PACT Analysis: Traffic Guidance TUIO Objects

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| People | Activities | Context | Technologies |
| **Traffic managers**  **User Characteristics**:  Users are expected to have **basic to intermediate technical skills** with software interaction.  Comfort with visualizing **maps, routes, and objects** on a screen for purposes like analyzing real-time traffic.  Ability to understand **interface navigation** and **interpreting symbolic objects** within the application.  **Persona**:  **Name**: Alex Tawfiq  **Job Role**: Traffic Management Specialist  **Background**: Alex has 5+ years of experience in traffic management, working with visualization software and real-time data to optimize traffic flow across urban areas. With a solid understanding of map-based navigation, Alex is used to interpreting icons, symbols, and data overlays on digital maps to make quick decisions.  **Goal**: Utilize interactive TUIO objects and display devices to enhance understanding and control of live traffic maps, assisting in route optimization and traffic flow management.  **Needs**:  Quick, intuitive visualization of traffic conditions through an interactive interface.  Ability to navigate and adjust map views in real time to address emerging traffic situations.  Consistent, reliable functionality in an HCI lab or development environment to experiment with potential solutions.  **Challenges**:  Adapting to new interactive features (e.g., TUIO objects) and understanding how they impact on-screen map transformations. | **Traffic visualization**  **Interactive Navigation** | Used in labs and development environments, this app enables hands-on testing of TUIO-based touch interactions on interactive surfaces.  Supports HCI research, product development, and educational use, serving as a foundational tool to test TUIO interactions before full application integration. | **Camera**  **Server**  **TUIO Objects**  **Display Device** |