

DAFTAR ISI

ABSTRAK	i
<i>ABSTRACT</i>	ii
LEMBAR PENGESAHAN	iii
LEMBAR PERNYATAAN ORISINALITAS	iv
LEMBAR PESEMBAHAN	v
KATA PENGANTAR	vi
DAFTAR ISI	vii
DAFTAR GAMBAR	xii
DAFTAR TABEL	xiv
DAFTAR LAMPIRAN	xvi
DAFTAR ISTILAH	xvii
BAB I PENDAHULUAN	1
I.1 Latar Belakang.....	1
I.2 Rumusan Masalah.....	5
I.3 Tujuan Penelitian.....	5
I.4 Batasan Penelitian.....	5
I.5 Manfaat Penelitian.....	6
I.6 Sistematika Penulisan	6
BAB II LANDASAN TEORI	8
II.1 Penelitian Terdahulu.....	8
II.2 Kajian Teori.....	15
II.2.1 <i>Smart City</i>	15
II.2.2 <i>Smart Economy</i>	16
II.2.3 <i>Enterprise Architecture</i>	17

II.2.4	<i>Enterprise Architecture Framework</i>	18
II.2.5	Masterplan.....	24
II.2.6	Roadmap	25
II.3	Alasan Pemilihan Teori, Kerangka Kerja, atau Mekanisme	25
BAB III METODOLOGI PENYELESAIAN MASALAH		28
III.1	Model Konseptual.....	28
III.2	Sistematika Penyelesaian Masalah	29
III.2.1	<i>Fase Initiation, Strategy and Goal</i>	31
III.2.2	<i>Fase Smart City Model Identification</i>	32
III.2.3	<i>Fase Data Architecture</i>	32
III.2.4	<i>Fase Service Architecture</i>	32
III.2.5	<i>Fase Information Technology Architecture</i>	33
III.2.6	<i>Fase GAP Analysis & Improvement</i>	33
III.2.7	<i>Transition Architecture</i>	33
III.2.8	<i>Evaluation</i>	33
III.3	Pengumpulan Data.....	34
III.4	Pengolahan Data atau Pengembangan Produk / Artifak.....	37
III.5	Metode Evaluasi	39
III.6	Alasan Pemilihan Metode.....	40
BAB IV ANALISIS DAN PERANCANGAN		41
IV.1	Bandung <i>Smart Economy</i> Eksisting	41
IV.2	Visi Arsitektur <i>Smart City</i>	41
IV.3	<i>Initation, Strategi, and Goal Phase</i>	42
IV.3.1	<i>Management Project Scope</i>	42
IV.3.2	<i>Stakeholder Team Catalog</i>	43
IV.3.3	<i>Driver/Goal/Objectives Catalog</i>	44

IV.4	<i>Principle Catalog</i>	49
BAB V IMPLEMENTASI DAN PENGUJIAN		54
V.1	<i>Fase Smart City Model Identification</i>	54
V.1.1	<i>Smart Economy Model</i>	54
V.1.2	<i>Value Chain</i>	56
V.1.3	<i>Value System</i>	57
V.1.4	<i>Business Service Catalog</i>	60
V.1.5	<i>Stakeholder Map Matrix</i>	88
V.1.6	<i>Decomposition Service Diagram</i>	92
V.1.7	<i>Business Process Catalog</i>	94
V.1.8	<i>Business Process Choreography</i>	98
V.1.9	<i>Business Service Blueprint</i>	108
V.2	<i>Fase Data Architecture</i>	111
V.2.1	<i>Data Entity/Component Catalog</i>	111
V.2.2	<i>Data/Application Catalog</i>	113
V.2.3	<i>Data Dissemination Diagram</i>	115
V.3	<i>Fase Service Architecture</i>	117
V.3.1	<i>Service Composition Catalog</i>	117
V.3.2	<i>Sequence Diagram</i>	121
V.3.3	<i>Service Interface Diagram</i>	122
V.3.4	<i>Service Participant Diagram</i>	123
V.3.5	<i>Service Contract Diagram</i>	125
V.3.6	<i>Service Architecture Diagram</i>	130
V.4	<i>Fase Information Technology Architecture</i>	130
V.4.1	<i>Application Portofolio Catalog</i>	131
V.4.2	<i>Sensor Catalog</i>	132

V.4.3	<i>Sensor Application Matrix</i>	133
V.4.4	<i>Network Architecture Diagram.....</i>	134
V.4.5	<i>Application Communication Diagram</i>	135
V.5	<i>Fase GAP Analysis & Improvement.....</i>	135
V.5.1	<i>Gap Analysis Catalog</i>	136
V.5.2	<i>Recommendation</i>	139
V.5.2.1	<i>Bussiness Process Choreography Improvement.....</i>	139
V.5.2.2	<i>Business Service Blueprint Improvement</i>	141
V.5.2.3	<i>Data Entity / Data Component Catalog Improvement</i>	142
V.5.2.4	<i>Data/Application Catalog Improvement.....</i>	143
V.5.2.5	<i>Data Dissemination Diagram Improvement.....</i>	146
V.5.2.6	<i>Smart City Service Bus / Platform Improvement</i>	146
V.6	<i>Fase Service Architecture Improvement.....</i>	147
V.6.1	<i>Service Composition Catalog Improvement.....</i>	147
V.6.2	<i>Sequence Diagram Improvement</i>	152
V.6.3	<i>Service Interface Diagram Improvement.....</i>	154
V.6.4	<i>Service Contract Diagram Improvement</i>	156
V.6.5	<i>Service Participant Diagram Improvement</i>	158
V.6.6	<i>Service Architecture Diagram Improvement.....</i>	159
V.7	<i>Fase Information Technology Architecture Improvement.....</i>	160
V.7.1	<i>Application Portofolio Catalog Improvement.....</i>	161
V.7.2	<i>Sensor Catalog</i>	162
V.7.3	<i>Sensor Application Matrix</i>	164
V.7.4	<i>Network Architecture Diagram Improvement.....</i>	165
V.7.5	<i>Application Communication Diagram Improvement.....</i>	165
V.8	<i>Fase Transition Architecture.....</i>	167

V.8.1	<i>Work Package Catalog</i>	167
V.8.2	<i>Project Context Diagram</i>	171
V.8.3	<i>Project Prioritization</i>	171
V.8.4	<i>Roadmap</i>	175
V.9	Fase Evaluasi	176
V.9.1	Proses Evaluasi	176
V.9.2	Hasil Evaluasi	190
BAB VI KESIMPULAN DAN SARAN		194
VI.1	Kesimpulan	194
VI.2	Saran	196
DAFTAR PUSTAKA		xvi
LAMPIRAN		xx