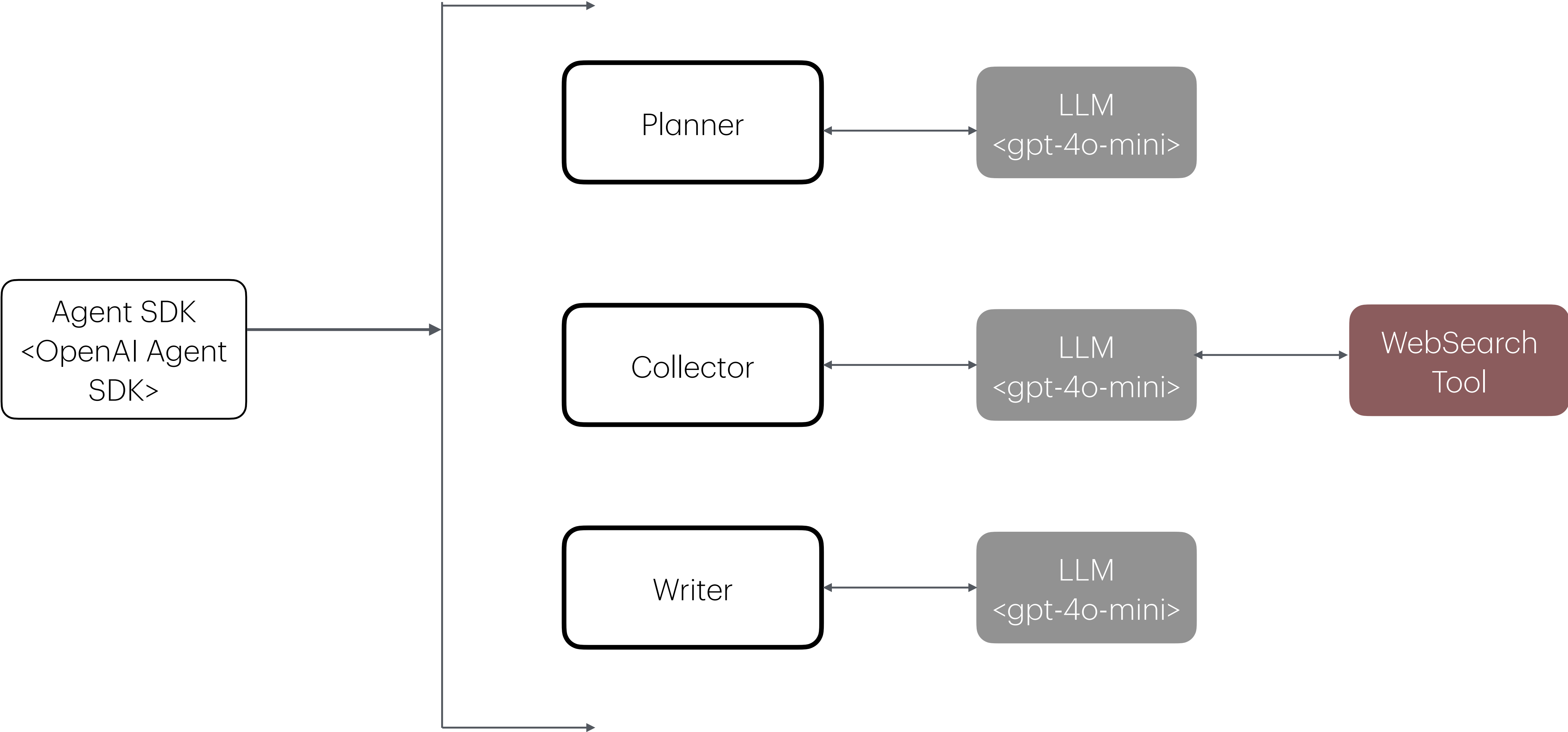


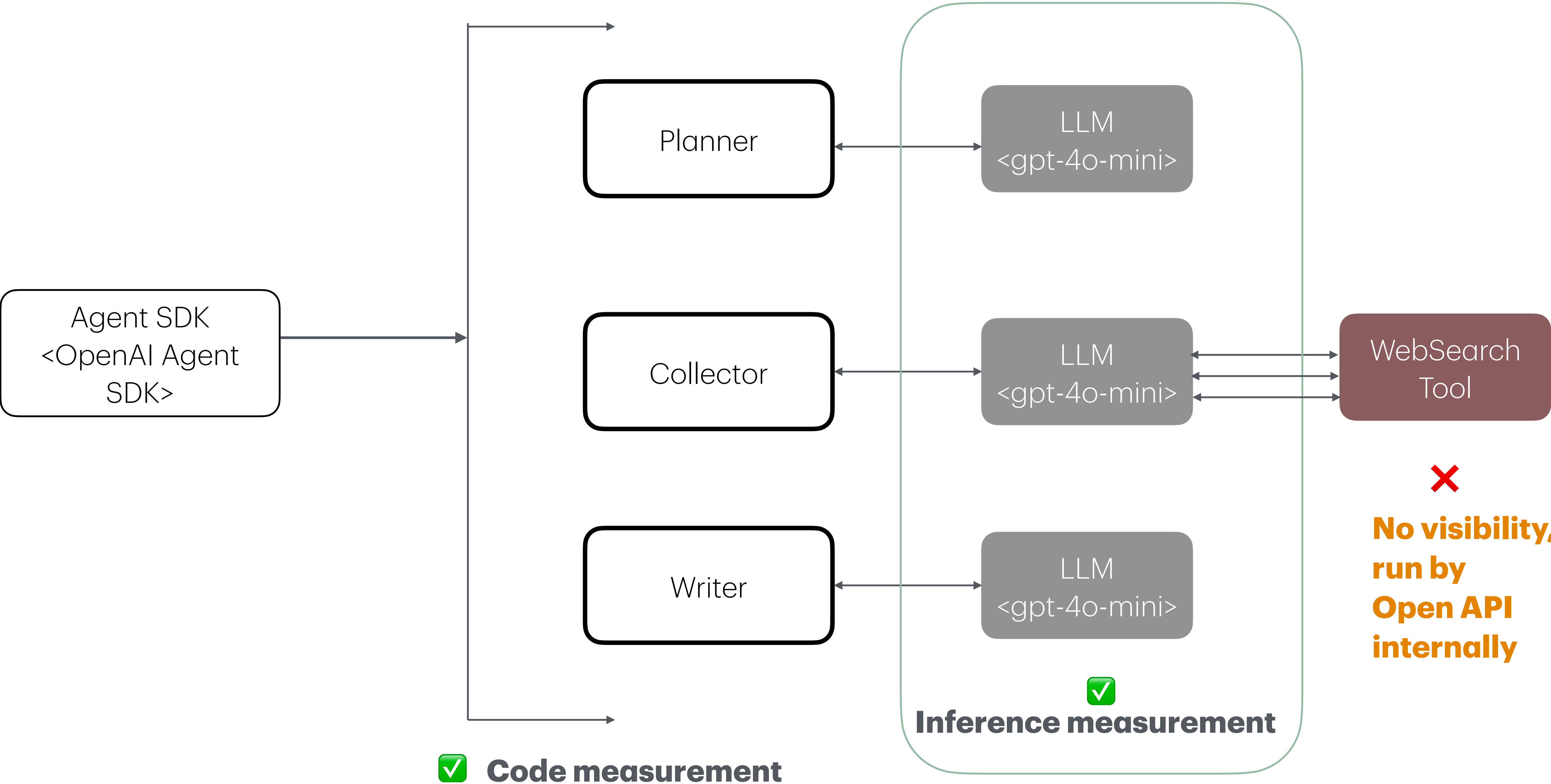
Agentic AI Use case SCI Calculation

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 kgCO₂eq

**SCI Score (CO₂e per call):
4.1796 gCO₂e/call**

gpt-4o

Energy Consumption:
0.06244344768000001 kWh

GHG Emissions:
0.042447806863910406
kgCO₂eq

**SCI Score (CO₂e per call):
42.4478 gCO₂e/call**

gpt-4o-mini

Energy Consumption:
0.0034989643200000003 kWh

GHG Emissions:
0.0023785259654496003
kgCO₂eq

**SCI Score (CO₂e per call):
2.3785 gCO₂e/call**