STROOPER

Queensland Small to Medium Enterprise
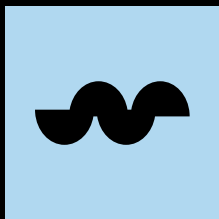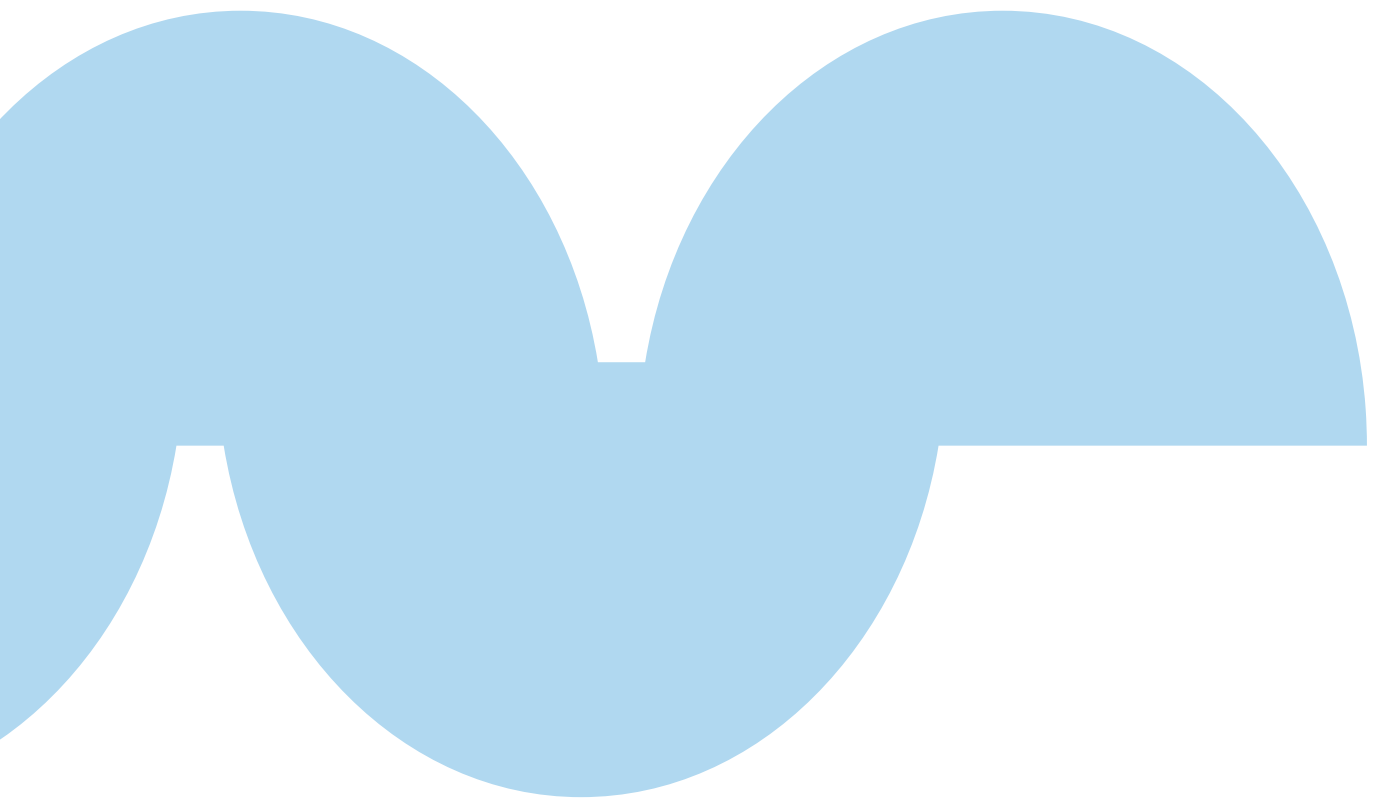
WorkingMouse Capability Statement

Automation with a human touch.

Certified System
Information Security ISO 27001
SAI GLOBAL

glassdoor®
4.2 | ★★★★☆

REVIEWED ON
Clutch ★★★★★
10 REVIEWS

ABN 72 118 569 136
info@workingmouse.com.au
www.workingmouse.com.au

Public (unclassified)

How can we help?

Organisations face a **problem**: off-the-shelf software that's rigid and expensive, or custom builds that start strong but decay as complexity grows. An **opportunity** lies in designing systems that balance abstraction for reuse with control at the code level. We believe this is the key to continuous modernisation and possible when people, processes, and tools are aligned.

After years working as a Solution Architect in the UK, Dr. Eban Escott returned to Australia to complete his PhD, '*A model-driven approach to developing and testing web applications'*. In 2013, he founded WorkingMouse to apply that research. Since then, we've grown from a small team to over 45 local specialists and invested more than $10 million in research and development whilst, delivering complex software **services** for government and enterprise across Australia.

Our **product** is Codebots, where models drive momentum. Each Bot combines models, meta-models, automation pipelines, and templates into a system. You can license ready-to-use bots like J2Bot (Java + React) and C2Bot (C# + React), or build your own tailored to your domain or preferred technologies. Whether modernising a legacy platform or building something new, WorkingMouse's people, processes, and tools can support and empower your continuous modernisation.

Problem

Teams often struggle to control their systems, they face a tough choice:

Licence expensive, often foreign-owned off-the-shelf software that doesn't fully fit their needs
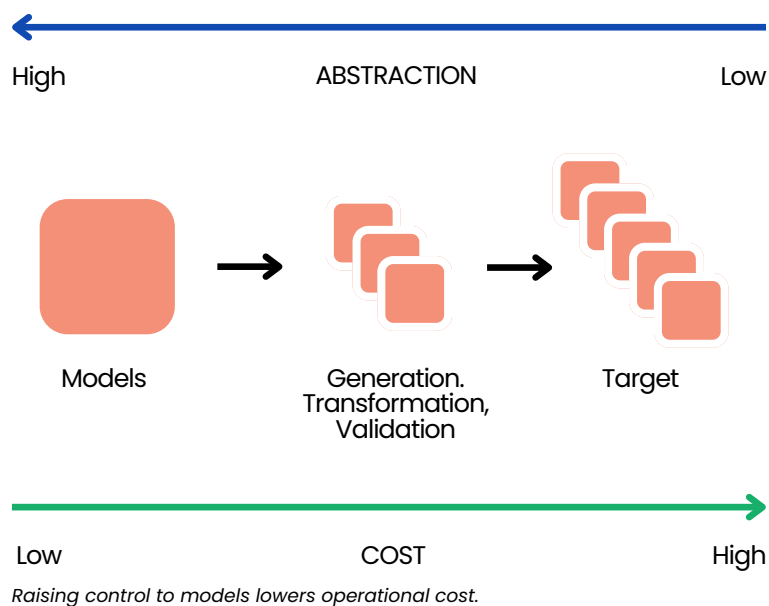
OR

Build their own systems, but they slowly become technical burdens as the environment changes

Opportunity

Design systems that can be continuously modernised. Teams can unlock long-term control and value by:

1. **Treating** system models as first-class artefacts

2. **Reusing** patterns, templates, and components

3. **Automating** with pipelines and DevOps

4. **Aligning** processes with tools and platforms

High   ABSTRACTION   Low

Models → Generation. Transformation, Validation → Target

Low   COST   High

Raising control to models lowers operational cost.

Solution

CODEBOTS

Where Models Drive Business Momentum

Empower software teams with an Internal Development Platform (IDP) and build bridges across your organisation.

- Uses templates and rules for consistent, traceable outputs
- Validates models before generating code
- Links requirements directly to generated outputs
- Follows modular, reusable patterns for easy extension
- Reduces manual effort and speeds up delivery

- Built on Epsilon for scalable, model-driven development
- Free to use for managed or self-hosted for internal use
- Premium tiers available for branded and AD integration
- Works with any Git provider like a developer
- Provides community support and learning pathways

Model Anything

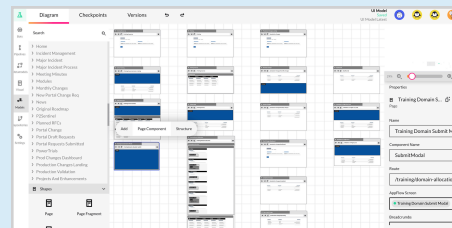Create useful abstractions and build bridges across the entire system.

Diagram of a UI Model

Pipelines

Break down the barriers between development and operations to increase quality and automation.
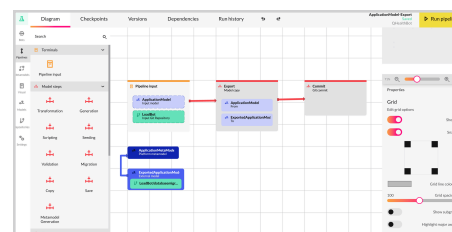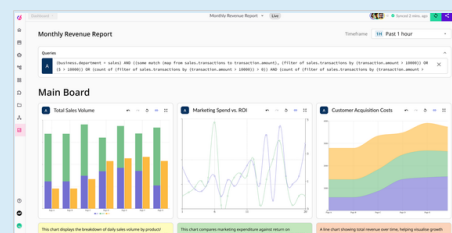

Diagram of a Pipeline

Analytics

Turn automation into insight with real-time metrics that drive smarter decisions and continuous improvement.
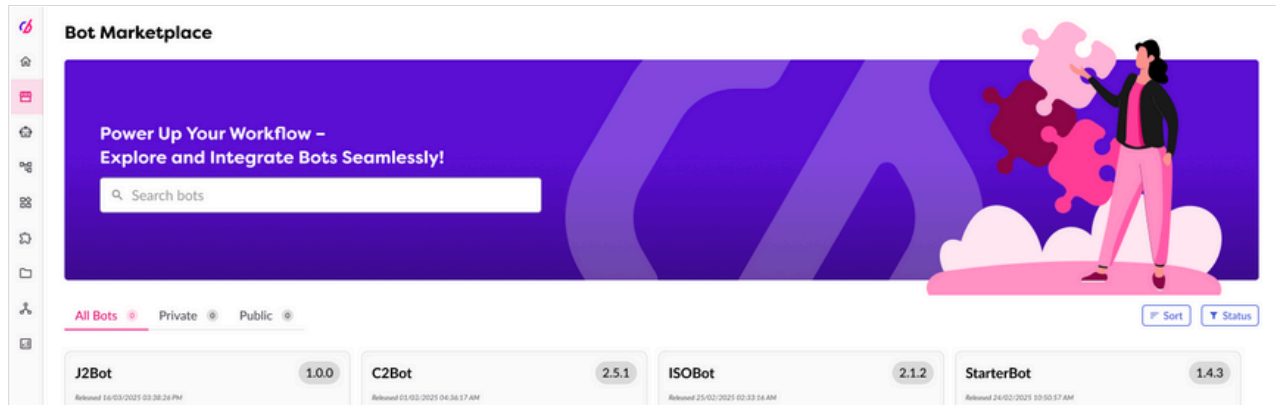

Analytics Dashboard

![workingmouse]

Bot Marketplace

Access published systems of models, pipelines, and templates. WorkingMouse has published the following Bots.

The Codebots Marketplace

J2Bot

Frontend: React + Typescript
Backend: Java with SpringBoot
Database: Postgres
Testing: Unit X, Playwright, Jest

C2Bot

Frontend: React + Typescript
Backend: .NET
Database: Postgres
Testing: Unit X, Playwright, Jest

These bots create compiled code, tests, and documentation from the following models:

- **Core** – Ensures consistency with shared base types

- **Entity** – Defines data and builds backend components

- **API** – Generates REST endpoints for each entity

- **Frontend** – Builds pages and links them to APIs

- **Action & State** – Powers UI interactions and logic

- **Security** – Manages roles and access control

- **Requirements** – Captures what the system must do

- **Traceability** – Connects requirements to tests and outputs

All logos shown are the property of their respective owners and are used here for reference only.

AnalyticsBot

AnalyticsBot enables you to create a data warehouse using a star schema time-series database, optimised for capturing and analysing massive volumes of data. Integration models allow seamless ingestion from any data source, while a visual query language empowers users to interrogate and explore datasets effortlessly. Easily save into dynamic visual dashboards and reports ready for human or AI analysis.

ISOBot

ISOBot helps you stay compliant. It generates audit trails, evidence, and policy checks based on your domain model, making it easy to align your organisation with any ISO or regulatory standard. Compliance logic is built right into your system, so you don't have to manage it manually.

🔲 Build your own Bot

Have a domain-specific problem, unique technology stack, or complex legacy system? We're able to create a custom Codebot tailored specifically to your organisational standards and requirements.

↱ Fork our Bots

Want to leverage our templates, models, and pipelines but diverge from our Bot roadmap? Fork any of our bots and customise their meta-models and templates to align precisely with your needs.

All logos shown are the property of their respective owners and are used here for reference only.

workingmouse

Experience

We help organisations modernise fragmented, outdated systems into scalable platforms that are easier to use, maintain, and improve over time. Here's how we've delivered impact across key sectors.


TMR Property Migration App

## QLD TMR
Property Applications

We helped the Department of Transport and Main Roads modernise seven legacy systems—shifting from slow desktop software to a fast, browser-based experience with sub-second response times.

Hitachi
TCoE Analytics

We partnered with Hitachi to modernise legacy tools and co-develop a model-driven analytics platform powering their Autonomous Haulage System—enabling real-time insights, scalable data pipelines, and long-term platform sustainability.
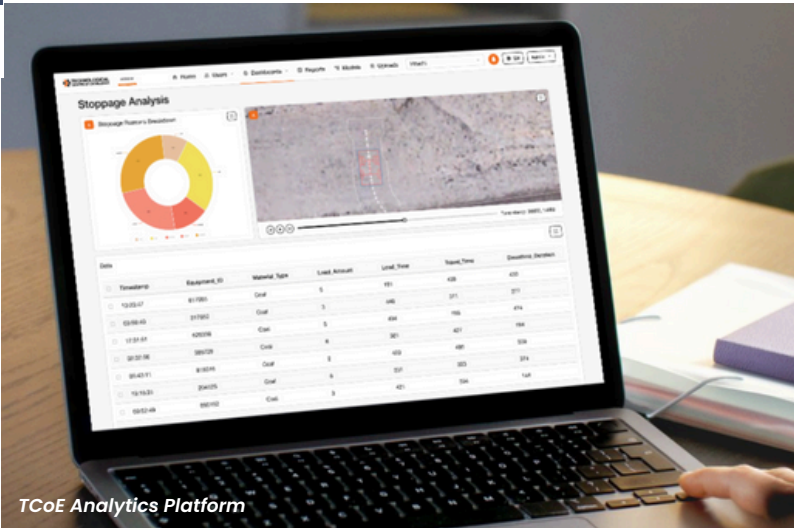
TCoE Analytics Platform
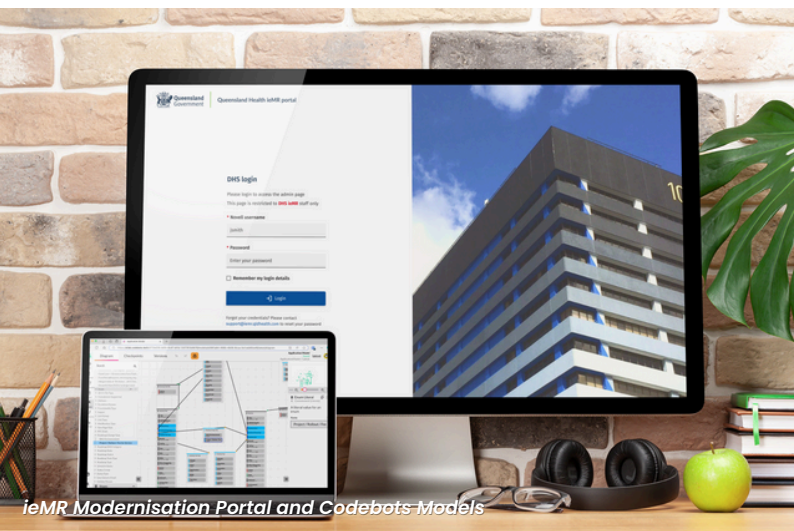
ieMR Modernisation Portal and Codebots Models

QLD Health ieMR
Modernisation

We rebuilt Queensland Health's ieMR portal to improve speed, scalability, and usability. Our modelling-first approach delivered a future-proof system praised as the best external use of their design system.

Engagement

💬 Consulting

Strategic clarity for complex system environments.

*A*ssess and de-risk legacy systems, mapping workflows, technical risk, and opportunities for reuse. Our Modernisation Strategy Model gives you a practical roadmap without committing to delivery upfront.

⟨⟩ Development & Modernisation

Software that evolves instead of decays.

Modernise fragmented systems into secure, scalable platforms. Our approach maintains traceability between design and delivery, ensuring updates stay aligned with business logic and compliance.

✍ Talent as a Service

Capability, not just capacity.

Embed trained and vetted WorkingMouse people directly into your team, including engineers, analysts, delivery leads, and DevOps specialists. Our people bring context, tooling, and experience—not just headcount.

🤖 Local AI

Capture and leverage internal knowledge safely.

Turn documentation, policies, and domain knowledge into secure, sovereign AI-powered tools that support staff and improve service delivery. No shadow AI. No uncontrolled cost creep.
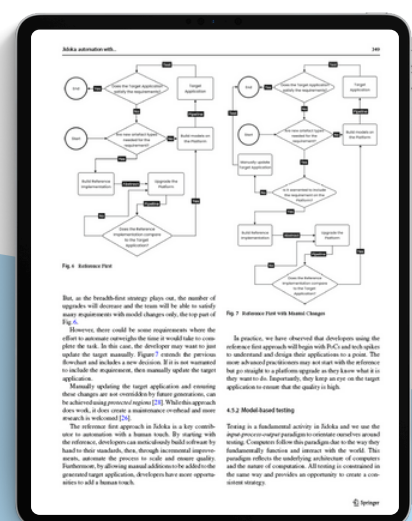
Delivery

Process

Jidoka: *Automation with a Human Touch*

Our proprietary delivery methodology has been peer-reviewed and published in the Journal of Software & Systems Modeling, Dec 2024. Get software that's built to last, avoid technical debt and gain the advantage of ongoing innovation, keeping your systems modern and high-performing.

1. Lower-risk legacy modernisation projects

2. Any target architecture and technologies

3. Lower organisational change

4. Consistent architecture with low technical debt

5. Higher quality software and test coverage

6. Decreased costs over the entire project lifecycle

7. Decreased knowledge loss and turnover

8. Increased cross-team collaboration

9. Increasing ROI for modernisation portfolios

10. Better business agility with continuous modernisation

Journal of Software
and Systems Modeling

Scan the
QR Code
to read the
full paper

People

- 45+ locally employed and security-cleared working in 4 cross functional teams.

Systems

- Delivery Management System (DMS)
- Enviromental Management System (EMS)
- Quality Management System (QMS)
- Information Security Management System (ISMS)

Certifications

- ISO 27001, (9001 & 14001 - Final audit Oct 2025)
- PRINCE2, Scrum Certified

Insurances

- $20M PL & PI + Cyber & WorkCover

Panels

- **Federal:** ICT Provider Arrangement (ICTPA), Defence Support Services, DTA, Police Services, BUY ICT DMP2.
- **State:** QLD ICTSS13.03, NSW SCM0020
- **Local:** Registered on VendorPanel across multiple LGAs

Awards & Recognition

Academic Publications

Jidoka: automation with a human touch.
Escott, E. Softw Syst Model 24, 339–358 (2025). https://doi.org/10.1007/s10270-024-01256-z

Relative Estimates of Software Development Effort
Magne Jørgensen, Eban Escott. Information & Software Technology, Vol. 143, 2022.DOI: 10.1016/j.infsof.2021.106782

Using DevOps Toolchains in Agile Model-Driven Engineering
Jörn Guy Süß, Samantha Swift, Eban Escott. CoRR, 2021. arXiv:2111.11607

PhD Thesis: A Model-Driven Approach to Developing and Testing Web Applications
Eban Escott, 2013

Architecture-Centric Model-Driven Web Engineering
Eban Escott, Paul A. Strooper, Jörn Guy Süß, Paul King. APSEC 2011

Integrating Model-Based Testing in Model-Driven Web Engineering
Eban Escott, Paul A. Strooper, Jim Steel, Paul King. APSEC 2011

Model-Driven Web Form Validation with UML and OCL
Eban Escott, Paul A. Strooper, Paul King, Ian J. Hayes. ICWE Workshops 2011

CEO, Eban speaking at Something Tech 2022
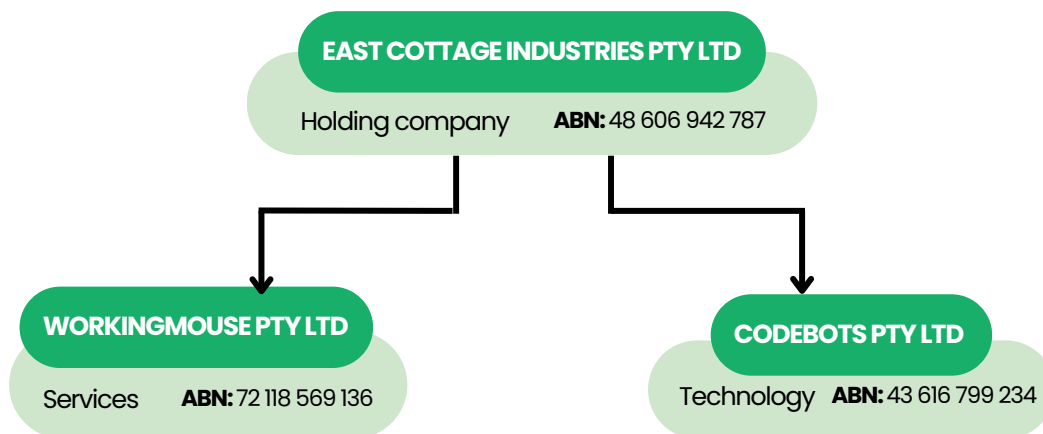
Industry & Community

- **Codebots First Nation Scholarship** for Women in STEM and Indigenous students at UQ running since 2019.
- **Reconciliation Action Plan** - Reflect Stage
- **UQ - First Nation - Inspire You Program Sponsor** - Engaging First Nations Youth in technology.
- **Pirate Day** - Annual fundraising for brain cancer research
- **Push-Up Challenge** - Annual fundraising for mental health awareness
- **First Aid Certification** Support – employees are given the opportunity to become certified in first aid
- **Australian Computer Society** - Corporate Member

Group photo of the WorkingMouse team and the Nunukul Yuggera Aboriginal Dance Company

Group Structure

WorkingMouse works under **East Cottage Industries** (ECI) Pty Ltd, alongside our sister company, **Codebots**. As part of the ECI group, WorkingMouse specialises in modernising legacy systems for enterprise and government organisations, while Codebots provides a platform engineering product that enables organisations to modernise and govern their systems through automation and model-driven development. Together, we deliver solutions powered by platform engineering.

EAST COTTAGE INDUSTRIES PTY LTD

Holding company   **ABN:** 48 606 942 787

WORKINGMOUSE PTY LTD

Services   **ABN:** 72 118 569 136

CODEBOTS PTY LTD

Technology   **ABN:** 43 616 799 234

Values

Balance with Direction:
We recognise when something is out of balance and have the courage to change direction.

Play with Purpose:
Through experimentation, we can play with purpose and unleash our creativity.

Mastery with Practice:
Through practice, we gain knowledge, and by teaching and sharing this knowledge, we attain mastery.

Connection with Empathy:
Our culture thrives when our connections are nurtured and strong.

Contact

📞 (07) 3606 0230

✉️ info@workingmouse.com.au

🌐 www.workingmouse.com.au

📍 C1/55 Railway Terrace, Milton QLD 4064, Australia

Executive

Dr Eban Escott
Group CEO & Director
Eban.escott@workingmouse.com.au
+61 7 3606 0230

David Burkett
CGO & Director
david.burkett@workingmouse.com.au
+61 7 3606 0230

Thank You!

Made with ❤ in Milton, Brisbane (Meanjin) Australia.

WorkingMouse acknowledges the Traditional Owners and their continuing connection to land, sea and community. We pay our respects to them, their Elders, both past and present.