FEASIBILITY
- SKILLS COMPLIANT, SOFTWARE LICENSING,
- "BIM 360", "REVIT", "CLASSIFICATION MANAGER", "SYNCHRO 4D"
- "BIM Coordinator", "Certified Construction Workers"

IMPORTANCE CRITERIA
- Business / Technical Productivity
- Citizens Classification Codes & Protection of Privacy of IoT devices
- National Agenda: Vision Exchange Format in Camel

BIM
BIM MODEL - REPLACING RFIs

GANTT CHART SOFTWARE FOR COLLABORATION

CONSTRUCTION SCHEDULING

IoT DEVICES IN CONSTRUCTION SITES

CONSTRUCTION CLASSIFICATION CODES

piling rig
folded piling rig · sectional flight auger · car · crane · underground tunnel
excavator · exposed piles
pile casing · continuous flight auger drill
water body
person with PPE · steel
pile cage · machinery · soils
building structure · grab
crane · truss
concrete mixer truck

FOUNDATIONAL AND COMMON APPLICATION BLOCKS

ADAPTIVE SHARED CITIZEN-CENTRIC E-GOV SERVICES

CLIENT CASE MANAGEMENT
CONSTRUCTION SCHEDULING

RECOGNIZE ACTIVITY

EXCHANGE OF PART NUMBERS OF EQUIPMENT
INTEGRATION OF BPMN WORKFLOWS
AGGREGATING ACTIVITIES FROM CSV
DEPTH-BASED ACTIVITY CLUSTERING

BIM SOFTWARE

ERP SYSTEM

QUALITY INSPECTION

OBJECT DETECTION

MEDIATION MIDDLEWARE

eFILES REGISTRATION ONLY
BUSINESS INTELLIGENCE
WORKFLOW
SECURITY
AUTHENTICATION
EDUCATION & TRAINING
PAYMENT
MESSAGING SERVICE

Record Positions of People and Machines

Timeline based scheduling app is accessible to BIM users to show the history of activities within an activity diagram

The work of scheduling and monitoring by exposing the hierarchy of activities occurring in a construction site relevant to people who works on shifts, processes in place kept for maintaining daily reports, technology acting as a service and data accessible to conduct an inspection contingency

Introduce a platform connected with a depth camera to create scheduled walks

Depth camera acts as a service to a timeline based scheduling app

Scheduled Walks record number of piles, site conditions and hazards into the Daily Report

APAPTIVE SHARED CITIZEN-CENTRIC E-GOVERNANCE SERVICES (SOA)

KlinterAI Scheduling Tenant (React)	Grafana Dashboard for Metrics

MEDIATION MIDDLEWARE (OPEN API GATEWAY, SECURE DATA EXCHANGE)

Apache Camel	QoS site / Authentication / Vision Exchange Format	Apache Camel

Building Information Modeling	COMMON APPLICATIONS BLOCKS / FOUNDATIONAL BLOCKS	Enterprise Resource Planning

IoT Depth Camera	Model	OpenTelemetry (eBPF)	Multi-Tenant Serverless (Python)
Python/C++	ESP-32 / 6G / SNMP / MQTT / Vision as a Sensor	extended Berkeley Packet Filter (eBPF)	MongoDB
ITOps		**SecOps / SRE**	**AIOps / DevOps**

PUBLIC AND PRIVATE R&I INVESTMENT
ePD and GDPR

CONNECTED INTELLIGENCE TELEMETRY NETWORK PROGRAMMABILITY

IoT

SCHEDULING
BIM 4D (ACTIVITIES)
BIM 5D (COSTING)
BIM 6D (ENVIRONMENT)
ANCILLARY

REPLICABILITY		REGISTRATION & SETUP			MESSAGING SERVICE
SCALABILITY		BUSINESS INTELLIGENCE & ANALYTICS			CLIENT CASE MANAGEMENT
AFFORDABILITY	KLINTER.AI TENANT & QoS	WORKFLOW	KLINTER.AI TENANT & QoS		EDUCATION & TRAINING
TRUSTWORTHINESS		SECURITY & AUTHENTICATION			
		PAYMENT			

KLINTER.AI

DIGITAL PILOT PROJECTS

MESSAGING SERVICE	CLIENT CASE MANAGEMENT	EDUCATION & TRAINING

REGISTRATION & SETUP	BUSINESS INTELLIGENCE & ANALYTICS	WORKFLOW	SECURITY & AUTHENTICATION	PAYMENT

29.20% LEGAL AND LITIGATION
29.50% IT AND TELECOMMUNICATIONS
SECTORS

40% OFF THE SHELF
20% EXTERNAL PROVIDERS
PURCHASING

Costing in Bidding / Procurement

LOGISTICS / TRANSPORT

- **Pathways to Costing**
- **Impact of Costing**
- **Choice of Equipment during Estimation**

CONSTRUCTION SITE

The Blocks of Stages identified from Estimation vs The Cumulative Work Units Estimated

Legend
Importance

Cumulative Work Units Estimate

Blocks of Stages

Infrastructure Analysis · Digital Mapping · Legal Reengineering · Specifications · Planning in Development · Hardware · Software Development & Integration · Legislative Amendments & Adoption · Project Management & Monitoring · Accounting · Key Indicators monitoring · Quality Monitoring & Improvement · End-user and B2B Engagement

Distribution of SMART Objectives before and after the development budget is allocated

Number of SMART Objectives

Prior to Dev Budget & Allocation
Post Dev Budget & Allocation

Stages prior and post of Development Budget And Allocation