# Phase I: API Evolution Data Collection

**Rust Repos**

Rust-lang　　Crates

Changelog Analysis　　Rustdoc Comparison　　CodeDiff Analysis

**API Change Categorization**

Stabilizations　　Signature Changes　　Behavioral Changes　　Deprecations

Concrete Demonstration

GitHub Usage Example Collection

Structured API Evolution Data

# Phase II: RustEvo$^2$ Construction

**LLM-based Generation Pipeline**

Code Solution Generation

Test Program Generation

Query Generation

Test Case Supplement

SOTA LLM

Seed Content

**RustAPIEvo**

Quality Control