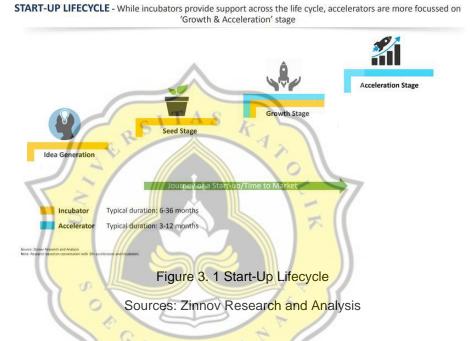
CHAPTER III

ARCHITECTURAL ANALYSIS AND PROGRAMMING

3.1 Building Function Analysis and Program

3.1.1 User Characteristics and Capacity

- a) User Characteristics
 - A) Start-up (Incubation Participant)



These are the stages of start-up. The seed stage is where the start-ups begin to get the word out about their product and gain their first customers. The growth stage is where the start-ups grow after they get their first investors. The acceleration and exit stage are where the start-ups show their considerable and unpredictable growth. To limit the capacity, This Start-up Centre will only facilitate start-up from idea to growth stage where the number of people is still predictable. The ideal team members for start-up in the early stage are in the following:

1. The Hustler

The hustler is the person with business sense, visionary in terms of selling, and expert in marketing.

a. Chief Executive Officer (CEO)

The CEO is the person in charge of the management and administrative direction of the organization. He/she is responsible for directing the company's strategies so that it achieves its objectives.

b. Chief Marketing Officer (CMO)

The CMO is responsible for marketing activities, which include sales management, advertising, market research, and customer service

c. Chief Financial Officer (CFO)

The CFO provides expertise in finance and accounting. He/she is in charge of financial planning and assessing risks.

2. The Hacker:

The hacker is the person who struggle with the product and technology. They must have skills in programming or coding.

a. Chief Information Officer (CIO)

The CIO provides expertise in applying technology systems and product to maximize day-to-day efficiency and productivity within the company.

- b. Chief Technology Officer (CTO) The CTO is responsible for building technological products or services that meet the customer needs. He/she also manages the engineer or developer who design the products or services.
- c. Engineer/Developer

The engineer or developer provides expertise in designing the products or services.

3. The Hipster:

The hipster is a designer.

a. Chief Product Officer (CPO)

The CPO is responsible for product designing, branding, and managing user experience (UX) research.

B) Investor

1. Co-Founder/Managing Partner

Managing partner drives deep relationship with corporate partners, investors, and portfolio acquires. He/she also develop strategy to scale up the company focus.

2. Partner

Partner works closely with start-up founders to provide coordination and support.

3. Director of Operations

Director of operations is responsible of handling operational activities as well as fund operations.

4. VP of Investment

Vice president of investment focuses on deal sourcing, portfolio management, and value creation.

5. VP of Finance

Vice president of finance provides expertise in finance and accounting.

6. VP of Legal

Vice president of legal leads the venture capital's legal workstream, which includes deals management and execution as well as providing legal advice.

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7. Head of Marketing

Head of marketing provides expertise in performance marketing and empowers his/her team to achieve more by using effective marketing strategy.

8. Head of Legal

Head of legal leads and manages deal planning and execution, and provides legal advice to portfolios.

9. Senior Legal Associate

Senior legal associate leads and manages deal execution and provides wideranging legal advice.

10. Head of People

Head of people responsible for recruiting people.

11. Head of Accounting

Head of accounting provides financial reports and manages company budgets.

12. Senior Investment Associate

Senior investment associate focuses on partnerships and portfolio management.

13. Investment Associate

Investment Associate focuses on deal sourcing, value creation, and supporting strategic partner decisions.

14. Finance Associate

Finance associate manages internal finance operations.

15. Accounting Associate

Accounting associate is responsible for financial reporting, on-time monthly closing and managing company taxes.

16. Tech Associate

Tech associate gives tech perspective and empowers the team to achieve more in less the time through efficient use of technology.

17. Developer

As a front-end web developer at VC, he/she builds web user interfaces for portfolios (UI/UX expert).

18. Campaign & Promotion

As part of the marketing team, campaign & promotion is responsible for portfolio value creation, specializing in campaign & promotion.

19. Public Relations Writer

As part of the marketing team, public relations writer develops and executes strategic communication plan, including brand management and media relations.

20. SEO Content Editor

As part of the marketing team, SEO content editor plans, writes, and edits content for VC's website and social media accounts.

- C) Facilitator
 - 1. Incubation Manager

The incubator manager is responsible for managing the operations and the programs, business development planning, hunting start-ups to support in and be the switchboard for start-ups to access relevant resources and connections.

2. Head of Program

Head of program is responsible for leading multiple projects and teams at one time.

3. Program Coordinator

The program coordinator specializes in a single program with one focused group.

4. Program Officer

As part of the program team, the program officer works together as a team with the program coordinator.

5. Partnership Coordinator

The partnership coordinator is responsible for managing and maintaining relationships among business partners and identifying new partnership opportunities.

6. Partner

Partner works closely with start-up founders to provide coordination and support.

7. Creative Coordinator

Creative coordinator provides expertise in marketing or advertising. Their responsible include monitoring the current marketing projects and coordinating vendors.

8. Accounting Administrator

The accounting administrator is responsible for processing payments to external partners and on-time monthly closing financial reporting.

9. Graphic Designer

Graphic designer provides expertise in editing and conceptualizing the visually based design.

D) Visitor/Guest

Visitors are people who only come to certain events or times.

E) Building Manager and Staff

1. President Director

The president director is the person in charge of the management and administrative direction of the company.

2. Vice President Director

The vice president director is the person in charge of the operations of the company.

3. Corporate Secretary

The person whose task is to arrange the schedules of the directors.

4. Business Development Director

The business development director is the person in charge of the business development of the company.

5. Operational Director

Operational director is responsible for day-to-day operations.

6. Head of People

Head of people is responsible for recruiting people.

- Marketing Team
 The people who provides expertise in marketing sales.
- 8. Finance & Accounting Team The people who provides expertise in finance and accounting.
- 9. Front Office Department

The front office is the receptionist in the lobby whose task is to provide information.

10. Librarian

The librarian is in charge of keeping things organized and responsible for arranging the books borrowed.

F) Staff Canteen

Staff Canteen is tenant canteen workers whose task is to prepare and selling the food and beverage.

G) Service

1. Housekeeping Department

Consists of janitors and gardeners whose task is to clean and tidy up green spaces and environments.

2. Engineering Department

The engineering department is responsible for maintaining and repairing the mechanical and electrical.

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3. Security Department

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Q,

The security department is responsible for securing the area.

b) User Capacity

A) Start-up

Start-Up Team	Number of People
Chief Ex <mark>ecutiv</mark> e Officer (CEO)	1
Chief Information Officer (CIO)	1
Chief Technology Officer (CTO)	1
Engineer/Developer	
Chief Product Officer (CPO)	
Chief Marketing Officer (CMO)	2 1
Chief Financial Officer (CFO)	1
Total	7

B) Investor

Venture Capital Team	Number of People
Co-Founder/Managing Partner	2
Partner	1
Director of Operations	1
Investment Team	
VP of Investment	1
Senior Investment Associate	3
Investment Associate	2
Finance & Accounting Team	
VP of Finance	1
Finance Associate	1

Head of Accounting	1
Accounting Associate	1
Legal Team	
VP of Legal	1
Head of Legal	1
Senior Legal Associate	1
Marketing Team	
Head of Marketing	1
Campaign & Promotion	1
Public Relations Writer	1
SEO Content Editor	1
Head of People	1
Tech Associate	2
Developer	1
Total	25

C) Facilitator

Business Incubator/Accelerator	Number of People
Incubation Manager	1
Program Team	22 1
Head of Program	101
Program Coordinator	
Program Officer	-4
Partnership	X
Partnership Coordinator	1
Partner	1
Creative Coordinator	- 1/
Accounting Administrator	L 1)
Graphic Designer	
Total	13
JAPR	

D) Building Manager and Staff

Building Manager & Staff	Number of People
President Director	1
Vice President Director	1
Corporate Secretary	1
Business Development Director	1
Operational Director	1
Head of People	1
Marketing Department	
Marketing Director	1
Campaign & Promotion	1
Finance & Accounting Department	
Financial Director	1

Finance Associate	1
Accounting Associate	1
Front Office Department	1
Head of Front Office	1
Front Officer	2
Librarian	2
Staff Canteen	20
Housekeeping Department	
Head of Housekeeping	1
Janitor	10
Gardener	3
Engineering Department	
Head of Engineering	1
Mechanical Electrical	2
Security Department	
Head of Security	1
Security	6
Total	60

3.1.2

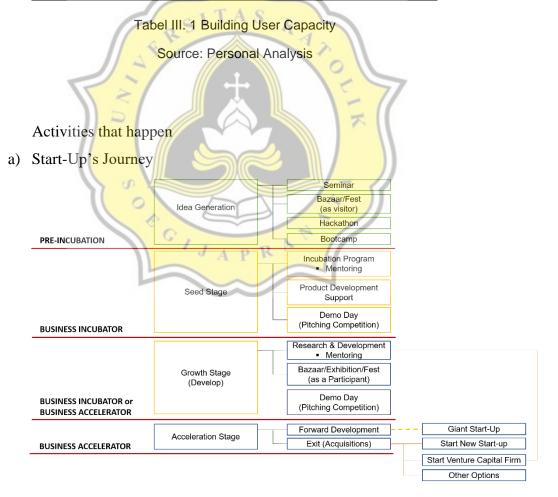


Figure 3. 2 Start-Up's Journey

Sources: Personal Analysis

- b) Activity Movement Pattern
 - A) Active User's Activity Mo ement
 - A. Start-Ups

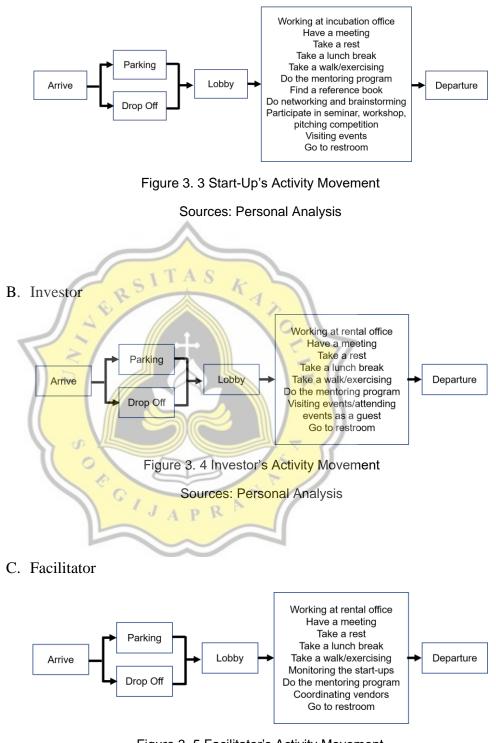


Figure 3. 5 Facilitator's Activity Movement

Sources: Personal Analysis

D. Building Manager

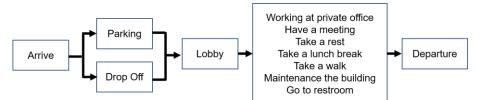
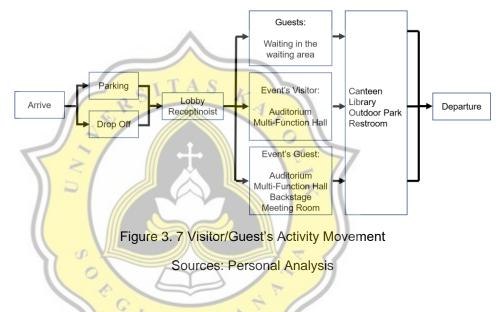


Figure 3. 6 Building Manager's Activity Movement

Sources: Personal Analysis

B) Visitor/Guest's Movement



c) Rooms/Spaces Needed for the Activity

	Users	Activities	Space/Room Needed
		Work focus on the business	Workspace with a
		management	computer
		Print & photocopy documents	Common service
		Time & photocopy documents	room
	The Hustlers:	Have a meeting	Meeting room
	• CEO	Take a rest	Play space / pantry /
		Take a lest	outdoor park
	CMO CEO	Take a lunch break	Pantry/Canteen
Р	• CFO	Find a reference book	Library
-U		Go to restroom	Restroom
RT		Have a meeting with guest	Meeting room/lobby
TA	START-UP	Do the mentoring program	Meeting room/sitting
Š		Do the mentoring program	group area

			Hall/auditorium &
		Visiting events	backstage
F		Work focus on the product,	Workspace with a
		programming, coding	computer
	The Hackers:	Have a meeting	Meeting room
	• CTO		Play space / pantry /
	• Engineer /	Take a rest	outdoor park
	Developer	Take a lunch break	Pantry/canteen
	1	Go to restroom	Restroom
		Visiting events	Hall/auditorium &
		Visiting events	backstage
		Work focus on the product	Workspace with a
		design, UI/UX	computer
		Have a meeting	Meeting room
	The Hipster:	Take a rest	Play space / pantry /
	• CPO	A	outdoor park
		Take a lunch break	Pantry/canteen
		Go to restroom	Restroom
	C	Visiting events	Hall/auditorium &
			backstage Private workspace
	1 41	Work on company focus	with a computer
	21	Have a meeting	Meeting room
	$\langle \rangle > \langle \rangle$	Take a lunch break	Canteen
	Co-Founder /		Meeting room/sitting
	Managing	Do the mentoring program	group area
	Partner	Visiting events: seminar,	Stoup urou
		hackathon, pitch competition,	Hall/auditorium
Μ	10 01	demo day	
Έ <i>l</i>	6	Attending an event as a guest	Backstage
ГЛ		Go to restroom	Restroom
TA		Checking emails and	Workspace with a
Ιd		messages	computer
C⊱	Partner Director of Operations	Have a meeting with VC's	Meeting room
RE		team	-
VENTURE CAPITAL TEAM			Meeting room /
		Have a meeting with start-ups	incubation office /
			canteen / sitting group
		Take a lunch break	Canteen
		Visiting events	Hall/auditorium
		Go to restroom	Restroom
		Work on fund operations	Workspace with a
		Have a meeting	computer Meeting room
		Take a lunch break	Canteen
		Go to restroom	Restroom
			INCSUDUIII

	Werkennettelie	
	Work on portfolio	Workspace with a
	management, deal sourcing,	computer
	and analysing	r r
	Have a meeting with VC's	Meeting room
Investment	team	Meeting room
Team	Have a meeting with start-ups	Meeting room
	Take a lunch break	Canteen
	Visiting events: pitch	Hall/auditorium
	competition & demo day	Hall/auditoffulli
	Go to restroom	Restroom
	Work on company taxes and	Workspace with a
	financial reports	computer
Finance &	-	Common service
Accounting	Print & photocopy documents	room
Team	Have a meeting	Meeting room
i vuili	Take a lunch break	Canteen
	Go to restroom	
		Restroom
	Work on legal advice, deals	Workspace with a
C	management and execution	computer
	Print & photocopy documents	Common service
Legal Team		room
151	Have a meeting	Meeting room
T >1	Take a lunch break	Canteen
	Go to restroom	Restroom
	Monitoring marketing	Workspace with a
	projects	computer
		Common service
Marketing	Print & photocopy documents	room
Team	Have a meeting	Meeting room
5	Take a lunch break	Canteen
	Go to restroom	Restroom
	JAPR	Private workspace /
	Recruiting employee	meeting room
Head of		Private workspace
People	Manage employee	with a computer
- copie	Take a lunch break	Canteen
	Go to restroom	Restroom
		Workspace with a
	Work focus on technology	-
Tech Associate	Have a meeting	computer Maating room
	Have a meeting	Meeting room
	Take a lunch break	Canteen
	Go to restroom	Restroom
	Work as front-end web	Workspace with a
Developer	marketer, focus on user	computer
Developer	interfaces	-
	Have a meeting	Meeting room

		Take a lunch break	Canteen
		Go to restroom	Restroom
		Work focus on the business	
		development and operations	Workspace with a
	Incubation		computer Mosting room
	Manager	Have a meeting Take a lunch break	Meeting room
	_		Canteen
		Go to restroom	Restroom
		Manage the team	Workspace with a computer
	Head of	Have a meeting	Meeting room
	Program	Take a lunch break	Canteen
		Go to restroom	Restroom
			Workspace with a
		Coordinating program	computer
	Program		Meeting room /
	Coordinator	Have a meeting	canteen / sitting group
	Coordinator	Take a lunch break	Canteen Canteen
		Go to restroom	Restroom
		Go to restroom	Workspace with a
	P	Making progress	-
	Ducanan	A A A	computer
~	Program	Have a meeting	Meeting room / canteen / sitting group
QF	Officer	Take a lunch break	Canteen
FACILITATOR			
Τľ		Go to restroom	Restroom
H		Analysing partner's	Workspace with a
iAC		document	computer
щ	Partnership	Have a meeting	Meeting room /
	Coordinator	Thetesh	canteen / sitting group
	()	Take a lunch break	Canteen
	1 C	Go to restroom	Restroom
		Checking emails	Workspace with a
			computer
			Meeting room /
	Partner	Have a meeting	incubation office /
			canteen / sitting group
		Take a lunch break	Canteen
		Go to restroom	Restroom
		Monitoring the marketing	Workspace with a
		projects	computer
	Creative	Coordinating vendors	Hall / auditorium /
	Coordinator		meeting room
	Coordinator	Have a meeting	Meeting room
		Take a lunch break	Canteen
		Go to restroom	Restroom
	Accounting	Work on company financial	Workspace with a
	Administrator	reports	computer

		Have a meeting	Meeting room
		Take a lunch break	Canteen
			Restroom
		Go to restroom	
	Crambia	Editing and designing	Workspace with a computer
	Graphic	Have a meeting	Meeting room
	Designer	Take a lunch break	Canteen
		Go to restroom	Restroom
		Joining or visiting events:	
		hackathon, seminar, bazaar,	Hall / auditorium &
		pitch competition, demo day,	backstage
		etc.	E .
		Attend a meeting with	Lobby sitting group /
	Start-Up as a	investor/facilitator	meeting room
	visitor	Find a reference book	Library
		Have a lunch	Canteen
			Napping area /
		Take a rest	outdoor park
		Go to restroom	Restroom
		Go to resuboli	Private waiting room
	6	Attend an event as a guest	/ backstage
	Investor as a	Attend a meeting with	
	guest	another investor/facilitator	Meeting room
ST	Subst	Have a lunch	Canteen
Ξ		Go to restroom	Restroom
Ğ		Have a briefing	Committee room
<u>DR</u>			Private waiting room
Ĕ		Organize the guests	/ backstage
VISITOR/GUEST	70 11		Building manager's
	Facilitator as	Have a meeting with building	private workspace /
	a tenant (rent	manager	meeting room / lobby
	the space only	JAPR	sitting group
	for the event)	Store the equipment	Warehouse
		Store the equipment	Committee room /
		Take a rest	canteen / napping
		Take a lest	area
		Go to restroom	Restroom
			Lobby, hall /
		Visiting events	auditorium
	Other Guests:		Lobby sitting group /
	• Tenant	Have a meeting	canteen
	• Reporter	Find a reference book	Library
	• Guests	Have a lunch	Canteen
		Go to restroom	Restroom
	President	Work focus on the business	Private workspace
B	Director	management	with a computer
	Director	management	

	Have a guest	Private workspace
	Have a meeting	Meeting room
	Take a lunch break	Canteen / private
	Take a functi ofeak	workspace
	Go to restroom	Restroom
	Work focus on the business	Private workspace
Vice	operations	with a computer
President	Have a meeting	Meeting room
Director	Take a lunch break	Canteen / private
Director	Take a functi break	workspace
	Go to restroom	Restroom
	Manage the director's	Workspace with a
Corporate	schedule	computer
Secretary	Take a lunch break	Canteen / staff pantr
	Go to restroom	Restroom
	Managing the business	Private workspace
Business	development	with a computer
Development	Have a meeting	Meeting room
Director	Take a lunch break	Canteen / private
Director	Take a functi ofeak	workspace
	Go to restroom	Restroom
151	Managing the operations	Private workspace
T>1		with a computer
Operational	H <mark>av</mark> e a meeting	Meeting room
Director	Take a lunch break	Canteen / private
	Take a fullen break	workspace
	Go to restroom	Restroom
S S YE	Recruiting people	Private workspace
Head of	Manage employee	Private workspace
People		with a computer
reopie	Take a lunch break	Canteen / staff pantr
	Go to restroom	Restroom
	Have a meeting with client	Meeting room / lobb
Markating	Print & photocopy documents	
Marketing	Have a meeting with team	Meeting room
Department	Take a lunch break	Canteen / staff pantr
	Go to restroom	Restroom
	Work on company taxes and	Private workspace
	financial reports	with a computer
Finance &		Common service
Accounting	Print & photocopy documents	room
Department	Have a meeting	Meeting room
ĩ	Take a lunch break	Canteen / staff pantr
	Go to restroom	Restroom
	Have a briefing with the team	Private workspace

	Work as company	Receptionist in lobb
Front Office	representative	_
Department	Take a lunch break	Canteen / staff pantr
	Go to restroom	Restroom
	Organising and managing the library	Library
Librarian	Conducting regular audits	Workspace in the library
	Take a lunch break	Canteen
	Go to restroom	Restroom
	Selling foods & beverages	Tenant
	Prepare the F&B order	Small kitchen
Staff Canteen	Stock up the cooking ingredients	Loading in/out
	Take a lunch break	Tenant / canteen
	Go to restroom	Restroom
	Maintaining the cleanliness of the entire building	Entire building
	Store the equipment	Janitor's room
Janitor		Staff pantry /
	Take a lunch break	housekeeping
1.31		department room
PSI	Go to restroom	Restroom
	Maintaining the beauty and	Indoor and Outdoor
	health of all plants and	
	greenspaces	park
Gardener	Store the equipment	Warehouse
Gardener		Staff pantry /
$\left(\circ \right)$	Take a lunch break	housekeeping
5 1		department room
	Go to restroom	Restroom
	Maintaining the mechanical and electrical	Panel room
Engineering Team	Store the equipment	Engineering team room
	Take a lunch break	Staff pantry
	Go to restroom	Restroom
	Have a briefing	Security post, outdo park
a :	Monitoring CCTV	CCTV room
Security	Monitoring the activities	Security post, room
Department	movement	entrance, lobby
1		,
T	Having cups of coffee	Pantry

Tabel III. 2 Spaces Needed

Source: Personal Analysis

d) Space Requirements

Ligh	nting	No	ise	Venti	lation	Secu	urity					
Natural	Artificial	Normal	Quiet	Natural	Artificial	High	Normal					
Start-Up's Incubation OfficeWorkspaceImage: Image of the start st												
\checkmark	\checkmark	\checkmark			\checkmark	\checkmark						
	\checkmark	\checkmark			\checkmark		\checkmark					
	\checkmark	\checkmark			\checkmark		\checkmark					
Play Area Image: second seco												
\checkmark	✓		\checkmark		✓	\checkmark						
\checkmark	\checkmark		\checkmark		\checkmark	\checkmark						
	\checkmark	✓			\checkmark		\checkmark					
	Comm	on Spa	.ce									
\checkmark		\checkmark		\checkmark	\checkmark		\checkmark					
10	1.0				/		~					
YI	AS	×	-		~		~					
	\checkmark	1	\checkmark	8	\checkmark		\checkmark					
	\checkmark	1	1		\checkmark		\checkmark					
	\checkmark	\checkmark		0	\checkmark	\checkmark						
✓	\checkmark	√	1-	✓	\checkmark		\checkmark					
1			1 -		\checkmark	✓						
Rec	creation	nal Fac	ilit <mark>ies</mark>	11		L						
V	1		\checkmark	11	\checkmark		\checkmark					
~	×	\checkmark	/_		\checkmark		\checkmark					
1	\checkmark		\checkmark	55	\checkmark		\checkmark					
1	\checkmark	\checkmark	~ /	1			\checkmark					
(Commo	on Serv	ice									
JA	VR	\checkmark	11		✓		✓					
Build	ing Ma	anager	& Staf	f		1						
\checkmark	~	~			✓	✓						
\checkmark			\checkmark		\checkmark	\checkmark						
✓			\checkmark			\checkmark						
	\checkmark						✓					
	√	✓			√		√					
	· √	✓			· √		✓					
	Sec	curity	I			I						
					\checkmark	✓						
✓	√	√		✓		· ✓						
	Servi	ce Are	a			I						
	V	√		✓			✓					
	✓	✓		√			✓					
	✓		✓	√			✓					
	$[a] \\ [b] $	Start-Up's In \checkmark \checkmark \checkmark estor & Facili \checkmark	Image: Service AreaImage: Service AreaVVV <t< td=""><td>Image: series of the series</td><td>Image: series of the series</td><td>Image: Note of the sector o</td><td>Image: Problem Image: Problem Start-Up's Incubation OfficeImage: Problem Image: Problem Image: Problem Image: Problem Image: Problem Image: Problem Image: Problem Image: Problem Image: Problem Image: Problem Image: Problem Image: Problem<b< td=""></b<></br></br></br></td></t<>	Image: series of the series	Image: series of the series	Image: Note of the sector o	Image: Problem Image: Problem Start-Up's Incubation OfficeImage: Problem Image: Problem Image: Problem Image: Problem Image: Problem Image: Problem Image: Problem Image: Problem 					

Warehouse		\checkmark	✓	✓	✓
Janitor's Room		\checkmark	✓	✓	✓
Panel Room		\checkmark	✓	✓	✓
MEP Room		\checkmark	✓	✓	✓
WWTP Room		\checkmark	✓	✓	✓
Generator Room		\checkmark	✓	✓	✓
AHU Room		\checkmark	✓	✓	✓
Drop Off Area	✓	\checkmark	✓	\checkmark	✓
Parking Area	\checkmark	\checkmark	✓	✓	✓

Tabel III. 3 Space Requirements

Source: Personal Analysis

- e) Impact of Activities
 - A) The Auditorium and Multi-Function Hall

Be leased for internal and external events, the auditorium and multi-function hall can cause disturbing noises. Besides, the large number of event participants can also disturb the active users' activity circulation. Therefore, the auditorium and multi-function hall must use soundproof materials and place at a distance from private offices.

B) Generator and Waste Water Treatment Plant (WWTP) Room The generator room and WWTP room can cause vibrations, disturbing sounds, and unpleasant smell, so their locations are placed at a distance from the main building

3.1.3 Inner Space

a) Space Capacity Study

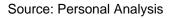
Event's Name	Types of Event	Number of	Space/Room
		Participants	Needed
Highpitch	Pitching	200-380 Start-	Auditorium
	Competition	Ups	
Tech in Asia	Tech in Asia	Total visitors up	Multi-Function
Conference	Conference is an	to 5500 people	Hall
	event open for		
	public. The events	300 tenant	
	are:	participants	

Gerakan 1000 Start-Up Digital This event is an event held in many cities in Indonesia. The study only looks at the events held in Jakarta.	 Start-Up Bazaar Pitching Competition Talk Show Pre-Incubation – Incubation Program: Ignition (Seminar) Workshop Hacksprint (Hackathon) Bootcamp Incubation 	Up to 8000 participants for seminar 1000 participants were selected to participate Hacksprint program	•	Auditorium Multi- Function Hall Incubation Office
N I LA	RSITAS R	50 teams consisting of 3 people were selected to participate in the bootcamp 3 teams were selected to participate the incubation program		
Baparekraf for Startup (Bekup)	Pre-Incubation Program: • Interview • Bootcamp • In-depth Mentoring during one month	Up to 500 participants from 5 cities From each city, 20 pre-startups were selected to participate the bootcamp 8 pre-startup were selected to join the mentoring program	•	Multi- Function Hall Incubation Office

Local Startup Fest	 The events: Start-Up Fest/Bazaar Startup Pitch Battle Talk Show 	Up to 70 fest/bazaar participants 5 participants for pitching competition Up to 600 people for talk show on the	 Auditorium Multi- Function Hall
GK-Plug and	Accelerator:	main stage and 200 people on the small stage The number of	Auditorium
Play	 Incubation for 3 months Mentoring Demo Day (seed funding) 	incubation participants is different in each batch. From 400 start-ups, the accelerators select 9-18 start- ups to present on the demo day.	 Incubation Office Meeting Room
Digitaray <mark>a</mark> D	Accelerator: Incubation in one months	5 sta <mark>rt-ups/</mark> batch	Incubation Office Meeting Room
Startup Pilihan Tempo (Around November)	Start-Up Awards Event powered by Digitaraya and supported by Gojek	Up to 100 participants	Auditorium
Skystar Venture (Starting from February)	Business Incubator: • Bootcamp • Incubation Program	From 60 start- ups, 11 start-ups were selected (via interview) to participate the bootcamp program	 Multi- Function Hall Meeting Room Incubation Office
Shala	Accelerater	8 start-ups were selected to participate the incubation program	
Skala	Accelerator:	The number of incubation	Incubation Office

•	Incubation for 3 months Demo day	participants is different in each batch. From 400 start-ups, the accelerators select 6-15 start- ups to participate	• Au	uditorium
		the incubation		
		program		

Tabel III. 4 Space Capacity Study



The capacity study is conducted to determine the calculation of the capacity of the space specifically for rent. The study was conducted with the average number of visitors at the start-up events. From several examples of events, the conclusions obtained are as follows:

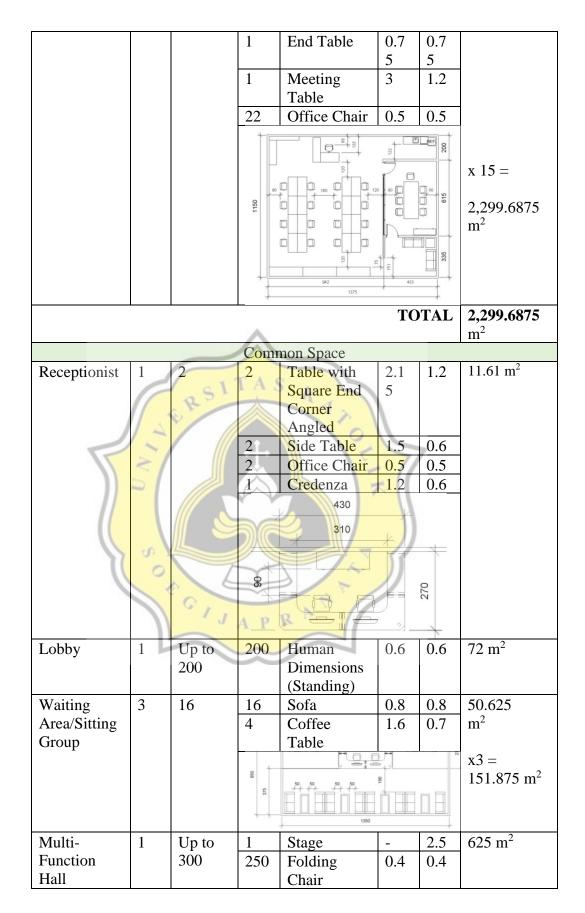
- A) Events with a capacity of up to 1000 people are held more frequently than events with a larger capacity.
- B) Hackathons, boot camps, and pitching competitions are the events held by almost all business incubators and accelerators.
- C) Multi-function hall tends to be used more frequently for events. Some events that require the space are boot camp events, hackathons, bazaars/fest. The capacity is calculated by the hackathon and bazaar participants because these two events are the most frequently held events and require more space for furniture. The multi-function hall is planned to have a capacity of up to 1000 people.
- D) The auditorium often uses for seminars, talk shows, and pitching competitions on demo days. Seminar events require a large capacity, while pitching competitions are usually internal events with fewer visitors. The auditorium planned to have a capacity of 600-800 people, as seen from the average seminar attendees.

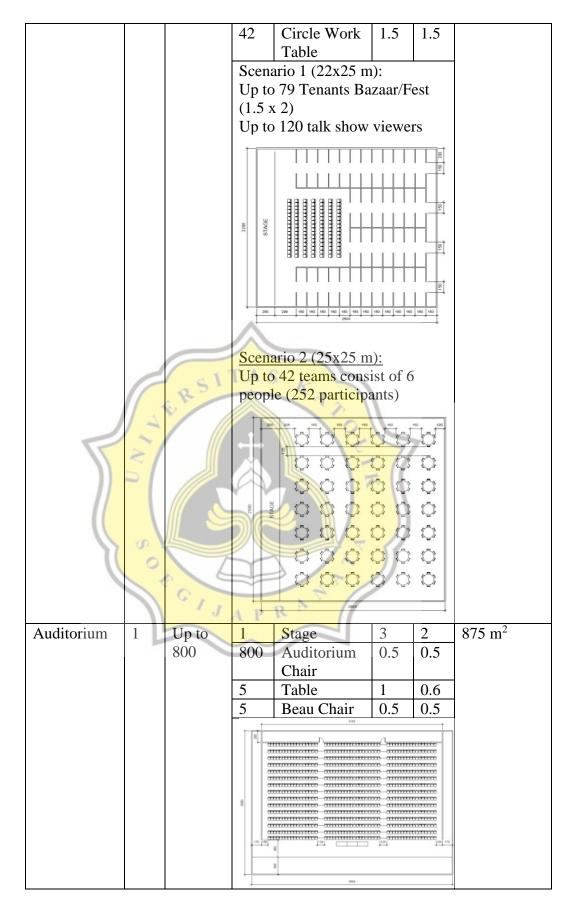
Space Quantity Analysis Uni Capacit Space/ Uni Area Room Furniture t 1 у р t Star-Up's Incubation Office Early Stage Computer 7 58.8 m² 40 7 1.2 0.6 Start-Up's Desk Incubation 1.5 1 Whiteboard 0.1 Office 1 Kitchen Set 2 1 Circle 1.2 1.2 1 Dining Table TV Stand 0.8 0.6 1 2 Bean Bag 0.7 0.7 5 5 0.5 Office Chair 7 0.5 8 58.8 x 40 RSI $= 2,352 \text{ m}^2$ 100 90 735 ē 160 00 800 Scale Up <20 20 Computer 1.2 0.6 118.125 m² 20 Start-Up's Desk 0 Incubation Bookshelf 1.2 0.6 $1 \downarrow$ GI Office Kitchen Set 2 1 1 J Circle 1.2 1 1.2 P Dining Table TV Stand 0.8 1 0.6 2 Bean Bag 0.7 0.7 5 5 118.125 x 20 Office Chair 0.5 0.5 20 Ũ Ũ 0 T^a = 2,362.5 90 m^2 C 150 875 28 120 102 TOTAL **4,714.5** m²

b) Space Quantity Analysis

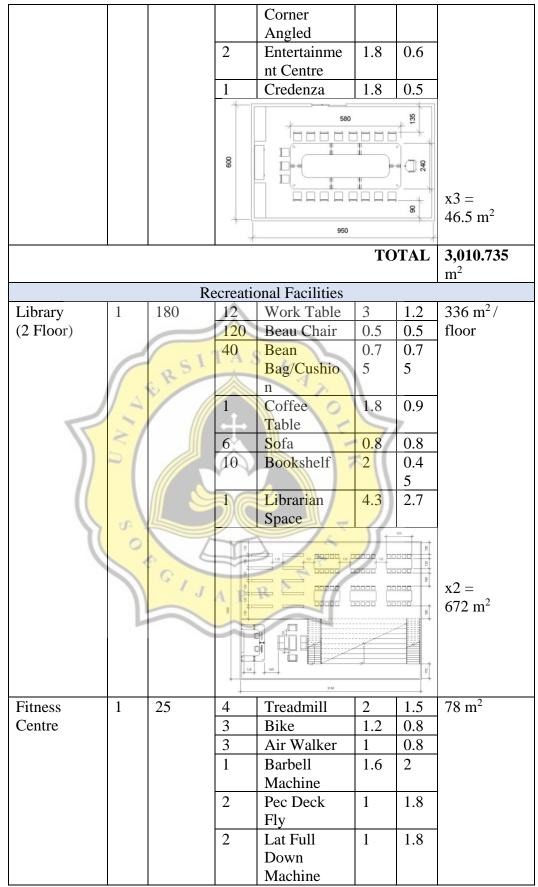
		Inv	estor's	Rental Office			
Co-Founder/	20	3	1	Computer	1.5	0.8	$14 \text{ m}^2 \text{ x } 2$
Managing				Desk			$= 28 \text{ m}^2$
Director			1	Office Chair	0.5	0.5	per team
			1	Side Table	2	0.6	-
(2/Team)			2	Beau Chair	0.5	0.5	
			***		86 122 98		28×20 = 560 m ²
(Open Space	10	18	18	Computer	1.2	0.6	128.25 m ²
Office)			\wedge	Desk			
	8		18	Office Chair	0.5	0.5	
		(III	1	Kitchen Set	2	1	
	1	RSI	1	Circle	1.2	1.2	
	1.1	Nº /		Dining			
	1.2			Table		50	
	ND SO		90	NVESTIERT	17	F REF	
		G 1 5		R		30	128.25×10 = 1,282.5 m^2
			350	160 F	111	4	
			69				
			-	475		+	
Head of	10	3	1	Computer	1.5	0.8	14 m ²
People			1	Desk Office Choir	0.5	0.5	
			1	Office Chair	0.5	0.5	
			1 2	Side Table	2	0.6	
			Z	Beau Chair	0.5	0.5	

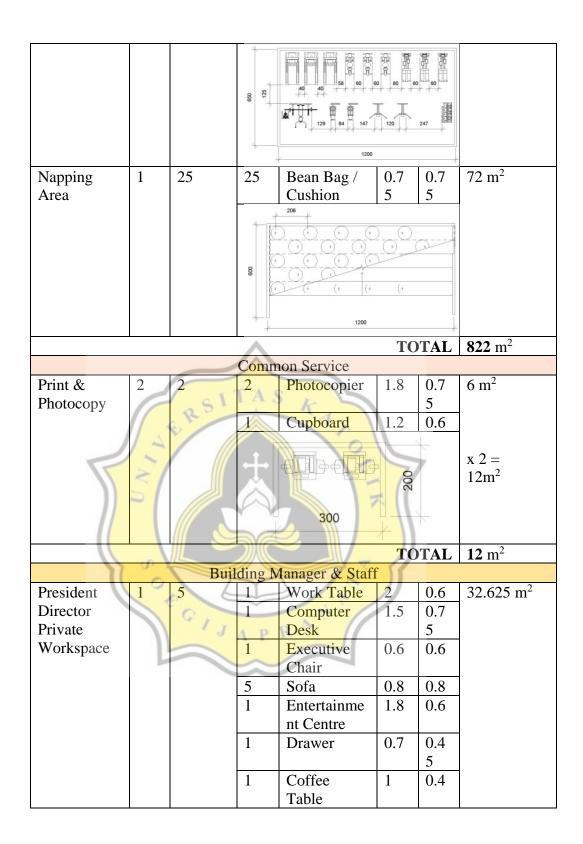
					8		14×10 = 140 m ²
				350	8		
Meeting	10	10	10	Office Chair	0.5	0.5	27 m ²
Room			1	Meeting Table	3.6	1.2	
			1	Credenza	1.8	0.5	
			450		90	120	27×10 = 270 m ²
	Ć	RSI	TA A	600		06	
	14					*	
Waiting Area/Sitting	10	4	4	Sofa Coffee	0.8	0.8 0.4	14.875 m ²
Group	51			Table		0.4	
· //			1	Entertainme	1.8	0.7	
				nt Centre			
	S						14.875 x 10
	0		\sim			Ł	$= 148.75 \text{ m}^2$
		0	350	80	50		
		GIJ	A P	RAT	20	-	
						7	
				425	in the second se		
				1		+	
	·					TAL	2,401.25 m ²
				's Rental Office			
Facilitator	15	<15	15	Computer	1.2	0.6	153.3125 m ²
			2	Desk Side Table	2	0.6	
			1	Bookshelf	2.4	0.0	
						5	
			4	Entertainme	2.8	0.7	
			1	nt Centre	2	5	
			1 4	Kitchen Set	2	1	
			4	Sofa	0.8	0.8	





Backstage	2	40	40	Beau Chair	0.5	0.5	43.75 m ²
Dackstage	2	40	40	Sofa	0.3	0.3	45.75 m
			1	Coffee	0.8	0.8	
			1	Table	0.0	5	
			+-r	1 4010			
				85 5	12	1 L	
			+				
			625				
			e				
			7	700			
Canteen	1	500	50	Dining	3	1.4	1050 m ²
	-	200		Table	5		
			500	Beau Chair	0.5	0.5	
			16	Tenant	3.5	4	
	6	SI			, poood, poo		
		a. R		ia bosee occes bosee acces 19 00000 occes pocces pocces	, 1999, 1999, 1999 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 19	ica based	
	14		8_pace	id board board baard baard 19, 2000, 2000, 2000, 2000	, 199999 1999 199999 1999	ica passa	
	1.2						
	2		8				
	P						
	0						
Maating	5	10	10	Office Chain	0.5	0.5	27 m ²
Meeting Room	2	10 6	10	Office Chair	0.5 3.6	0.5	27 m-
		0,	1	Meeting Table	5.0	1.2	
(Small)		° 1 J	A P	Credenza	1.8	0.5	
				83 360	. 90	0.5	
			+-			<u></u>	
						100	
			450			120	
							x5 =
						8	135 m ²
			+	c00		4	
		20	7	600	0 -	*	1
Meeting	3	20	20	Office Chair	0.5	0.5	15.5 m^2
Room			2	Rectangular	1.5	0.6	
				Table		1.2	
			4	Table with	2.1	1.2	
				Square End	5		

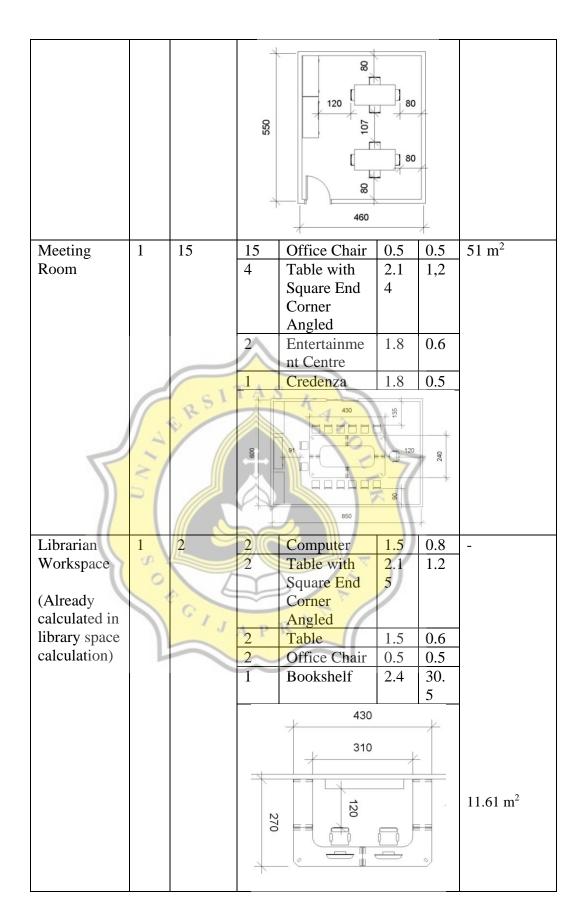




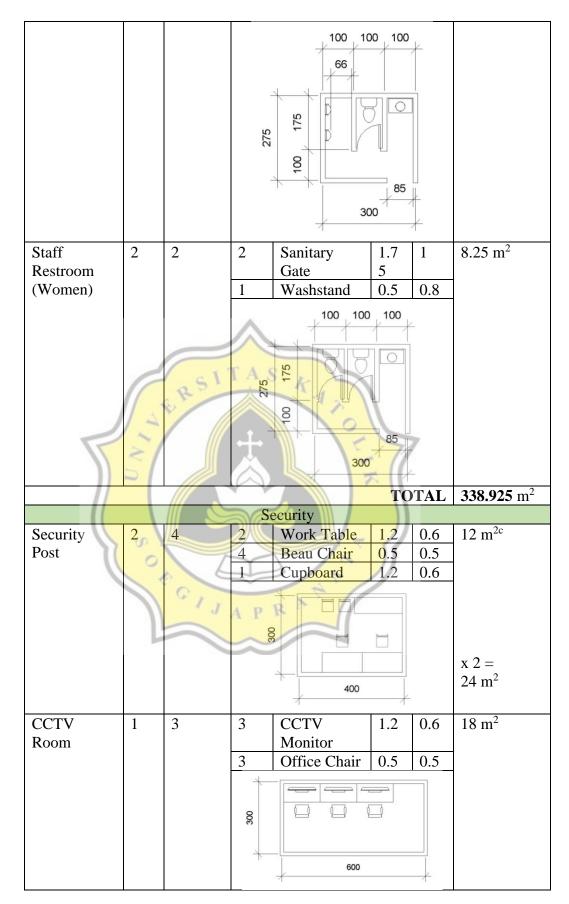
			450		90	88	
Vice	1	4	1	Work Table	2	1	28.125 m ²
President Director			1	Computer Desk	1.5	0.8	
Private			1	Executive	0.6	0.6	
Workspace				Chair			
			4	Sofa	0.8	0.8	
			1	Entertainme nt Centre	1.8	0.6	
				Drawer	0.7	0.4	
						5	
	6	SI	FIA S	Coffee	1	0.4	
	1	en		Table 120			
	ITNO SO		450	625		133	
Corporate	1	OI C	1	Computer	1.5	0.8	12.5 m^2
Secretary	1	11	A ₁ P	Desk Office Chair	0.5	0.5	
	L	1	2	Sofa	0.8	0.8	
			250		-74 -74	124	
Business	1	3	1	Computer	1.5	0.8	21.25 m ²
Developmen				Desk			
t Director			1	Office Chair	0.5	0.5	
Private Workspace			1	Bookshelf	1.2	0.6	
Workspace			1 2	Drawer Beau Chair	0.4 0.5	0.3 0.5	
			3	Sofa	0.3	0.3	

			1	End Table	0.4	0.4	
			_1	End Table	0.4	0.4	
			425		136	90	
Operational	1	3	1	Computer	1.5	0.8	21.25 m ²
Director				Desk	0.7	0.7	
Private			1	Office Chair	0.5	0.5	
Workspace			1	Bookshelf	1.2	0.6	
			1	Drawer	0.4	0.3	
			2	Beau Chair	0.5	0.5	
			3	Sofa	0.8	0.8	
			1	End Table	0.4	0.4	
	AIND 5	e Rost	425			90	14 2
Head of People	1	3	1	Computer Desk	1.5	0.8	14 m ²
Private	1	000	1	Office Chair	0.5	0.5	
Workspace		CIJ	1 p	Side Table	2	0.5	
() offispace		~ °	2	Beau Chair	0.5	0.5	
	L		$\langle \langle$		86 + 122 96 +		
Marketing	1	4	2	Computer	1.5	0.8	22.5 m ²
Department				Desk			
Workspace			2	Office Chair	0.5	0.5	
			1	Bookshelf	1.2	0.6	
			2	Beau Chair	0.5	0.5	

			450				
Finance &	1	5	3	Computer	1.5	0.7	28.125 m ²
Accounting			2	Desk	2	5	
Department			3	Side Table	2	0.6	
Workspace			<u> </u>	Office Chair Bookshelf	0.5	0.5	
			2	Beau Chair	0.5	0.6	
	(AINO	ORSI'					
Front Office	1	4	3	Computer	1.5	0.8	11.25 m ²
Department				Desk	0.5	0.5	
Workspace	s I		3	Office Chair Bookshelf	0.5 1.2	0.5	
	0	NE	2	Beau Chair	0.5	0.0	
		GIJ			109		
Housekeepin	1	10	2	Dining	1.2	0.8	25.3 m^2
g				Table			
Department			8	Beau Chair	0.5	0.5	
Room			2	Credenza	1.2	0.6	

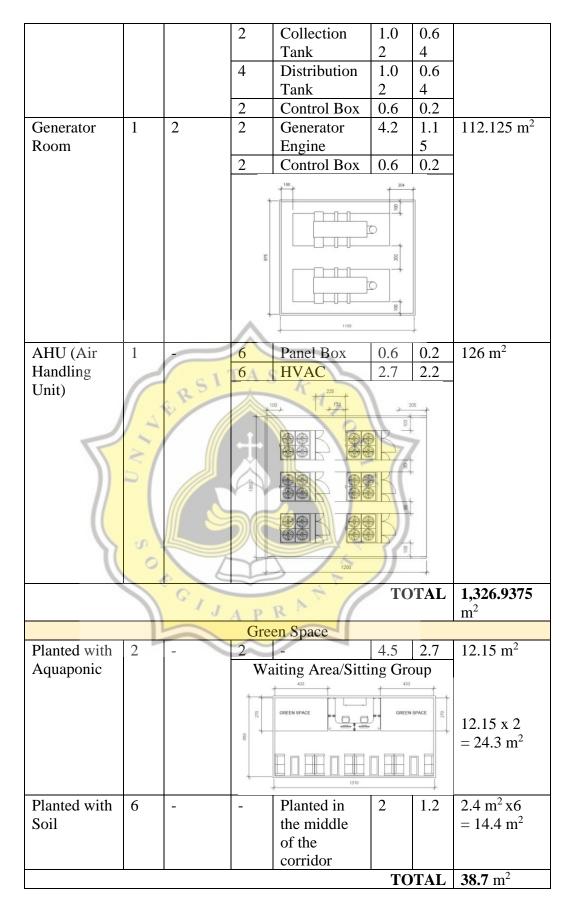


Staff Room	1	10	2	Dining	1.5	0.7	38 m ²
	1	10	Z	Dining Table	1.3	0.7 5	58 III
(+ Pantry)			0		0.5		
			8	Beau Chair	0.5	0.5	
			3	Sofa	0.8	0.8	
			1	End Table	0.7	0.7	
			-		5	5	
			2	Locker	0.9	0.4	
						5	
			1	Kitchen Set	2	0.7	
			1	Refrigerator	0.6	0.6	
					6		
			2	Stove/Range	0.5	0.6	
			+		EF		
					101		
			475			X	
				137 120			
			\wedge				
				800			
			LA T	TTINI G		*	
Canteen	16	2,51	1	Kitchen Set	2	0.7	-
Tenant	1	6	1	Refrigerator	0.6	0.6	
	1 4	/ //		10	6		
(Already	21		1	Table	2	0.6	
calculated in	</td <td></td> <td>1</td> <td>Beau Chair</td> <td>0.5</td> <td>0.5</td> <td></td>		1	Beau Chair	0.5	0.5	
canteen	0		A			-+	
space			4 V		3	-	
calculation)					,	200	
			350	REF.			
17	0.1			- TA	93		2
	0	NE	T				14 m ²
		0					
		°13	AD	400			
Staff	2	3	1	Sanitary	1.7	1	8.25 m ²
Restroom			~	Gate	5		0.23 III
(Men)			2		0.3	0.2	
			2	Urinary		0.2	
			1	Washstand	5	0.0	
			1	Washstand	0.5	0.8	



	TOTAL 42 m ²						
-			Serv	vice Area			
Men's	16	3	2	Sanitary	1.7	1	13.0625 m ²
Restroom				Gate	5		
			2	Urinal	0.4	0.2	
					8	7	
			2	Washstand	0.5	0.8	
			275			*	x 16 = 209 m ²
Women's	16	3	3	Sanitary	1.7	1	13.0625 m ²
Restroom		_	\wedge	Gate	5		
		(···	2 Washstand 0.5 0.8				
	AINO	SRS1	275		175	*	x 16 = 209 m ²
Lavatory	2	3	3	Shower	2//	1	14.25 m ²
11	0		2	Washstand	0.5	0.9	
	, °,	o E	1	100 100 100	175		
		G (30				$x = 28.5 m^2$
Praying	1	20	20	Prayer Mat	1.1	0.6	77.5 m ²
Room			4	Ablution	0.3	0.8	
				Room			

	1	10	1000 800 60 132			*	20 2
Warehouse	1	10	-	-	10	8	$\frac{80 \text{ m}^2}{1 \text{ m}^2 \text{ x16}}$
Janitor	16	1	1	Storage	0.9	0.9	
Room	15		1	Module	4.2	26	= 16 m2
Emergency Stairs	15	-	1	Stairs Module	4.2	2.6	17.55 m^2
Shaft Lift	20	ERSI 15		585	30 130 R 2.1	8	17.55 x 15 = 263.25 m ² 5.7 m ²
	20 5 0			Shaft Module	2.1 5882	1.1	5.7 x 20 = 114 m ²
Panel Room	5	1	1	Panel Box	1.5	1	$1.5 \text{ m}^2 \text{x5} =$ 7.5 m2
Shaft	5	-	1	Electrical	0.9	0.9	2 m ²
			1	Shaft Plumbing Shaft	0.9	0.9	x5=10 m ²
Mechanical	1	2	2	Electrical	0.6	0.2	1.5 m^2
Electrical				Panel Box			
			2	Control Box	0.6	0.2	
WWTP	1	2	3	Filtration	0.3	0.6	9 x 10 m
Room				Tank	7		$= 90 \text{ m}^2$



SPACE REQUIREMENTS (TOTAL) = 15,006.735 m²

Tabel III. 5 Inner Space Quantity Analysis

Source: Personal Analysis

- c) Scales
 - A) Intimate Scale

The intimate scale consists of rooms intended to create a friendly and comfortable work environment or atmosphere. The spaces classified in the intimate scale are the canteen, napping area, library, fitness centre, and sitting groups.

B) Human / Natural Scale

The human or natural scale consists of rooms whose spatial dimensions are reasonably adapted to the activities that occur in the room. The spaces classified in the human or natural scale are the private workspace or office, meeting room, committee room, backstage, canteen tenant, pantry, CCTV room, security post, and service rooms.

C) Monumental Scale

The monumental scale consists of rooms with larger dimensions according to the activities that occur. The spaces classified in the monumental scale are the public spaces such as the lobby auditorium, multi-function hall, and outdoor park.

3.1.4 Space Structure

a) Space Classification

Space Function Zoning	Space Needed	Space Zoning	Space Type
Stort Lin's	Workspace	Semi-Private	Indoor
Start-Up's Incubation Office	Pantry	Service	Indoor
Incubation Office	Play Area	Semi-Private	Indoor
Investor/Equilitator	Workspace	Semi-Private	Indoor
Investor/Facilitator Rental Office	Meeting Room	Private	Indoor
Kental Office	Pantry	Service	Indoor

	Lobby	Public	Indoor
	Waiting Area / Sitting Group	Public	Indoor
	Multi-Function Hall	Semi-Public	Indoor
Common Spaces	Auditorium	Semi-Public	Indoor
	Backstage	Semi-Private	Indoor
	Canteen	Public	Indoor & Semi Outdoor
	Meeting Room	Private	Indoor
	Library	Public	Indoor
Recreational	Fitness Centre	Semi-Private	Indoor
Facilities	Napping Area	Semi-Public	Indoor
	Outdoor Park	Public	
Common Service	Print & Photocopy	Semi-Private	Indoor
	Receptionist	Semi-Private	Indoor
	Private Workspace	Private	Indoor
Building Manager	Meeting Room	Private	Indoor
& Staff	Librarian Space	Semi-Private	Indoor
1.1	Canteen Tenant	Semi-Private	Indoor
PSI	Pantry Staff	Service	Indoor
	CCTV Room	Private	Indoor
Security	Security Post	Semi-Private	Indoor & Semi Outdoor
	Restroom	Public	Indoor
S or VE	Lavatory	Semi-Private	Indoor
0	Praying Room	Public	Indoor
0	Warehouse	Semi-Private	Indoor
	Janitor's Room	Service	Indoor
	Panel Room	Service	Indoor
	MEP Room	Service	Indoor
Service	WWTP Room	Service	Indoor
	Generator Room	Service	Indoor
	AHU Room	Service	Outdoor
	Drop Off Area	Service	Semi Outdoor & Outdoor
	Parking Area	Service	Semi Outdoor & Outdoor

Tabel III. 6 Space Structure

Source: Personal Analysis

b) Spatial Organization

The spatial organization of space is fundamental to the creation of space composition. This Start-Up Centre is organized with the radial organization. The radial organization is a combination of both centralized and linear organizations. The central focal point that linear form radiates from is likened to the lobby, while the line is likened to the corridor that connects to another room/space.



Figure 3. 8 Radial Spatial Organization

Sources: https://www.arsitur.com/2017/11/pengertian-dan-organisasi-ruangdalam.html

3.2 Site Analysis and Program

3.3.1 Types of Outdoor Space

a) Outdoor Space Requirements

A) Outdoor Space Quantity Analysis

Outdoor Space	Unit	Capacity	Capacity Outdoor Space Quantity Analysis		Area		
			Unit	Furniture	р	1	
Outdoor	1	100	100	Human	0.6	0.6	78.3
Amphitheatre				Dimensions			m^2
			000	UP 1305			
Bus Shelter	1	20	3	4-Seater Bench	1.53	0.46	14.5 m ²

Gojek / Grab Shelter	1	10	10 m ²
	1		102.8 m ²

Tabel III. 7 Outdoor Space Quantity Analysis

Source: Personal Analysis

B) Parking Area

a. Parking area for the building manager & staff

RS

There are 60 people of building managers who assumed to come

Types of	Assumption	Number of	Number of
Vehicle		User	Vehicle
Car	15%	9	9
Motorbike	60%	36	36
Public	25%	15	-
Transport	ATT		
	\sim	Total	9 Cars
		Total	36 Motorbikes

Tabel III. 8 Building Manager's Parking Capacity Analysis

Source: Personal Analysis

b. Parking area for the start-up (incubation participant)

There are 680 incubation participants who assumed to come everyday Assumptions of vehicle users

Car = 2 people

Motorbike = 2 people

Types of	Assumption	Number of	Number of	
Vehicle		User	Vehicle	
Car	20%	136	68	
Motorbike	50%	340	340	
Public	30%	204	-	
Transport				
		Total	68 Cars	
	340 Motorbikes			

Tabel III. 9 Start-Up's Parking Capacity Analysis

Source: Personal Analysis

c. Parking area for the investor and facilitator

There are 475 people who assumed to come everyday

Assumptions of vehicle users

Car = 2 people Motorbike = 1 people

niotorbike - i people					
Assumption	Number of	Number of			
	User	Vehicle			
40%	190	95			
40%	190	190			
20%	95	-			
95 Cars					
10tal 190 Motorbikes					
Tabel III. 10 Investor and Facilitator's Capacity Analysis					
Source: Personal Analysis					
	Assumption 40% 40% 20% 10 Investor and	Assumption Number of User 40% 190 40% 190 20% 95 Total 10 Investor and Facilitator's Capace			

d. Parking area for the visitor

Capacity studies are carried out specifically for visitor parking capacity at certain events. The study looks at the theatre buildings and halls in Jakarta. Based on the number of visitors and vehicle capacity, the conclusion of the percentage is as follows:

Building Name / Building Function	Visitor Capacity	Parking Capacity	Percentage
ICE BSD /	Up to 50,000	5000 Indoor	$\pm 25\%$
Convention	people	7000 Outdoor	
Exhibitions			

Jakarta Convention	Up to 18,500	6000 Indoor	$\pm 35\%$
Centre / Meetings,	people		
Incentives,			
Conferences, and			
Exhibitions (MICE)			
	Up to	± 30,000:	$=\pm 25\%$
	13,0000	\pm 10,000 cars	Car ±
Jakarta International	people (/day)	\pm 20,000	7.75%
Expo (MICE)		motorbikes	Motorbike
			$\pm 15.5\%$

Tabel III. 11 Visitor's Parking Capacity Study

```
Source: Personal Analysis
```

High visitor numbers (1100 people) are assumed only at certain events Assumptions of vehicle users 35% = 385 people

Motorbike	= 1 people
Motorbike	= I people

Car

1

= 2 people

Types of	Assumption	Number of	Number of
Vehicle		User	Vehicle
Car	50%	192	96
Motorbike	30%	115	115
Public	20%	77	-
Transport Second			
5		Total	96 Cars
$\left(\circ \right)^{-}$	m	Total	115 Motorbikes
181		//	

Tabel III. 12 Visitor's Parking Capacity Analysis

Sources: Personal Analysis

Total Parking Area

- i. Car = Car parking dimensions x number of cars = $(2.5m \times 5m) \times (9+68+95+96)$ = 12.5×268 = $3,350 \text{ m}^2$
- ii. Motorbike = Motorbike parking dimensions x number of motorbikes

= (1m x 2 m) x (36+340+190+115)

b) Outdoor Space Requirements

Based on previous calculations, the total outdoor space required is as follows: Total Outdoor Space Area = (102.8 + 3,350 + 1,362)= $4,814.8 \text{ m}^2$

3.3.2 Effective Land Area

Based on the calculation of the area of indoor and outdoor space, the calculated total area is as follows:

- a. Indoor Space Requirements S: 15,006.735 m²
- b. Outdoor Space Requirements : 4,814.8 m²

= 3,001.347 x 55%

The following are the applicable regulations or regulations regarding spatial layout for selected locations from the Tangerang Regency Regional Regulation Number 09 of 2006 concerning Siteplan:

a. Land Area = Total Space Requirements : Floor-Area Ratio (FAR)

$$= 15,006.735:5$$
 $= 3,001.347 \text{ m}^2$

b. BCR = Land Area x BCR

 $= 1.650.74084 \text{ m}^2$

c. Floor-Area Ratio (FAR) at 5

FAR = Land Area x FAR

- $= 1,650.74084 \text{ x } 5 \qquad \qquad = 8,253.70425 \text{ m}^2$
- d. Number of Floors

= FAR: BCR = 8,253.70425 : 1,557.9672 = 5.29 (5)

96

e. Green Open Space

$$= 30\% \text{ x} (1,650.74084 + 4,814.8)$$
$$= 30\% \text{ x} 6,465.54084 \qquad = 1,939.662252 \text{ m}^2$$

f. Total Area

$$= 3,001.347 + 4,814.8 + 1,939.662252$$
$$= 9,755.809252 \text{ m}^2$$

3.3 Artificial Environment Analysis

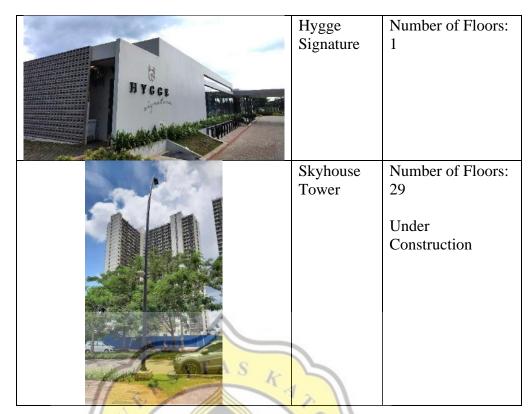
3.3.1 Surrounding Building Analysis



Figure 3. 9 Site and It's Surrounding Building Sources: www.google/earth/

Building Exterior	Building Name	Analysis
	Green Office Park 1	Number of Floors: 5 Following the developer's rules, all buildings that built in the Green

Green Office Park 6 Sinar Mas	Office Park BSD area won the Green Building (GBCI) awards. The buildings are built with Building Coefficient Ratio (BCR) of 25-35%.
Land	The similarities of the buildings are: Using the stopsol glass, shading devices, and double facade systems such as perforated shading, light shelves, and
Graha Unilever BSD Green Office Park 9	reflective shading.



Tabel III. 13 Surrounding Building Analysis

Sources: Personal Analysis

- 3.3.2 Transportation and Utility Analysis
 - A) Transportation

Type of Transportation:

a. Private Vehicle

PRA BSD City can be reached via 2 existing toll roads, the Jakarta-Serpong toll road and the Jakarta Outer Ring Road, and 1 future toll road (Serpong-Balaraja).



Figure 3. 10 Distance to Jakarta-Serpong Toll Road Sources: maps.google.com

b. City Shuttle BSD Link (Free)

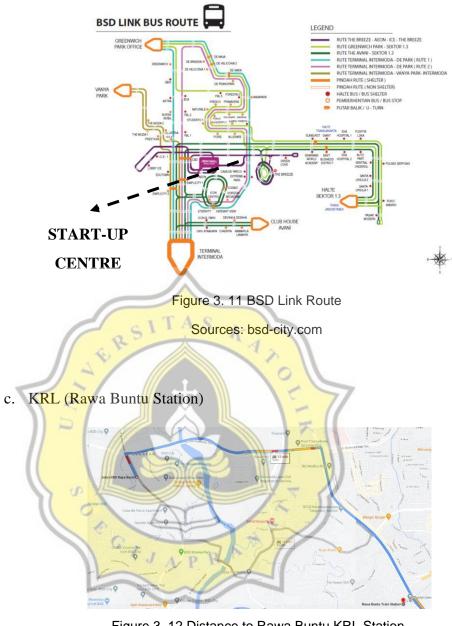


Figure 3. 12 Distance to Rawa Buntu KRL Station Sources: maps.google.com

B) Utility

a. Electricity Network

The electricity network at BSD has already used the underground cable system.

b. Water Network

The source of water comes from PDAM, Cisadane River water treatment, or artesian deep well.

c. Drainage

Drainage at the location uses a closed system so that the appearance looks cleaner. The drainage manholes are approximately 6 meters away from each other.

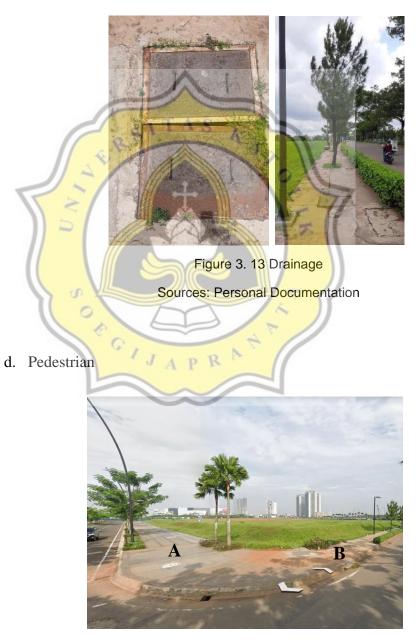


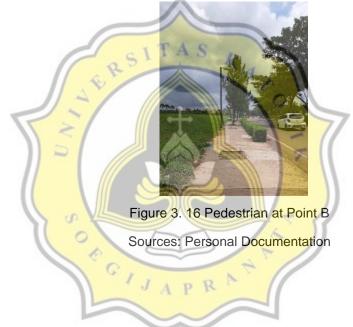
Figure 3. 14 Pedestrian Sources: www.google/earth/

The pedestrian at point A (side of the Edupark Road) has a width of 6 meters, while the pedestrian at point B (side of BSD Boulevard Barat Road) is 3 meters wide.



Figure 3. 15 Pedestrian at Point A

Sources: Personal Documentation



3.3.3 Vegetation Analysis

On the site, there is only green grass, while on the pedestrian, there are several trees including palm, pitch pine, and tamarind trees.



Figure 3. 17 Tamarind Trees Sources: Personal Documentation



Figure 3. 18 Palm Trees

Sources: Personal Documentation



3.4 Natural Environment Analysis

3.4.1 Climate Analysis

Temperature	$28^{\circ}\text{C} - 33^{\circ}\text{C}$	
Wind	Direction: From South to West/East	
	Wind Speed: 1.6 - 4.4 m/s	
Humidity	75%-87%	
Light Intensity	Average: 25,549	
	Max: 40,0357	
	taken at noon (12 pm), clear sky	

Tabel III. 14 Climate Analysis

Sources: Personal Analysis



Figure 3. 20 Sun Path Sources: Sunearthtools.com

3.4.2 Landscape and Topography Analysis

The land on the site has a relatively flat topography and is not overgrown with any tree. This matter makes the land preparation process less laborious. In the middle area of the site, there isn't any mound. But, the edges of each side are 1 meter higher than the centre.



Figure 3. 21 The Difference of Land and Road Elevation

Sources: Personal Documentation



Figure 3. 22 Site's Flat Topography Sources: Personal Documentation

3.4.3 View From Site



building, and lots of vacant lands.