POLCODE
DEV TEAM

Legacy Systems Modernization for **Automotive & Logistic eCommerce**

Is legacy stack slowing you down?

You don't always need to rebuild from scratch – **modernization can reduce costs by 40-60%**

Our Offer Is Designed for Companies That:

➜ Struggle with **outdated warehouse systems or logistics modules**.

➜ Rely on **fragile marketplace integrations** (eBay, Amazon, etc.)

➜ Need **faster order processing and better fulfillment workflows**.

➜ Prefer a **low entry threshold** – we start with **code analysis**. and a **PoC (USD 1,250–3,800)**.

What Problems Do We Solve in Automotive & Logistic eCommerce?

→ **Old tech stack** – legacy PHP/Symfony versions, outdated infrastructure, or unsupported modules.

→ **Order processing delays** – systems can't handle increased volume or spikes during campaigns.

→ **Fragile integrations** – hardcoded connections to marketplaces or logistics providers are hard to maintain.

→ **No warehouse automation** – manual workflows hurt efficiency, scaling, and cost predictability.

→ **Rigid architecture** – customizations and updates become risky and expensive.

→ **Poor observability** – outdated dashboards make decision-making and oversight difficult.

Why Trust Us?

We've modernized legacy eCommerce systems with complex warehouse, shipping, and marketplace integrations. We know the pain of slow order sync, rigid flows, and costly architecture debt.

Our approach focuses on results, not code rewrites for the sake of rewrites.

How We Work,
Without Freezing Your Fulfillment

→ **We map the current flows.**
From checkout to warehouse, we identify bottlenecks and integration risks.

→ **We rebuild in iterations.**
Gradual upgrades prevent disruptions to daily ops and reduce risk.

→ **We refactor what's necessary.**
No blanket rewrites — we reuse working logic where possible.

→ **We modularize logistics flows.**
Inventory, fulfillment, shipping, and marketplace sync are moved into manageable components.

→ **We introduce automation.**
From stock syncing to order routing, we help teams move away from manual tasks.

On the following pages we present selected projects:

Velocity Motoring – Warehouse System Modernization

Industry: Automotive / **Logistics**

Technologies: Symfony 1.0.9 → Symfony 5.4, PHP, API Integrations

Project scope: Step-by-step migration of a legacy warehouse system to a scalable platform

RESULT:
Stability and readiness

- Faster order processing and smoother warehouse operations.

- **Lower maintenance costs** due to reduced technical debt.

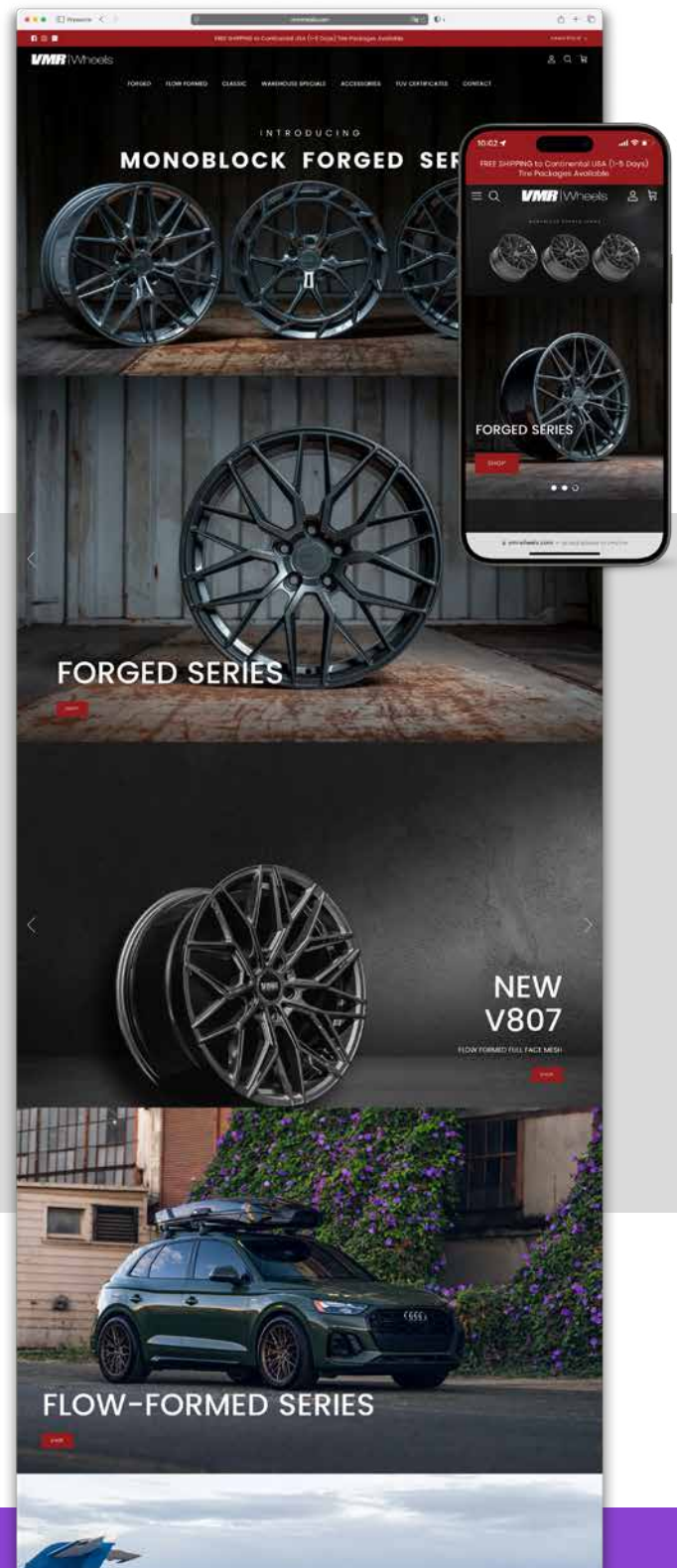- **Improved control** and readiness for business scale-up.

CHALLENGE:
Outdated system blocking growth

- **Legacy limitations** – based on Symfony 1.0.9 and PHP 5, the system was hard to maintain.

- **Poor scalability** – growing order volume affected performance.

- **Integration issues** – workarounds were needed for eBay, Amazon, and Skubana.

OUR APPROACH:
Modern UI and usability improvements

- **System stabilization** – introduced Composer, PHPUnit, and optimized core processes.

- **Phased migration** – moved features to Symfony 4.4 and later Symfony 5.4.

- **API expansion** – built modern integrations with Extensiv Warehouse Manager and sales platforms.

- **Operations optimization** – automated warehouse and reporting workflows.

Our Approach That Works

REAL EXPERTISE

we only work with technologies we know inside and out. No experiments - just proven solutions.

ACTIONABLE RECOMMENDATIONS

we look at your system as a whole, evaluating:

- code quality and architecture flexibility,

- performance under load and peak logistics pressure,

- integration of system health monitoring with 3rd-party services,

- internal operations dashboards and WCAG-readiness if needed,

- opportunities for warehouse automation or sync improvements.

Our Specialties

- **Pre-modernization consulting** & architecture review.

- **Legacy** Symfony/PHP modernization.

- **Fulfillment and inventory** automation.

- Marketplace (Amazon, eBay, etc.) **integration upgrades**.

- **Internal dashboard** and reporting rebuilds.

How We Care for Our Code?

→ **Consistent coding standards** – clean structure and easy scalability.

→ **CI/CD automation** – testing, static analysis, and seamless deployment.

→ **Security at every stage** – vulnerabilities are eliminated during development to minimize risk.

→ **WCAG readiness** – accessibility can be built into logistics dashboards and internal tooling.

What We Don't Do?

- We don't provide quotes without **code access and clear business goals**.

- We don't work with **technologies outside our scope** or **closed systems that can't be modified or safely maintained**.

How Collaboration Works?

Tangible results within the first month

Our QA and modernization efforts deliver noticeable benefits early on, providing a solid foundation for further system development.

We start with a Proof of Concept (USD 1,250–3,800), which includes a complete cost estimate and recommendations for next steps - with no obligation for long-term commitment. This phase gives you a clear analysis to help plan your next actions and budget.

1. **10 hours with a Solution Architect** – free workshops covering business needs, challenge mapping, and a draft action plan.

2. **Technical audit** – current system evaluation and business needs analysis.

3. **Bringing your project up to Polcode standards:**
- ➜ improved local environment,
- ➜ full technical documentation,
- ➜ error monitoring and proactive incident management,
- ➜ project coordination and internal knowledge base.

4. **Modernization strategy** – refactoring plan, code optimization, and new feature development.

5. **Implementation & monitoring** – ongoing technical support throughout the project.

Show Us Your Fulfillment Logic

If your warehouse system is stuck in the past, your integrations are failing, or your orders can't keep up with demand, we'll help you modernize without stopping the flow.

Contact:

Resources

Learn More About Modernization

Legacy Software Modernization – a Guide for Enterprises
Jerzy Zawadzki

AI-Generated Code: Say Hello to Legacy 2.0
Read Article

Legacy Modernization Strategies and Approaches for 2025

PART 1
Signs Your E-Commerce Business Needs a Platform Migration
Read article

PART 2
Choosing the Right Platform for Migration: Why Magento 2?
Read article

PART 3
Preparing for Migration
How to Assess Your Current E-Commerce Platform
Read article

PART 4
Strategic Planning for Migration
Understanding Risks, Goals, and Opportunities
Read article

PART 5
The Migration Process
Setting Up, Data Import, and Go-Live on Magento 2
Read article

PART 6
Post-Migration Strategies for Long-Term Success
on Your New E-Commerce Platform
Read article

Migrating legacy applications to the cloud – how to do it right
Read Article

Integrating AI and ML into you Legacy System
Read Article

Modernizing a Heritage E-commerce Platform for Craftsmanship Enthusiasts
Read Case Study

SecureBancard Audit: Modernizing a Legacy Payment Processing System
Read Case Study