



CASE STUDY • APPLICATION MODERNIZATION • MANUFACTURING

Xamarin to .NET MAUI. In Days, Not Months.

Google Play's 16 KB page-size mandate put three of Wonder Cement's business-critical mobile apps on a compliance deadline that end-of-life Xamarin could not meet. Kansoft's AI-assisted migration moved all three to .NET MAUI — each in roughly 15 days against a two-month conventional estimate.

15 days

per-app migration, vs. a ~2-month conventional estimate

3 apps

Dealer, retailer & lead-generation apps — delivered to UAT in under 4 weeks

100%

Google Play 16 KB page-size & target-SDK compliance restored

CLIENT

Wonder Cement

INDUSTRY

Manufacturing

ENGAGEMENT

Legacy App
Modernisation

DURATION

3–4 Weeks

THE CLIENT

Three Production Apps on a Retired Framework

Wonder Cement Limited, a leading cement manufacturer in India, runs three business-critical mobile applications — **a business partner & dealer management app, a retailer engagement & scheme app, and an architect & engineer lead generation app** — each carrying multiple modules, years of accumulated features, and active user bases across the business. All three were built on Xamarin, a framework Microsoft retired in May 2024.

Dealer Management App

XAMARIN → .NET MAUI

Retailer Engagement App

XAMARIN → .NET MAUI

Architect Lead-Gen App

XAMARIN → .NET MAUI

THE CHALLENGE

A Compliance Deadline, Not a Cost Decision

Most modernization projects are justified on cost or velocity. This one had a due date: Google Play requires apps targeting Android 15+ to support 16 KB memory page sizes — and Xamarin cannot be upgraded to meet it.

The 16 KB Mandate

Xamarin's native libraries are compiled with 4 KB alignment; they crash on 16 KB devices. Wonder Cement's compatibility assessment confirmed every future Play Store update was blocked until the apps moved off Xamarin.

Three Large Apps, One Window

A conventional rewrite was estimated at roughly **two months per application** — around half a year of migration work that the release calendar could not absorb.

An Abandoned Ecosystem

The Xamarin plugin ecosystem the apps depended on is no longer maintained. Each OS update risked breaking another dependency with no upstream fix, and the out-of-support runtime was surfacing in security reviews.

Zero Tolerance for Regression

These were production apps in daily business use. The migration had to preserve every screen and workflow — users should notice nothing except that updates keep arriving.

OUR APPROACH

AI-Assisted Migration, Phase by Phase

Xamarin and MAUI are close cousins — which is exactly why a from-scratch rewrite is the wrong tool. Kansoft's approach automates the mechanical bulk of the migration so engineers focus on the platform-specific edge cases.

1

16 KB Compatibility Assessment

A per-app compatibility report identified every native library, plugin, and dependency affected by the 16 KB page-size requirement — establishing the precise scope of the problem before committing to a plan.

2

Migration Blueprint

The target .NET MAUI architecture for each app: single-project structure, custom renderer → handler mapping, and a vetted MAUI-compatible replacement for every unmaintained Xamarin plugin.

3

AI-Assisted Transformation

Microsoft's .NET Upgrade Assistant combined with AI-assisted code transformation using Claude. Namespace and API translation, renderer conversion, and resource restructuring ran through the tooling; Kansoft engineers reviewed output and resolved platform-specific edge cases.

4

Sequenced Delivery

The three apps moved through a pipeline: patterns and plugin mappings established on the first app accelerated the second and third. Each app reached UAT as it completed — no big-bang cutover.

5

Parity Validation

Feature parity verified screen by screen against the Xamarin baseline, tested across a 16 KB device matrix, and confirmed against Play Store target-SDK rules before UAT handover.

AI as Method, Not Marketing

Kansoft embeds AI tooling directly into the migration workflow. The combination of the .NET Upgrade Assistant and Claude-based code transformation compressed each app's timeline from an estimated two months to roughly 15 days — with engineers, not tools, accountable for the result.

WHAT WE DELIVERED

All Three Business Apps on .NET MAUI

Full Portfolio on MAUI

All three applications rebuilt on .NET MAUI with screens, workflows, and business logic carried over intact. No feature was dropped and no screen was rebuilt from scratch.

Store Compliance Restored

Every app now meets Google's 16 KB page-size requirement and current target-SDK rules. The release pipeline is unblocked — updates, fixes, and new features reach the Play Store again.

A Supported Runtime

From an end-of-life framework to .NET MAUI on a current .NET release — annual runtime updates, active security patching, and day-one support for new Android APIs.

Modernised Project Structure

MAUI's single-project structure replaced the multi-project Xamarin solutions, simplifying builds, dependency management, and the path to future enhancements.

MEASURED OUTCOMES

Before / After

DIMENSION	BEFORE — XAMARIN	AFTER — .NET MAUI
Per-app migration effort	~2 months (conventional estimate)	~15 days delivered
Portfolio timeline	~6 months projected	All 3 apps at UAT in under 4 weeks
16 KB page-size compliance	Impossible on Xamarin	Compliant, verified per build
Runtime support status	End-of-life (May 2024)	Supported .NET release cadence
Play Store updates	Blocked at next target-SDK ratchet	Unblocked
Screens rebuilt from scratch	—	Zero

BUSINESS IMPACT

What Changed for Wonder Cement

- ✓ **Three large production apps migrated in ~15 days each**, against a ~2-month conventional estimate per app.
- ✓ **All three apps delivered to UAT in under four weeks**, with releases sequenced around the business calendar.
- ✓ **Google Play 16 KB compliance restored** — store updates unblocked before the deadline forced an outage.
- ✓ **Future scalability unlocked**: the MAUI codebase removes Xamarin's ceiling and extends to new targets as the business requires.
- ✓ **Zero disruption to active users** during migration — same screens, same workflows, supported platform.

WHY KANSOFT

Proven Wonder Cement Partnership

Kansoft's third major delivery for Wonder Cement, after the in-plant logistics platform and the reverse auction system. Familiarity with the client's environment removed weeks of ramp-up.

.NET Depth

Migrating renderer-heavy, plugin-dependent Xamarin apps requires engineers who know both the legacy framework and MAUI's handler architecture. Kansoft's .NET practice has run this path across enterprise portfolios.

AI-Assisted Delivery

AI is embedded in how Kansoft builds, tests, and migrates — a capability applied to measurable outcomes, not a buzzword bolted onto a proposal.

Deadline Discipline

With store compliance at stake, the timeline was the requirement. Sequenced delivery put all three apps in UAT in under four weeks.

Facing the Same Deadline?

Share your Xamarin application or portfolio with our team. We'll return a per-app 16 KB compatibility report, plugin risk inventory, and a day-level migration timeline — within 48 hours.



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ACCELERATOR

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