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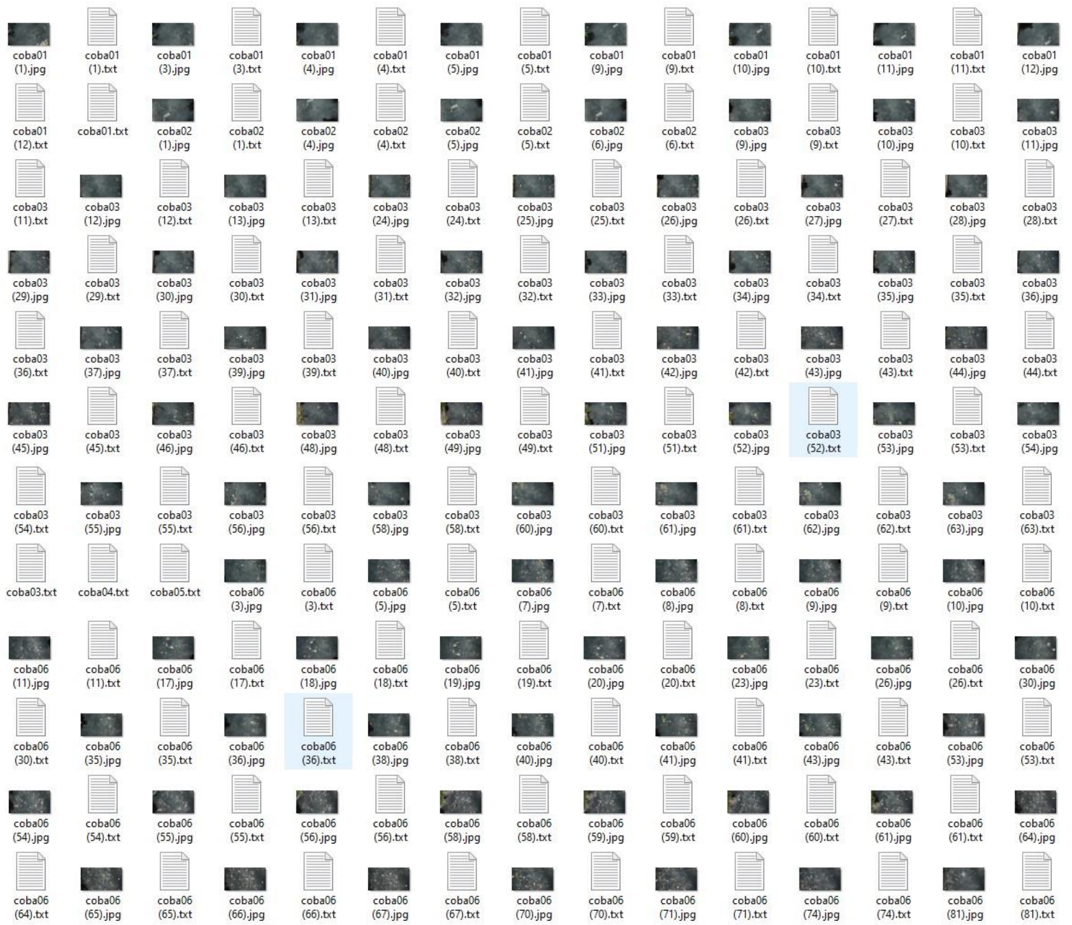
LAMPIRAN

Lampiran 1. Data *Training* Sistem



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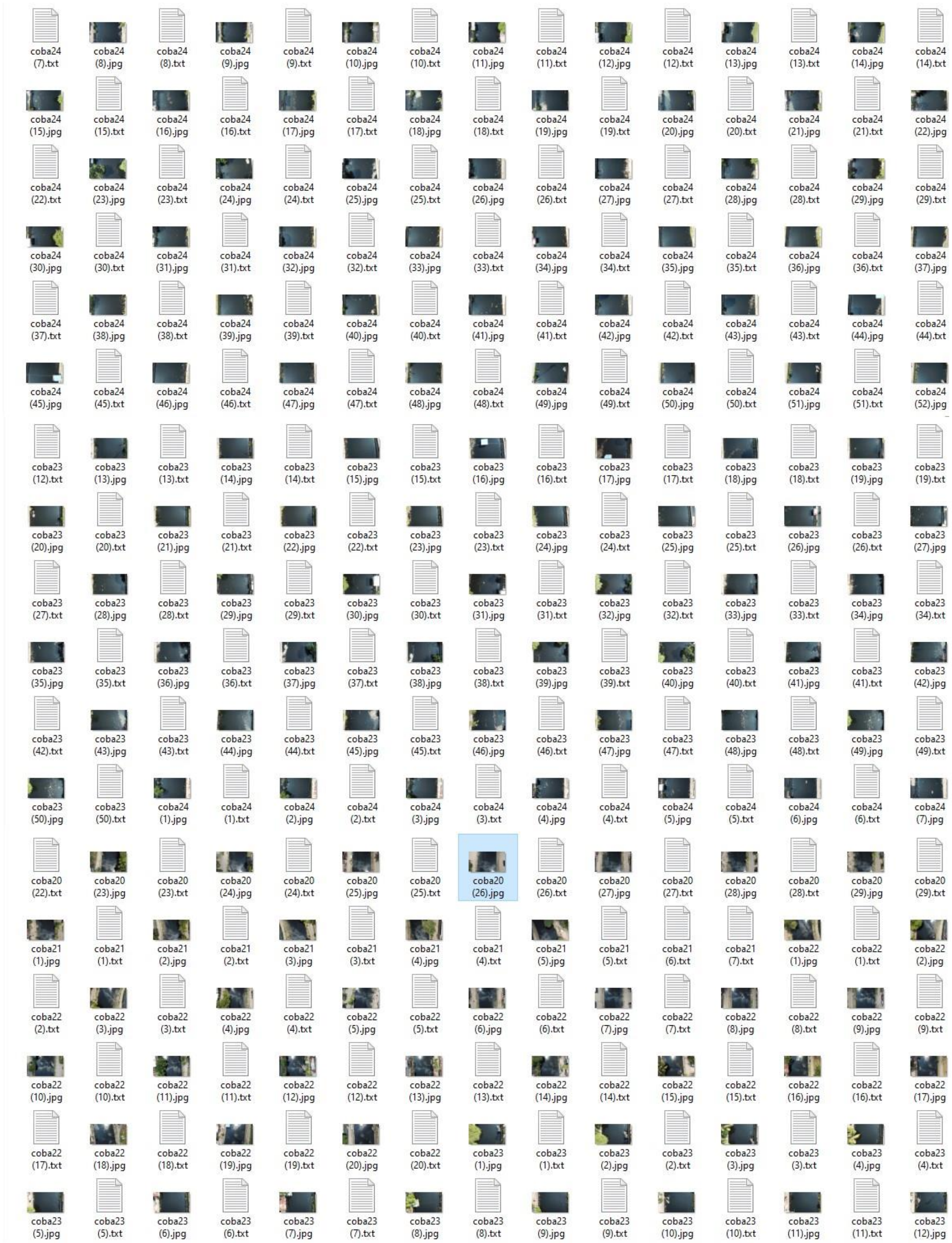
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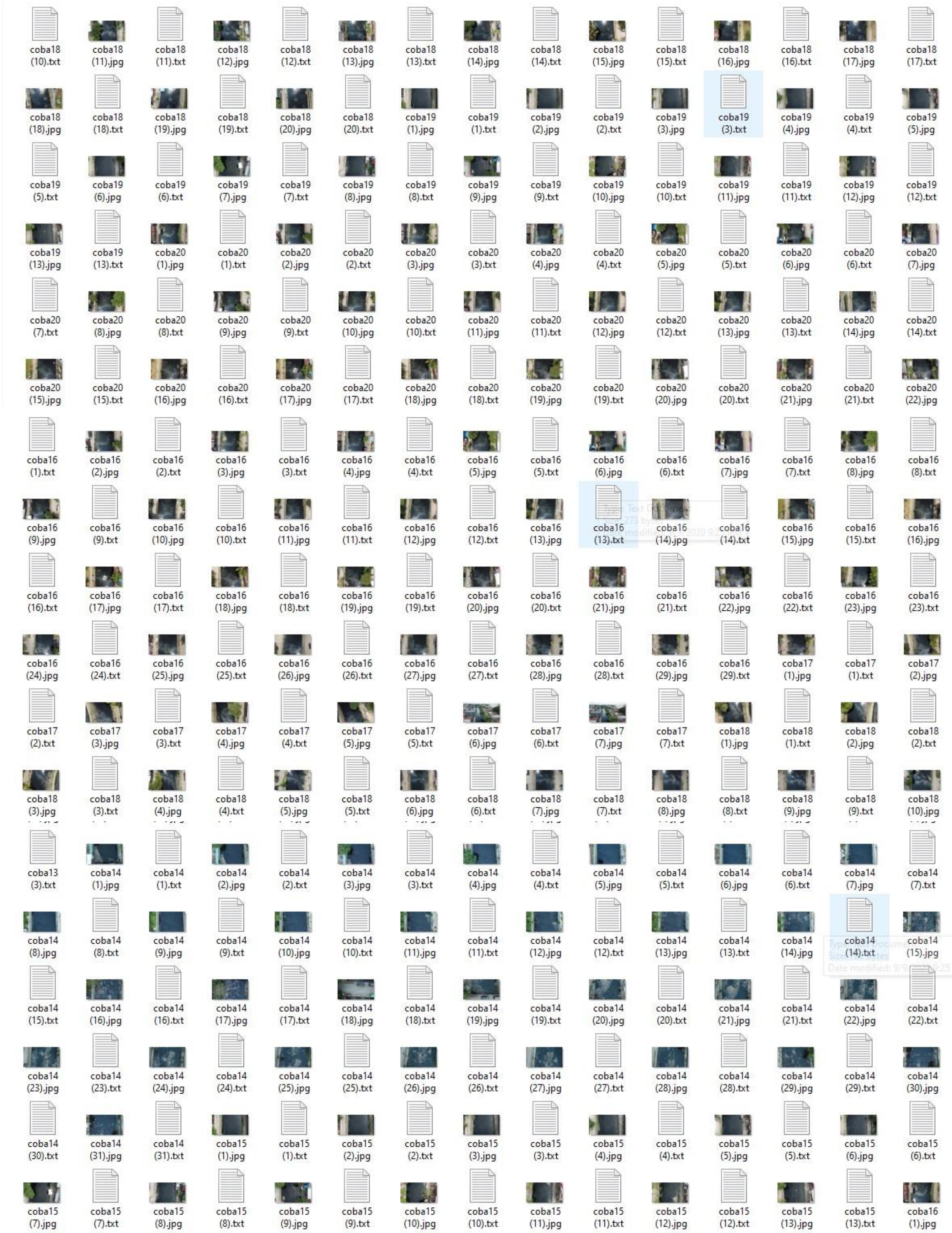

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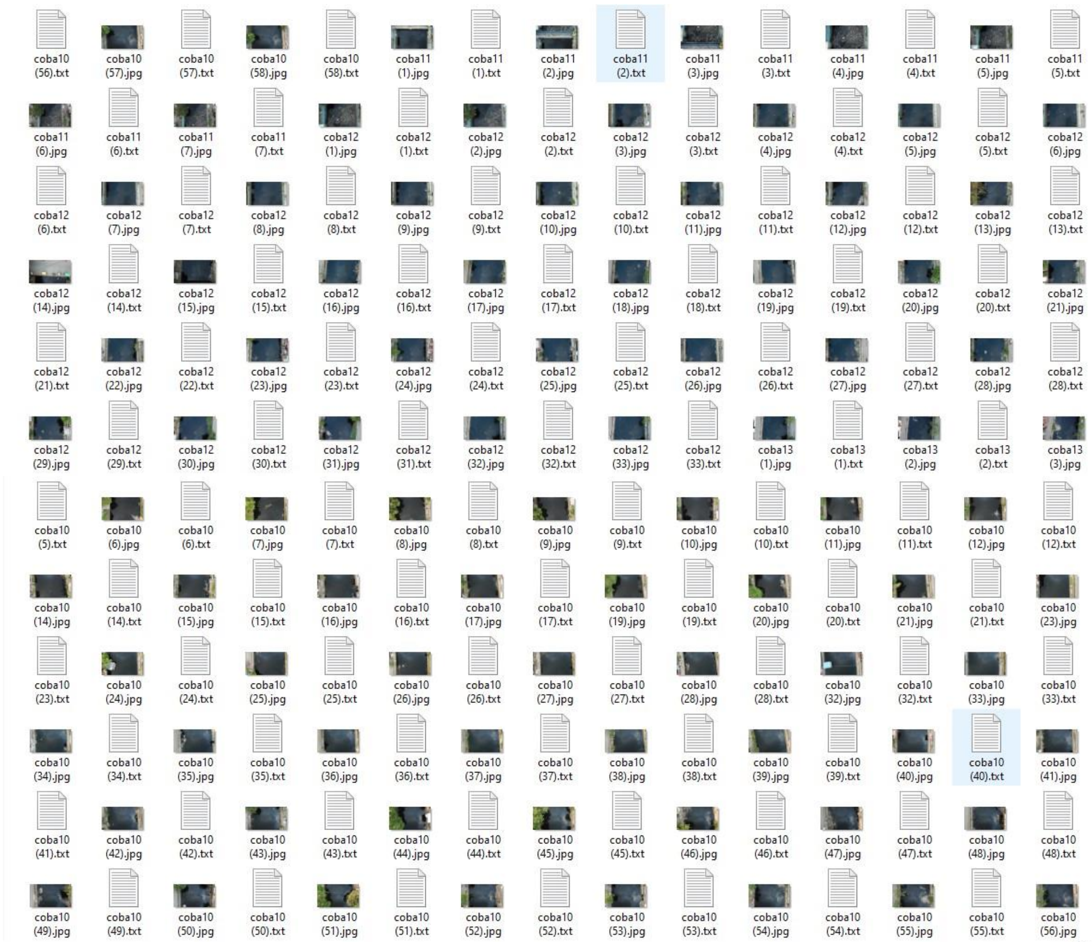
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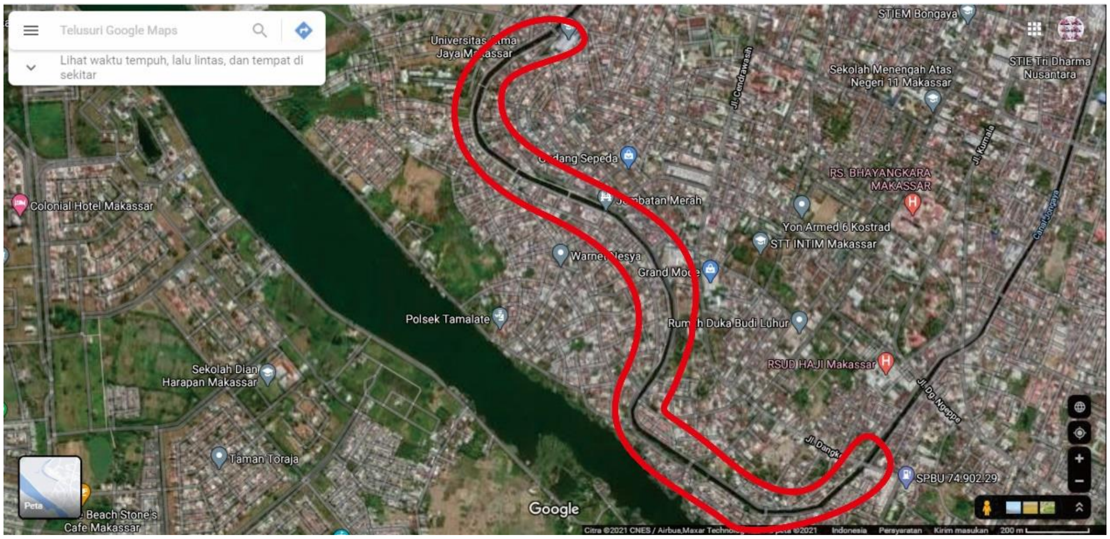
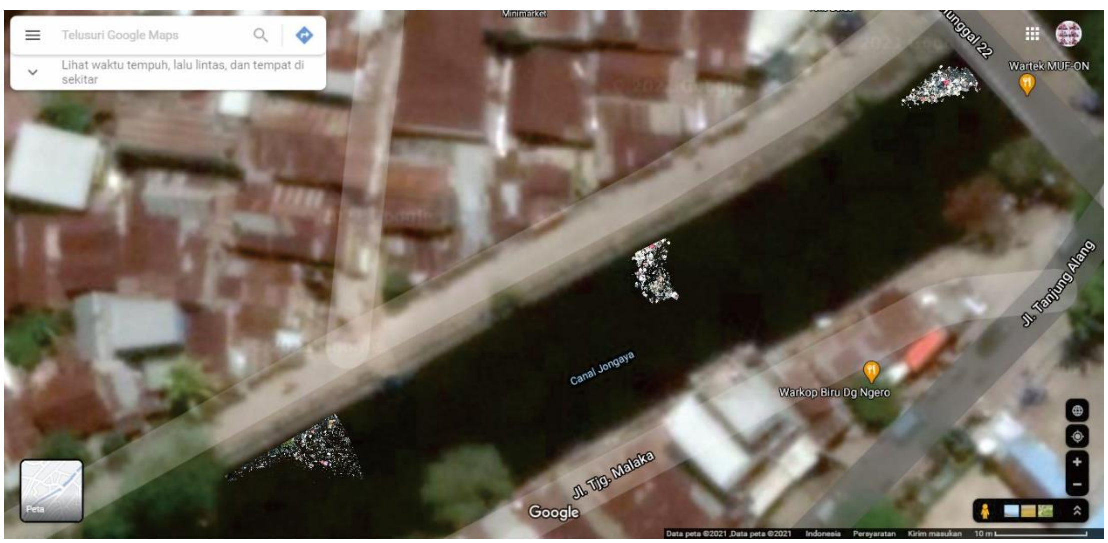
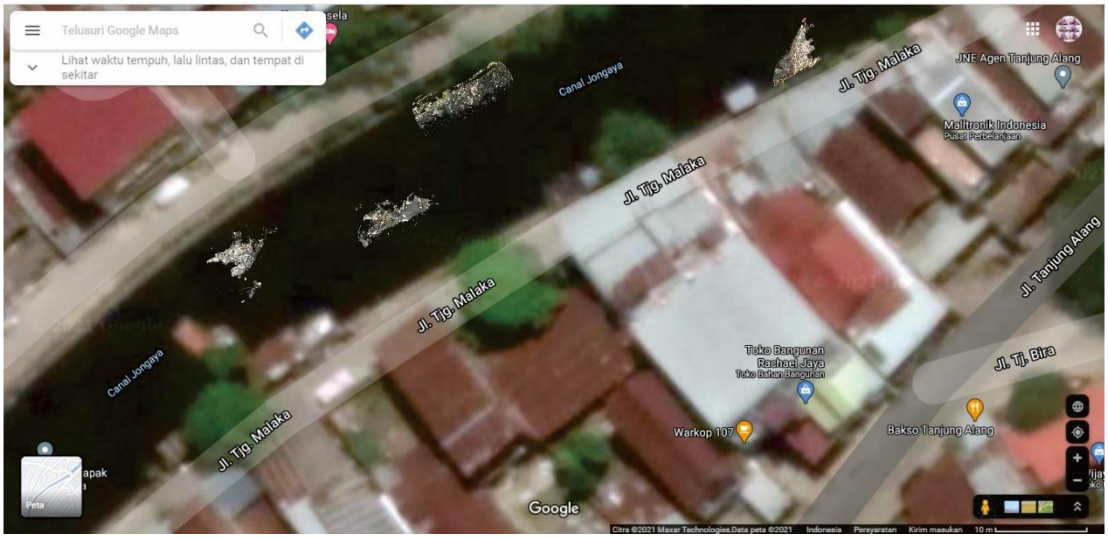
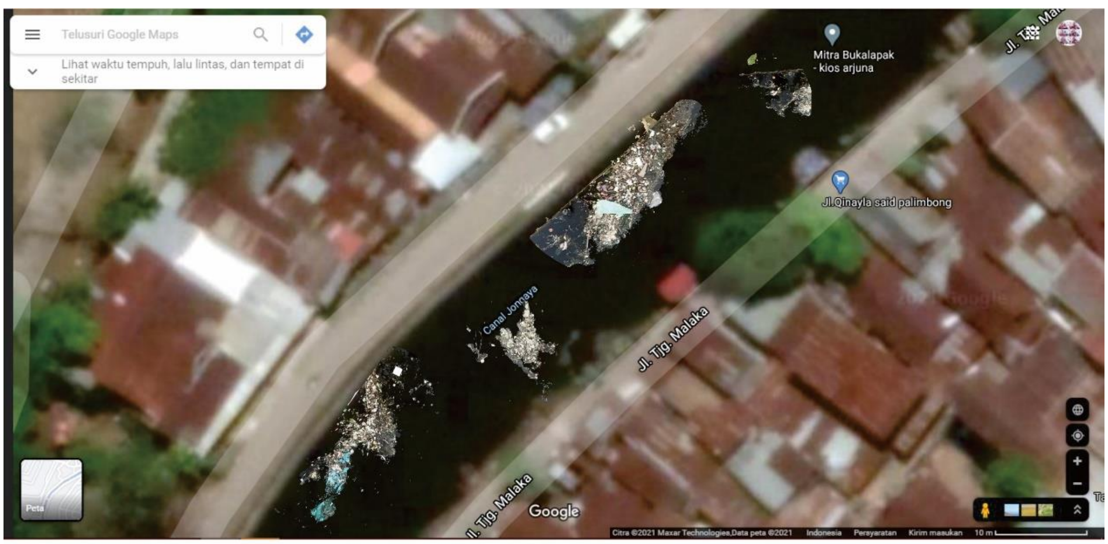
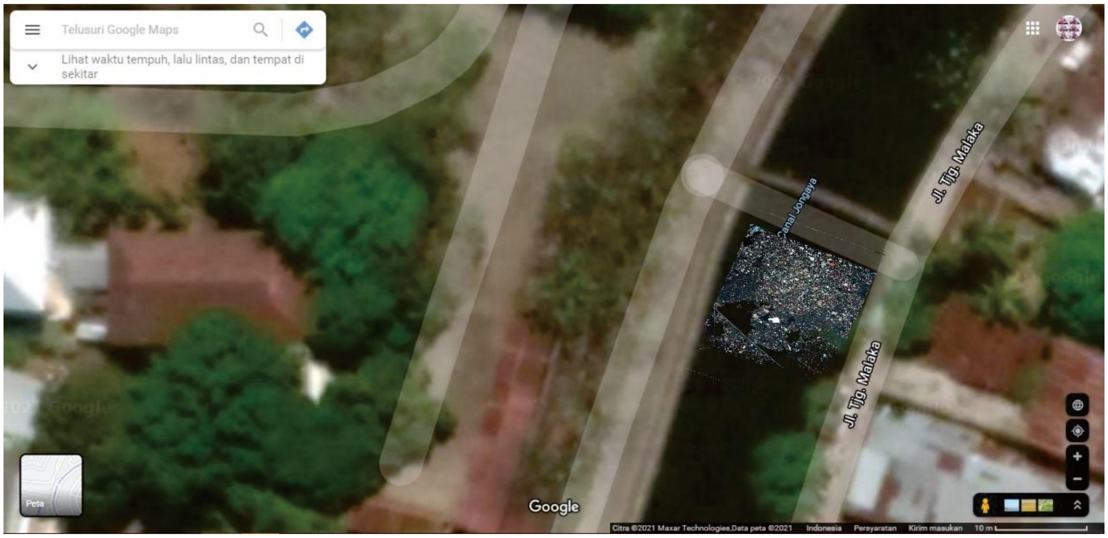
Lampiran 2. Gambar aliran kanal untuk mengetahui letak tempat pengambilan data uji sistem

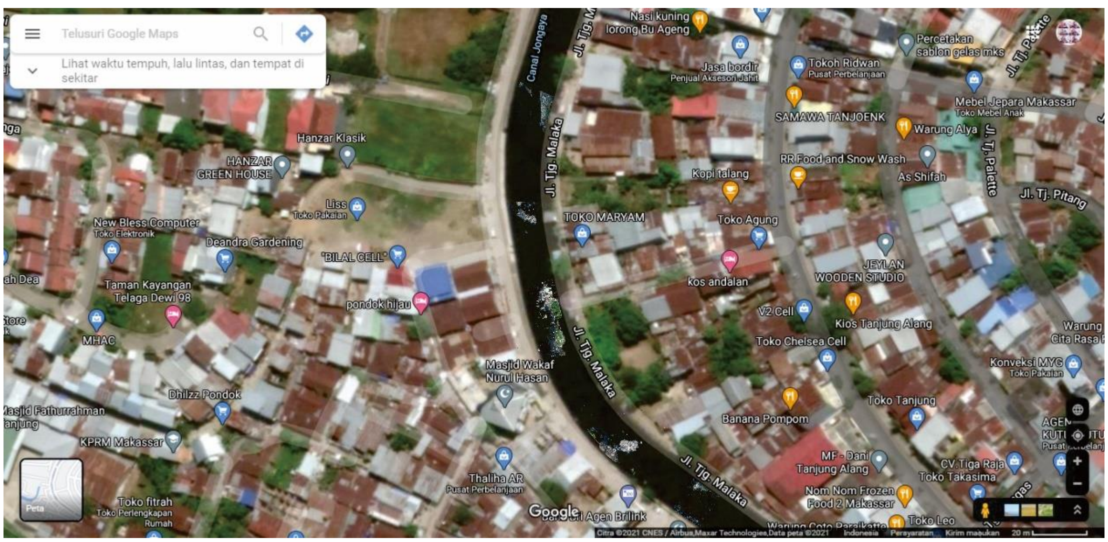


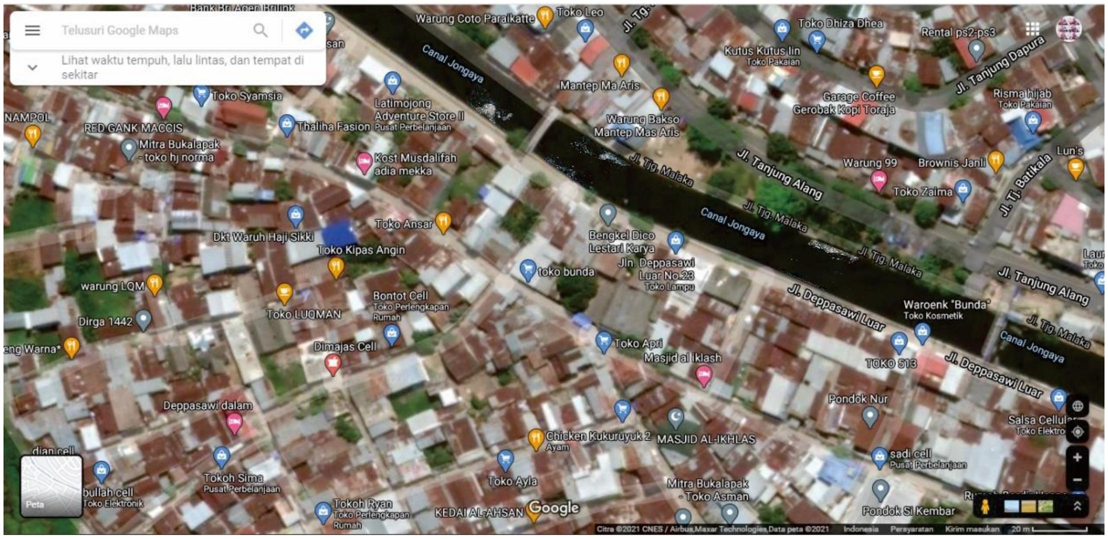


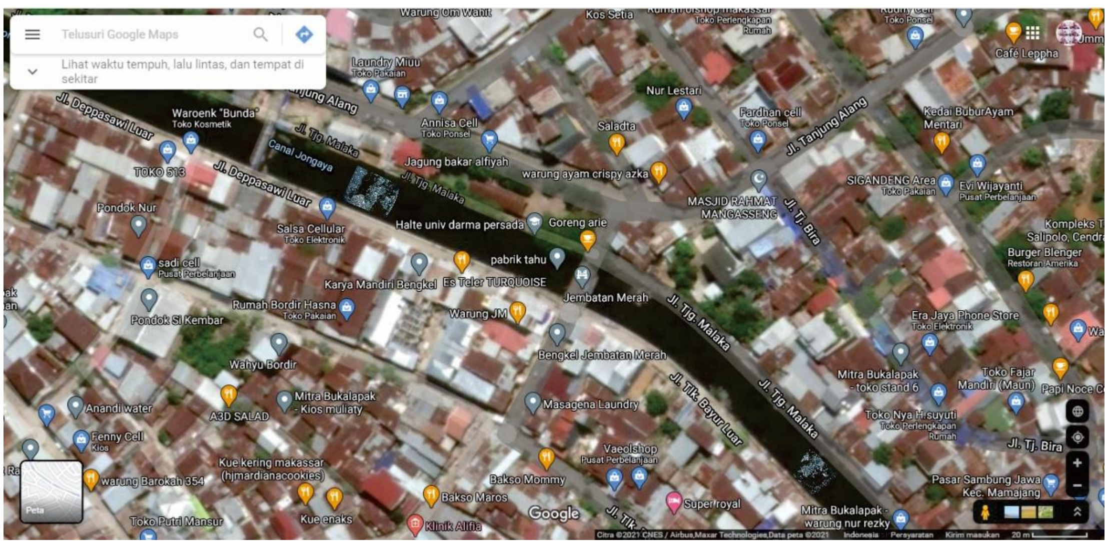

Telusuri Google Maps
Lihat waktu tempuh, lalu lintas, dan tempat di sekitar
Canal Jongaya
Jl. Tjg. Malaka
JNE Agen Tanjung Alang
Malltronik Indonesia
Jl. Tanjung Alang
Toko Bangunan Rachael Jaya
Jl. Tj. Bira
Warkop 107
Bakso Tanjung Alang
Google

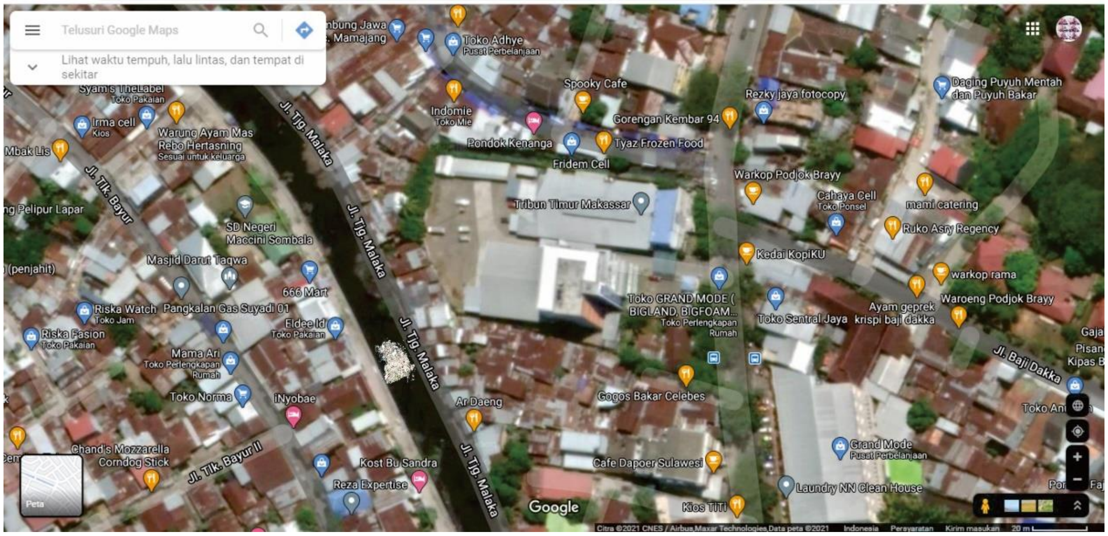

Telusuri Google Maps
Lihat waktu tempuh, lalu lintas, dan tempat di sekitar
Mitra Bukalapak - kios arjuna
Jl.Qinayla said palimbong
Canal Jongaya
Jl. Tjg. Malaka
Google

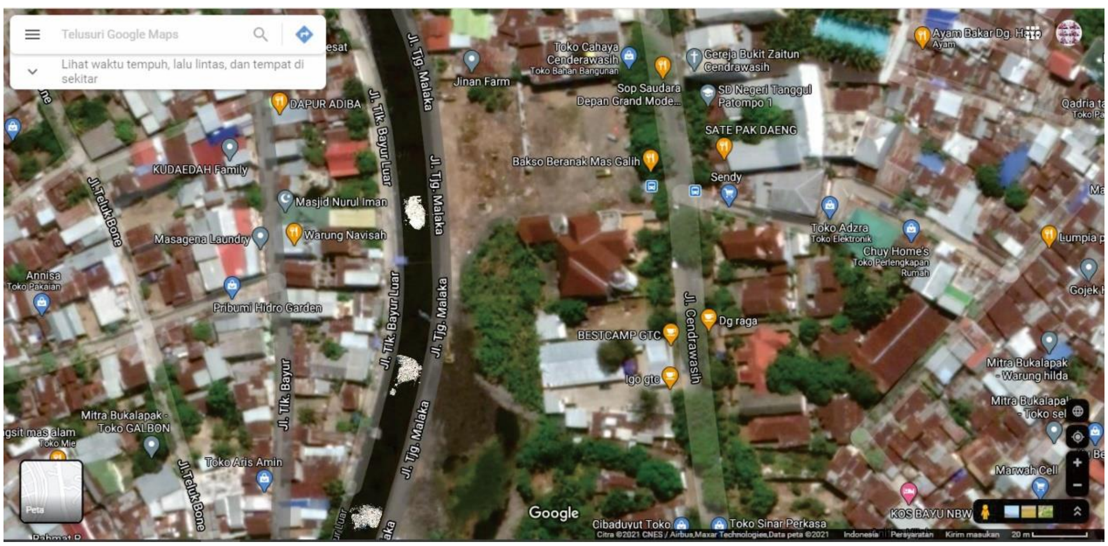

Telusuri Google Maps
Lihat waktu tempuh, lalu lintas, dan tempat di sekitar
Canal Jongaya
Jl. Tjg. Malaka
Jl. Tjg. Malaka
Peta
Google

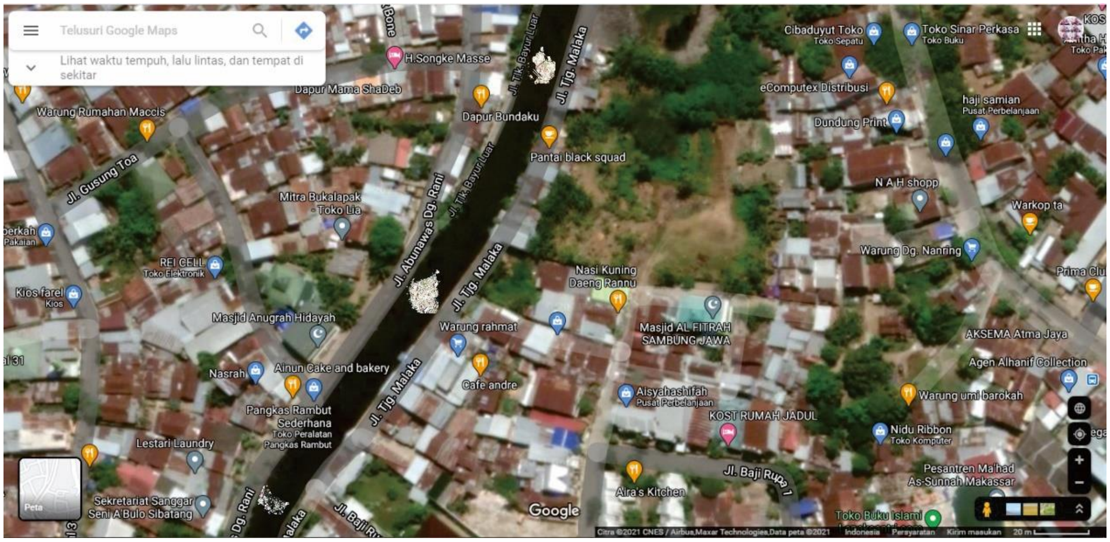

Telusuri Google Maps
Lihat waktu tempuh, lalu lintas, dan tempat di sekitar
Canal Jongaya
Nasi kuning lorong Bu Ageng
Jasa bordir
Tokoh Ridwan
Percetakan sablon gelas mks
SAMAWA TANJOENK
Mebel Jepara Makassar
Warung Alya
Hanzar Klasik
HANZAR GREEN HOUSE
Jl. Tjg. Malaka
RR Food and Snow Wash
Kopi talang
As Shifah
Jl. Tj. Palette
Jl. Tj. Pitang
Liss
TOKO MARYAM
Toko Agung
New Bless Computer
Deandra Gardening
"BILAL CELL"
JEYLAN WOODEN STUDIO
Kos andalan
Taman Kayangan Telaga Dewi 98
pondok hijau
V2 Cell
Kios Tanjung Alang
MHAC
Toko Chelsea Cell
Jl. Tjg. Malaka
Masjid Wakaf Nurul Hasan
Konveksi MYG
Dhilzz Pondok
Banana Pompom
Toko Tanjung
KPRM Makassar
MF - Dani Tanjung Alang
CV Tiga Raja
Toko Takasima
Thaliha AR
Jl. Tjg. Malaka
Nom Nom Frozen Food 2 Makassar
Toko fitrah
Agen Brilink
Toko Leo
Peta
Google

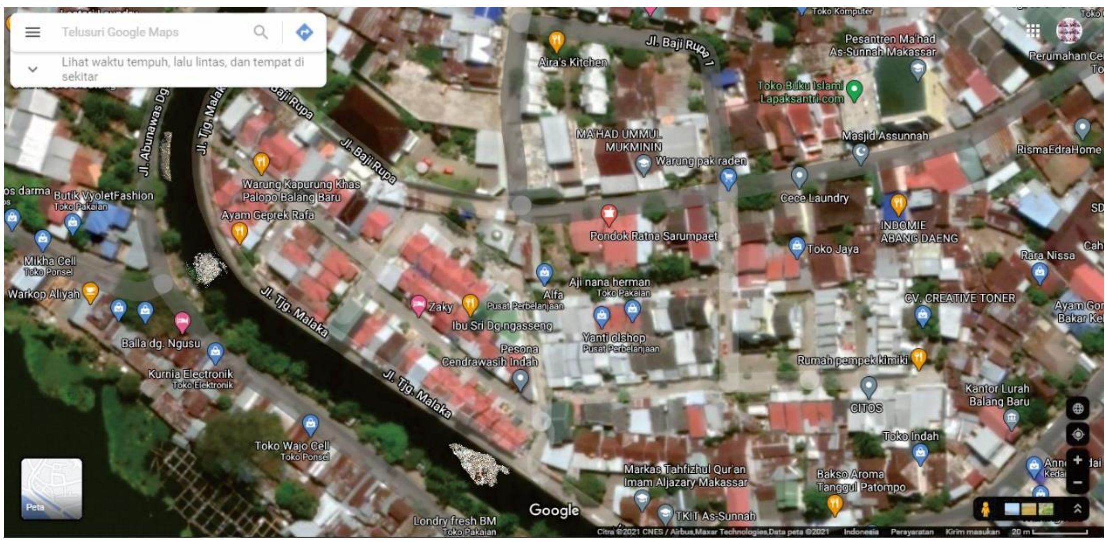

Telusuri Google Maps
Lihat waktu tempuh, lalu lintas, dan tempat di sekitar
Warung Coto Paraikatte
Toko Leo
Toko Dhiza Dhea
Rental ps2-ps3
Canal Jongaya
Kutus Kutus lin
Jl. Tanjung Dapura
Toko Syamsia
Latimojong Adventure Store II
Mantep Ma Aris
Garage Coffee
Gerobak Kopi Toraja
Risma hijab
RED GANK MACCIS
Thaliha Fasion
Warung Bakso Mantep Mas Aris
Mitra Bukalapak - toko hj norma
Kost Musdalifah adia mekka
Jl. Tanjung Alang
Warung 99
Brownis Janli
Jl. Tg. Malaka
Toko Zaima
Toko Ansar
Bengkel Bico Lestari Karya
Dkt Waruh Haji Sikki
Toko Kipas Angin
toko bunda
Jln. Deppasawi Luar No.23
warung LQM
Bontot Cell
Jl. Deppasawi Luar
Waroenk "Bunda"
Toko Kosmetik
Jl. Tanjung Alang
Dirga 1442
Toko LUQMAN
Dimajas Cell
Toko Apri
Masjid al Iklash
TOKO 513
Pondok Nur
Deppasawi dalam
Chicken Kukuruyuk 2
MASJID AL-IKHLAS
Salsa Cellular
sadi cell
Tokoh Sima
Toko Ayla
Mitra Bukalapak - Toko Asman
Tokoh Ryan
KEDAI AL-AHSAN
Google
Pondok Si Kembar
Peta

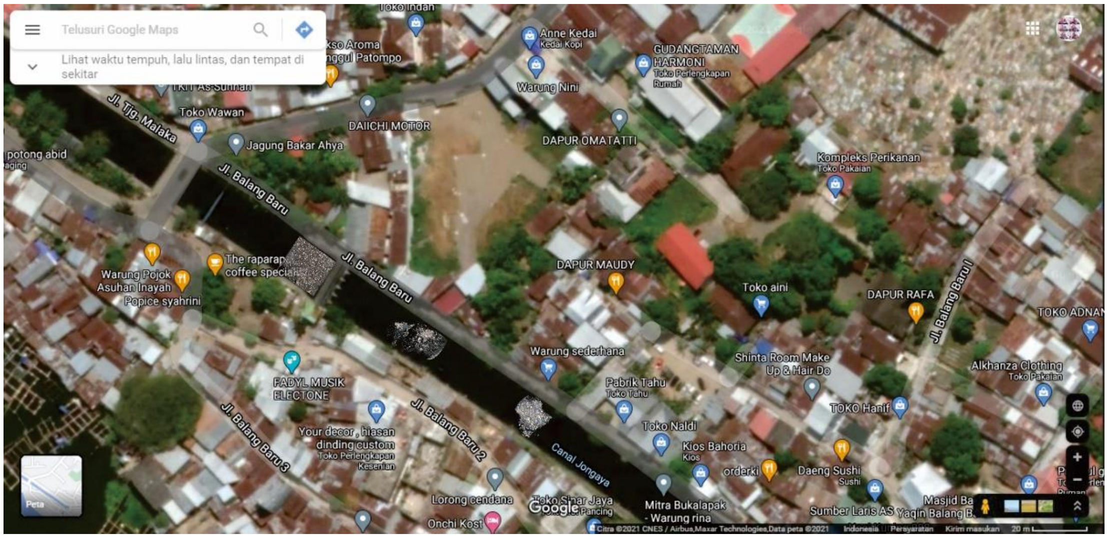

Telusuri Google Maps
Lihat waktu tempuh, lalu lintas, dan tempat di sekitar
Kos Setia
Laundry Miuu
Café Leppha
Nur Lestari
Jl. Deppasawi Luar
Waroenk "Bunda"
Toko Kosmetik
Annisa Cell
Fardhan cell
Kedai BuburAyam Mentari
Saladta
Jl. Tanjung Alang
TOKO 513
Canal Jongaya
Jagung bakar alfiyah
warung ayam crispy azka
SIGANDENG Area
Evi Wijayanti
Jl. Deppasawi Luar
MASJID RAHMAT MANGASSENG
Pondok Nur
Salsa Cellular
Halte univ darma persada
Goreng arie
Jl. Tj. Bira
pabrik tahu
Burger Blenger
sadi cell
Karya Mandiri Bengkel
Es Teler TURQUOISE
Jembatan Merah
Rumah Bordir Hasna
Warung JM
Era Jaya Phone Store
Pondok Si Kembar
Jl. Tg. Malaka
Bengkel Jembatan Merah
Wahyu Bordir
Mitra Bukalapak - toko stand 6
Toko Fajar Mandiri (Maun)
Mitra Bukalapak - Kios mullaty
Masagena Laundry
Anandi water
A3D SALAD
Toko Nya Hrsuyuti
Jl. Tik. Bayur Luar
Fenny Cell
Vaeolshop
Jl. Tj. Bira
Kue kering makassar (hjmardianacookies)
Bakso Mommy
warung Barokah 354
Pasar Sambung Jawa Kec. Mamajang
Bakso Maros
Super royal
Google
Kue enaks
Mitra Bukalapak - warung nur rezky
Toko Putri Mansur
Klinik Alifia
Peta

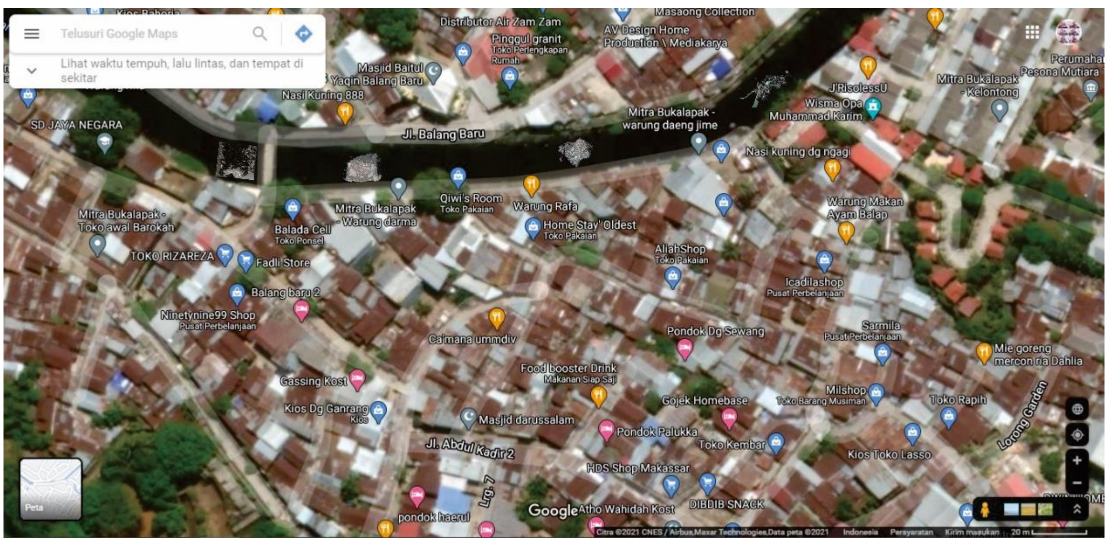

Telusuri Google Maps
Lihat waktu tempuh, lalu lintas, dan tempat di sekitar
Toko Adhye
Spooky Cafe
Rezky jaya fotocopy
Daging Puyuh Mentah dan Puyuh Bakar
Irma cell
Warung Ayam Mas Rebo Hertasning
Indomie
Gorengan Kembar 94
Pondok Kenanga
Tyaz Frozen Food
Fridem Cell
Warkop Podjok Brayy
Jl. Tlk. Bayur
Jl. Tlg. Malaka
Cahaya Cell
mami catering
Tribun Timur Makassar
SD Negeri Maccini Sombala
Ruko Asri Regency
Kedai KopiKU
Masjid Darut Taqwa
warkop rama
666 Mart
Toko GRAND MODE (BIG LAND BIGFOAM...
Ayam geprek krispi baji dakka
Waroeng Podjok Brayy
Riska Watch
Pangkalan Gas Suyadi 01
Toko Sentral Jaya
Riska Fasion
Eldee Id
Jl. Baji Dakka
Mama Ari
Toko Norma
INyobae
Ar Daeng
Gogos Bakar Celebes
Chand's Mozzarella Corndog Stick
Jl. Tlk. Bayur II
Grand Mode
Kost Bu Sandra
Cafe Dapoer Sulawesi
Reza Expertise
Laundry NN Clean House
Kios TITI
Google

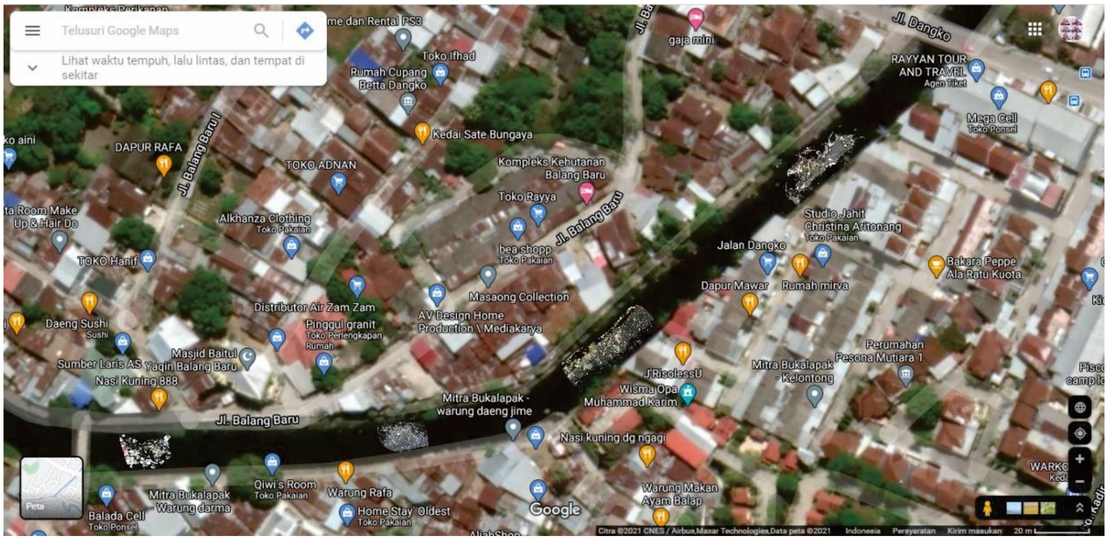

Telusuri Google Maps
Lihat waktu tempuh, lalu lintas, dan tempat di sekitar
Jl. Tlg. Malaka
Toko Cahaya Cenderawasih
Gereja Bukit Zaitun Cendrawasih
Ayam Bakar Dg. Hafid
Jinan Farm
DAPUR ADIBA
Sop Saudara Depan Grand Mode...
SD Negeri Tanggul Patompo 1
SATE PAK DAENG
Jl. Tlk. Bayur Luar
KUDAEDAH Family
Bakso Beranak Mas Galih
Sendy
Masjid Nurul Iman
Jl. Teluk Bone
Toko Adzra
Masagena Laundry
Warung Navisah
Chuy Homes
Annisa
Pribumi Hidro Garden
Jl. Cendrawasih
Dg raga
BESTCAMP GTC
Jl. Tlk. Bayur
Igo gtc
Mitra Bukalapak - Warung hilda
Mitra Bukalapak - Toko GALBON
Toko Aris Amin
Marwah Cell
KOS BAYU NBW
Cibaduyut Toko
Toko Sinar Perkasa
Google


Telusuri Google Maps
Lihat waktu tempuh, lalu lintas, dan tempat di sekitar
H Songke Masse
Dapur Mama ShaDeb
Dapur Bundaku
Pantai black squad
Warung Rumahan Maccis
Jl. Gusung Toa
Mitra Bukalapak
Toko Lia
Jl. Abunawas Dg. Rani
Jl. Tjg. Malaka
REI CELL
Toko Elektronik
Kios farel
Masjid Anugrah Hidayah
Nasrah
Ainun Cake and bakery
Pangkas Rambut Sederhana
Lestari Laundry
Sekretariat Sanggar Seni A Bulo Sibatang
Warung rahmat
Cafe andre
Nasi Kuning Daeng Rannu
Masjid AL FITRAH SAMBUNG JAWA
Aisyahashifah
Pusat Perbelanjaan
KOST RUMAH JADUL
Aira's Kitchen
Jl. Baji Rupa 1
Cibaduyut Toko
Toko Sepatu
Toko Sinar Perkasa
Toko Buku
eComputex Distribusi
Dundung Print
haji samian
Pusat Perbelanjaan
N A H shopp
Warkop ta
Warung Dg. Nanting
AKSEMA Atma Jaya
Agen Alhanif Collection
Warung umi barokah
Nidu Ribbon
Toko Komputer
Pesantren Ma'had As-Sunnah Makassar
Toko Buku Islami
Google
Peta


Telusuri Google Maps
Lihat waktu tempuh, lalu lintas, dan tempat di sekitar
Aira's Kitchen
Jl. Baji Rupa 1
Pesantren Ma'had As-Sunnah Makassar
Toko Buku Islami
Lapaksantri.com
Masjid Assunnah
MA'HAD UMMUL MUKMININ
Warung pak raden
Jl. Baji Rupa
Warung Kapurung Khas Palopo Balang Baru
Ayam Geprek Rafa
Butik VyoletFashion
Toko Pakaian
Mikha Cell
Toko Ponsel
Warkop Aliyah
Balla dg. Ngusu
Kurnia Electronik
Toko Elektronik
Jl. Tjg. Malaka
Toko Wajo Cell
Toko Ponsel
Londry fresh BM
Toko Pakaian
Pondok Ratna Sarumpaet
Cece Laundry
Toko Jaya
INDOMIE ABANG DAENG
RismaEdraHome
Rara Nissa
Aji nana herman
Toko Pakaian
Alfa
Zaky
Ibu Sri Dg.ngasseng
Yanti olshop
Pusat Perbelanjaan
Pesona Cendrawasih Indah
CV. CREATIVE TONER
Rumah pempek kimiki
CITOS
Kantor Lurah Balang Baru
Toko Indah
Markas Tahfizhul Qur'an Imam Aljazary Makassar
TKIT As Sunnah
Bakso Aroma Tanggul Patompo
Google
Peta


Telusuri Google Maps
Lihat waktu tempuh, lalu lintas, dan tempat di sekitar
Anne Kedai
Kedai Kopi
GUDANGTAMAN HARMONI
Toko Perlengkapan Rumah
Warung Nini
Toko Wawan
DAIICHI MOTOR
Jl. Tjg. Malaka
Jagung Bakar Ahya
DAPUR OMATATTI
Kompleks Perikanan
Toko Pakaian
Jl. Balang Baru
The raparap coffee special
Warung Pojok Asuhan Inayah
Popice syahrini
DAPUR MAUDY
Toko aini
DAPUR RAFA
Jl. Balang Baru I
TOKO ADNAN
Warung sederhana
Shinta Room Make Up & Hair Do
Alkhanza Clothing
Toko Pakaian
FABYL MUSIK ELECTONE
Pabrik Tahu
Toko Tahu
TOKO Hanif
Jl. Balang Baru 3
Your decor , hiasan dinding custom
Toko Perlengkapan Kesenian
Jl. Balang Baru 2
Toko Naldi
Kios Bahoria
Kios
Canal Jongaya
orderki
Daeng Sushi
Sushi
Lorong cendana
Toko Sinar Jaya
Pancing
Mitra Bukalapak - Warung rina
Sumber Laris AS
Onchi Kost
Peta
Google


Telusuri Google Maps
Lihat waktu tempuh, lalu lintas, dan tempat di sekitar
Distributor Air Zam Zam
Masaong Collection
AV Design Home Production \ Mediakarya
Pinggul granit
Toko Perlengkapan Rumah
Masjid Baitul Yaqin Balang Baru
Nasi Kuning 888
Perumahan Pesona Mutiara
Mitra Bukalapak - Kelontong
J'RisolessU
Wisma Opa Muhammad Karim
SD JAYA NEGARA
Jl. Balang Baru
Mitra Bukalapak - warung daeng jime
Nasi kuning dg ngagi
Mitra Bukalapak - Toko awal Barokah
Balada Cell
Toko Ponsel
Mitra Bukalapak Warung darma
Qiwi's Room
Toko Pakaian
Warung Rafa
Home Stay Oldest
Toko Pakaian
Warung Makan Ayam Balap
AliahShop
Toko Pakaian
TOKO RIZAREZA
Fadli Store
Icadilashop
Pusat Perbelanjaan
Balang baru 2
Ninetynine99 Shop
Pusat Perbelanjaan
Ca'mana ummdiv
Pondok Dg Sewang
Sarmila
Pusat Perbelanjaan
Mie goreng mercon ria Dahlia
Food booster Drink
Makanan Siap Saji
Gassing Kost
Milshop
Toko Barang Musiman
Toko Rapih
Kios Dg Ganrang
Kios
Gojek Homebase
Masjid darussalam
Pondok Palukka
Toko Kembar
Lorong Garden
Jl. Abdul Kadir 2
Kios Toko Lasso
HDS Shop Makassar
Lrg. 7
Atho Wahidah Kost
DIBDIB SNACK
pondok haerul
Peta
Google


Telusuri Google Maps
Lihat waktu tempuh, lalu lintas, dan tempat di sekitar
Toko Ifhad
Rumah Cupang Betta Dangko
Jl. Dangko
gaja mini
RAYYAN TOUR AND TRAVEL
Agen Tiket
Mega Cell
Toko Ponsel
DAPUR RAFA
Jl. Balang Baru
Kedai Sate Bungaya
TOKO ADNAN
Kompleks Kehutanan Balang Baru
Toko Rayya
Jl. Balang Baru
Alkhanza Clothing
Toko Pakaian
Studio Jahit Christina Artonang
Toko Pakaian
Up & Hair Do
TOKO Hanif
bea shopp
Toko Pakaian
Jalan Dangko
Bakara Peppe Ala Ratu Kuota
Dapur Mawar
Rumah mirva
Masaong Collection
Distributor Air Zam Zam
AV Design Home Production \ Mediakarya
Daeng Sushi
Sushi
Pinggul granit
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Warung Rafa
Mitra Bukalapak Warung darma
Balada Cell
Toko Ponsel
Home Stay Oldest
Toko Pakaian
Warung Makan Ayam Balap
Google
Peta
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Lampiran 3. File Konfigurasi *Training* YOLOv3.cfg

```
[net]
# Testing
#batch = 1
#subdivisions = 1
# Training
batch = 64
subdivisions = 16
width = 416
height = 416
channels = 3
momentum = 0.9
decay = 0.0005
angle = 0
saturation = 1.5
exposure = 1.5
hue = .1

learning_rate = 0.001
burn_in = 1000
max_batches = 4000
policy = steps
steps = 3200,3600
scales = .1,.1

[convolutional]
batch_normalize=1
filters = 32
size = 3
stride = 1
pad = 1
activation = leaky
```

```
[convolutional]
batch_normalize=1
size=3
stride=1
pad=1
filters=256
activation=leaky

[convolutional]
size=1
stride=1
pad=1
filters=21
activation=linear


[yolo]
mask = 0,1,2
anchors = 10,13,  16,30,  33,23,  30,61,  62,45,  59,119,  116,90,  156,198,  373,326
classes=2
num=9
jitter=.3
ignore_thresh = .7
truth_thresh = 1
random=1
```

Lampiran 4. Kode Program Pengujian Sistem

```
# import packages
import numpy as np
import argparse
import time
import cv2
import os

# construct the argument parse and parse the arguments
ap = argparse.ArgumentParser()
ap.add_argument("-i", "--image", required=True,
	help="path to input image")
ap.add_argument("-c", "--confidence", type=float, default=0.2,
	help="minimum probability to filter weak detections")
ap.add_argument("-t", "--threshold", type=float, default=0.5,
	help="threshold when applying non-maxima suppression")
args = vars(ap.parse_args())

# load the YOLO class labels
labelsPath = "data/obj.names"
LABELS = open(labelsPath).read().strip().split("\n")

# paths to the YOLO weights and model configuration
weightsPath = "data/sampah_final.weights"
configPath = "data/sampah.cfg"

# initialize a list of colors to represent each possible class label
COLORS = (103, 220, 225)
# np.random.seed(42)
# COLORS = np.random.randint(0, 255, size=(len(LABELS), 3),
#	dtype="uint8")
```

```
# load our YOLO object detector
print("Processing...")
net = cv2.dnn.readNetFromDarknet(configPath, weightsPath)

# load input image and grab its spatial dimensions
image = cv2.imread(args["image"])
# image = cv2.resize(image, (0,0), fx=0.7, fy=0.7)
(H, W) = image.shape[:2]

# determine only the *output* layer names that we need from YOLO
ln = net.getLayerNames()
ln = [ln[i[0] - 1] for i in net.getUnconnectedOutLayers()]

# construct a blob from the input image and then perform a forward
# pass of the YOLO object detector, giving us our bounding boxes and
# associated probabilities
blob = cv2.dnn.blobFromImage(image, 1 / 255.0, (416, 416),swapRB=True, crop=False)
net.setInput(blob)
start = time.time()
layerOutputs = net.forward(ln)
end = time.time()
print("Nilai blob: {}".format(blob.shape))

# initialize our lists of detected bounding boxes, confidences, and
# class IDs, respectively
boxes = []
confidences = []
classIDs = []

# loop over each of the layer outputs
```

```
for output in layerOutputs:
	# loop over each of the detections
	for detection in output:
		# extract the class ID and confidence (i.e., probability) form Image
		scores = detection[5:]
		classID = np.argmax(scores)
		confidence = scores[classID]
		# print ("Nilai Confidence dari object ialah :", confidence)
		# print ("Nilai ID dari Class ialah :", classID)

		# filter out weak predictions by ensuring the detected
		# probability is greater than the minimum probability
		if confidence > args["confidence"]:
			# scale the bounding box coordinates back relative to the size of the
image
			box = detection[0:4] * np.array([W, H, W, H])
			(centerX, centerY, width, height) = box.astype("int")
			# print ("Nilai dari B.Box ialah :", centerX," ", centerY, " ", width, "
", height)

			# use the center (x, y)-coordinates to get the top and and left
			#corner of the bounding box
			x = int(centerX - (width / 2))
			y = int(centerY - (height / 2))
			print ("Nilai x dan y dari B.Box ialah :", x," ", y)

			# update our list of bounding box coordinates, confidences, and class
IDs
			boxes.append([x, y, int(width), int(height)])
			confidences.append(float(confidence))
			classIDs.append(classID)
```

```
# apply non-maxima suppression to suppress weak, overlapping bounding boxes
idxs = cv2.dnn.NMSBoxes(boxes, confidences, args["confidence"], args["threshold"])

# ensure at least one detection exists
if len(idxs) > 0:
	# loop over the indexes
	for i in idxs.flatten():
		# extract the bounding box coordinates
		(x, y) = (boxes[i][0], boxes[i][1])
		(w, h) = (boxes[i][2], boxes[i][3])

		# draw a bounding box rectangle and label on the image
		# color = [int(c) for c in COLORS[classIDs[i]]]
		cv2.rectangle(image, (x, y), (x + w, y + h), COLORS, 8)
		text = "{}: {:.4f}".format(LABELS[classIDs[i]], confidences[i])
		print(text)
		cv2.putText(image, text, (x, y - 5), cv2.FONT_HERSHEY_SIMPLEX,2,
COLORS, 8)
		# cv2.putText(image, text, (x, y - 5), cv2.FONT_HERSHEY_SIMPLEX,0.2,
COLORS, 2)

# Font type
font = cv2.FONT_HERSHEY_SIMPLEX
# Font Coordinate
org = (40, 480)
# Font Size
fontScale = 10
# Font color with format (B,G,R)
color = (206, 0, 0)
# Font Thickness
```

```
thickness = 20

# show timing information on YOLO
print("YOLO took {:.6f} seconds".format(end - start))

# Save the output image
cv2.waitKey(0)
```