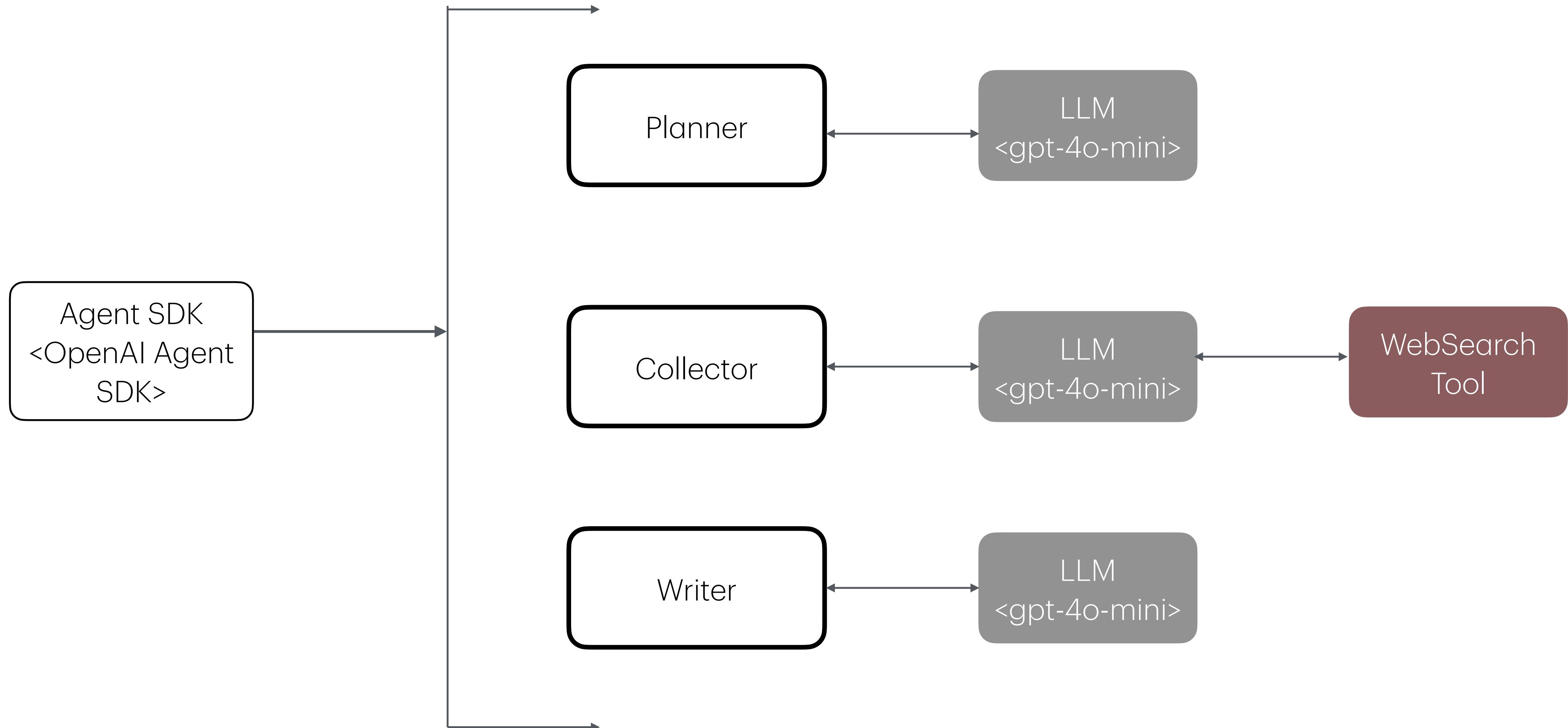


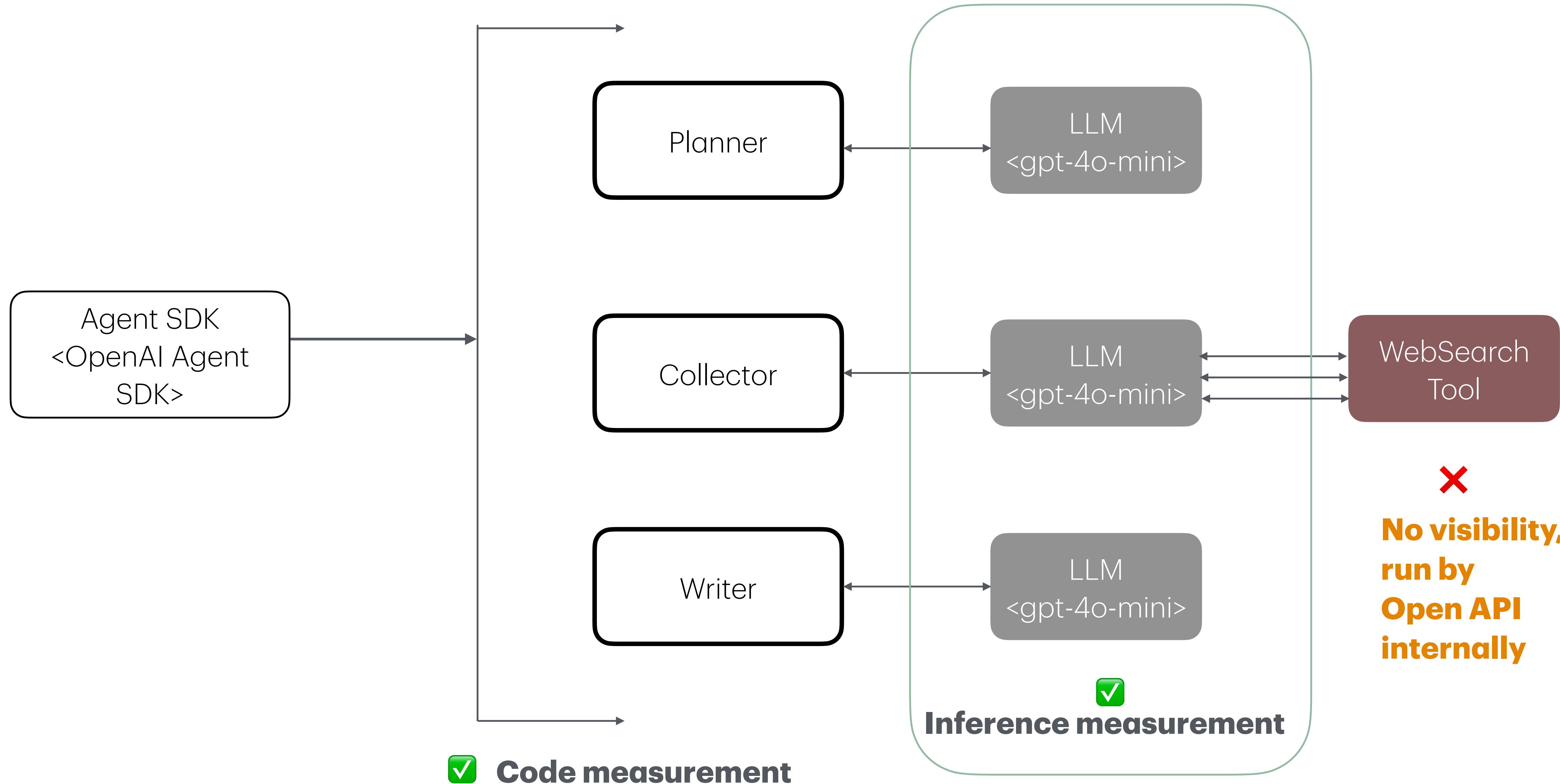
# Agentic AI Use case SCI Calculation

Navveen Balani , Co-Chair, Standards working group - GSF

# Agentic AI Use case



# Agentic AI Use case - Boundary



# Agentic AI Use case - Model Inference - Model Selection

Assume the rest of the emission parameters required for calculation remains same  
i.e output\_token = 590 , location

gpt-3.5-turbo

Energy Consumption:  
0.00614844192 kWh

GHG Emissions:  
0.0041795878483776 kgCO<sub>2</sub>eq

**SCI Score (CO<sub>2</sub>e per call):**  
4.1796 gCO<sub>2</sub>e/call

gpt-4o

Energy Consumption:  
0.06244344768000001 kWh

GHG Emissions:  
0.042447806863910406  
kgCO<sub>2</sub>eq

**SCI Score (CO<sub>2</sub>e per call):**  
42.4478 gCO<sub>2</sub>e/call

gpt-4o-mini

Energy Consumption:  
0.0034989643200000003 kWh

GHG Emissions:  
0.0023785259654496003  
kgCO<sub>2</sub>eq

**SCI Score (CO<sub>2</sub>e per call):**  
2.3785 gCO<sub>2</sub>e/call