Decipher

AI Powered Code Analysis & Documentation

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

Code · 01
Extraction · 02
Translation · 03
Documentation · 04
Insights · 05
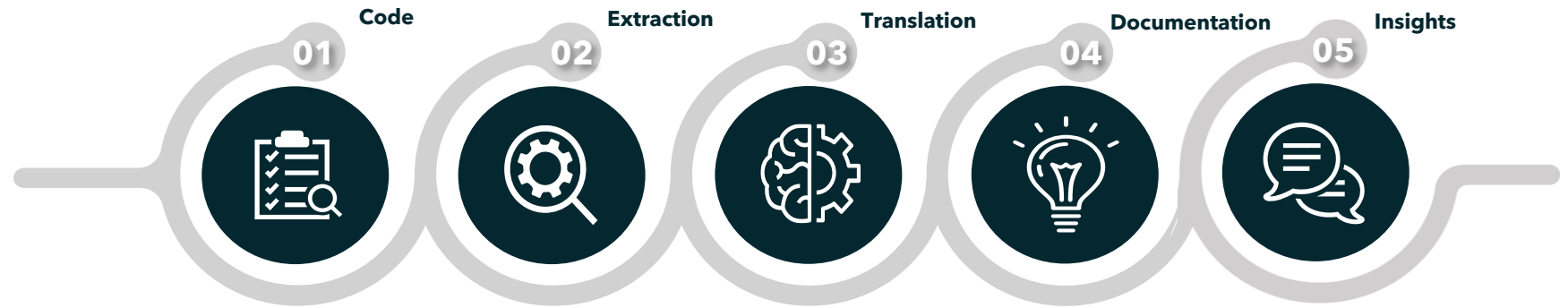
Read Legacy Code
Automatically access and interpret legacy codebases, ensuring readability and comprehension without manual intervention.

Extract segments
Methodically analyse each file and method within a repository to isolate and retrieve individual code segments.

AI Translation
Leverage advanced language models like Claude to translate and refine codebases into comprehensible documentation.

Generate Documentation
Efficiently produce cohesive technical and business documentation, directly integrated and accessible through the user interface.

Query Insights
Empower developers to interrogate their codebases with precision, offering tailored responses and visual data representations.

Languages currently supported:

C# · Java · COBOL · A

Coming Soon:

Microsoft Visual Basic 6.0 · ORACLE PL/SQL · Python

◢ VERSION 1

Benefits

AI Powered Code Analysis & Documentation

Upon uploading the source code, the application immediately offers:

- An Executive summary
- Insights into Technical Debt and Dependencies
- Visual Comparisons of Code versus Documentation in an easy-to-use UI
- Support for a multitude of Coding Languages
- A Virtual Assistant to query the generated documentation and codebase

Reduce 20X+ investigation and documentation time

UI based solution – Minimal need for training

Document Review First

Intelligent Summary

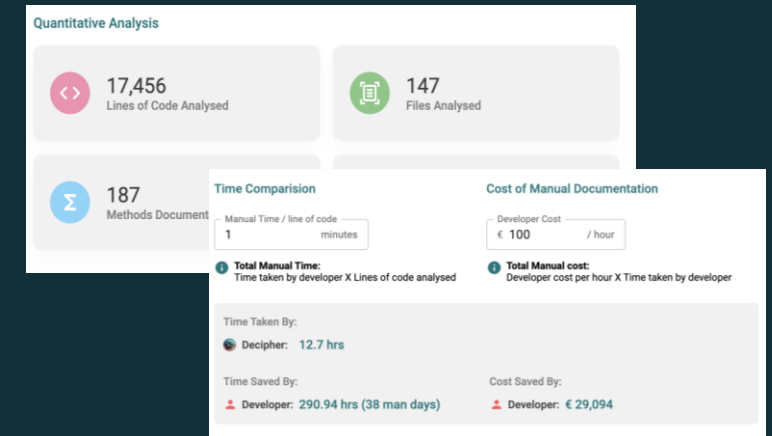**Ability to query code in natural language**

Decipher: **1,400** lines of code analysed & documented/hour, with 0% capacity required.

An engineer: at 100% capacity, could do about **60** in the same amount of time.

For analysing and create documentation for a 20K lines of code application:

- With Decipher, an asynchronous run could take 10-14h in the background.

- With a mid-senior developer, this leads to **about €30,000 cost,** and take approx. **40 man-days.**

Sample screenshots from the app:

Quantitative Analysis

17,456	147
Lines of Code Analysed	Files Analysed

187	
Methods Document	

Time Comparision

Manual Time / line of code
1   minutes

Total Manual Time:
Time taken by developer X Lines of code analysed

Time Taken By:
🌐 **Decipher:** 12.7 hrs

Time Saved By:
👤 **Developer:** 290.94 hrs (38 man days)

Cost of Manual Documentation

Developer Cost
€ 100   / hour

Total Manual cost:
Developer cost per hour X Time taken by developer

Cost Saved By:
👤 **Developer:** € 29,094

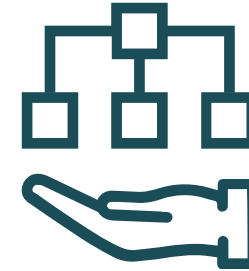**VERSION 1**

Imagine if...

01

Documentation is automatic, relevant and qualitative

02

Automatically find out what application does and how to modernise it, and how to priorities what needs to be done

03

No more single source of failure, no dependency on unicorn developers, blockers to your modernisation ambitions

04

Living documentation, always in synch, 0 effort from developers

VERSION 1

Imagine if...

05
No mysterious code bases anymore, actual English language, both for tech and functional audience

06
You can interrogate your entire code base, asking questions of it in plain English

07
Multi language, even in BIG SIZES

08
Fast and cheap

VERSION 1