Designing a "Smart City" system for networked traffic control of autonomous cars involves various steps, including specifying requirements, defining the context and use cases, creating activity diagrams, and establishing an analysis architecture. For this task, I'll use the Eclipse Papyrus tool for SysML modeling.

**1. Requirements Specification:**

1. **Real-Time Traffic Monitoring:** The system must be capable of monitoring real-time traffic conditions.
2. **Autonomous Vehicle Coordination:** Enable communication and coordination between autonomous vehicles.
3. **Traffic Optimization:** Optimize traffic flow to minimize congestion and improve efficiency.
4. **Emergency Vehicle Priority:** Provide priority for emergency vehicles through the traffic network.
5. **Environmental Impact Monitoring:** Monitor and minimize the environmental impact of traffic.
6. **User Interface:** Provide a user interface for monitoring and controlling the smart traffic system.
7. **Fault Tolerance:** Implement fault-tolerant mechanisms to ensure system reliability.
8. **Interoperability:** Ensure interoperability with existing traffic control systems.
9. **Security:** Implement robust security measures to prevent unauthorized access and ensure data integrity.
10. **Scalability:** Design the system to scale efficiently with the growing number of autonomous vehicles.

**2. Use Cases and Context:**

* **Context Diagram:** Illustrate the system's boundaries and interactions with external entities.
* **Use Cases:**
  + Monitor Real-Time Traffic
  + Coordinate Autonomous Vehicles
  + Optimize Traffic Flow
  + Emergency Vehicle Priority
  + Environmental Impact Monitoring
  + User Interface Interaction

**3. Activity Diagrams:**

Refine three use cases with activity diagrams:

1. **Monitor Real-Time Traffic:**
   * Activities: Collect Traffic Data, Analyze Data, Update Real-Time Dashboard
   * Decisions: Traffic Congestion?
2. **Coordinate Autonomous Vehicles:**
   * Activities: Vehicle Communication, Route Planning, Collision Avoidance
   * Decisions: Safe Routes Available?
3. **Optimize Traffic Flow:**
   * Activities: Analyze Traffic Patterns, Adjust Traffic Signals, Communicate Changes
   * Decisions: Optimal Traffic Flow Achieved?