

Artificial Requirements Intelligence: Simplifying Digital Projects for Everyone

Welcome to this easy-to-understand guide about how artificial intelligence can help nonprofit organizations and government agencies with their technology projects. This white paper explains Orca Intelligence's "Swiftly"® tool, which makes planning digital projects easier, faster, and more successful—even if you don't have technical expertise. Learn how this approach can save your organization time and money while helping you better serve your communities.

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Published: August 5, 2025

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technology

Why Technology Projects Often Fail

Many nonprofit organizations and government agencies struggle when trying to create new computer systems or update old ones. Nearly 7 out of 10 technology projects run into serious problems or fail completely. The biggest reason for this is unclear project requirements—meaning people don't clearly explain what they need the system to do.



Confusion About Needs

When staff can't clearly explain what they need a system to do, developers build the wrong thing.



Budget Problems

Unclear requirements lead to unexpected changes, causing projects to cost much more than planned.



Time Delays

When requirements change during development, projects take much longer to finish, delaying important services.



Unhappy Staff and Community

When the final system doesn't work as expected, both your team and the people you serve become frustrated.

These problems are especially hard for nonprofits and government agencies that have limited budgets, staff, and technical knowledge. When a technology project fails, it wastes taxpayer money or donor funds that could have been used to help your community.

What is Artificial Requirements Intelligence?

Artificial Requirements Intelligence is a new approach that uses computer programs to help understand, organize, and write down what you need a technology system to do. Think of it like having a really smart assistant who knows all about technology projects and can help translate your everyday needs into clear instructions for programmers.

Orca Intelligence has created a tool called "Swiftly®" that uses this approach. It works by taking simple descriptions of what you want your system to do and turning them into detailed, technical requirements that programmers can understand.

The best part is that you don't need to be a computer expert to use it. You just need to explain what problems you're trying to solve or what you want your system to help people do.



"We created Swiftly® to help organizations that don't have big technical teams or budgets still get the same quality results as large corporations." - Melissa Daley, Orca Intelligence

The P.A.M. Approach: Making Technology Projects Simple

Orca Intelligence has developed an easy-to-follow process called P.A.M. (Plan, Analyze, and Manage) that helps make technology projects successful. This approach is designed specifically for organizations that don't have technical experts on staff.

PLAN

In this first step, the Swiftly® tool helps you describe what you want your system to do in simple terms. You'll talk about the main goals (called "Epics"), the specific features you need, and examples of how people will use the system.

This step helps figure out how much time and money your project will need.

ANALYZE

Here, the Swiftly® tool automatically turns your simple descriptions into detailed requirements. With just one click, it creates all the technical information developers need, including data elements, sketches, scenarios, and tasks.

This is where the artificial intelligence does most of the work for you!

MANAGE

As your project moves forward, the tool helps you handle any changes needed without causing delays or going over budget. It keeps track of all requirements and makes sure new requests fit within your original goals.

This prevents "scope creep" - when projects grow bigger and more expensive than planned.

This P.A.M. approach is flexible and works for many different types of technology projects, from simple websites to complex data systems. It's designed around people's needs, not technical jargon.

Benefits for Nonprofits and Government Agencies

1

Save Time and Money

Swiftly® can create 60-70% of your project requirements in less than 10 minutes. This saves weeks or months of work and reduces the need for expensive consultants.

2

Better Results for the People You Serve

By focusing on human needs first, your technology projects will better serve your community members, clients, or citizens who use your services.

3

Reduce Risk of Project Failure

Clear requirements from the beginning dramatically reduce the chance of project delays, budget overruns, or complete failure.

4

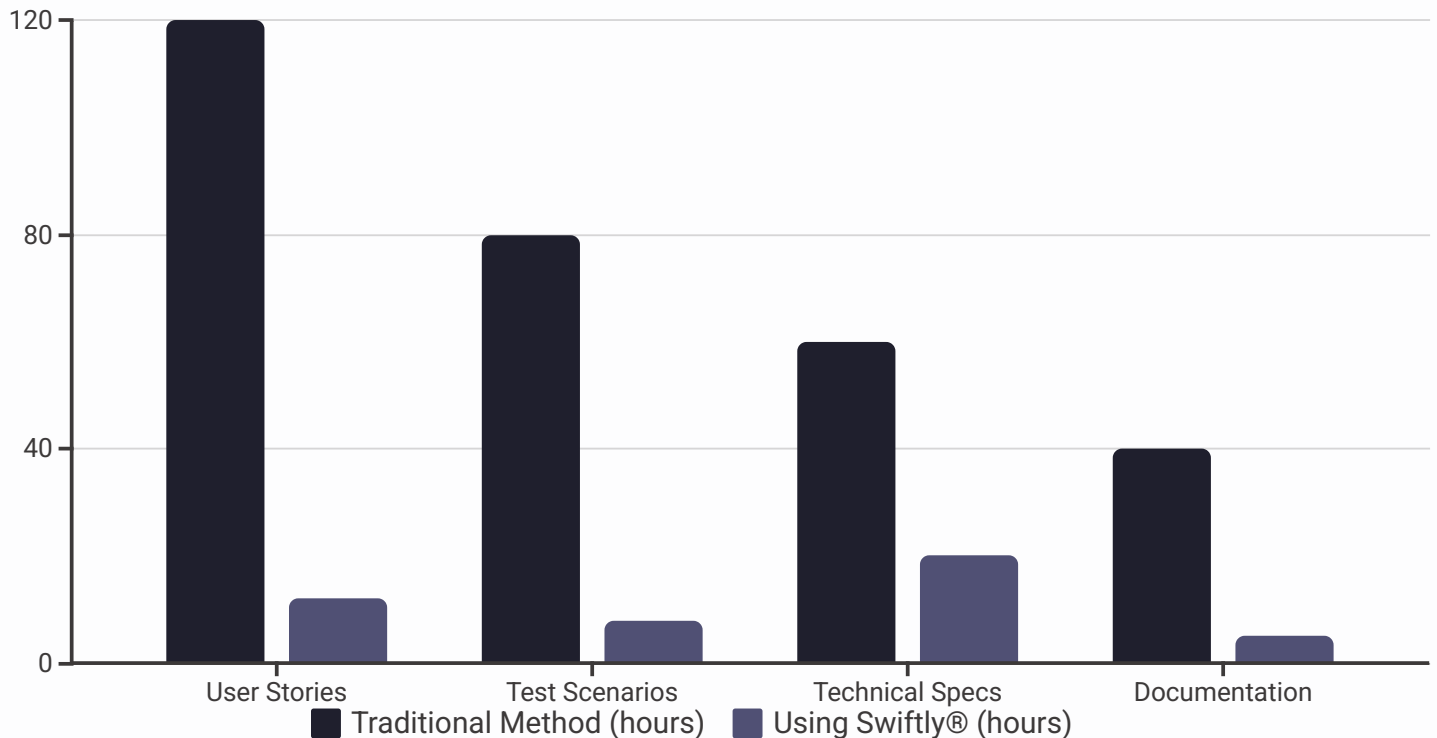
Easier Testing and Verification

Swiftly® automatically creates test scenarios so you can easily check if your new system is working correctly before launching it to the public.

These benefits are especially important for organizations with limited resources that can't afford to waste time and money on failed technology projects. When your digital systems work well, you can focus on your mission instead of dealing with technical problems.

Real Results: How Fast Can Swiftly® Work?

You might wonder if artificial intelligence can really make that much difference in planning technology projects. The data shows it can have a dramatic impact.



Based on a study of 1,200 user stories (descriptions of features from a user's perspective), Swiftly® was able to automatically generate 60-70% of all required documentation in under 10 minutes. This work would normally take a team of people several weeks to complete.

- ✔ **Success Story:** A small county government office used Swiftly® to plan their new citizen services portal. What would have taken their team 3 months to plan was completed in just 2 weeks, saving approximately \$50,000 in consulting fees and allowing them to launch their services 4 months earlier than expected.

How to Use Artificial Requirements Intelligence in Your Organization

Using a tool like Swiftly® doesn't require you to be a technology expert. Here's a simple guide to get started:

1. Gather the right people - include staff who understand your organization's needs and the people you serve
2. Focus on problems to solve - describe what you want people to be able to do, not technical details
3. Use plain language - avoid jargon and complicated terms
4. Think about your users - consider different types of people who will use your system
5. Start small - begin with one project or department before expanding

The key is to focus on explaining what your organization and community members need to accomplish, not how the technology should work. The AI tool will help translate your needs into technical requirements.



"Before using AI tools, we spent months trying to explain what we needed to developers. Now we can focus on our mission instead of struggling with technical details." - Community Health Center Director

Common Questions About Artificial Requirements Intelligence

How much does it cost?

While specific pricing isn't covered in this white paper, AI requirement tools like Swiftly® typically cost much less than hiring consultants or dealing with failed projects. Many offer special pricing for nonprofits and government agencies.

Will this replace our staff?

No. These tools enhance your team's abilities rather than replace people. They handle the technical aspects so your staff can focus on the mission-critical work they do best.

Is our information safe and private?

Yes. We created Swiftly® on a secure AWS environment. Reputable AI requirement tools have strong security measures. Always check privacy policies and ask about data protection before choosing a provider.

Can it work for small organizations?

Yes! In fact, smaller organizations often benefit the most because they don't have large technical teams. These tools help level the playing field.

Do we still need developers?

Yes. These tools help plan what to build, but you'll still need developers to actually build your system. However, with clearer requirements, development should be faster and more successful.

Case Study: Government Agency Modernization Project

The Challenge

A government agency, serving many citizens, faced significant delays in modernizing its outdated legacy system. The project was stalled for months, primarily due to an inability to finalize detailed requirements. Their team lacked dedicated business analysts, leading to a bottleneck in defining clear specifications for a new public services platform.

The Approach

Using Swiftly®, the agency staff, including administrators and frontline service providers, described what they needed in simple, non-technical terms:

- Efficiently manage public applications and eligibility checks
- Track public assistance cases and their status
- Streamline scheduling for service appointments
- Generate accurate compliance and budgetary reports for oversight bodies

The Results

Swiftly® rapidly streamlined the requirements gathering process, unblocking the stalled project. Detailed, actionable requirements were generated in just a few days. These clear specifications helped the agency:

- Accelerate the vendor selection process significantly
- Avoid an estimated \$600,000 in potential cost overruns due to scope creep
- Enable project launch 6 months ahead of the revised schedule
- Increase efficiency in application processing by 40%
- Improve citizen service delivery and reduce wait times



Key Lesson: By translating complex public service needs into clear, actionable requirements without needing extensive technical expertise, the agency successfully revitalized a long-delayed

Conclusion: Making Technology Work For Your Mission

Technology Should Help, Not Hinder

Artificial Requirements Intelligence tools like Swiftly® make technology projects simpler for organizations without technical expertise. By translating your everyday needs into clear technical requirements, these tools help ensure your digital projects succeed.

Focus on Your Mission, Not Technology

With clearer requirements and less time spent on technical planning, your organization can focus on what matters most: serving your community. Better technology systems mean more efficient operations and improved service delivery.

Take the Next Step

Consider how Artificial Requirements Intelligence could help your next technology project. Whether you're building a new website, updating a database system, or creating a mobile app, tools like Swiftly® can help make the process easier, faster, and more successful.

Remember: You don't need to be a technology expert to have successful technology projects. With the right tools, your organization can harness the power of digital systems to better serve your community, even with limited resources and technical knowledge.

For more information about Orca Intelligence and the Swiftly® tool, visit their website or contact them directly to learn how Artificial Requirements Intelligence can help your specific organization.

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