



Executive Summary - Development Effort

EZ Data Processing Platform

December 2025

92% Complete - Production Validation Phase



Project Scope

9+1

Microservices + Frontend

6

Development Months

12-15

Team Members

~47.5

Person-Months

Metric	Value
Technology Stack	.NET 10.0, React 19, Kubernetes, Kafka, MongoDB
Architecture	Event-Driven Microservices

Supported Languages

Hebrew (RTL) + English

HE עברית

Current Status

92% Complete - Production Validation (Week 5)

Team Structure

Leadership (3 Members)



Chief Technology Officer (CTO)

Executive 15+ years | 20% Allocation



Product Manager

Senior 8+ years | 80% Allocation



Technical Architect

Principal 12+ years | 100% Allocation



Development Team (6-7 Members)



Team Leader / Tech Lead

Senior 10+ years



Senior Backend Developers (×2)

Senior 6-7+ years



Mid-Level Backend Developer

Mid 4+ years



Senior Frontend Developer

Senior 6+ years



Mid-Level Frontend Developer

Mid 3+ years



Junior Developer

Junior 1+ years



Senior DevOps Engineer

Senior 7+ years



DevOps Engineer

Mid 4+ years



QA Lead / SDET

Senior 6+ years



QA Engineer

Mid 3+ years



Project Plan - Monthly Overview

● Month 1 - Foundation & Architecture

Weeks 1-4

Requirements review, Team onboarding, Environment setup, Architecture finalization, Kubernetes cluster setup, MongoDB deployment, Kafka configuration, CI/CD pipeline, Shared libraries, Message contracts, Entity base classes, Configuration management

● Month 2 - Core Services

Weeks 5-8

File discovery, Hash-based deduplication, File processing, CSV/XML/Excel format converters, JSON Schema 2020-12 validation, Multi-destination output service

● Month 3 - Advanced Features

Weeks 9-12

Quartz.NET scheduling, Metrics configuration, Alert rules, Invalid records management, Frontend completion with full Hebrew/RTL support

● Month 4 - Observability & Testing

Weeks 13-16

OTEL Collector, Dual Prometheus setup, Jaeger configuration, Grafana dashboard creation, E2E testing, Load testing

● Month 5 - Production Hardening

Weeks 17-20

Security audit, Secrets management, RBAC configuration, High availability setup, Failover testing, Complete documentation

● Month 6 - Launch & Stabilization

Weeks 21-24

Internal pilot, Production go-live, 24/7 support, Bug fixes, Performance tuning, Knowledge transfer



Budget Estimation

\$960K

\$30K

\$99K

\$1.09M

Team Cost (6 Months)

Infrastructure

Contingency (10%)

Total Project Budget

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Key Deliverables

Category	Details
Backend Services	9 Microservices: DataSource Management, File Discovery, Processing, Validation, Output, Scheduling, Metrics, Invalid Records
Frontend	React 19 Application with full Hebrew/RTL support, 35+ components, Dashboard
Infrastructure	Kubernetes, MongoDB Replica Set, Kafka, RabbitMQ, Hazelcast
Observability	Dual Prometheus, Grafana, Jaeger, Elasticsearch, Fluent Bit
Testing	6 E2E Scenarios Passing, Load Testing (1000 files)
Documentation	Architecture, API, Hebrew User Guides, Runbooks

Key Success Factors



Strong Technical
Leadership



Experienced & Diverse
Team



Clear Architecture



Measurable Milestones

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← All Diagrams

← Architecture Overview

Hebrew Version עברית