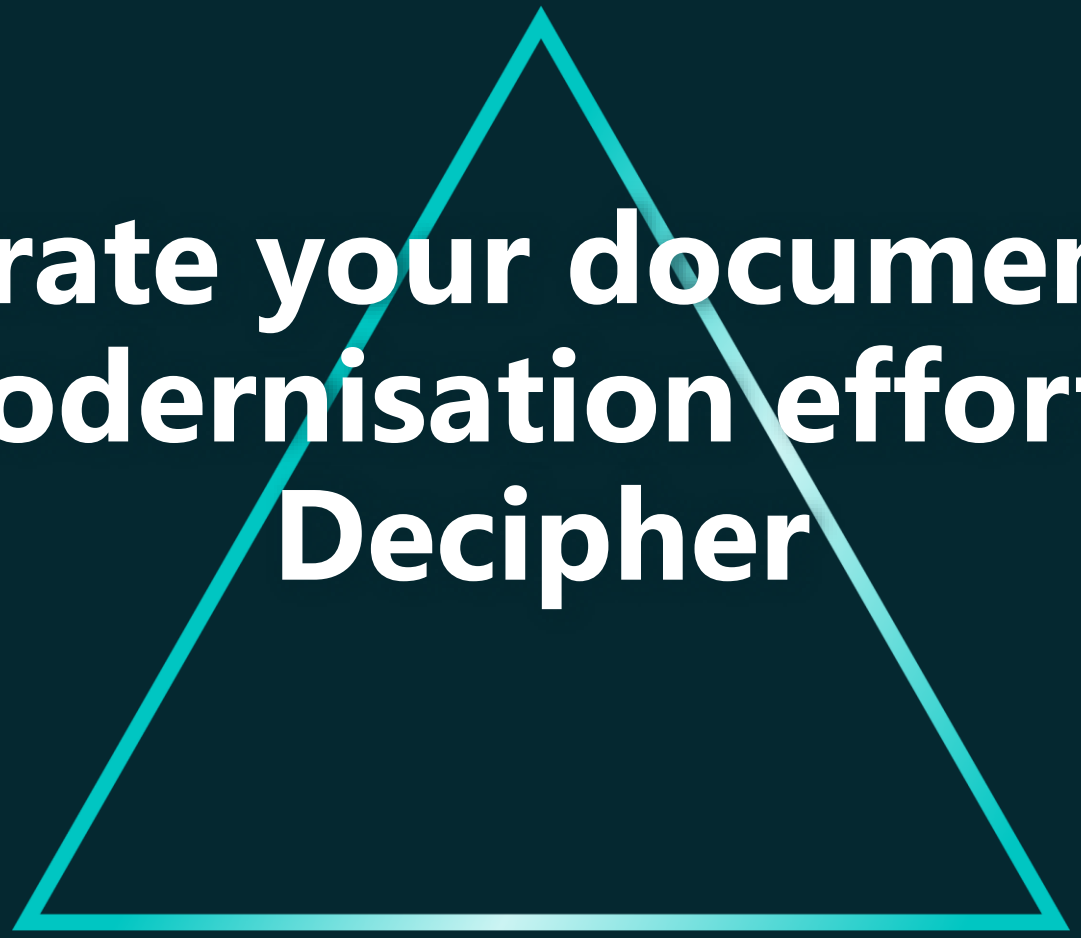
VERSION 1

Accelerate your documentation and modernisation efforts with Decipher



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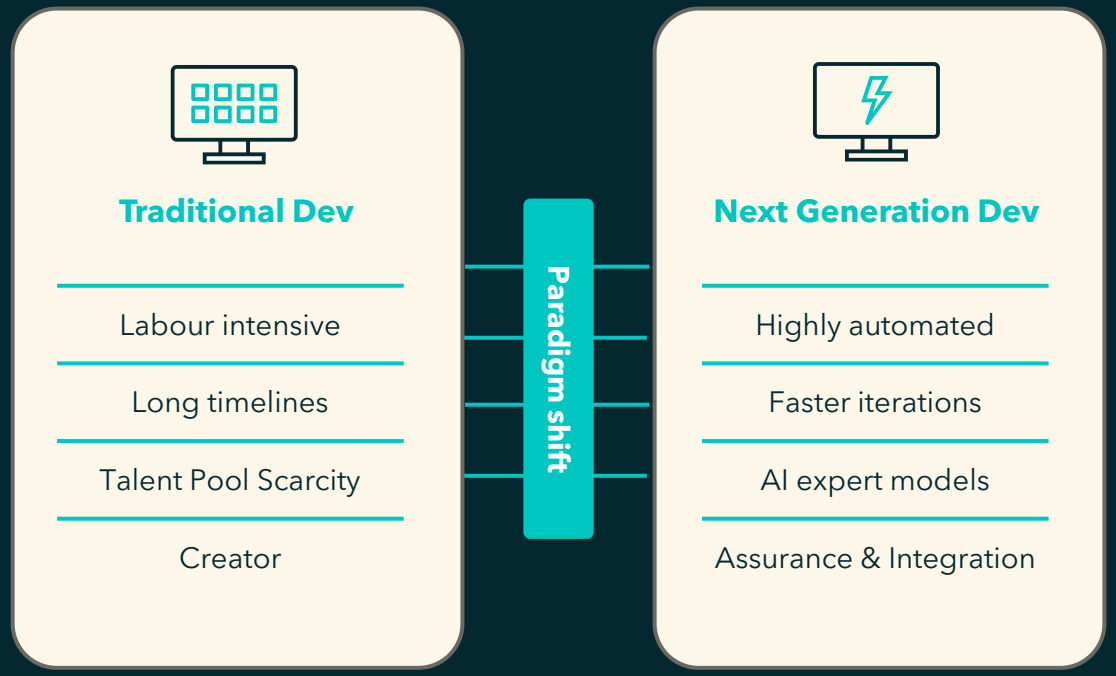
Next Generation Development

The future of modern development is here

Generative AI will power the modernisation projects of the future



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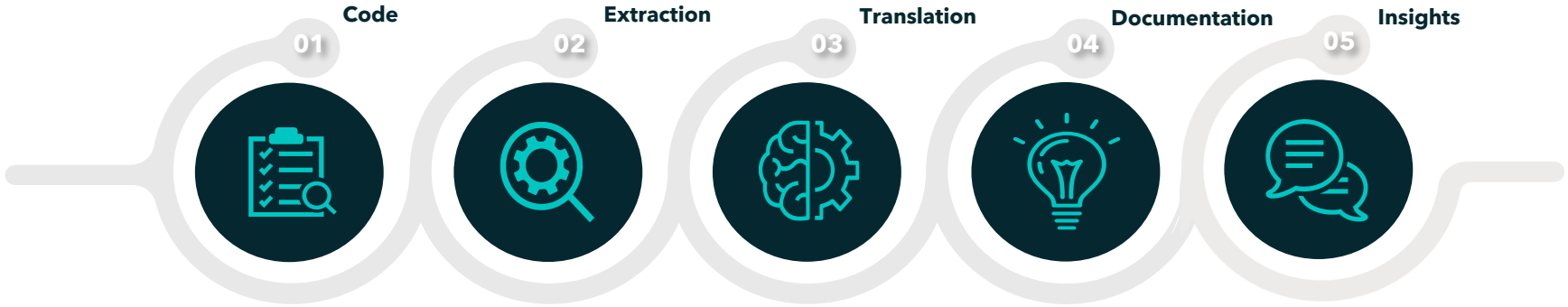
Decipher

AI Powered Code Analysis & Documentation

A Cloud Agnostic AI solution that automates the generation of functional and technical documentation to decode legacy codebases and enable efficient, cost-effective application modernisation.



Read Legacy Code

Interpret legacy codebases for enhanced readability without manual effort

Extract segments

Analyse files in a repository to extract specific code segments

AI Translation

Leverage latest AI models to translate codebases into relevant documentation

Generate Documentation

Automate process of creating technical and business documentation

Query Insights

Analyse codebases, providing tailored responses and visual data

Languages currently supported:

C# Java COBOL

Coming Soon:

Microsoft Visual Basic 6.0 ORACLE PLSQL OpenRoad

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Benefits

Reduce 20X+ investigation and documentation time

UI based solution – Minimal need for training

Document Review First

Intelligent Summary

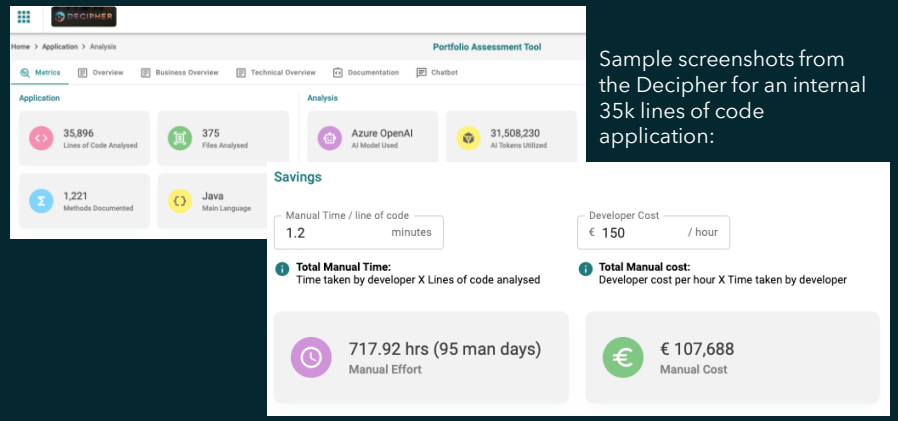
Ability to query code in natural language

An engineer: ~From our experience, an engineer can document ~**2000** lines of code per day.

Decipher: Will automatically generate your documentation in the background.

For analysing and create documentation for an application with 1 million lines of code:

- With a mid-senior developer, this leads to about **£500,000 in cost**, and would take approx. **500 dev-days to complete.**
- With Decipher, the analysis and documentation runs and generates automatically in the background.



Sample screenshots from the Decipher for an internal 35k lines of code application:

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Case Study

Decipher for a Major UKI Public Sector Department

Challenge:

A major UKI public sector department faces the significant challenge of maintaining and modernising its extensive legacy IT systems. These systems, critical to the department's operations, are coded in older programming languages that are increasingly difficult to support, making it hard to understand and modify existing codebases that leads to a higher risk of errors during system updates.

Solution:

Version 1 has developed "Decipher", a cutting-edge Web App designed to automate the generation of functional and technical documentation, crucial for decoding legacy codebases and facilitating efficient, cost-effective application modernisation. A solution tailored to address the Department challenges.

By leveraging Azure OpenAI, Decipher is configured to seamlessly integrate with the department's code repositories. The solution employs advanced language models such as GPT-4 to translate and refine complex codebases into comprehensive documentation, by analysing each file.

This process not only reduced the time spent on manual documentation by over 20 times for the department, but also enhanced understanding and maintenance of the system without the need for extensive training.

Outcomes:

- **X20+ Enhanced documentation efficiency**
- **Ability to query in natural language the code basis**
- **90%+ accurate technical documentation**

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Thank you

For more information

please visit version1.com

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