Human defines "What?"

sets evaluation criteria, provides initial solution
and optional background knowledge

Problem definition ↓   ↑ **Improved solution**

AlphaEvolve figures out "How?"

Prompt sampler —— rich context containing past trials and ideas ——→ **LLMs ensemble**

programs to improve and act as inspiration ↑   ↓ proposals of improved programs

Program database ←—— programs with quality scores and other feedback —— **Evaluators pool**