# Roadmap to Success: Agentic Qtile

### Phase 1: The "Sensory" Foundation (Weeks 1-3)

* **Milestone 1.1:** Establish the AgentBridge JSON-RPC socket.
* **Milestone 1.2:** Implement WM\_OBSERVER logic: pipe all window events to a local JSON log for agent consumption.
* **Milestone 1.3:** Create basic Cairo border decorators for manual testing.

### Phase 2: The "Cutout" Engine (Weeks 4-6)

* **Milestone 2.1:** Develop the GenerativeLayout class that supports dynamic slot creation.
* **Milestone 2.2:** Implement the **Confidence Border**: Visualizing agent state () directly on the window frame.
* **Milestone 2.3:** Integration of the Ralph Wiggin "Stop Hook" into the window closing event.

### Phase 3: Agent2UI & Sandbox (Weeks 7-9)

* **Milestone 3.1:** Implement declarative UI generation (Agent sends JSON, Qtile renders widgets).
* **Milestone 3.2:** Harden the sandbox: Use X11/Wayland security features to prevent agent windows from stealing focus or snooping outside their "cutout."
* **Milestone 3.3:** First Public Beta: "The Generative Workspace."

### Phase 4: Scaling & Community (Weeks 10+)

* **Milestone 4.1:** Integration with popular Agent Frameworks (LangChain, AutoGPT).
* **Milestone 4.2:** Support for multi-agent "Collaborative Layouts."