

Automate.
Integrate.
Manage.



Visit Us

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Problem Statement

- Manual Inefficiency
- Human Error
- Governance Gaps
- Scaling Bottlenecks

Target Users

- Executive Leadership (CXOs)
- Operations & IT Leaders
- Estimation Teams
- Compliance Officers

Key Business Benefits

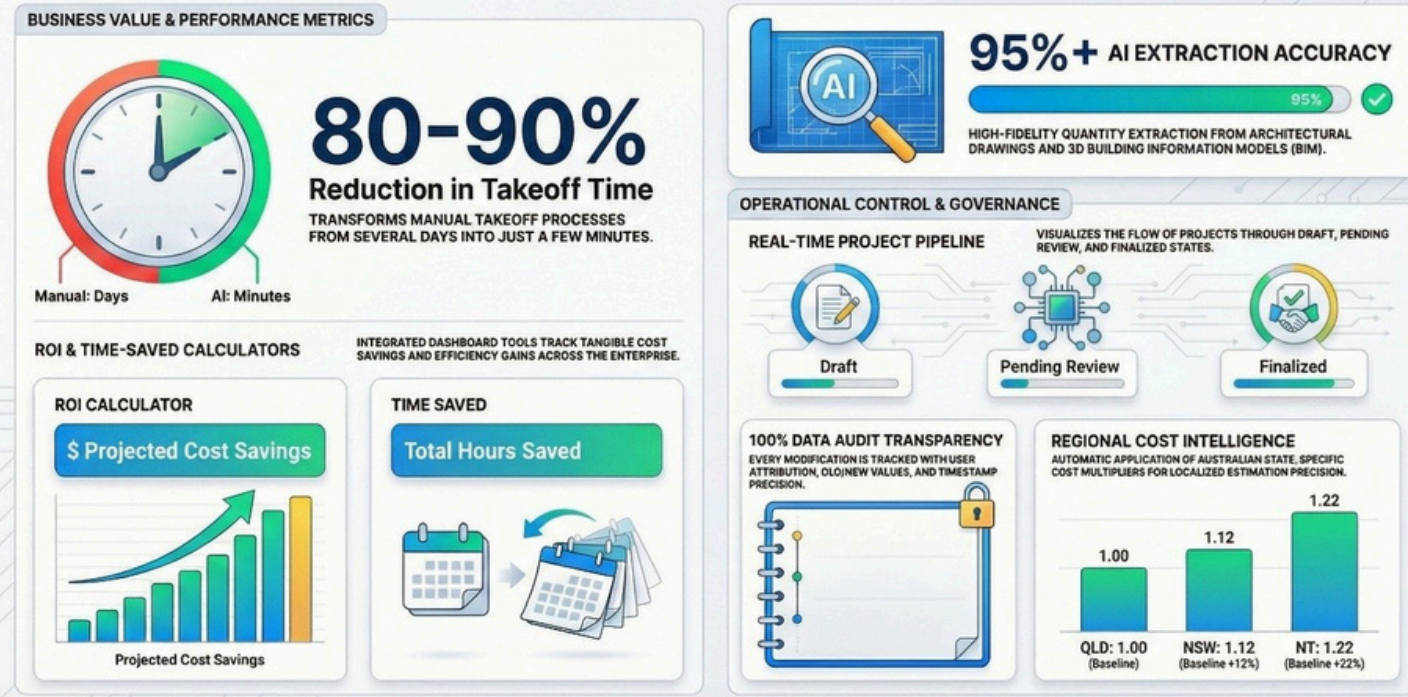
- Dramatic Efficiency Gains
- Industry-Leading Accuracy
- Enterprise Governance
- Regional Precision
- Operational Transparency

ZYBUILD

The AI Standard for Construction Cost Estimation

ZyBuild is an enterprise-grade, AI-powered platform designed to revolutionize construction cost estimation. By leveraging sophisticated machine learning and the Groq AI inference engine, the platform automates the extraction of quantities, dimensions, and specifications from architectural drawings (PDF) and Building Information Models (IFC). ZyBuild transforms a traditionally manual, multi-day process into a high-precision workflow completed in minutes, ensuring 95%+ accuracy and total project governance.

ZyBuild Executive Insights: Maximizing Construction ROI through AI



FEATURES & WORKFLOW

Core Features

- AI-Powered Quantity Extraction
- IFC Model Processing
- Rules-Based Calculation Engine
- Regional Cost Database
- Multi-Stage Approval Workflow
- Comprehensive Audit Trail



Use Cases / Scenarios

- Residential Takeoffs
- BIM Integration
- Regional Project Scaling
- Compliance Auditing

Security / Compliance

- Data Protection
- Standards Support
- Enterprise Reliability
- Access Control

How It Works

- **Step 1: Upload:** Submit PDF architectural plans (up to 50MB) or IFC 3D models (up to 100MB) to the secure cloud platform.
- **Step 2: Process:** Sophisticated AI algorithms extract quantities and dimensions, while the rules engine applies region-specific cost factors.
- **Step 3: Review:** Estimators and Reviewers validate data through a collaborative interface featuring side-by-side comparisons and section-wise editing.
- **Step 4: Finalize:** Upon approval, the project state is locked to prevent unauthorized changes and exported to external estimation or bidding systems.



ZyBuild: Precision AI Estimation & Transparent Governance

Automated Estimation Lifecycle



Upload:
PDF/IFC Files



Advanced machine learning models minimize human measurement errors across 12+ construction categories. Automatically extracts quantities and specifications with 80-90% time savings.

Regional Rules & Integration



Queensland (QLD) | 1.00 (Baseline)



New South Wales (NSW) | 1.12



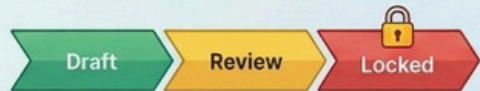
Northern Territory (NT) | 1.22

Base Category: Standard Residential



Governance & The Audit Interface

Multi-Stage Approval Workflow



Enforces state-based progression from Draft to Locked, ensuring no unauthorized modifications to finalized bids.

Audit Trail

Field-Level Traceability | AI vs. Manual Attribution

| Data Entry: Foundation Concrete Quantity | |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Before Value (AI) | After Value (Manual Edit) |
| <pre>{ "category": "foundation", "unit": "m3", "measurement_id": "123" }</pre> | <pre>{ quantity: 145 m³, attribution: manual edit, user: project_manager_o, timestamp: 2024-07-15 10:15:00 UTC }</pre> |

Every modification captures the user, timestamp, and the specific JSON path of the changed data. Categorizes changes as "AI-generated," "manual edit," or "override" for total transparency in decision-making.