DAFTAR ISI

ABSTRAK.....**i**
ABSTRACT.....**ii**
LEMBARAN PENGESAHAN.....**iii**
LEMBAR PERNYATAAN ORISINALITAS.....**iv**
KATA PENGANTAR.....**v**
DAFTAR ISI.....**vii**
DAFTAR GAMBAR.....**xii**
DAFTAR TABEL.....**xiv**
DAFTAR LAMPIRAN.....**xvii**
DAFTAR ISTILAH.....**xviii**
BAB I PENDAHULUAN.....**1**
I.1 Latar Belakang.....1
I.2 Perumusan Masalah.....6
I.3 Tujuan Penelitian.....6
I.4 Batasan Penelitian.....6
I.5 Manfaat Penelitian.....7
BAB II TINJAUAN PUSTAKA.....**8**
II.1 *E-Government*.....8
II.2 *Smart Village*.....9
II.3 Konsep *Smart Village*.....9
II.4 Penerapan *Smart Village* di Berbagai Negara.....11
II.4.1 Penerapan *Smart Village* di Negara Cina.....11
II.4.2 Penerapan *Smart Village* di Negara Polandia.....14
II.4.3 Penerapan *Smart Village* di Negara Korea Selatan.....15
II.4.4 Penerapan *Smart Village* di Negara Indonesia.....15
II.5 Penelitian Terdahulu terkait *Smart Village*.....17
II.6 *Sustainable Development Goals* (SDGs).....22
II.7 *Enterprise Architecture*.....24
BAB III METODOLOGI PENELITIAN.....**25**
III.1 Metodologi Konseptual.....25
III.2 Sistematika Penelitian.....26
III.2.1 Identifikasi dan Inisiasi Organisasi.....26
III.2.2 Analisis dan Perancangan.....26
III.2.2.1 *Preliminary Phase*.....26
III.2.2.2 *Architecture Vision*.....27
III.2.2.3 *Business Architecture*.....28
III.2.2.4 *Data Architecture*.....30
III.2.2.5 *Application Architecture*.....30

III.2.2.6 *Technology Architecture*..... 32
III.2.2.7 *Opportunities & Solution*.....32
III.2.2.8 *Migration Planning*.....33
III.2.3 Kesimpulan dan Saran..... 34
III.2.4 Evaluasi dan Validasi.....35\
III.3 Penentuan Objek Penelitian Berdasarkan SDGs..... 35
III.4 Pengumpulan Data.....38
III.4.1 Studi Literatur.....38
III.4.2 Wawancara.....38
III.4.3 Observasi Lapangan.....39
III.4.4 Identifikasi Kebutuhan Data.....39
III.5 Pengolahan Data..... 40
III.6 Metode Evaluasi..... 43
III.7 Pelaksanaan Penelitian.....43
BAB IV OBJEK PENELITIAN..... 44
IV.1 Deskripsi Objek Penelitian.....44
IV.1.1 Gambaran Umum Organisasi.....44
IV.1.2 Visi Desa Buahbatu.....45
IV.1.3 Misi Desa Buahbatu.....45
IV.1.4 Struktur Organisasi.....46
IV.1.4.1 Badan Perwakilan Desa (BPD).....46
IV.1.4.2 Kepala Desa..... 47
IV.1.4.3 Sekretaris Desa.....47
IV.1.4.4 Kepala Urusan.....48
IV.1.4.4.1 Kepala Urusan Tata Usaha dan Umum..... 48
IV.1.4.4.2 Kepala Urusan Keuangan.....49
IV.1.4.4.3 Kepala Urusan Perencanaan.....49
IV.1.4.5 Kepala Seksi.....49
IV.1.4.5.1 Kepala Seksi Pemerintahan.....49
IV.1.4.5.2 Kepala Seksi Kesejahteraan.....49
IV.1.4.5.3 Kepala Seksi Pelayanan..... 50
IV.1.4.6 Kepala Dusun.....50
IV.2 Sasaran Pembangunan Desa Buahbatu Periode Tahun 2020-2025.....51
IV.3 Gambaran Kondisi Aplikasi Eksisting.....53
IV.4 Gambaran Kondisi Teknologi Eksisting..... 54
IV.5 Permasalahan Desa Buahbatu..... 56
BAB V ANALISIS DAN PERANCANGAN..... 62
V.1 *Preliminary Phase*..... 62
V.1.1 *Principle Catalog*..... 62

V.2 *Architecture Vision*..... 71
V.2.1 *Stakeholder Map Matrix*.....71
V.2.2 *Value Chain Diagram*.....77
V.2.3 *Solution Concept Diagram*.....78
V.3 *Business Architecture*..... 80
V.3.1 *Business Architecture Requirement*.....81
V.3.2 *Goal/Objective/Requirement Catalog*..... 83
V.3.3 *Business Footprint Diagram*..... 86
V.3.4 *Business Interaction Matrix*..... 88
V.3.5 *Functional Decomposition Diagram*.....91
V.3.6 *Business Service/Functional Catalog*.....91
V.3.7 *Organization/Actor Catalog*.....92
V.3.8 *Role Catalog*.....93
V.3.9 *Actor/Role Matrix*.....98
V.3.10 *Process Catalog*.....100
V.3.11 *Organizational Process Diagram*.....102
V.3.11.1 *Organizational Process Diagram Existing*.....102
V.3.11.1.1 *Existing* Pendaftaran Pelatihan..... 102
V.3.11.1.2 *Existing* Seleksi Peserta Pelatihan..... 104
V.3.11.1.3 *Existing Feedback* Pelatihan.....106
V.3.11.1.4 *Existing* Pendaftaran Produksi Kreatif..... 108
V.3.11.1.5 *Existing* Penjualan Hasil Produksi Kreatif..... 110
V.3.11.1.6 *Existing* Pembayaran Produk Kreatif.....112
V.3.11.1.7 *Existing* Laporan Penjualan Produk Kreatif..... 114
V.3.11.1.8 *Existing* Pendaftaran Modal Usaha.....116
V.3.11.1.9 *Existing* Seleksi Penerima Modal Usaha..... 118
V.3.11.1.10 *Existing* Pengembalian Modal Usaha.....120
V.3.11.1.11 *Existing* Laporan Pertanggungjawaban..... 122
V.3.11.1.12 *Existing* Pendaftaran Fasilitas Air Bersih.....124
V.3.11.1.13 *Existing* Pengaduan Fasilitas Air Bersih..... 126
V.3.11.1.14 Existing Pembayaran Air Bersih..... 128
V.3.11.1.15 *Existing* Laporan Pemasukkan.....130
V.3.11.2 *Organizational Process Diagram Targeting*.....132
V.3.11.2.1 *Targeting* Pendaftaran Pelatihan.....132
V.3.11.2.2 *Targeting* Seleksi Calon Peserta Pelatihan..... 134
V.3.11.2.3 *Targeting Feedback* Pelatihan.....136
V.3.11.2.4 *Targeting* Pendaftaran Produksi Kreatif..... 138
V.3.11.2.5 *Targeting* Penjualan Hasil Produksi Kreatif..... 140
V.3.11.2.6 *Targeting* Pembayaran Produk Kreatif..... 142

V.3.11.2.7 *Targeting* Laporan Penjualan Produk Kreatif..... 144
V.3.11.2.8 *Targeting* Pendaftaran Modal Usaha..... 146
V.3.11.2.10 *Targeting* Seleksi Penerima Modal Usaha..... 148
V.3.11.2.10 *Targeting* Pengembalian Modal Usaha..... 150
V.3.11.2.11 *Targeting* Laporan Pertanggungjawaban..... 152
V.3.11.2.12 *Targeting* Pendaftaran Fasilitas Air Bersih..... 154
V.3.11.2.13 *Targeting* Pengaduan Air Bersih..... 156
V.3.11.2.14 *Targeting* Pembayaran Fasilitas Air Bersih..... 158
V.3.11.2.15 *Targeting* Laporan Pemasukkan..... 160
V.3.12 *GAP Analysis Business Architecture*..... 162
V.4 *Information System Architecture*..... 164
V.4.1 *Data Architecture*..... 164
V.4.1.1 *Data Architecture Requirement*..... 164
V.4.1.2 *Data Entity/Data Component Catalog*..... 165
V.4.1.3 *Data Entity/Business Function Matrix*..... 173
V.4.1.4 *Application/Data Matrix*..... 176
V.4.1.5 *Conceptual Data Diagram*..... 178
V.4.1.6 *Logical Data Diagram*..... 181
V.4.1.7 *Data Dissemination Diagram*..... 183
V.4.1.8 *GAP Analysis Data Architecture*..... 184
V.4.2 *Application Architecture*..... 190
V.4.2.1 *Application Architecture Requirement*..... 190
V.4.2.2 *Application Portfolio Catalog*..... 191
V.4.2.3 *Application Interface Catalog*..... 193
V.4.2.4 *Application/Organization Matrix*..... 194
V.4.2.5 *Application/Function Matrix*..... 195
V.4.2.6 *Application/Role Matrix*..... 198
V.4.2.7 *Application Interaction Matrix*..... 200
V.4.2.8 *Application Communication Diagram*..... 200
V.4.2.9 *Application Use Case & sage View Diagram*..... 201
V.4.2.10 *GAP Analysis Application Architecture*..... 206
V.5 *Technology Architecture*..... 207
V.5.1 *Technology Architecture Requirement*..... 207
V.5.2 *Technology Standard Catalog*..... 208
V.5.3 *Technology Portfolio Catalog*..... 211
V.5.4 *Application/Technology Matrix*..... 215
V.5.5 *Environment and Location Diagram*..... 218
V.5.6 *Platform Decomposition Diagram*..... 218
V.5.7 *GAP Analysis Technology Architecture*..... 220

V.6 *Opportunities and Solution*..... 224
V.6.1 *Implementation Factor Assessment and Deduction Matrix*..... 224
V.6.2 *Consolidate GAP, Solution, and Dependencies Matrix*.....228
V.6.3 *Work Package Identification Catalog*.....243
V.6.4 *Consolidate and Reconcile Interoperability Requirement*..... 248
V.6.5 *Project Catalog*.....249
V.6.6 *Project Context Catalog*.....250
V.6.7 *Benefits Diagram*.....251
V.7 *Migration Planning*.....252
V.7.2 *Estimate Value and Risk*.....252
V.7.3 *Business Value Assessment*.....254
V.7.4 *Project Prioritization*.....255
V.7.5 *IT Roadmap*.....258
BAB VI KESIMPULAN DAN SARAN..... 260
VI.1 Kesimpulan.....260
VI.2 Saran.....262
DAFTAR PUSTAKA..... 263
LAMPIRAN..... 268