI

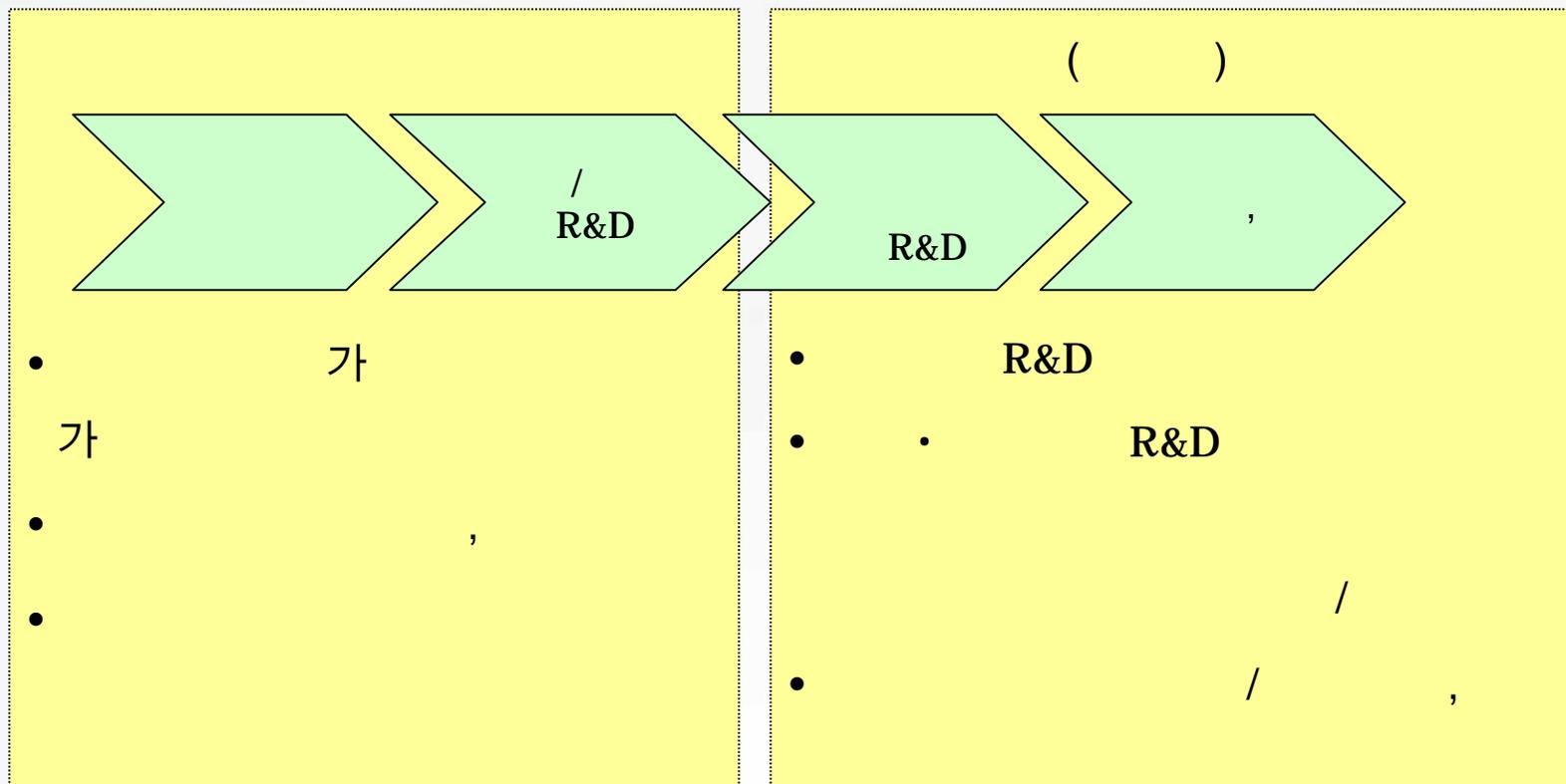


- R&D Center, R&D Tower
- R&D Center
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- (, , ,)

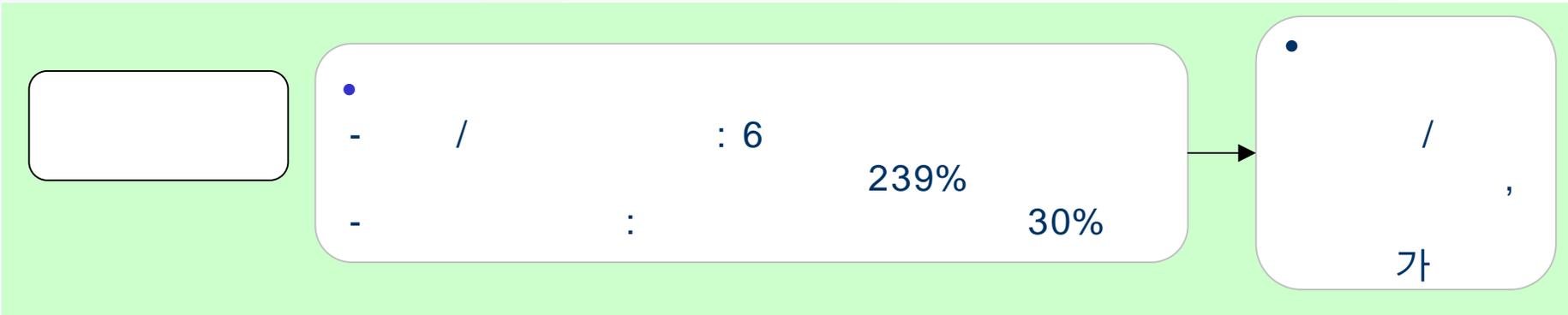
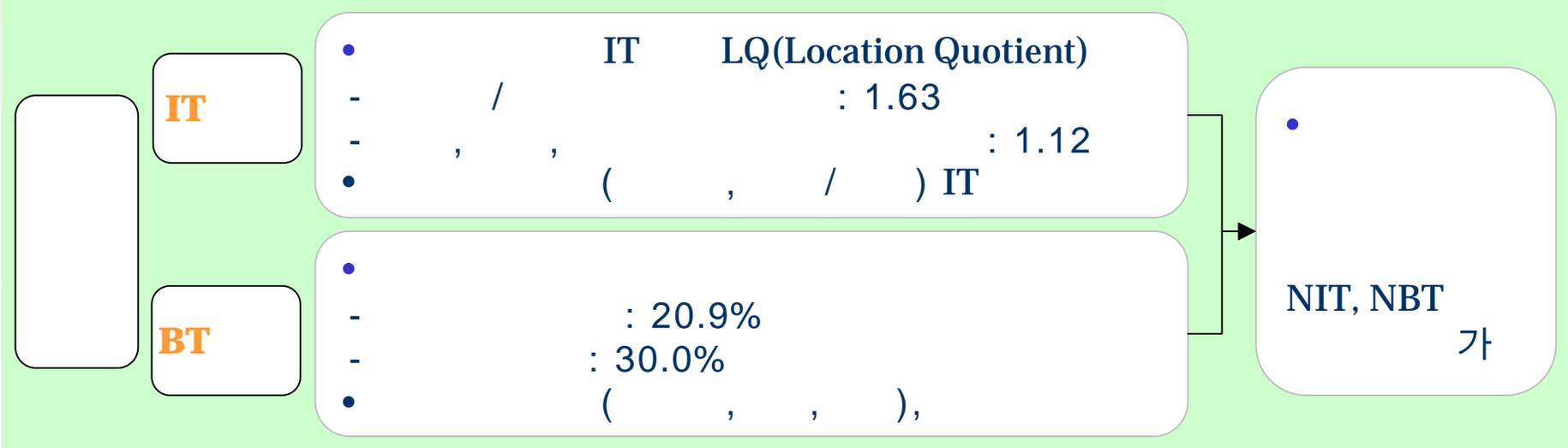


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가

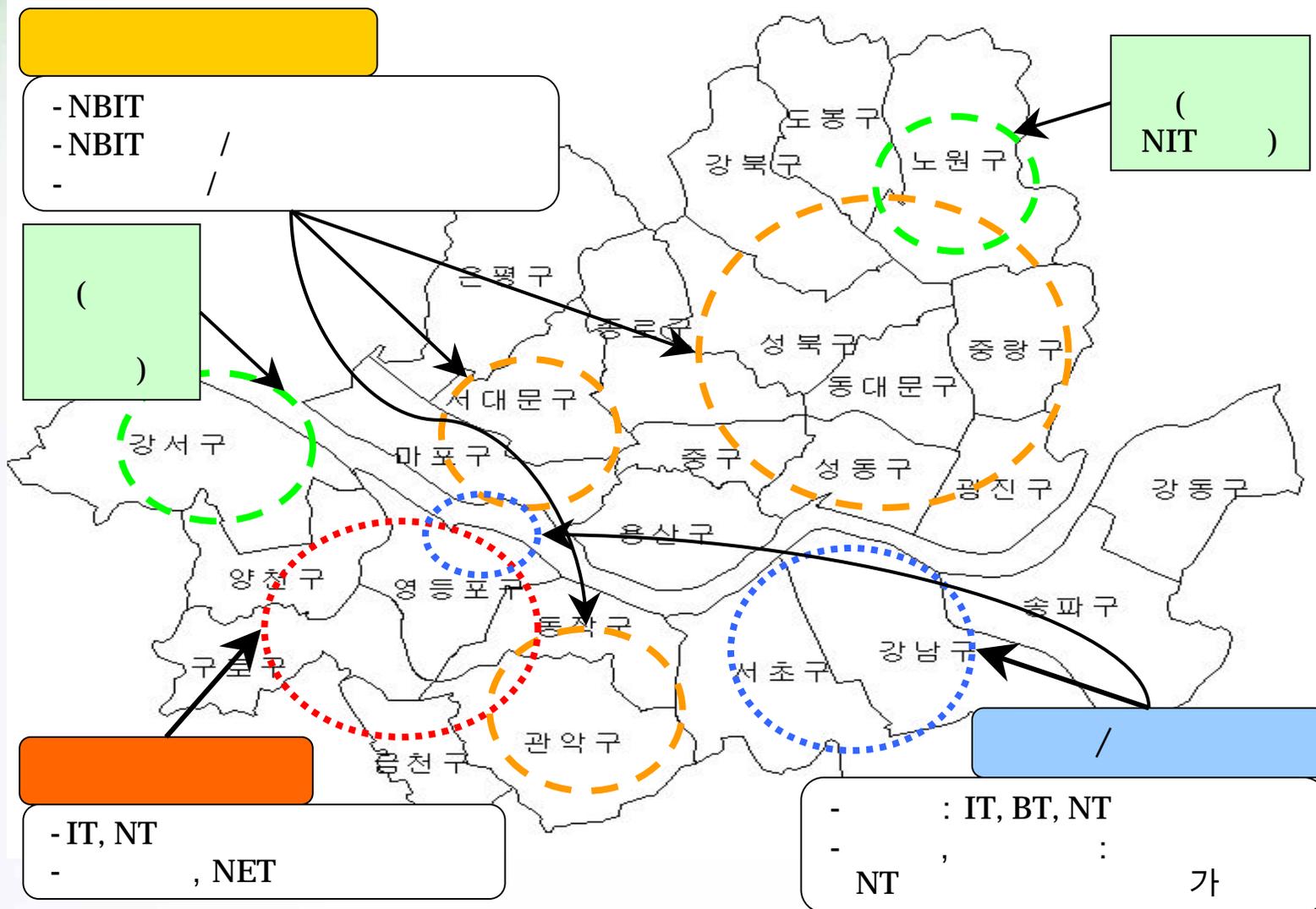


- (,) 가
- IT, BT ()
- 가 , R&D 가



(R&D)

R&D



(R&D)

(R&D)

- R&D
- : / 外 () /
- : / 가

- / / 場
- Online/Offline contents . Online Contents

-
- () / : Mismatch

- :
- : , R&D

,

- :
- : Risk

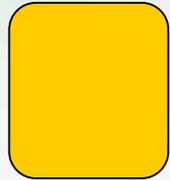
- - Shared Service(, , ,)



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(R&D)

- (CSF) ,

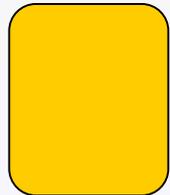


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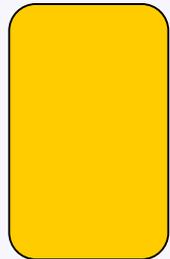
- R&D ,

[Empty box]

- / ,

Top-down & Bottom-up

- ,



Policy Leverage

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- / R&D / /

Not Only For Nano

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1. •

(2005)

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(RIKEN)

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• BIT Micro

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NIT

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10%

10%

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• ‘ ’ (/ , /)

• R&D
‘Hi-Tech Seoul’

• R&D Test-bed
,

2.

R&D

- : _____ ()
R&D

/

- : _____ () R&D 가 ...
-
-

R&D project
'ConTech
Seoul'

R&D

- : _____ (R&D +SPC) ...
- ' , R&D
- (SPC) BTL/BTO ,

R&D

2005 11 , : 300
-

(5)

(2)

(2)

NIT

- SoC
- SoC , , HW/SW

- /CNT
- CMOS
- CNT flexible

NBT

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- ,
-
-

- DNA

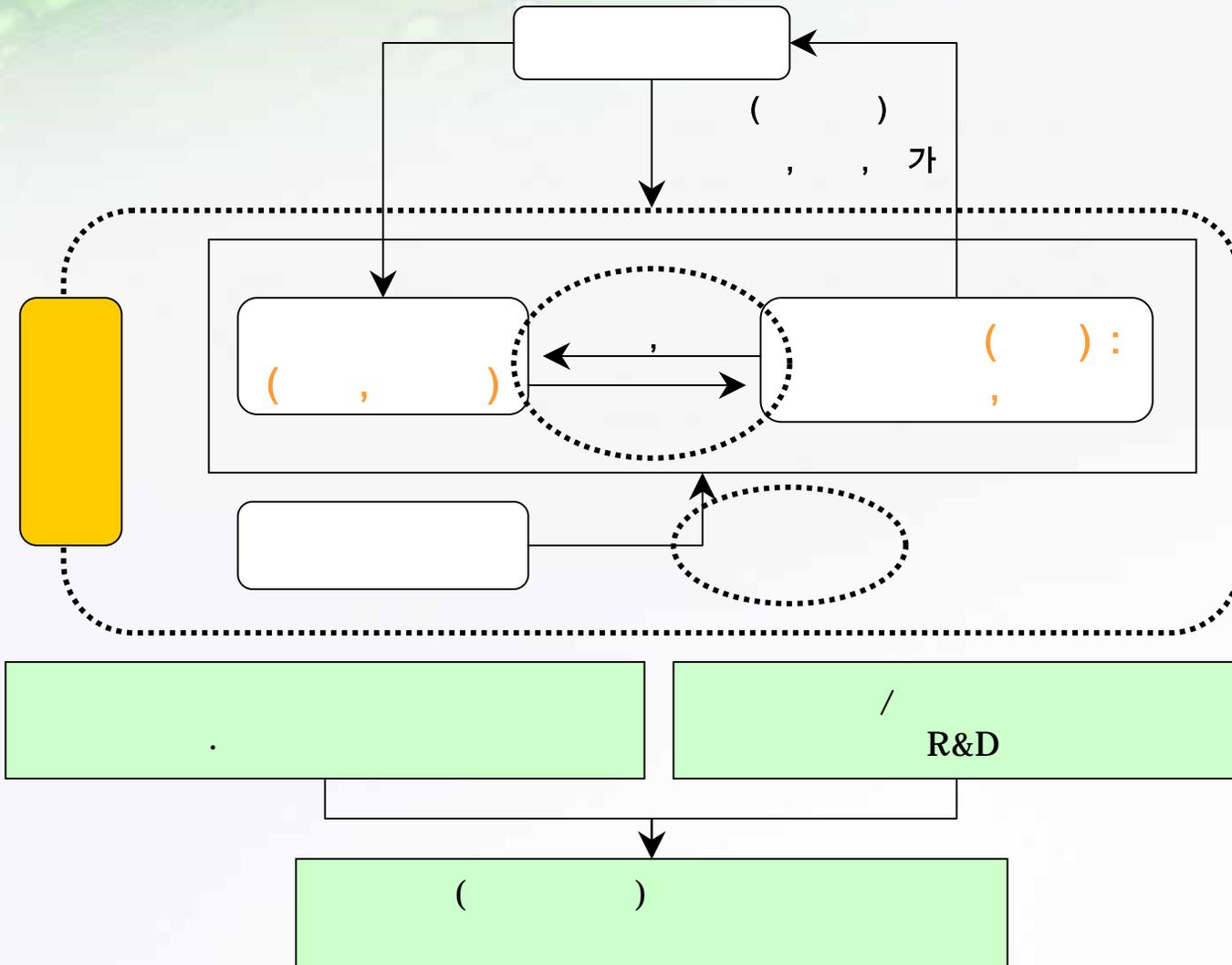
-

NET

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-
- (lithography, patterning) ,

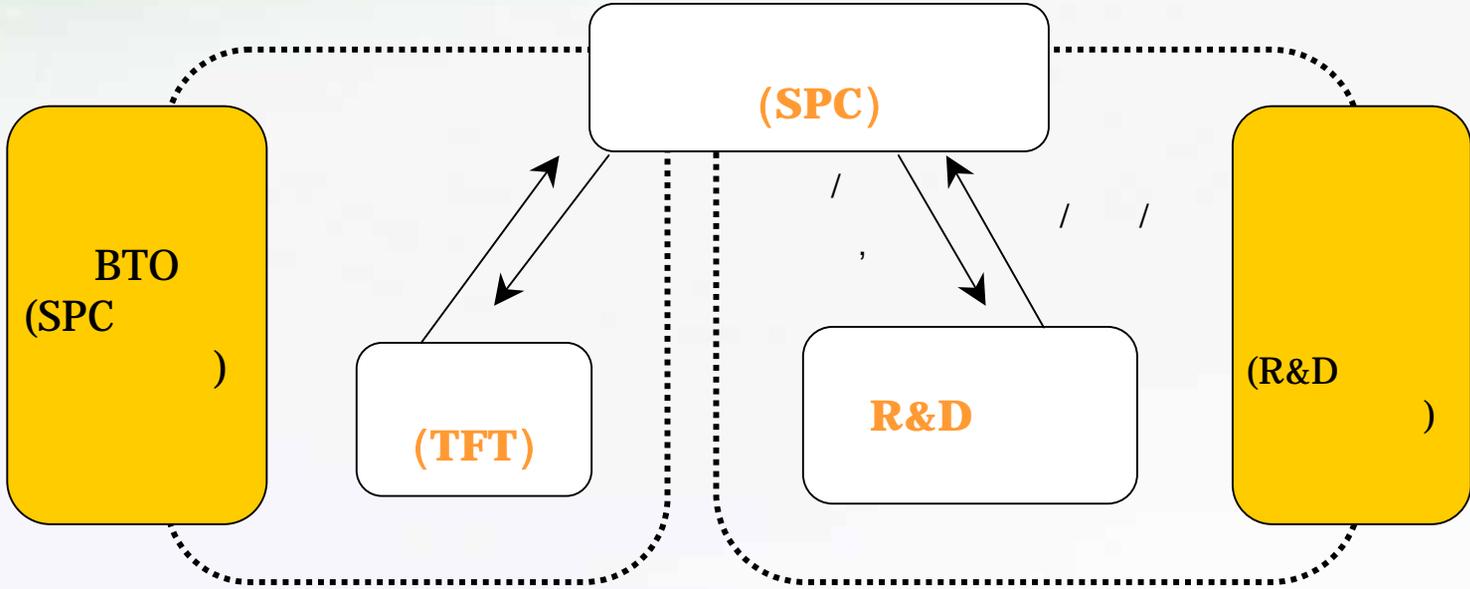
2- R&D project : 'ConTech(Converging Technology) Seoul'



- - /
 -
 - ()
 -
 -
- (NIT, NBT, NET)

3- R&D

R&D



- - R&D
- -
- SPC, R&D Risk

- ‘ ’ : R&D risk

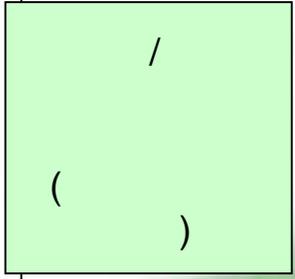
- BTO : (SPC) risk

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	/					



	/ /					
DMC				AI가 /		
()				後		
				가		
/						



R&D ()

“Nano House” project

NanoHouse

- 본 : , /
- (): ,

- 본 (:) 가
- () : NBT, NIT, NET



‘Hi-Tech Seoul Building’

- (Converging Technology) trigger/stimulator
- : 內
- :
- :
- :

本

- NBT : , , , /
- Lab-on-a-chip(), , , /

- NIT : Intelligent building

- , , , ,

- NET : /
- : , / - : ,
- : , - :

- Online/Offline contents

- Nano HRD Center () /

- / R&D

- R&D
- On/Offline IR , Risk

- /
- : 'Hi-Tech Seoul'

(Network)

- (CSF)
- / / 場
- online contents

Offline

Online

가
(
R&D
)

- R&D

(, ,
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- R&D Consortium Fair
- ‘ , Fair

- ‘ ’ : KISTI NANONET

(;
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- 가Pool
- ‘ Nano HRD Center’

- e-Workshop()

(R&D
)

-

- ()

(DB)
)

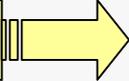
-

- DB (DB, DB, DB, KISTI NANONET)

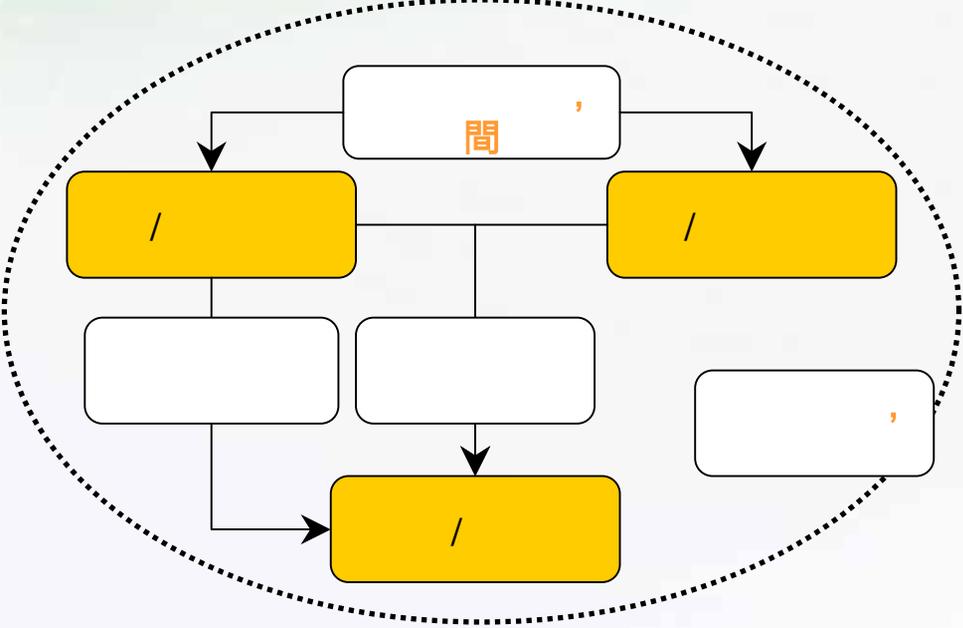
(HRD, Human Resource Development)

- (CSF)
- () ,
-

HRD Partnership



Partnership 別 HRD



Nano HRD Center

- : ,
- Consortium
- NIT : NIT ()
- NBIT : Nano HRD Center ()
- :
- - Center : , / ,
- / : , /
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DB

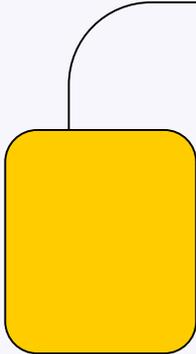
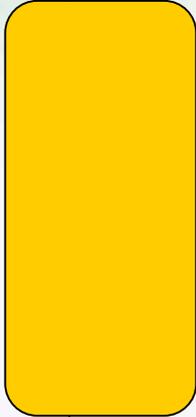
- DB, KISTI DB
- , DB

- ,
- ,

LG Philips

(R&D /)

- (CSF)
-
- R&D



Infra DB	DB	<ul style="list-style-type: none"> • DB : DB • KISTI NANONET (: list, , , ,)
	R&D	<ul style="list-style-type: none"> • R&D
	HRD	<ul style="list-style-type: none"> • ' Nano HRD Center' / open
		<ul style="list-style-type: none"> • / • R&D : , , 가

Infra	R&D	<ul style="list-style-type: none"> • R&D
	HRD	<ul style="list-style-type: none"> • ' Nano HRD Center'
	NIT	<ul style="list-style-type: none"> • NIT , , , (690)
Infra		<ul style="list-style-type: none"> • 가(') ,

- (CSF)
-
- Risk

/

ConTech Seoul • 'ConTech Seoul' : Conference

• Offline : ' , IR(Investor Relation)
- (, Fair)
-

• Online : Offline , KISTI, DB 上
-

• () Risk (, TV)

R&D • R&D , ConTech Seoul, R&D
-

• : / 가
• :

(Business Service)

(CSF)
Shared Service

- 1 5 上 :
-

(Spinoff)

- 外 :
- (Pay Basis)

- / (가 Pool, Best Practice) /
-

- :
- , 가

- KISTI Nanonet, (/ ,)

Cluster Branding 'Hi-Tech Seoul'

- Cluster (~2010) : Nano Cluster
- Cluster (2010~) : Nano Cluster
- Item Brand 'Hi-Tech Seoul' (Hi-Seoul)

(:)

- NIT ,
(,)
- (,)
- ConTech Seoul
()
- Nano HRD center
()
- R&D
(他 R&D)
- (間 /)
- ()

-

- 間

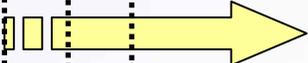
- 間

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- Offline,
Online

,

networking



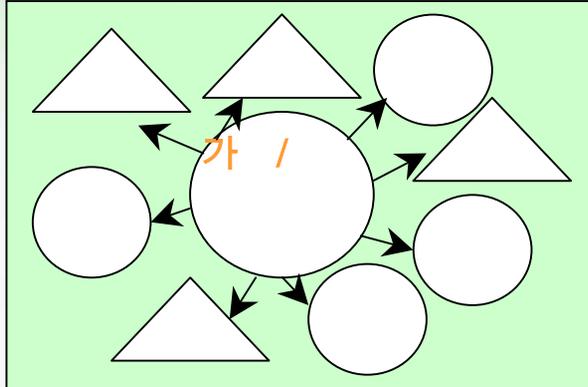
(: & 가)



Network

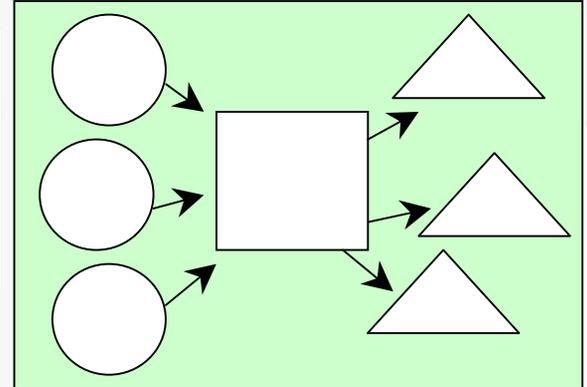
Agora

' () '



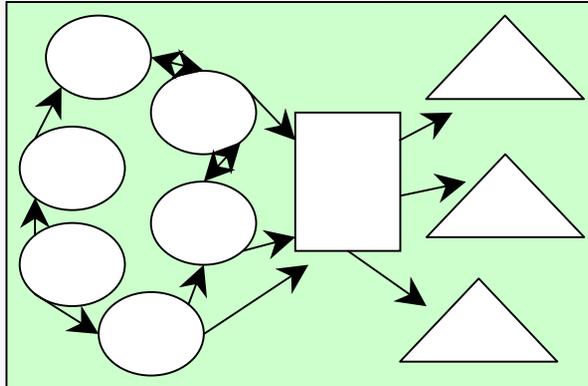
Aggregation

R&D ,



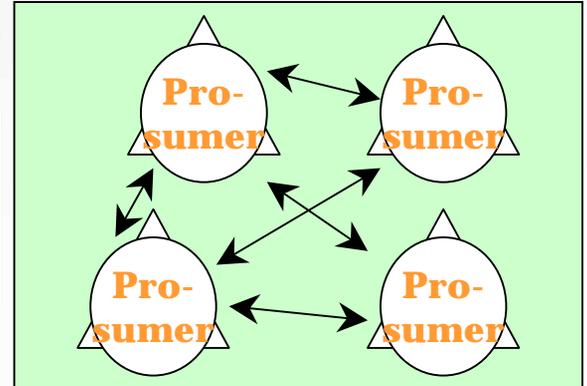
가 Value Chain

R&D



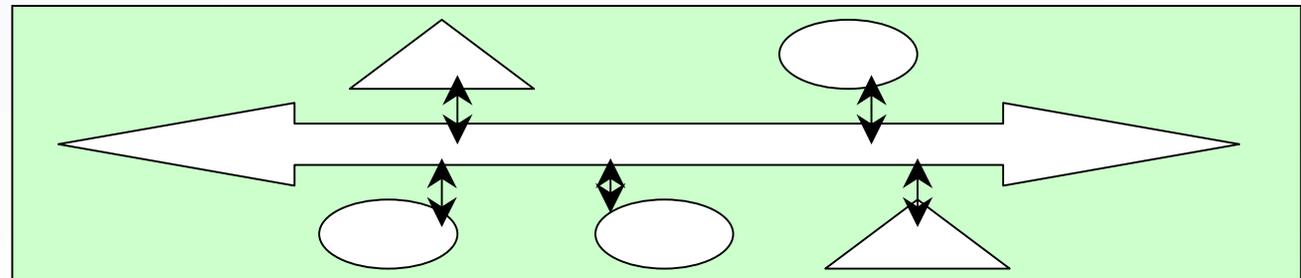
Alliance

R&D ,



Distributive Network

Hub



Network

[] : (R&D) / /

				R&D
			가	
	•	•	• (가)	• R&D TFT
	• /他 • / • R&D	• R&D , 가	• 內 • R&D , Hub	• R&D / , 가

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