OPTIMIZE SOFTWARE DEVELOPMENT WITH AI

Generative AI is driving unprecedented creativity and efficiency that leads to superior project outcomes, as seen in SoftServe's extensive research.

Benefits of Gen AI in SDLC

Based on 1,500 experiments across various roles within the software development life cycle (SDLC), we found that adopting Gen AI can lead to:

45% boost in productivity

31% reduction in time-to-market

This is due to significant gains in productivity in:

- Requirements management
- Architectural design
- Code and unit testing
- Deployment

Overcome implementation challenges

Implementing AI in your organization demands careful planning to address vital considerations such as:

Security — Safeguard sensitive data and protect AI-generated assets

Legal implications — Navigate IP ownership, compliance, and regulatory risks

Infrastructural adjustments — Adapt systems to support AI integration at scale

Recommendations:

1 Integrate AI thoughtfully into your SDLC while evaluating IP risks and compliance

2 Monitor and adapt AI tools continuously to harness full potential and ensure client trust

3 Explore different AI tools, such as GitHub Copilot, and Amazon CodeWhisperer, to identify which aligns best with your organizational needs

4 Seek guidance from experts in IT consulting and digital services to navigate these complex business challenges effectively

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The future of agentic AI in software development

As Gen AI matures into more autonomous, decision-capable agentic AI that can set goals, adapt to context, and self-correct, the economic dynamics of software development are poised for further change.

Forward-looking organizations that embrace agentic AI will benefit from:

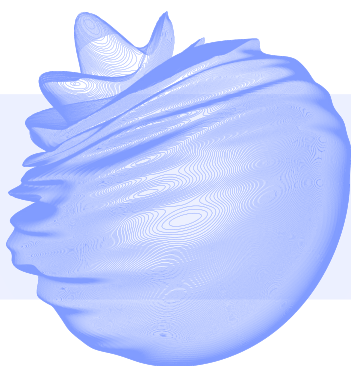Dynamic resource allocation that reduces human bottlenecks

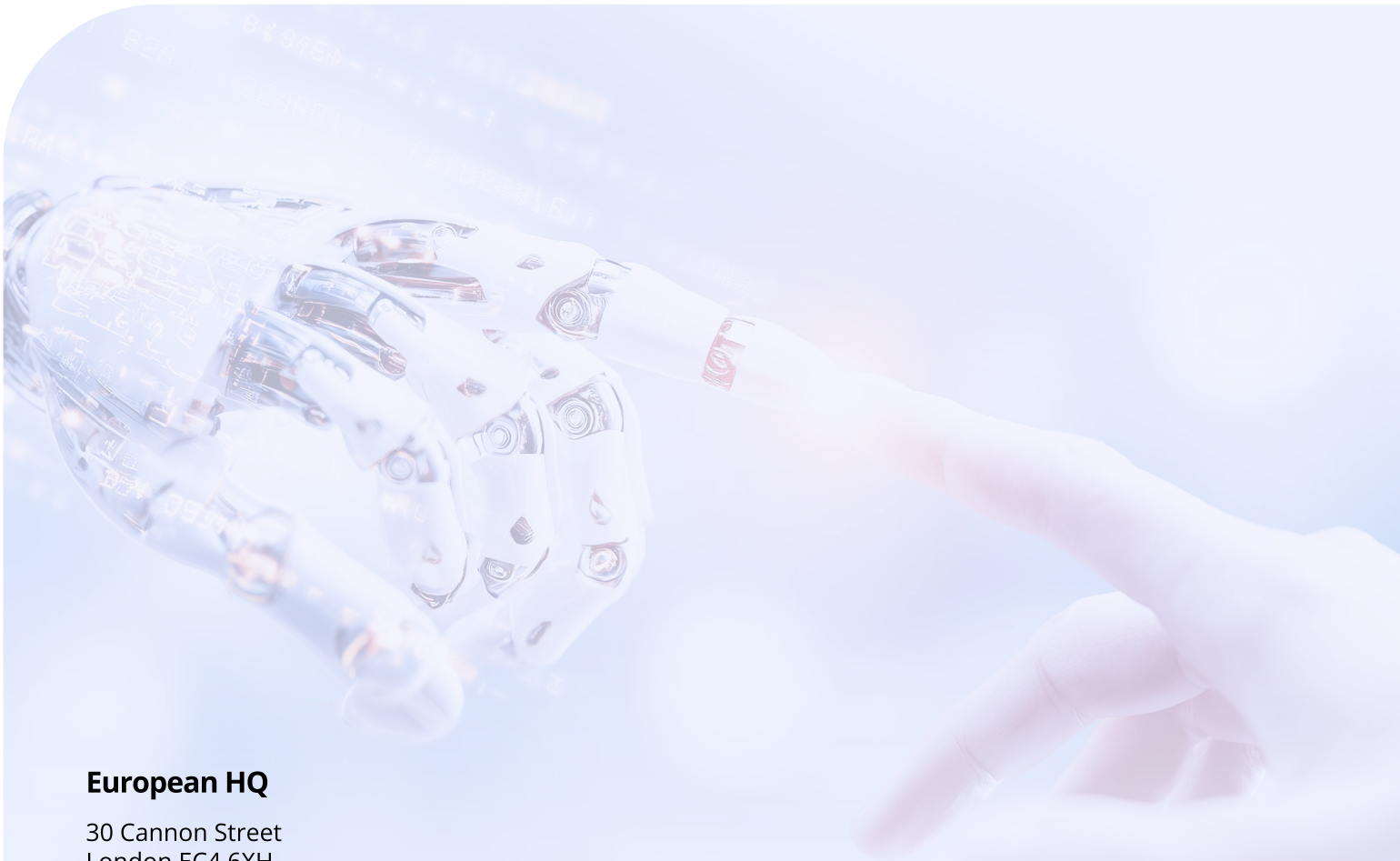Operational cost reductions through lower coordination overhead

Self-improving development cycles powered by reinforcement learning

Scalable expertise, enabling smaller teams to deliver enterprise-grade outcomes

Visit **SoftServe's Gen AI lab** for further insights and take the first step towards a more productive and efficient future in software development.

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