P360 Display Advertising Platform - MVP Implementation Plan

Executive Summary

Project: Pipeline360 Display Advertising Platform MVP **Timeline**: September 1, 2025 - January 19, 2026 (140 days)

Budget: \$540,000 (fixed fee with \$90K at risk)

Critical Deadline: January 9, 2026 (Production deployment) **Success Metric**: First customer dollar processed by deadline

MVP Strategy: Phased Delivery Approach

Phase Strategy Overview

We recommend a **3-tier MVP approach** to ensure business continuity and manage risk:

- 1. MVP-1 (Foundation): Core platform capabilities for business operations
- 2. MVP-2 (Enhancement): Advanced features for competitive differentiation
- 3. MVP-3 (Scale): Marketplace and optimization features

MVP-1: Foundation (Critical Path to Jan 9, 2026)

MVP-1 Objectives

- Replace Xandr functionality for business continuity
- Enable first customer dollar by January 9, 2026
- Establish core multi-tenant platform
- Implement essential integrations (TTD, Bombora, Salesforce)

MVP-1 Feature Scope

1. Core Infrastructure (Must-Have)

Tech Foundation

- Multi-tenant database architecture with org-level isolation
- Microsoft Entra ID SSO for internal users
- External user authentication (AuthO/OIDC)
- Role-based access control (Super Admin, Campaign Manager, Marketer)
- Data encryption (at rest/transit) and API security
- Basic system monitoring and health checks
- Sandbox/test mode for safe testing

2. User & Organization Management (Must-Have)

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- Organization creation (API + manual by Super Admin)
- User provisioning and role assignment
- TTD Advertiser API key management
- Basic audit logging for user actions
- Manual record reconciliation UI for unmapped SF records

3. Audience Management (Must-Have)

Core Audience Capabilities

- ☐ CSV upload & ingestion (max 10K records, <30s processing)
- Audience builder with AND/OR logic trees
- Audience field-mapping service for Bombora data normalization
- Audience deduplication and validation
- TTD audience export with UID2 identifiers
- ICP audience type designation
- TTD seed creation from audiences (min 10K cookies)

4. Campaign Orchestration (Must-Have)

✓ Program & Campaign Management

- ☐ Program hierarchy (Program > Campaign > Line Item)
- Campaign configuration (budget, dates, KPIs, audiences)
- Line item configuration (bids, creatives, pacing)
- TTD campaign sync API with retry logic
- Campaign metadata enrichment
- Campaign status tracking and validation

5. Data Integration (Must-Have)

Core Integrations

- Bombora daily file ingestion (20-60M records, <4hrs processing)
- Bombora taxonomy mapping engine
- TTD REDS file ingestion (hourly processing, <15min latency)
- Salesforce 3x daily sync (Accounts/Opportunities/Line Items)
- Dilling reconciliation logic with spend discrepancy identification
- TTD Advertiser API key management per organization

6. Attribution & Reporting (Must-Have)

☑ Basic Reporting

- REDS data processing engine for attribution
- Attribution engine (REDS + audience + campaign data joining)
- Aggregated reporting tables for Metabase

 Metabase dashboard embedding via iFrames TTD Advertiser Pixel retrieval for conversion tracking MVP-1 Sprint Plan (19 Sprints) **Sprint 0-1: Foundation Setup (Weeks 1-2) Sprint 0 Goals**: Infrastructure & Development Environment AWS environment setup (dev/staging/prod) • CI/CD pipeline configuration Database schema design and setup Development team onboarding and access provisioning Initial security framework implementation Sprint 1 Goals: Core Backend Architecture Multi-tenant database implementation Authentication framework (Entra ID + external) Basic API framework and security • Initial user and organization models • Health check and monitoring endpoints **Sprints 2-3: User Management (Weeks 3-4)** Sprint 2 Goals: Authentication & Authorization Microsoft Entra ID integration External user authentication (AuthO/OIDC) Role-based access control implementation Session management and token handling Basic admin UI for user management **Sprint 3 Goals:** Organization Management Organization creation and management User-organization mapping TTD Advertiser API key management Basic audit logging framework Organization provisioning workflows **Sprints 4-6: Data Integration Foundation (Weeks 5-7)** Sprint 4 Goals: Salesforce Integration Salesforce API connectivity • 3x daily sync implementation Account/Opportunity/Line Item mapping • Conflict resolution logic Sync monitoring and error handling

Sprint 5 Goals: Bombora Integration • S3 file ingestion pipeline • Daily processing automation (20-60M records) Schema validation and data quality checks • Taxonomy mapping engine Error handling and retry logic Sprint 6 Goals: TTD Foundation • TTD API connectivity and authentication • REDS file ingestion setup Basic TTD audience export framework API key management per organization • TTD campaign sync foundation **Sprints 7-9: Audience Management (Weeks 8-10)** Sprint 7 Goals: CSV Upload & Processing CSV upload UI and validation • Tile processing engine (max 10K records) S3 storage integration Error logging and user feedback Deduplication logic implementation Sprint 8 Goals: Audience Builder Core AND/OR logic tree UI • Bombora data integration Audience field mapping Preview and validation features Audience versioning foundation Sprint 9 Goals: TTD Audience Export • TTD-compatible JSON output • UID2 identifier integration Batch processing and API submission Retry logic and failure handling • ICP audience type implementation **Sprints 10-12: Campaign Orchestration (Weeks 11-13)** Sprint 10 Goals: Program Hierarchy Program creation and management UI

- Parent-child relationship implementation
- Budget validation and constraints
- Program-level reporting container

| Salesforce opportunity mapping |
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| Sprint 11 Goals: Campaign Configuration |
| Campaign creation and editing UI Budget allocation and flight dates KPI setting and audience assignment Real-time validation implementation Campaign status management |
| Sprint 12 Goals: Line Item Management |
| Line item configuration UI Bid configuration and creative assignment Pacing controls implementation TTD constraint validation Line item status tracking |
| Sprints 13-15: TTD Integration (Weeks 14-16) |
| Sprint 13 Goals: Campaign Sync to TTD |
| TTD API campaign creation P360 to TTD object translation Sync status logging and monitoring Error handling and retry logic Campaign lifecycle management |
| Sprint 14 Goals: REDS Data Processing |
| Hourly REDS file processing Schema validation and data joining Campaign ID reconciliation Performance monitoring (<15min latency) Data quality validation |
| Sprint 15 Goals: TTD Advanced Features |
| Seed creation from audiences Advertiser pixel retrieval Advanced campaign metadata TTD status synchronization Conversion tracking setup |
| Sprints 16-17: Attribution & Reporting (Weeks 17-18) |
| Sprint 16 Goals: Attribution Engine |
| REDS + audience + campaign data joining Custom reconciliation rules Cookie-to-audience matching |

| • | Attribution logic implementation |
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| • | Data aggregation for reporting |
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| Sprint | t 17 Goals: Reporting Infrastructure |
| • | Metabase setup and configuration |
| • | Reporting table generation |
| • | Dashboard embedding via iFrames |
| • | ☐ Basic KPI calculation |
| • | Report refresh automation |
| Sprint | t 18-19: Integration & Polish (Weeks 19-20) |
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| Sprint | t 18 Goals: Admin Features |
| • | Admin console implementation |
| • | Manual record reconciliation UI |
| • | System monitoring dashboard |
| • | ☐ Audit trail UI implementation |
| • | ☐ Basic user onboarding flow |
| Sprin | t 19 Goals: UAT Preparation |
| • | ☐ End-to-end testing completion |
| • | ☐ Performance optimization |
| • | Security validation |
| • | □ Documentation finalization |
| • | UAT environment preparation |
| ✓ M | VP-1 Success Criteria Checklist |
| Busin | ess Continuity Requirements |
| • | Customer organization can be provisioned |
| • | Audience can be uploaded and created |
| • | Campaign can be launched with associated audience |
| • | ☐ TTD integration operational with live campaigns |
| • | Attribution data flowing from REDS service |
| • | Attributed reporting tables created |
| • | Salesforce billing reconciliation functional |
| Perfo | rmance Requirements |
| • | ☐ CSV processing: <30 seconds per file (max 10K records) |
| • | Bombora ingestion: <4 hours for 20-60M records daily |
| • | REDS processing: <15 minutes per hourly file |
| • | Campaign actions: <5 seconds response time |
| • | |
| • | ☐ Salesforce sync: <15 minutes full sync |

• Page loads: <2 seconds for reporting dashboards

Integration Requirements

- TTD API: Campaign creation, audience export, REDS ingestion
- Daily file processing and taxonomy mapping
- Salesforce: 3x daily sync with conflict resolution
- Authentication: Entra ID (internal) + AuthO (external)
- Monitoring: System health checks and error alerting

MVP-2: Enhancement (February - March 2026)

MVP-2 Objectives

- Enhance user experience and operational efficiency
- Add advanced audience and campaign features
- Implement comprehensive monitoring and optimization

MVP-2 Feature Scope

1. Advanced Audience Features

- Audience expansion API for behavioral data enrichment
- Audience versioning and rollback capabilities
- Advanced deduplication with ML-based fuzzy matching
- Audience performance tracking and optimization

2. Campaign Optimization

- Auto-creation of campaigns from Salesforce triggers
- Campaign performance summary cards
- Basic optimization suggestions

3. Enhanced Integration & Monitoring

- Integration health dashboard
- Advanced data export and API access
- Enhanced audit trail with comprehensive filtering
- On-demand Salesforce sync capabilities

4. User Experience Improvements

- Enhanced user onboarding flow with tutorials
- Insight tags and annotations for campaigns
- Improved navigation and user interface
- Mobile-responsive design optimization

MVP-3: Scale (April - June 2026)

MVP-3 Objectives

- Enable marketplace functionality
- Implement advanced AI/ML features
- · Add enterprise-grade capabilities

MVP-3 Feature Scope

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- Seller asset listing and management
 Buyer view of marketplace offerings
- Cross-org content syndication rules
- Marketplace-level reporting dashboard

2. Advanced Roles & Permissions

- Seller (external) role implementation
- Agency (external) role with multi-org access
- Advanced permission granularity
- Data masking and privacy controls

3. AI/ML Features

- Optimization suggestion engine
- Predictive reach and pacing models
- Automated record matching with ML
- Anomaly detection for campaign performance

4. Enterprise Features

- Open API for custom integrations
- Advanced data management and export
- Integrate sync services for campaign results
- Enhanced forecasting with market data

Risk Mitigation Strategy

Critical Risks & Mitigation

1. Timeline Risk (High Impact)

Risk: January 9, 2026 deadline with \$90K penalty Mitigation:

- Aggressive sprint planning with 2-week cycles
- Parallel development tracks (frontend/backend/integration)
- Weekly stakeholder demos for early validation
- Contingency plan with reduced feature set if needed

2. Integration Risk (High Impact) Risk: TTD, Bombora, or Salesforce API dependencies Mitigation: • Early integration testing in sprint 2-3 • Mock services for development independence • Comprehensive error handling and retry logic •

Fallback procedures for integration failures 3. Performance Risk (Medium Impact) **Risk**: High-volume data processing requirements **Mitigation**: • Performance testing starting sprint 5 Auto-scaling infrastructure design • Database optimization and indexing Caching strategies for frequently accessed data 4. Scope Creep Risk (Medium Impact) Risk: Additional features beyond 44 defined features Mitigation: • Strict change request process Feature flag implementation for optional capabilities • ☐ Clear MVP-1 vs MVP-2/3 boundaries Quality Assurance Strategy **Testing Framework** Unit testing: 80% code coverage minimum • Integration testing: All API endpoints and data flows Performance testing: Load testing for capacity requirements Security testing: Vulnerability scanning and penetration testing End-to-end testing: Complete user workflows **Deployment Strategy** • Dlue-green deployment for zero downtime

- Infrastructure as Code (Terraform)
- Automated CI/CD pipelines
- Environment promotion (dev → staging → prod)
- Rollback procedures and monitoring

Success Metrics & KPIs

Business Metrics

| First customer dollar processed by January 9, 2026 100% of current Xandr users migrated Platform uptime >99.5% post-launch Campaign performance matching or exceeding Xandr | | | | |
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| ✓ Technical Metrics | | | | |
| API response times <2 seconds average Data processing SLAs met (CSV <30s, Bombora <4hrs, REDS <15min) Zero critical security vulnerabilities <5% defect escape rate to production | | | | |
| User Adoption Metrics | | | | |
| User onboarding completion rate >90% Feature adoption rate >80% for core features User satisfaction score >8/10 Support ticket volume <10% of total users | | | | |
| Next Steps & Immediate Actions | | | | |
| ✓ Week 1 Priorities | | | | |

1. Project Kickoff

- Execute MSA and SOW
- Resource allocation and team onboarding
- Development environment setup
- Third-party vendor coordination (TTD, Bombora)

2. Technical Setup

- AWS account and environment provisioning
- Repository setup and CI/CD configuration
- Initial architecture documentation
- Security framework implementation

3. Stakeholder Alignment

- Requirements validation workshop
- Design review and UX/UI alignment
- Sprint planning for first 3 sprints
- Communication protocols establishment

Tritical Milestones

- September 30, 2025: Define & Technology Foundations Complete (\$100K payment)
- November 28, 2025: Development Complete & UAT Kickoff (\$150K payment)
- January 9, 2026: Production Deployment (Critical deadline)

• January 19, 2026: Project Completion & Hypercare End (\$290K payment)

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Last Updated: Post-SOW Analysis

Next Review: Project Kickoff