Smart Contract Lifecycle

1. Write

Solidity code
.sol file

2. Compile

Bytecode +
ABI

3. Deploy

Send to
network

4. Interact

Call
functions

Compilation Output

Bytecode: EVM instructions

ABI: Interface definition

Source Map: Debug info

Deployment

Creates contract address

Runs constructor once

Costs gas (bytecode size)

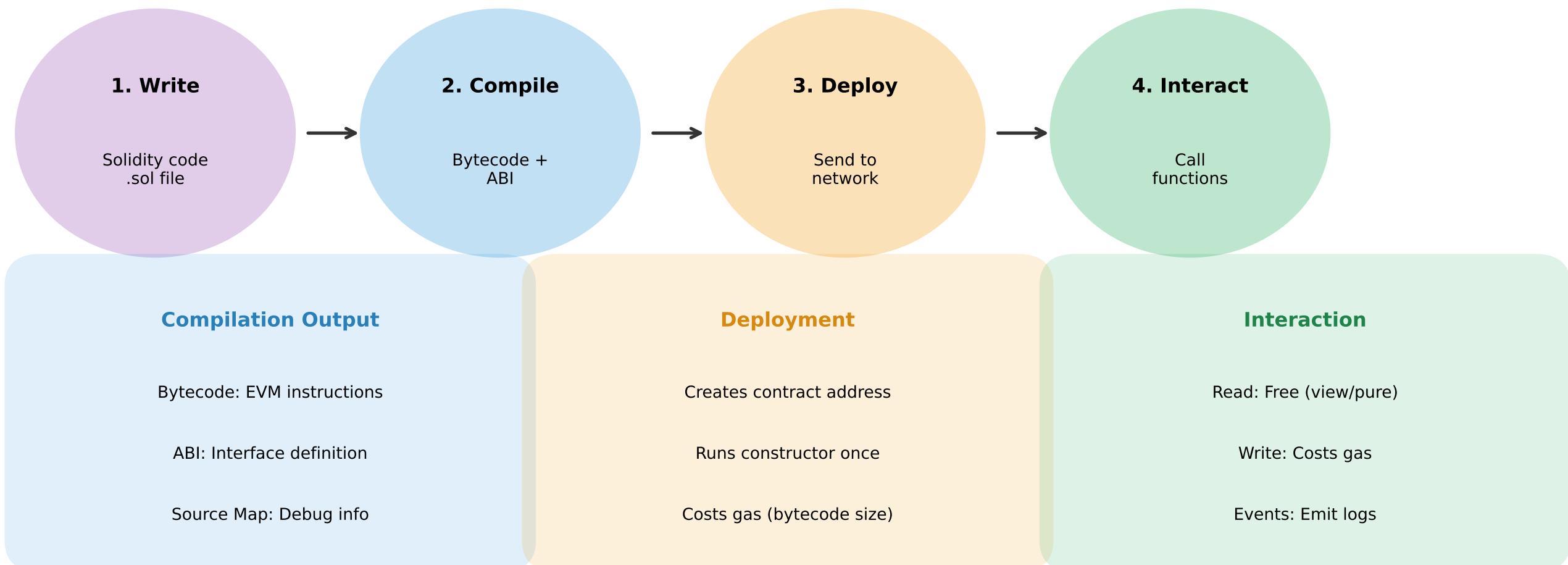**Interaction**

Read: Free (view/pure)

Write: Costs gas

Events: Emit logs

Note: Once deployed, contract code cannot be changed (immutable)