









Acknowledgments

This project is funded by USAID and coordinated by UCLBP in collaboration with the Haitian Government represented by the Unité de Construction de Logements et de Bâtiments Publics (UCLBP).

The analysis and diagnostics have been developed by UN-Hab itat consisting of Urban Planners from the Country Team of ce in Haiti, the Urban Planning and Design Lab in Kenya, and the Urban Economics Branch; with the support of USAID, UCLBP, American Red Cross and Croix-Rouge Haitienne.

Project Manager: Louis Jadotte

Authors: UN-HABITAT

<u>UN-Habitat Country Team of ce</u>: Louis Jadotte, Sergio Blanco, Oloferne Edouard, Manuel Romulus.

<u>UN-Habitat Urban Planning and Design LAB:</u> Rogier VanDenBerg, Javier Torner, Niina Rinne, Christelle Lahoud, Ivan Thung, Ben Zhang.

Urban Economics BranchLiz Paterson

Urban Legislation, Land and Gov. Gianluca Crispi

<u>Contributors:</u> Mathilde Rullier, Jacob Kalmakoff, Agnes Sandstedt, Joy Mutai, Chiranjay Shah, My Zetterquist Helger.

Special contrib.: Urban Law Fordham University

Design and Layout: Christelle Lahoud, Niina Rinne.

Disclaimer

The author's views expressed in this publication do not necessar ily re ect the views of the United States Agency for International Development or the United States Government.

Unité de Construction de Logements et de Bâtiments Publics (UCLBP)

32, rue Faubert, Pétion-Ville, Haïti

Tel: (509) 2816-5595 www.uclbp.gov.ht United Nations Human Settlements Programme (ONU-Habitat)
P.O Box 30030 00100 Nairobi GPO KENYA
Tel: 254-020-7623120 (Central Of ce)
www.unhabitat.org

United Nations Human Settlements Programme (UN-Habitat)
P.O Box 30030 00100 Nairobi GPO KENYA
Tel: 254-020-7623120 (Central Of ce)
www.unhabitat.org

URBAN DEVELOPMENT INITIATIVE (DU) FOR THE CANAAN AREA OF PORT-AU-PRINCE URBAN STRUCTURE PLAN











TABLE OF CONTENTS

THE CASE OF HAITI 18 MACRO ZONING AT CANAAN SCALE 19 LAND USE 22 2.1. STREET NETWORK 23 2.2. PUBLIC SPACES 32 2.3. RESIDENTIAL 35 2.4. COMMERCIAL 38 2.5. INDUSTRIAL 41 2.6. PUBLIC FACILITIES 42 2.7. NATURAL RESOURCES AND ENVIRONMENT 46 2.8. BASIC SERVICES 51 2.9. CENTRALITIES 55 CONCLUSION 60	1. INTRODUCTION	11
MACRO ZONING AT CANAAN SCALE 19 LAND USE 22 2.1. STREET NETWORK 23 2.2. PUBLIC SPACES 32 2.3. RESIDENTIAL 35 2.4. COMMERCIAL 38 2.5. INDUSTRIAL 41 2.6. PUBLIC FACILITIES 42 2.7. NATURAL RESOURCES AND ENVIRONMENT 46 2.8. BASIC SERVICES 51 2.9. CENTRALITIES 55 CONCLUSION 60 3. NEIGHBOURHOODS' PLANS 61 3.1. CANAAN I 62 3.2. CANAAN III 72 3.3. CANAAN III 82 3.4. CANAAN IV 92 3.5. CANAAN V 102 3.6. ONAVILLE 112 3.7. HAUTES SOURCES PUANTES 122	2. URBAN STRUCTURE PLAN	15
LAND USE 22 2.1. STREET NETWORK 23 2.2. PUBLIC SPACES 32 2.3. RESIDENTIAL 35 2.4. COMMERCIAL 38 2.5. INDUSTRIAL 41 2.6. PUBLIC FACILITIES 42 2.7. NATURAL RESOURCES AND ENVIRONMENT 46 2.8. BASIC SERVICES 51 2.9. CENTRALITIES 55 CONCLUSION 60 3. NEIGHBOURHOODS' PLANS 61 3.1. CANAAN II 72 3.3. CANAAN III 82 3.4. CANAAN IV 92 3.5. CANAAN V 102 3.6. ONAVILLE 112 3.7. HAUTES SOURCES PUANTES 122	THE CASE OF HAITI	18
2.1. STREET NETWORK 23 2.2. PUBLIC SPACES 32 2.3. RESIDENTIAL 35 2.4. COMMERCIAL 38 2.5. INDUSTRIAL 41 2.6. PUBLIC FACILITIES 42 2.7. NATURAL RESOURCES AND ENVIRONMENT 46 2.8. BASIC SERVICES 51 2.9. CENTRALITIES 55 CONCLUSION 60 3. NEIGHBOURHOODS' PLANS 61 3.1. CANAAN I 62 3.2. CANAAN III 72 3.3. CANAAN III 82 3.4. CANAAN IV 92 3.5. CANAAN V 102 3.6. ONAVILLE 112 3.7. HAUTES SOURCES PUANTES 122	MACRO ZONING AT CANAAN SCALE	19
2.2. PUBLIC SPACES 2.3. RESIDENTIAL 3.5 2.4. COMMERCIAL 3.8 2.5. INDUSTRIAL 4.1 2.6. PUBLIC FACILITIES 4.2 2.7. NATURAL RESOURCES AND ENVIRONMENT 4.6 2.8. BASIC SERVICES 5.1 2.9. CENTRALITIES 5.5 CONCLUSION 60 3. NEIGHBOURHOODS' PLANS 3.1. CANAAN I 3.2. CANAAN II 3.3. CANAAN II 3.4. CANAAN III 3.5. CANAAN III 3.6. ONAVILLE 3.7. HAUTES SOURCES PUANTES 3.2. CANACES PUANTES 3.3. CANACES PUANTES 3.4. CANACES PUANTES 3.5. CANACES PUANTES 3.6. ONAVILLE 3.7. HAUTES SOURCES PUANTES	LAND USE	22
2.3. RESIDENTIAL 35 2.4. COMMERCIAL 38 2.5. INDUSTRIAL 41 2.6. PUBLIC FACILITIES 42 2.7. NATURAL RESOURCES AND ENVIRONMENT 46 2.8. BASIC SERVICES 51 2.9. CENTRALITIES 55 CONCLUSION 60 3. NEIGHBOURHOODS' PLANS 61 3.1. CANAAN I 62 3.2. CANAAN III 72 3.3. CANAAN III 82 3.4. CANAAN IV 92 3.5. CANAAN V 102 3.6. ONAVILLE 112 3.7. HAUTES SOURCES PUANTES 122	2.1. STREET NETWORK	23
2.4. COMMERCIAL 38 2.5. INDUSTRIAL 41 2.6. PUBLIC FACILITIES 42 2.7. NATURAL RESOURCES AND ENVIRONMENT 46 2.8. BASIC SERVICES 51 2.9. CENTRALITIES 55 CONCLUSION 60 3. NEIGHBOURHOODS' PLANS 61 3.1. CANAAN I 62 3.2. CANAAN III 72 3.3. CANAAN III 82 3.4. CANAAN IV 92 3.5. CANAAN V 102 3.6. ONAVILLE 112 3.7. HAUTES SOURCES PUANTES 122	2.2. PUBLIC SPACES	32
2.5. INDUSTRIAL 41 2.6. PUBLIC FACILITIES 42 2.7. NATURAL RESOURCES AND ENVIRONMENT 46 2.8. BASIC SERVICES 51 2.9. CENTRALITIES 55 CONCLUSION 60 3. NEIGHBOURHOODS' PLANS 61 3.1. CANAAN I 62 3.2. CANAAN III 72 3.3. CANAAN III 82 3.4. CANAAN IV 92 3.5. CANAAN V 102 3.6. ONAVILLE 112 3.7. HAUTES SOURCES PUANTES 122	2.3. RESIDENTIAL	35
2.6. PUBLIC FACILITIES 42 2.7. NATURAL RESOURCES AND ENVIRONMENT 46 2.8. BASIC SERVICES 51 2.9. CENTRALITIES 55 CONCLUSION 60 3. NEIGHBOURHOODS' PLANS 61 3.1. CANAAN I 62 3.2. CANAAN III 72 3.3. CANAAN III 82 3.4. CANAAN IV 92 3.5. CANAAN V 102 3.6. ONAVILLE 112 3.7. HAUTES SOURCES PUANTES 122	2.4. COMMERCIAL	38
2.7. NATURAL RESOURCES AND ENVIRONMENT 46 2.8. BASIC SERVICES 51 2.9. CENTRALITIES 55 CONCLUSION 60 3. NEIGHBOURHOODS' PLANS 61 3.1. CANAAN I 62 3.2. CANAAN III 72 3.3. CANAAN III 82 3.4. CANAAN IV 92 3.5. CANAAN V 102 3.6. ONAVILLE 112 3.7. HAUTES SOURCES PUANTES 122	2.5. INDUSTRIAL	41
2.8. BASIC SERVICES 51 2.9. CENTRALITIES 55 CONCLUSION 60 3. NEIGHBOURHOODS' PLANS 61 3.1. CANAAN I 62 3.2. CANAAN II 72 3.3. CANAAN III 82 3.4. CANAAN IV 92 3.5. CANAAN V 102 3.6. ONAVILLE 112 3.7. HAUTES SOURCES PUANTES 122	2.6. PUBLIC FACILITIES	42
2.9. CENTRALITIES CONCLUSION 60 3. NEIGHBOURHOODS' PLANS 61 3.1. CANAAN I 3.2. CANAAN II 72 3.3. CANAAN III 82 3.4. CANAAN IV 92 3.5. CANAAN V 92 3.6. ONAVILLE 3.7. HAUTES SOURCES PUANTES	2.7. NATURAL RESOURCES AND ENVIRONMENT	46
CONCLUSION 60 3. NEIGHBOURHOODS' PLANS 61 3.1. CANAAN I 62 3.2. CANAAN II 72 3.3. CANAAN III 82 3.4. CANAAN IV 92 3.5. CANAAN V 102 3.6. ONAVILLE 112 3.7. HAUTES SOURCES PUANTES 122	2.8. BASIC SERVICES	51
3. NEIGHBOURHOODS' PLANS 3.1. CANAAN I 3.2. CANAAN II 3.3. CANAAN III 3.4. CANAAN IV 3.5. CANAAN V 3.6. ONAVILLE 3.7. HAUTES SOURCES PUANTES 61 62 72 72 72 72 72 73 72 72 72 72 72 72 72 72 72 72 72 72 72	2.9. CENTRALITIES	55
3.1. CANAAN I 62 3.2. CANAAN II 72 3.3. CANAAN III 82 3.4. CANAAN IV 92 3.5. CANAAN V 102 3.6. ONAVILLE 112 3.7. HAUTES SOURCES PUANTES 122	CONCLUSION	60
3.2. CANAAN II 3.3. CANAAN III 82 3.4. CANAAN IV 92 3.5. CANAAN V 102 3.6. ONAVILLE 112 3.7. HAUTES SOURCES PUANTES	3. NEIGHBOURHOODS' PLANS	61
3.3. CANAAN III 3.4. CANAAN IV 3.5. CANAAN V 3.6. ONAVILLE 3.7. HAUTES SOURCES PUANTES 3.8. CANAAN V 102	3.1. CANAAN I	62
3.4. CANAAN IV 3.5. CANAAN V 3.6. ONAVILLE 3.7. HAUTES SOURCES PUANTES 122	3.2. CANAAN II	72
3.5. CANAAN V 102 3.6. ONAVILLE 112 3.7. HAUTES SOURCES PUANTES 122	3.3. CANAAN III	82
3.6. ONAVILLE 3.7. HAUTES SOURCES PUANTES 112	3.4. CANAAN IV	92
3.7. HAUTES SOURCES PUANTES 122	3.5. CANAAN V	102
	3.6. ONAVILLE	112
3.8. ST CHRISTOPHE 132	3.7. HAUTES SOURCES PUANTES	122
	3.8. ST CHRISTOPHE	132

LIST OF ACRONYMS

UPD-LAB Urban Planning and Design LAB

GES Gaz à Effet de Serre

UCLBP Unité de Construction de Logements et de Bâtiments Publics

RN Route Nationale
PaP Port-au-Prince

USAID United States Agency for International Development

CRA Croix Rouge Américaine

NGO Non Governmental Organization

MPCE Le Ministère de la Planning et de la Coopération Externe

MTPTC Ministère des Travaux Publics, Transports et Communications

MICT Ministère de l'Intérieur et des Collectivités Territoriales

MENFP Ministère de l'Éducation Nationale et de la Formation Professionnelle

MEF Ministère de l'Économie et des Finances

DGI Direction Générale des impôts

DINEPA Direction Nationale de l'Eau Potable et de l'Assainissement

EDH Électricité d'Haïti

IHSI Institut Haïtien de Statistique et d'Informatique

SPA Stratégie de Plantation d'Arbres.

SDF Strategic Development Framework

OSM Open Street Map

DPC Direction de la Protection Civile
UrDI Urban Development initiative

CIAT Comité Interministériel d'Aménagement du Territoire

NMT Non Motorised Transport

LIST OF FIGURES

Fig.1: Localization of Canaan (in red) in metropolitan PAP © UN-Habitat	12	Fig.38: Riparian area and public space	49
Fig.2: Charrette 1 in Haiti © UN-Habitat	12	Fig.39: Interventions in riparian areas	49
Fig.3: Urban Development Initiative structure	13	Fig.40: No-built areas in Canaan	50
Fig.4: Workshops with the community @UN-Habitat	17	Fig.41: Proposed water supply network and reservoirs in Canaan	52
Fig.5: The fteen neighbourhoods in Canaan	18	Fig.42: Proposed drainage system in Canaan	53
Fig.6: Macro-zoning plan in Canaan.	21	Fig.43: Illustrations of the neighbourhood, district and urban scales	55
Fig.7: UN-Habitat Principle 1 on street network	24	Fig.44: Centres locations in Canaan	56
Fig.8: Principle 1 : Surface coverage.	24	Fig.45: Tap-Tap Marché existing situation	57
Fig.9: Street dimensions and slopes percentage.	24	Fig.46: Mobility analysis in the urban centre of Canaan III	57
Fig.10: Existing national road in Canaan.	25	Fig.47: Diagram on the connection of the urban centres with nearby empty pockets	58
Fig.11: National road in Canaan	25	Fig.48: Canaan III Proposed urban centre	58
Fig.12: Section and plan: arterial road, 23 metres	26	Fig.49: Land use plan in Canaan	59
Fig.13: Proposed arterial roads in Canaan	26	Fig.50: Canaan I: participatory planning process	62
Fig.14: Proposed main roads in Canaan.	27	Fig.51: Canaan I: existing street network	63
Fig.15: Section and plan: main road, 18 metres	27	Fig.52: Canaan I: Proposed street network	63
Fig.16: Section and plan: main roads, 12 metres.	27	Fig.53: Canaan I: Layers of the proposed street network	63
Fig.17: Proposed Secondary streets in Canaan	28	Fig.54: Canaan I: Existing Public spaces	64
Fig.18: Section et plan: Secondary road, 12 metres.	28	Fig.55: Canaan I: Public spaces proposed by the community	64
Fig.19: Section et plan: Secondary road, 9 metres	28	Fig.56: Canaan I: Public spaces proposed by UN-Habitat LAB	64
Fig.20: Bellevue, Canaan.	29	Fig.57: Canaan I: Overall public spaces' land use and buffer area (400m)	65
Fig.21: Slope analysis in Canaan wider area	29	Fig.58: Canaan I: Existing settlements	66
Fig.22: Mobility and public transport in Canaan	30	Fig.59: Canaan I: Projected population increase	66
Fig.23: Proposed street network in Canaan	31	Fig.60: Canaan I: Contours	66
Fig.24: Public Space allocation of a sustainable city	32	Fig.61: Canaan I: Diagram of population in the new proposed residential areas.	67
Fig.25: Onaville community assembly	33	Fig.62: Canaan I: Residential areas and proposed densities	67
Fig.26: Minecraft model of Bon Repos	33	Fig.63: Canaan I : Existing commercial points (Source: OSM)	68
Fig.27: Reviewed map by the community	33	Fig.64: Canaan I : Proposed commercial areas	68
Fig.28: Minecraft workshop in Bon Repos, June 2016	33	Fig.65: Canaan I: Existing public facilities and a 500m buffer catchment area.	69
Fig.29: Proposed public spaces in Canaan	34	Fig.66: Canaan I : Existing public facilities	69
Fig.30: Canaan I © UN-Habitat	35	Fig.67: Canaan I: No-built areas	70
Fig.31: Proposed residential areas and densities in Canaan	37	Fig.68: Canaan I : Proposed land use plan	71
Fig.32: Proposed commercial areas in Canaan	40	Fig.69: Canaan II: participatory planning process	72
Fig.33: Main services for each of the centres	45	Fig.70: Canaan II: existing street network	73
Fig.34: Abandoned quarry in Canaan	46	Fig.71: Canaan II: Proposed street network	73
Fig.35: Ravine and house at risk	48	Fig.72: Canaan II: Layers of the proposed street network	73
Fig.36: Houses at risk near Lan Couline in Canaan	48	Fig.73: Canaan II: Existing Public spaces	74
Fig.37: Riparian area diagram	49	Fig.74: Canaan II: Public spaces proposed by the community	74

Fig.75: Canaan II: Public spaces proposed by UN-Habitat LAB	74	Fig.112: Canaan IV: Public spaces proposed by the community	94
Fig.76: Canaan II: Overall public spaces' land use and buffer area (400m)	75	Fig.113: Canaan IV Public spaces proposed by UN-Habitat LAB	94
Fig.77: Canaan II: Existing settlements	76	Fig.114: Canaan IV: Overall public spaces' land use and buffer area (400m)	95
Fig.78: Canaan II: Projected population increase	76	Fig.115: Canaan IV: Existing settlements	96
Fig.79: Canaan II: Contours	76	Fig.116: Canaan IV: Projected population increase	96
Fig.80: Canaan II: Diagram of population in the new proposed residential areas.	77	Fig.117: Canaan IV: Contours	96
Fig.81: Canaan II: Residential areas and proposed densities	77	Fig.118: Canaan IV: Diagram of population in the new proposed residential areas.	97
Fig.82: Canaan II: Existing commercial points (Source: OSM)	78	Fig.119: Canaan IV: Residential areas and proposed densities	97
Fig.83: Canaan II: Proposed commercial areas	78	Fig.120: Canaan IV: Existing commercial points (Source: OSM)	98
Fig.84: Canaan II: Existing public facilities and a 500m buffer catchment area.	79	Fig.121: Canaan IV: Proposed commercial areas	98
Fig.85: Canaan II: Existing public facilities	79	Fig.122: Canaan IV: Existing public facilities and a 500m buffer catchment area.	99
Fig.86: Canaan II: No-built areas	80	Fig.123: Canaan IV: Existing public facilities	99
Fig.87: Canaan II: Proposed land use plan	81	Fig.124: Canaan IV: No-built areas	100
Fig.88: Canaan III: participatory planning process	82	Fig.125: Canaan IV: Proposed land use plan	10
Fig.89: Canaan III: existing street network	83	Fig.126: Canaan V: participatory planning process	102
Fig.90: Canaan III: Proposed street network	83	Fig.127: Canaan V: existing street network	103
Fig.91: Canaan III: Layers of the proposed street network	83	Fig.128: Canaan V: Proposed street network	103
Fig.92: Canaan III: Existing Public spaces	84	Fig.129: Canaan V: Layers of the proposed street network	103
Fig.93: Canaan III: Public spaces proposed by the community	84	Fig.130: Canaan V: Existing Public spaces	104
Fig.94: Canaan III: Public spaces proposed by UN-Habitat LAB	84	Fig.131: Canaan V: Public spaces proposed by the community	104
Fig.95: Canaan III: Overall public spaces' land use and buffer area (400m)	85	Fig.132: Canaan V: Public spaces proposed by UN-Habitat LAB	104
Fig.96: Canaan III: Existing settlements	86	Fig.133: Canaan V: Overall public spaces' land use and buffer area (400m)	10
Fig.97: Canaan III: Projected population increase	86	Fig.134: Canaan V: Existing settlements	100
Fig.98: Canaan III: Contours	86	Fig.135: Canaan V: Projected population increase	100
Fig.99: Canaan III: Diagram of population in the new proposed residential areas.	87	Fig.136: Canaan V: Contours	100
Fig.100: Canaan III: Residential areas and proposed densities	87	Fig.137: Canaan V: Diagram of population in the new proposed residential areas.	107
Fig.101: Canaan III: Existing commercial points (Source: OSM)	88	Fig.138: Canaan V: Residential areas and proposed densities	107
Fig.102: Canaan III: Proposed commercial areas	88	Fig.139: Canaan V: Existing commercial points (Source: OSM)	108
Fig.103: Canaan III: Existing public facilities and a 500m buffer catchment area.	89	Fig.140: Canaan V: Proposed commercial areas	108
Fig.104: Canaan III: Existing public facilities	89	Fig.141: Canaan V: Existing public facilities and a 500m buffer catchment area.	109
Fig.105: Canaan III: No-built areas	90	Fig.142: Canaan V: Existing public facilities	109
Fig.106: Canaan III: Proposed land use plan	91	Fig.143: Canaan IV: No-built areas	110
Fig.107: Canaan IV: participatory planning process	92	Fig.144: Canaan V: Proposed land use plan	11
Fig.108: Canaan IV: existing street network	93	Fig.145: Onaville: participatory planning process	112
Fig.109: Canaan IV: Proposed street network	93	Fig.146: Onaville: existing street network	113
Fig.110: Canaan IV: Layers of the proposed street network	93	Fig.147: Onaville: Proposed street network	113
Fig.111: Canaan IV: Existing Public spaces	94	Fig.148: Onaville: Layers of the proposed street network	113

Fig.149: Onaville: Existing Public spaces	114	Fig.183: St.Christophe: Participatory planning process	132
Fig.150: Onaville: Public spaces proposed by the community	114	Fig.184: St.Christophe: Existing street network	133
Fig.151: Onaville: Public spaces proposed by UN-Habitat LAB	114	Fig.185: St.Christophe: Proposed street network	133
Fig.152: Onaville: Overall public spaces' land use and buffer area (400m)	115	Fig.186: St.Christophe: Layers of the proposed street network	133
Fig.153: Onaville: Existing settlements	116	Fig.187: St.Christophe: Existing Public spaces	134
Fig.154: Onaville: Projected population increase	116	Fig.188: St.Christophe: Public spaces proposed by the community	134
Fig.155: Onaville: Contours	116	Fig.189: St.Christophe: Public spaces proposed by UN-Habitat LAB	134
Fig.156: Onaville: Diagram of population in the new proposed residential areas.	117	Fig.190: St.Christophe: Overall public spaces' land use and buffer area (400m)	135
Fig.157: Onaville: Residential areas and proposed densities	117	Fig.191: St.Christophe: Existing settlements	136
Fig.158: Onaville: Existing commercial points (Source: OSM)	118	Fig.192: St.Christophe: Projected population increase	136
Fig.159: Onaville: Proposed commercial areas	118	Fig.193: St.Christophe: Contours	136
Fig.160: Onaville: Existing public facilities and a 500m buffer catchment area.	119	Fig.194: St.Christophe: Diagram of population in the new proposed residential areas.	137
Fig.161: Onaville: Existing public facilities	119	Fig.195: St.Christophe: Residential areas and proposed densities	137
Fig.162: Onaville: No-built areas	120	Fig.196: St.Christophe: Existing commercial points (Source: OSM)	138
Fig.163: Onaville: Proposed land use plan	121	Fig.197: St.Christophe: Proposed commercial areas	138
Fig.164: Sources Puantes: participatory planning process	122	Fig.198: St.Christophe: Existing public facilities and a 500m buffer catchment area.	139
Fig.165: Sources puantes: existing street network	123	Fig.199: St.Christophe: Existing public facilities	139
Fig.166: Sources puantes Proposed street network	123	Fig.200: St.Christophe: No-built areas	140
Fig.167: Sources puantes: Layers of the proposed street network	123	Fig.201: St.Christophe: Proposed land use plan	141
Fig.168: Sources Puantes: Existing Public spaces	124		
Fig.169: Sources puantes: Public spaces proposed by the community	124		
Fig.170: Sources puantes: Public spaces proposed by UN-Habitat LAB	124		
Fig.171: Sources Puantes: Overall public spaces' land use and buffer area (400m)	125		
Fig 172: Sources Puantes: Existing settlements	126		

126

预览已结束, 完整报告链接和二维码如下:

Fig.173: Sources puantes: Projected population increase

https://www.yunbaogao.cn/report/index/report?reportId=5_18481

