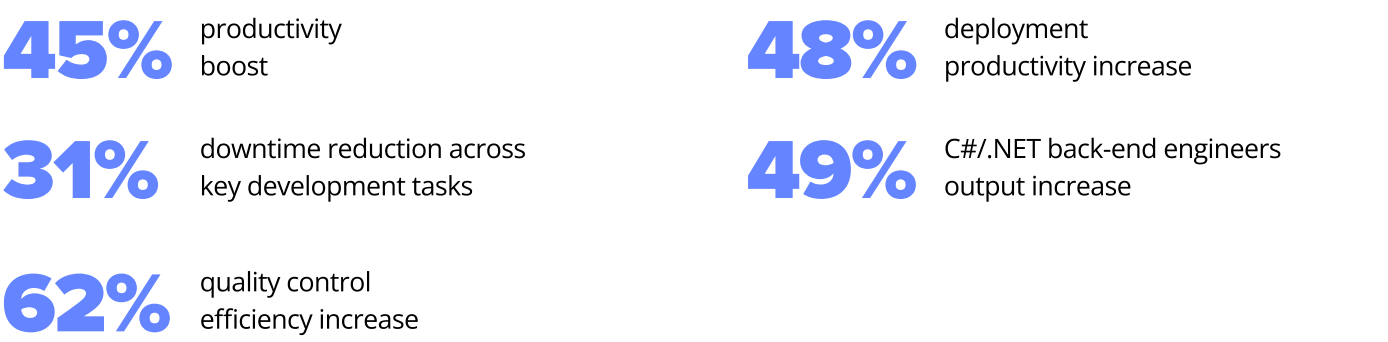# SOFTWARE DEVELOPMENT LIFECYCLES STUCK IN THE PAST?

Modernize With Gen AI

Software development lifecycles (SDLCs) face slowdowns due to lack of developers, technical debt, scope creep, testing delays, and other bottlenecks. Generative AI addresses these issues and accelerates timelines.

SoftServe research

SoftServe **conducted research s**panning more than 1,000 associates in seven countries and involving 1,500 experiments to test the power of AI in SDLCs. The results are impressive:

45% productivity boost

48% deployment productivity increase

31% downtime reduction across key development tasks

49% C#/.NET back-end engineers output increase

62% quality control efficiency increase

Incorporating Generative AI into SDLC for custom software development workflows

A typical SDLC Project

Challenges

- Manage time pressure and task execution speed
- Navigate innovation within time constraints
- Address complexity challenges

AI-AUGMENTED SDLC project

Benefits

- Increase outputs volume
- Improve deliverables qu...
- Handle more complex work
- Reduce time spent on task
- Allocate more time for value-added activities

+ Infrastructure Setup

Project

Value

Output
Time
Quality

Output
Time
Quality

+ Assessment & Design

Process

Analysis → Design → Development → Testing → Deployment → Maintenance

Analysis → Design → Development → Testing → Deployment → Maintenance

+ Productivity Monitoring

People

Product Management · Architecture · Development · Quality Assurance · DevOps, SRE · Support

Product Management · Architecture · Development · Quality Assurance · DevOps, SRE · Support

+ Education & Support

Implementation considerations

Plan ahead and take appropriate steps to:

- Address security and legal compliance
- Human-in-the-loop oversight to ensure control
- Educate teams to maximize Gen AI's potential
- Strategic segmentation for precise task execution
- Set up robust coding infrastructures
- Continuous productivity monitoring for seamless integration

Learn how **SoftServe's Gen AI solutions** can accelerate your SDLC.

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